

# International Comparative Analysis of COVID-19 Responses



**KDI SCHOOL**  
KDI School of Public Policy and Management

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## **List of Abbreviations**

AGI	Arbeitsgemeinschaft Influenza
CCSA	Center for COVID-19 Situation Administration
CDC	Centers for Disease Control
CEPA	Committee of Experts for Public Administration
CHWs	Community Health Workers
COVID-19	Corona Virus Disease 19
DHS	Department of Homeland Security
ECMO	Extracorporeal Membrane Oxygenation
EMA	European Medicines Agency
FEMA	Federal Emergency Management Agency
GCI	Global COVID-19 Index
GDP	Gross Domestic Product
GSI	The Government Stringency Index
HHS	Health and Human Services
HIV	Human Immunodeficiency Virus
IASIA	International Association of Schools and Institutes of Administration
ICU	Intensive Care Unit
IDCAP	Infectious Disease Control and Prevention Act
IIAS	International Institute of Administrative Sciences
IOC	International Olympic Committee
KCDC	Korea Centers for Disease Control and Prevention
KOTI	Korea Transport Institute
LDP	Liberal Democratic Party
MERS	Middle East Respiratory Syndrome
MHLW	Minister of Health Labour and Welfare

MOHW	Ministry of Health and Welfare
NCMC	National Crisis Management Centre
NCRH	Novel Coronavirus Response Headquarters
NHCC	National Health Command Centre
NIID	National Institute of Infectious Disease
NPM	New Public Management
NRW	North-Rhine Westphalia
NZ	Aotearoa New Zealand
OECD	Organization for Economic Cooperation and Development
PCR	Polymerase Chain Reaction tests
PICs	Pacific Island Countries
PM	Prime Minister
PPCP	Privacy-Preserving Contact Tracing Protocol
PPE	Personal Protective Equipment
PUIs	Persons-Under-Investigation
RKI	Robert-Koch-Institut
ROK	Republic of Korea
RSAAAs	Regional State Administrative Agencies
SARI	Serious Acute Respiratory Infections
SARS	Severe Acute Respiratory Syndrome
SMS	Short Message Service
UK	United Kingdom
US	United States
V-Dem	Varieties of Democracy
WHO	World Health Organization

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**Chapter**

# 01

International Comparative Analysis of COVID-19 Responses

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## **Introduction**

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*KIM, Dong-Young, KDI School of Public Policy and Management*

## Chapter 1. Introduction

**KIM, Dong-Young**, KDI School of Public Policy and Management

The COVID-19 pandemic offers a very rare opportunity for scholars in comparative politics and administration to analyze 1) why many countries reacted differently (different timing and sequencing with different policy measures with different stringency) to this same external shock with equal epidemiological and biological susceptibility that occurred globally virtually at the same time, 2) how those policies led to different performance in rates of infection, testing, recovery and death, and 3) what are the implications for governments to be prepared for next rounds of pandemic. In the early wake of this pandemic, many universities, and research organizations in the world already initiated projects to quickly garner the data on the inventory of comprehensive range of policy measures and tools used by countries (Dong, Du, and Gardner, 2020; Hale, Petherick, Phillips, and Webster, 2020). However, just array of policy tools in raw forms cannot help to systematically tease out interrelationships among important variables to answer those questions above.

Fortunately, much scholarly efforts of international comparison of a few countries have already been found in global literature, which suggests multiple independent variables that might explain such variance among many countries. For example, cultural orientation (An and Tang, 2020), Regime type (Greer et al., 2020), Centralization of power (Yan et al., 2020), policy learning from past experience (Lee et al., 2020; Moon, 2020), society's demographic structure (e.g., the share of the aged population) (Chopera, 2020), and citizens' compliance and voluntary support (Migdal, 2009).

However, answering the targeted questions above is not going to be easy. First, there are so many variables and factors that are interacting each other that it is difficult to control variables across many national cases. For example, high rates of deaths per population in a country may be not just influenced by policy measures deployed by the government but also by lifestyle (e.g., smoking habits) and diet-related co-morbidities whose occurrence are different by country or by the environmental factors such as different level of air pollution which also affect respiration of people. Thus, it is important to find comparable cases appropriately.

Second, it may be too early in most cases to judge the effect of policy measures and tell a country is successful at certain time frame during ongoing evolution of this pandemic. Countries heralded as very successful in handling with the pandemic at the early phase of the pandemic turned out to be less so or even disastrous at later stages (e.g., Singapore, Finland, Germany, Vietnam, India...). On the other

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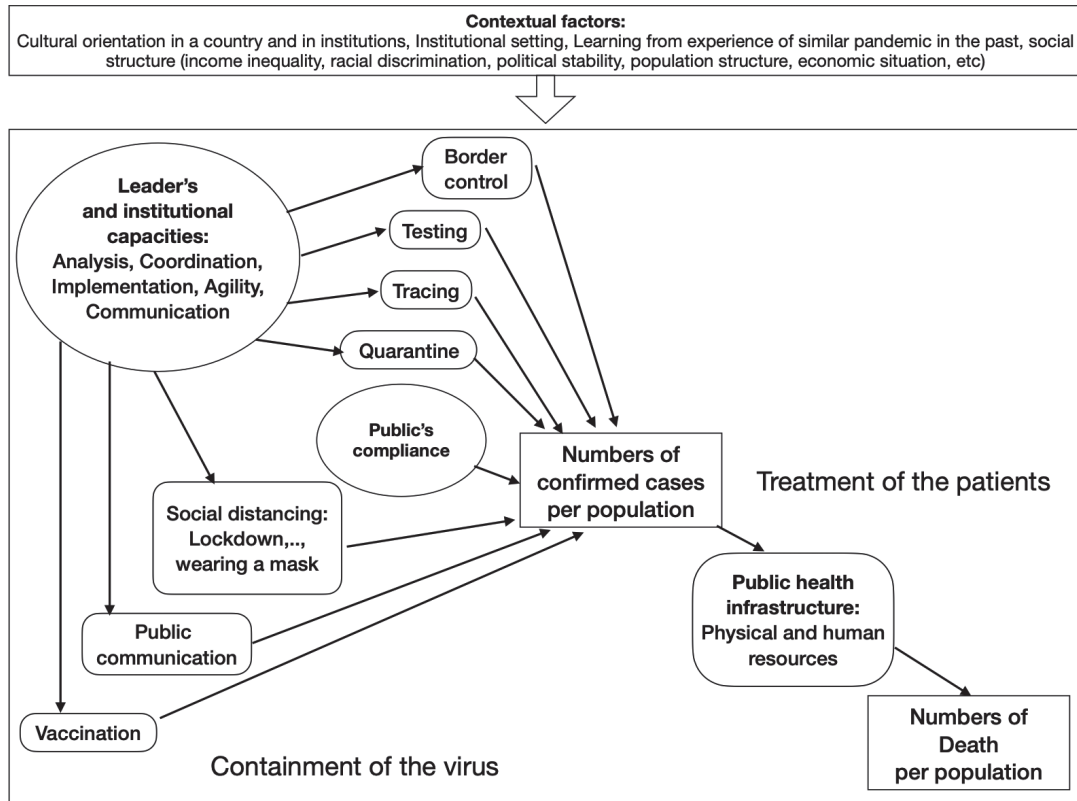
hand, countries with less successful responses from the beginning of the pandemic proved reasonably successful in turning around outbreaks with vaccination of much population (e.g., Israel and the United States).

However, it is imperative to answer those questions raised above in any case but with more in-depth, detailed case studies that can supplement and improve large-n comparative empirical studies of national-level responses to COVID-19 (Toshkov, Yesilkagit, and Carroll, 2020). In that vein, this book project began in order to contribute to answering those questions with detailed case studies of nine countries conducted by renowned scholars in the world: South Korea, Japan, Thailand, Vietnam, and New Zealand (In Asia); Germany, Finland, and Sweden (Europe); the United States (North America). Case studies of nine countries focus only on identifying factors that led to different policy measures related to ‘flattening the curve’ and public health performance from the outbreak of the pandemic to early 2021 rather than on economic packages to rescue or boost national economy.

In the next section, a systematic framework of crisis governance for the pandemic is suggested in order to enhance understanding the interrelationships among variables and factors that are identified in case studies in this book. Then, significantly and potentially influential variables in the system will be introduced briefly. After that, with basic comparative statics of public health performances of nine countries, abstract of nine chapters of case studies will be introduced.

# 1. Systematic Framework of Crisis Governance for the Pandemic

Figure 1-1. Systematic Framework of Crisis Governance for the Pandemic



The simplest framework of infectious disease management includes two measures: containment of the virus and treatment of infected patients. The level of containment of the virus manifest in the number of confirmed cases through appropriate testing of potentially infected people. Treatment of infected patients determines the number of deaths per population.

Considering that the virus is transmitted through social contacts among people in the population, containment without any vaccine can be achieved both with appropriate policy measures and citizens' appropriate behavior and compliance with government policies and guidelines. Various sorts of physical distancing among people can be maintained by ranges of measures from stringent lockdowns, border control, quarantine, schools or shops closing, and social distancing in public spaces among people who wear a mask. Individual's hygiene practice matters the most. In the meantime, containment should be done through testing and tracing of people who might be infected by any social contacts.

Once tracing and testing identifies infected patients, they should be treated medically to be cured or recovered in medical institutions without known medicines. Basic and advanced level of public health institutions, such as hospitals and quarantine facilities with enough number of doctors, nurses, and staff with necessary equipment and facilities such as ICU beds and oxygens are critical in treating infected patients.

**Table 1-1. Policy Instrument Types During the COVID-19 Pandemic**

Types of policy instrument	Instrument choices
Testing	<i>Geography:</i> Comprehensive vs. cluster-focused (i.e., hot spots) <i>Coverage:</i> any individuals with suspected symptoms vs. specific individuals with serious respiratory-related symptoms <i>Eligibility:</i> citizens vs. non-citizens (i.e., immigrants without citizenships); non-criminals vs. criminals <i>Cost:</i> free (universal) vs. cost sharing <i>Accessibility:</i> designated centers or drive/walk-through sites vs. approval by doctors after consultation
Mobility restriction	<i>Restriction degree:</i> mandatory stay-at-home order vs. voluntary stay-at-home order vs. no restriction <i>Geography:</i> national lockdown vs. local lockdown <i>Places:</i> home, workplace, public transport
Border control	<i>Entry ban target:</i> all countries vs. select countries (regions) in high-risk groups vs. no border control
Quarantine (and contact tracing)	<i>Surveillance:</i> monitored vs. voluntary <i>Location:</i> government facilities vs. assistance <i>Methods:</i> in-person interviews and visits vs. app (GPS)-based technology vs. electronic wristbands
Priority group for treatment	<i>Groups:</i> citizen vs. non-citizen; insurance holder vs. non-holder, elderly vs. non-elderly
Social distancing and other hygiene practices (e.g., mask wearing)	<i>Enforcement:</i> mandatory (by law) vs. left to the private enterprises vs. voluntary
Public information campaign	<i>Sources:</i> mobile text message; newspapers; billboards; television ads; social media; government homepage <i>Materials:</i> cartoons; words; videos
business (and school)	<i>Operation:</i> businesses opened as usual vs. essential industries only allowed to open (i.e., non-essential closed) vs. all closed; school opened vs. temporary closure
Limits on mass gatherings	<i>Threshold:</i> universal number applied to the whole country vs. density-based restriction <i>Type:</i> all public gatherings banned vs. private gatherings banned as well

Source: An and Tang, 2020

In order to answer the three key questions of sources of different policy measures (in terms of timing, sequences and combinations of various policies with different level of stringency) (Attwell and Navin, 2019; Knill, Schulze, and Tosun, 2012; Ritchie, Roser, Ortiz-Ospina, and Hasell, 2020; Schaffrin, Sewerin, and Seubert, 2015)., and variables that affect public health performances, and policy implications for pandemic management in the future, we clarify a few categories of variables surrounding these containment and treatment schemes in general.

First, people in institutions, public or private generate ideas and formulate official plans and implement them. Thus, what is important is their capacity (Gleeson et al., 2009, 2011) to assess the situation, make appropriate decisions, and implement them effectively (by communicating, networking, and coordinating with various actors including experts, private sectors, and public) in multiple levels of decision points and by acquiring necessary resources). In fighting with the virus that is transmitted so fast, agility of actors may be the most important capacity. They need to assess situations fast, make appropriate decisions fast, do fast, learn from any mistakes fast, and adjust to new situations fast. Many countries took action too late and/or in- decisively (with important exceptions such as Greece and Germany). They lost critical time, and the delays to action have cost lives. Also, coordinating capacity may be very important since a few actors cannot address complicated issues alone but need help and support from different actors. Some of those capacities are already given or inherited in some countries and are the matter of system. Other kinds of capacities hinges on personal traits of key politicians (or leaders) and top bureaucrats in governments.

Second, understanding of why those people in various institutions make different decisions and implement them in terms of containment and treatment variously requires identifying background (contextual) factors. Contextual factors are given before the outbreak of pandemic and maintained during the pandemic or changed abruptly in the process. Those factors include 1) cultural (or value) orientation in a country and in their institutions, 2) existing institutional setting or (public health) infrastructure, 3) financial and human resources, 4) preparedness via learning from the similar experience of infectious diseases in the past, 5) social structure (income inequality, racial discrimination, share of the older population, the level of public health), 6) level of economic development of a country, 7) political situation (e.g., presidential election), 8) political regime type (autocratic vs. democratic government) (multi-party vs. single-party) and government structure (federal vs. unitary), and not the least, 9) size of the country (areas and population). Some background factors may influence government responses as well as citizens' social and individual behaviors.



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## 2. Variables

### 2.1. Background (Contextual) Factors:

#### 2.1.1. Institutional Infrastructure (that has existed before the COVID-19 pandemic) and Policy Learning (Capano et al., 2020; Moon, 2020).

Some Asian countries, such as South Korea and Taiwan, that experienced similar infectious diseases, such as SARS and MERS overhauled and streamlined their public health systems with substantial staff, budget, critical health infrastructure, and necessary autonomy in order to prepare for similar round of epidemic in the future. For example, In South Korea, legislations were adjusted to facilitate the approval process for test-kit development and clinical trials. Lee et al. (2020) and Moon (2020) argue that quadruple-loop learning from the past experience helped South Korea to respond to COVID-19 more effectively and fast.

However, Japan did not build necessary health infrastructure although she experienced the H1N1 pandemic in 2009. And the lack of preparedness for the pandemic in Japan was revealed when responsible agencies mishandled the inspection and quarantine of COVID-19 infected passengers in a cruise ship (Shumaker, 2020). In the U.S. the Global Health Security and Biodefense Unit was established in 2015 in the wake of the swine flu in the U.S. by the Obama administration in order to prepare similar pandemic. However, that unit was abolished in 2018 by the Trump administration (Reuters Fact Check, 2020). Ironically, wearing a mask in this pandemic was no controversial in South Korea since Korean people already get used to it due to transboundary air pollution, so-called ‘yellow dust’ from China.

#### 2.1.2. Cultural Orientation

Culture matters in policy compliance and social behaviors. In East Asia where collectivism prevails, individual freedom may be sacrificed for collective good during a crisis. Thus, stringent measures like lockdowns that infringe on individual freedom may be acceptable and sustainable in such a culture. However, in western culture where individual freedom and self-responsibility are much valued, stringent policy instruments may not be welcomed and sustainable over a long period (Gelfand, 2012; Markus & Kitayama, 1991). Even different greeting styles in different cultures may affect contagion of the virus. Bowing rather than kissing and hugging may be much safer in pandemic situation. Thus, some scholars argue that different national response strategies for COVID-19 are determined by cultural orientation of the country since the most critical interventions facing uncertain virus without medicine or vaccine are nonpharmaceutical ones to modify individuals’ behavior in order to contain and mitigating the COVID-19 pandemic (Wilder-Smith and Freedman, 2020; Yan et al., 2020).

### **2.1.3. Regime Type and Formal Political Institutions**

In democratic regimes, taking decisive and forceful measures might have been more difficult compared with autocratic regimes since decision-making power is shared at different levels and leaders need to take multiple steps to consult citizens and stakeholders and political parties may compete each other with different positions. On the other hand, centralized, autocratic states may adopt and implement policies faster in a top-down fashion (León & Orriols, 2019; Wimmer, 2018). Thus, decentralized countries may prefer to provide recommendations and lax restrictions on citizens rather than stringent policy options. One formal institutional arrangement key to understanding different COVID-19 response strategies is the degree to which power and authority are centralized versus decentralized in a country.

In a similar vein, federal states, such as the United States, Germany, Brazil, and Russia, are often reproached for coordination problems between federal governments and state or local governments. The question of who has which responsibilities and power becomes an important issue in risky situation. What is the ideal coordination between strong or weak federal or central government or independent capable local government? Existence of multiple political parties and their ideological composition in a parliament may affect social policy decisions and impending decisions that may infringe on individual freedom. As Daniel Beland, Philip Rocco and Alex Wadden (2020) argue, in the US case, as in Canada, federalism played a foundational role in structuring how the United States responded to the COVID-19 pandemic.

Other scholars emphasize that state capacity (not infrastructure nor system) matters more than regime or institutional type or income-level in responding to urgent risks. Improvement in government capacity to deliver services, implement policy measures, and communicate with the public matter.

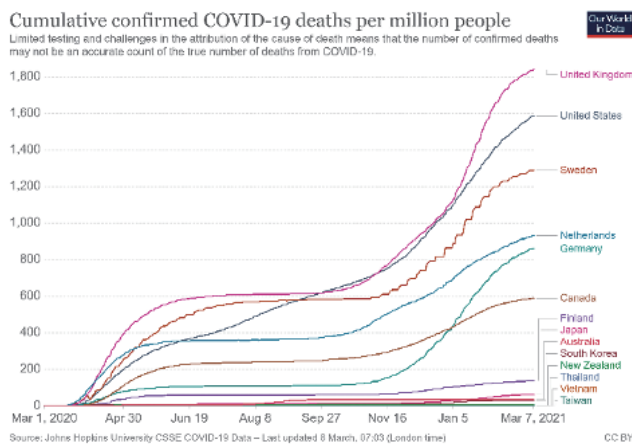
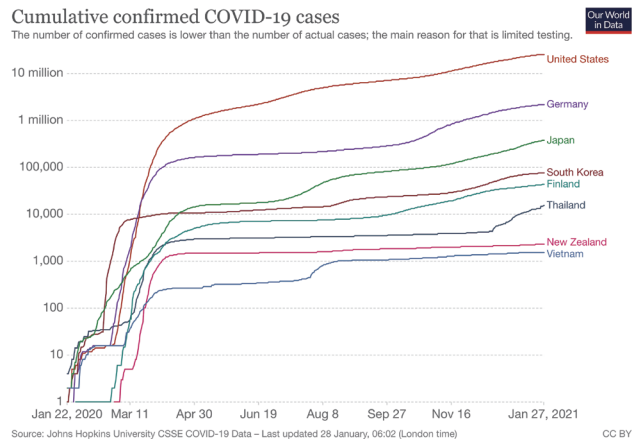
## **2.2. Case Studies of COVID-19 Risk Governance of Nine Countries**

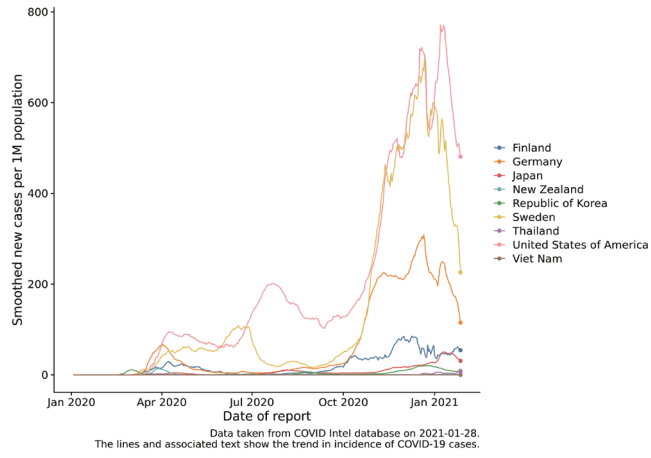
In-depth country case studies in this volume provide more comprehensive assessment of risk governance to cope with COVID-19 pandemic in nine countries: South Korea, Japan, New Zealand, Thailand, and Vietnam in Asia; Germany, Sweden, and Finland in Europe; and the United States in North America. Nine countries were selected to have meaningful variation across multiple dimensions in order to increase robustness of the findings from our international comparison. These dimensions include 1) existing institutions, such as organizations, laws, and regulations related to public health and infectious disease control as one of starting conditions, 2) size of the country in terms of areas and population, which may affect efficiency and agility of the decision and controllability of diseases, 3) civic culture manifest in relations between the government and citizens, 4) rules of law 5) use of technology 6) use of experts 7) political stability, 8) voluntarism vs. command and control 9) learning from the past experience 10) liberal, democracy, autocracy 11) federal system, unitary system. For

example, the United States and Germany are big countries with large population and operate on federal system, while some other countries, such as New Zealand and South Korea are relatively smaller in size and population. We also select some developing countries, such as Vietnam and Thailand to be compared with other advanced countries in their effort to cope with COVID-19.

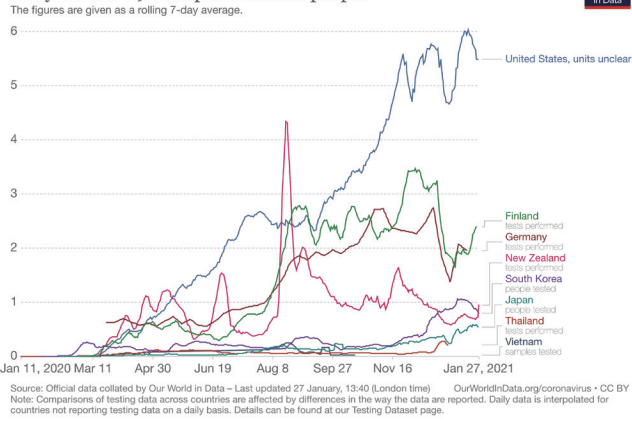
### 2.3. Public Health Performance of Nine Countries during COVID-19 Pandemic

In terms of performance, such as the number of confirmed cases and the number of deaths per million population, countries have showed relatively different levels of outcomes at different phases of pandemic outbreak. Some countries, such as South Korea, Vietnam, Thailand, New Zealand, Germany, and Finland, have coped with pandemic situation relatively well while the United States and Sweden have suffered relatively more numbers of confirmed cases and deaths than other countries.

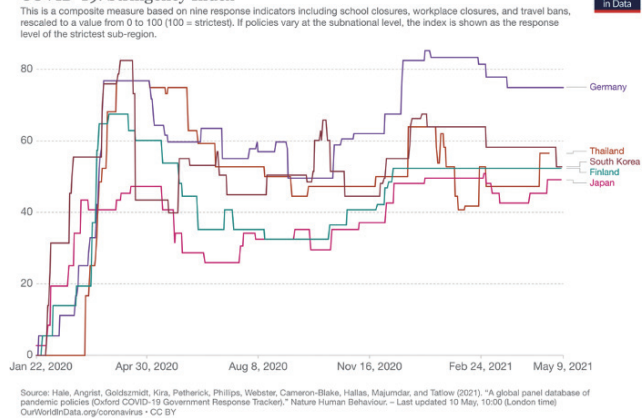




## Daily COVID-19 tests per thousand people



## COVID-19: Stringency Index



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## **2.4. Brief Summary of Nine Case Studies**

### **2.4.1. South Korea: Adaptive Learning from the Past and the Whole-community Approach**

Although South Korea was severely hit by COVID-19 in February, 2020, the Korean government and citizens controlled the early and sudden surge of COVID-19 confirmed cases remarkably fast and effectively. Rather than relying on stringent border control and heavy lockdown, the government provided necessary IT technologies and performed systematic test, tracking and treatment approach very effectively. Also, the government communicated the risk transparently and frequently enough to ensure citizens' compliance on the hygiene guideline from the government. Kilkon Ko as the author of the chapter suggests that accumulated experience of virus-related disaster in the past helped the Korean government to equip necessary institutional setting and knowhow to cope with the similar situation. So-called 'whole community approach' in South Korea that relies upon communication, coordination and citizens' compliance rather than strong command and control of the government is the key factor to explain relatively successful control of COVID-19.

### **2.4.2. Japan: A Cautious and Self-restraint-based Approach**

Japan has managed the COVID-19 pandemic more effectively than other industrialized democratic countries, such as the United States and England in terms of its numbers of confirmed cases and deaths. However, compared with other Asian countries, such as South Korea and Taiwan, Japan does not seem to have been that successful. Without a clear legal basis, Japanese government's responsive measures appear relatively loose and have relied upon citizens' self-restraint behaviors. Kentaro Sakuwa and Kohei Suzuki argue in the chapter for Japan argue that Japan's approach is characterized as a cautious and self-restraint-based approach where citizens' self-restraint behavior and personal hygiene practices are expected to play more pivotal role in fighting with the virus than strict, legally-binding measures and proactive testing and tracing do. Authors trace as the source of the characteristics of Japan's approach to COVID-19 pandemic three institutional factors that include 1) institutional constraints on the prime minister's leadership, 2) limited administrative capacity and pandemic preparedness and 3) bureaucratic professionalism and closedness.

### **2.4.3. Thailand: Top-down Centralized Command with Community-level Health Voluntary Workers**

Despite recent surge of confirmed cases of COVID-19 since May, 2021, Thailand was heralded by international commentators as one of the successful countries to control the spread of the virus with low level of the infections and resulting deaths per population during 2020. Considering the fact that the first detected case of COVID-19 outside China occurred in Thailand in January 2020, the achievement of Thailand is remarkable. According to Ora-orn Poocharoen, the author of the chapter for Thailand, its performance has something to do with four distinct factors in Thailand that include

1) centralized and closed autocracy regime of military junta-linked government, 2) culture of intact greeting, 3) high level of trust in medical experts, and 4) existence of community-level voluntary health workers. From the early phase of pandemic, strong, autocratic, centralized government used very stringent policies, such as border control, lockdown of key public places and movement restriction with the military extensively using the Emergency Decree on Public Administration in Emergency Situations rather than with empathetic communication with the public. And Thai culture of greeting without handshakes or hugging helped to maintain necessary social distancing. Also, in Thailand, people have so great respect for medical doctors and health experts that they followed their advice to wear masks and personal hygiene practices without much debate. More interesting component in Thai case is the role of almost one million community health workers as unsung heroes who are close to private street-level bureaucrats but contributed a lot to tackling HIV, SARs, and COVID-19. They fill in the gaps of inadequate doctors and nurses by fulfilling the tasks of collecting data, contact tracing, and providing necessary information to the public.

#### **2.4.4. Vietnam: Effective Single-party State with Improved Central-local Government Coordination**

As a developing country with 96 million people and extensive border shared with China, Vietnam has reported just under 1,500 cumulative confirmed cases of COVID-19 and 35 deaths at the end of 2020 and was able to ease social distancing and reopen its society much earlier than many advanced countries. Such a successful management of pandemic situation in a non-democratic regime with a single party system is attributed to a few factors that include the government's decisive and proactive actions to shut the borders, close schools, conduct extensive contact tracing and mass quarantine in centralized military camps with coercive and surveillance measures. Trang (Mae) Nguyen as the author of the chapter for Vietnam adds that Vietnam's effective response was also a function of other several factors that include mobilizing campaign redolent of wartime exigency that emphasizes patriotism and sacrifice of people. Neighborhood committees – a staple of socialist grassroots administration - comprised of local community party bureaucrats and retired army personnel played crucial roles in tracking and quarantining potentially infectious individuals before the virus spread. Another important factor is the country's decades long efforts to improve local governance in the field of healthcare access, transparent risk communication, and central-local government policy coordination.

#### **2.4.5. New Zealand: Strong and Effective Political Leadership with Communication Capacity**

In New Zealand as of January 2021, there had been only 460 confirmed cases per million people and 26 deaths, which is the outlier performance compared with OECD countries. New Zealand was able to flatten the curve of COVID-19 infections at the early stage of the pandemic with swift and decisive actions, such as the closure of the international borders and strict lockdown measures, by prioritizing public health over economic concerns and civil liberties. Apart from the fact that New Zealand is

a small and remote island nation with a unitary government and a history of regional stewardship, Sophie Henderson and Matt Withers provides in their chapter insightful analysis on other enabling factors to lead to successful management of the pandemic in New Zealand. Devastating experience with the influenza pandemic of 1918-19 through the Pacific Island nations helped to set the nature of the government's response as a regional steward. More important factor in New Zealand case is strong crisis leadership, particularly clear, frequent, and science-oriented communication approach of political leaders, which has shaped public attitude and promoted trust and compliance with control measures.

#### **2.4.6. Finland: Majority Parliamentarism with Strict Constitutional Constraints**

Despite rapidly increasing surge of another wave of COVID-19 pandemic, Finland had showed relatively lower incidence of confirmed cases and deaths per population than other European countries until mid-March 2020. The Finnish government's main policy too has been hybrid strategy of testing, tracing, isolating and caring pinned to the phase of the pandemic (baseline, acceleration, and community transmission). Pertti Ahonen suggests that understanding of policy responses and public behaviors in Finland requires assessment of party politics and political governance in Finland. Some government proposals of legislations to cope with pandemic urgently were rejected by the Constitutional Committee of Parliament on the grounds that those legislations might restrict people's freedom and liberties excessively. Also, since the Finnish government consists of multi-party majority coalitions where three to six party chairpersons hold ministerial portfolios, all the parties in the government have had coordinated in Finland's combat against the pandemic. However, the coordination challenges have not been insurmountable although some cases required drastic actions. Overall, Finland has been one of the few countries in the world without violations of democratic and constitutional standards in introducing COVID-19 emergency measures.

#### **2.4.7. Germany: Intergovernmental Centralism as Crisis Governance in a Multi-level System**

Germany showed relatively better performances in coping with the COVID-19 pandemic compared with many other European countries, such as Sweden, the U.K., and Italy except Denmark and Norway. Despite well-equipped public health capacities and well-prepared public health services, Germany as a big advanced country should address larger population and coordination challenges in a multi-level federal system. Sabine Kuhlmann and Jochen Franzke explains that German pandemic governance has evolved in responding to different challenges through four phases in terms of intergovernmental coordination from reliance on local management, through unitarization and centralization, reemphasis on local discretion and variance toward intergovernmental centralism as a general trend. Despite predominant sub-national and local actors and institutions, the principle of a unitary and cooperative federalism in Germany with intense coordination and collaboration across levels and jurisdictions has overcome danger of disconnected and completely discretionary actions in local states. For example,

the majority of Germany's key decisions in pandemic containment were formulated in "Bund-Länder Summits" that consist of the Federal Chancellor and the 16 Länder Prime Ministers.

#### **2.4.8. Sweden: Balancing Approach based on Voluntarism and Individual Freedom**

Sweden's policies and approaches to the pandemic have been markedly different from those of most other Western European countries, hence the outcomes, significantly higher rates of confirmed cases and deaths, particularly of the elder people. Instead of relying on coercive policies, Swedish government, parliament and public health authorities did not impose a full lock-down that restricts the freedom of movement or assembly and issued voluntary recommendations for social distancing and hygiene practices. Schools, restaurants and shops remained open through the spring 2020. Carl Dahlström and Johannes Lindvall suggest several factors with which they explain Swedish response to the pandemic. First, voluntaristic approach that emphasize citizens' preventive actions was the ideal one that public health experts and bureaucrats in responsible public agencies believed as appropriate one in combating the pandemic. The Swedish authorities emphasized that managing the COVID-19 pandemic would be a marathon (a long-term undertaking) rather than a sprint that should be acceptable to the people over a long period of time. Those public technocrats could operate relatively independently from politics and political leadership, which is a long tradition of Swedish administration protected by the constitution. They also valued balancing act between expected effect of restrictive measures on the spread of virus and the broader social and economic costs associated with lockdowns. Also, provisions of the Swedish constitution made it difficult for the government and parliament to enact laws that suspend individual rights in general.

#### **2.4.9. The United States: Partisanship and Scientific Uncertainty**

The United States as the world's largest economy became an anomaly in the world with the highest number of confirmed cases of and deaths from COVID-19 during 2020. Louise Comfort argues that the initial failure in crisis governance related to the pandemic can be ascribed to unfortunate interplay among science, uncertainty and partisanship. Considering that the U.S. has the federal system of administrative government can make it more difficult to reach consensus in a large, complex society with a large population characterized by diverse demographic and ethnographic groups, partisan politics in a presidential election year significantly hampered capacities of the federal, states and local governments and their coordination. Facing scientific uncertainty of the novel virus, partisan rhetoric of political leaders fragmented public perceptions of health risk and affected scattered and disparate policies across states and local cities, which helped to escalate transmission of the virus through the nation. Racial discrimination as a backdrop of the U.S. social context escalated social disintegration with massive demonstrations and income inequality caused people of color to be the most vulnerable to the virus and suffer disproportionately serious consequences from infection.



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## References

- An, Brian Y., and Shui-Yan Tang (2020). Lessons From COVID-19 Responses in East Asia: Institutional Infrastructure and Enduring Policy Instruments. *American Review of Public Administration*, Vol. 50 (6-7) 790-800.
- Capano, Giliberto, Michael Howlett , Darryl S.L. Jarvis , M. Ramesh & Nihit Goyal (2020) Mobilizing Policy (In)Capacity to Fight COVID-19: Understanding Variations in State Responses, Policy and Society, 39:3, 285-308, DOI: 10.1080/14494035.2020.1787628
- Han et al., (2020). Lessons learnt from easing COVID-19 restrictions: an analysis of countries and regions in Asia Pacific and Europe. *Health Policy*, [https://doi.org/10.1016/S0140-6736\(20\)32007-9](https://doi.org/10.1016/S0140-6736(20)32007-9)
- Lee, Sabinne, Changho Hwang & M. Jae Moon (2020) Policy learning and crisis policy-making: quadruple-loop learning and COVID-19 responses in South Korea, *Policy and Society*, 39:3, 363-381, DOI: 10.1080/14494035.2020.1785195
- Moon, M. Jae (2020). Fighting COVID-19 with Agility, Transparency, and Participation: Wicked Policy Problems and New Governance Challenges. *Public Administration Review*. July/August *Public Administration Review*, Vol. 80, Iss. 4, pp. 651–656
- Pearce, Neil, Lawlor, Deborah, A., and Elizabeth B Brickley (2020). Comparisons between countries are essential for the control of COVID-19. *International Journal of Epidemiology*, 1-4.
- Scott L. Greer, Elizabeth J. King , Elize Massard da Fonseca & Andre Peralta- Santos (2020) The comparative politics of COVID-19: The need to understand government responses, *Global Public Health*, 15:9, 1413-1416
- Yan, Bo, Zhang, Xiaomin, Wu, Long, Zhu, Heng, and Bin Chen (2020). Why Do Countries Respond Differently to COVID-19? A Comparative Study of Sweden, China, France, and Japan. *American Review of Public Administration*, 50(6-7), 762-769.



Chapter

02

International Comparative Analysis of COVID-19 Responses

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**The Evolution of COVID-19 and Policy  
Responses of Korea:  
Adaptation and Learning Perspectives**

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*Kilkon Ko, Seoul National University*

## Chapter 2. The Evolution of COVID-19 and Policy Responses of Korea: Adaptation and Learning Perspectives

Kilkon Ko, Seoul National University

### Abstract

This paper reviews the response of South Korea to COVID-19 focusing on adaptation and learning framework. Although South Korea was heavily hit by COVID-19 in February, 2020, the Korean government and citizens showed the remarkably successful control of COVID-19. The success was not because of a heavy lockdown as China adopted in response to Wuhan crisis. Rather, the libertarian approach relying on the citizens' compliance, technologies, and systematic test, tracking and treatment is a key success factor. The accumulated disaster response experiences have enabled the Korean government to realize the importance of shared information, risk cognition, and collaboration needs. The series of revisions of laws and guidelines can be seen as attempts to find a more effective way to communicate and coordinate actors in the disaster response network. The Korea's whole community approach casts light on communication and coordination rather than command and control capacity. Therefore, the most important lesson learned from Korea is that no single factor or actor can explain or underpin disaster responses' success or failure. The whole-community approach should be valued over the myth of the effectiveness of the strong command and control of the government-driven approach.

**Key words:** COVID-19, adaptation, Korea, Learning

### 1. Introduction

When the news about COVID-19 was first known to countries outside of China in January 2020, few expected it to become a global pandemic. When China suffered heavily from COVID-19 in January and February, most countries did not expect that they would also be pulled into this medical horror. The limited medical information released by China triggered debates on whether the virus spread from touching surfaces, coming into contact with liquid particles of an infected person, or aerosol, before the release of the preliminary China-WHO report on February 26. The WHO was also late in its declaration of announcing COVID-19, a global pandemic. The uncertainty and lack of information led to WHO's late declaration on March 11, 2020, in which the coronavirus had already proliferated

globally. After the official announcement of the pandemic, many countries began to adopt high levels of social distancing policies (Ko, 2021). They implemented standard guidelines for personal hygiene, such as wearing a mask at all times and washing one's hands frequently.

Unlike other natural disasters such as earthquakes, floods, hurricanes, or even epidemics, i.e., SARS and MERS, COVID-19 has run rampant for more than a year at the global level. To the best of our knowledge, few disasters have affected the world to this extent persisting longer than a year. Because of the long-lasting nature of COVID-19, the preliminary research done at the early phase of COVID-19 has to be revised/updated according to the change of situations. In Korea, for instance, the concerns and backlash regarding the economic and social impacts of social distancing policies led to its successive revision(the Republic of Korea, 2020).

Moreover, policy responses at one phase would not be the same as those of other phases. The adaptation efforts are sometimes overwhelmed by environmental pressure, and natural selection is more critical than the adaptation of an organization, as population ecology theory suggests (Hannan & Freeman, 1977). Many countries adopt similar tests, tracking methods, treatments, and social distancing policies, but these efforts produce very different results. The differences cannot be simply explained by the quality of adaptation effort of a country.

Adaptation and learning of an organization require administrative capacity, which is considered a crucial factor explaining successful policy implementation and government quality (Addison, 2009). Administrative capacity is a multi-layered concept involving many components, including human resources, institutions, organizations, and physical resources (Ko et al., 2021). Many believed that developed countries equipped with qualified medical staff, facilities, and public healthcare systems would have better administrative capacity than developing countries in the early days of the pandemic. However, the developed countries demonstrated inadequate quality responses to COVID-19 (Abbey et al., 2020). The gap between the presumed capacity and actual performance has been more extensive than we anticipated. This observed phenomenon makes us rethink the commonsensical argument that the disaster response's success and failure are administrative capacity functions.

This paper adopts an evolutionary perspective assuming that policy responses result from adaptation to new situations. This perspective embraced that the strategies, focus, and policies adopted at the one stage of disaster would not apply to other phases. The agile adaptation to the new situation requires flexibility which is an atypical capacity found in bureaucracy. The power of natural selection becomes apparent when the organization fails to adapt to a new environment. We will show the dynamic changes of the infection and fatality trend, available knowledge, information, and technologies in South Korea to understand the changing environment.

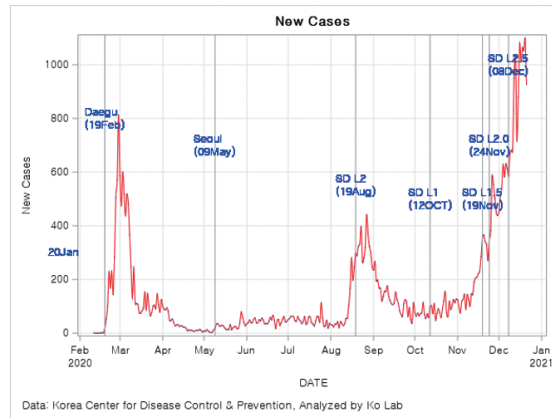
Moreover, as ‘how’ people understand the situation is critical, we have analyzed the public’s attention to COVID-19 over time. Finally, although the dynamic situation requires more adaptive responses, the bureaucratic inertia and the resistance to learning frequently cause the success trap (March, 1991). The learning approach sometimes retrospectively justifies the previous success. Hence, we need to critically review the response policies and evaluate our successes as well our mistakes. In particular, the Korean case has some unique aspects in that it applies many innovative methods in testing, tracking, and treating COVID-19 without imposing lockdown policies, which many countries and international organizations have highly valued. This chapter tries to show both positive and negative aspects of the Korean approach, which will help design future disaster response systems of other countries.

## 2. The Trend of COVID-19 and Structural Differences Among Different Phases

After the first patient was officially confirmed on January 20, 2020, the number of new cases rapidly fluctuated over the next few days. Figure 2-1 shows the trend of daily new cases in Korea, and three different phases can be identified easily. The first phase is the first wave caused by the outbreak in Daegu, where the religious cult group called *Shincheonji* suffered from massive infections. The Daegu outbreak invoked the highest alert because Korea controlled COVID-19 very effectively since the first case was reported. The number of infection cases was less than 10 per day, but it drastically rose to around 600. Such rapid infection rates in mid-February alarmed the Korean people on the seriousness of COVID-19.

There was little information on the exact transmission mechanism, medical treatment methods, and proper policy tools. Despite such limited information, the Korean government and citizens were well aware that the epidemic’s potential damage was far more extensive than MERS in 2015. Thousands of Daegu citizens voluntarily stayed at home, and many doctors and nurses volunteered to take care of the skyrocketing number of patients. In terms of results, as shown in Figure 2-1, Phase 1 outbreak was successfully controlled within a month. The new-case distribution’s kurtosis was very high, which meant that the Korean government could control the spread of infection within a short time (around three weeks).

**Figure 2-1. Trend of New Infection Cases in Korea**



The number of new cases significantly dropped by the end of April. Phase 2 was the stagnant period lasting until early August. There were sporadic community infection cases in this period, but there was no major outbreak. Interestingly, despite the small infection cases, many regulative and authoritarian policies were adopted by local and central governments during this period. For instance, the Seoul Metropolitan government ordered all bars and nightclubs to close on May 9 after it turned out that 40 cases were linked to them. Unfortunately, there was no justification from the Seoul Metropolitan government as to why it ordered business closing despite huge costs borne by citizens. They could not provide scientific evidence that the small number of infections were serious enough to prohibit ordinary businesses' running. As businesses were run during the worst part of Phase I, businesses' banning during Phase 2 became all the more questioned. Instead, mayors could produce the image that they hold the decisive and charismatic leadership which many Koreans prefer.

Phase 3 started in early August in the Seoul metropolitan area. The phase 3 outbreak was alleged because of religious gatherings in churches and political demonstrations organized by the conservative opposition party. The allegation was not scientifically supported. In fact, the increasing cases were related to various community infections in health clubs, call centers, etc. During this period, the Korean government escalated social distancing levels from one to two. However, as shown in Figure 2-1, the largest number of cases in this period was smaller than in the first phase.

Finally, phase 4 started in early November 1. Compared to the previous phases, community infections occurred in many regions and places. The social distancing level was successively upgraded, but the number of new cases rapidly increased. In phase 4, the peak of new cases was higher than that of phase 1, and the crisis of infection lasted longer than in other phases. The days whose number of new infection cases were larger than 500 per day lasted longer than XX days. As such, phase 4 was when the infections and death cases rapidly increased, and there were shortages of hospital facilities

and medical staff. In mid-December 2020, there was concern that the spread of COVID-19 was out of control. While the government raised the social distancing policy to level 2.5, this did not result in better control of the infection numbers. From December to the end of February, the daily infection cases remained over 200 despite the government banned gatherings of five or more people and strongly recommended not to visit family during lunar new year holidays, one of Korea's most significant events. However, the number of daily infection cases in Phase 4 was far smaller than that of Japan, Spain, or the U.K., whose population and economic condition are similar to Korea. The Korean government was prudent to lift the social distancing policy at the costs of citizens' mobility restriction and business opportunities.

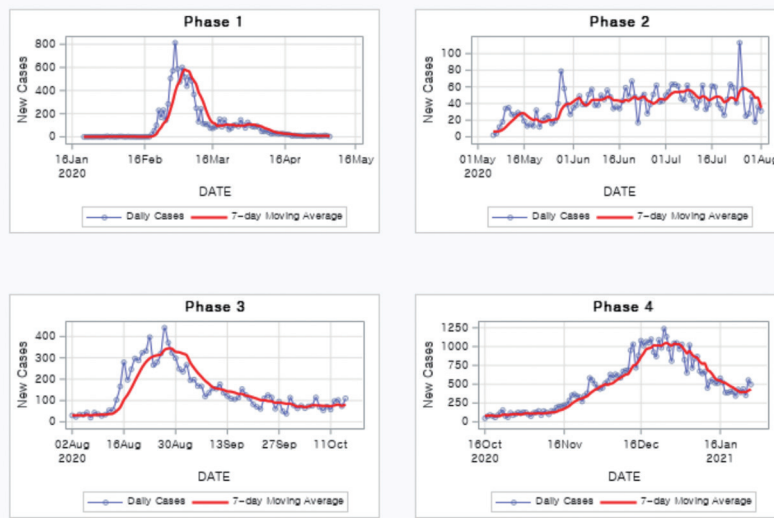
Caution is necessary when we interpret the COVID-19 trend of Korea. First, we should not overlook the fact that the number of infection cases can be relatively interpreted. For instance, if you live in Spain whose population (46 million) is slightly smaller than that of Korea (50 million), you will interpret 200 new cases as a signal of successful control of COVID-19. In contrast, according to the 3-level social distancing policy guideline, 2-week average daily 100 patients is a threshold point raising the social distancing policy from level 2 to level 3 which is the highest level.

Because of the negative impact of social distancing policy on the economy and social activities, the Korean government changed the threshold number from 100 to 800 and the three-level social distancing scheme to the five-level scheme on November 1, 2020. According to the scheme, 800 new infection cases are a criterion to issue the social distancing level 3. However, the Korean government was cautious raising the social distancing policy to level 3. In phase 4, the week-average new infection cases began to above 800 on December 16, 2020, but the government did not raise the social distancing policy to level 3. Instead, the government announced the administrative order to ban gatherings in some types of entertainment facilities.

Likewise, the number of cases in different phases can be interpreted differently. Figure 2-2 shows the trend of new cases in different phases. Phase 1 and phase 3 show the unimodal trend, phase 2 shows high volatility within the low infection level, and phase 4 shows the rapidly increasing pattern. One hundred new patients in phase 2 were considered more severe than the same number in phase 4. Such relativity was found in people's perception also. Some provinces had only two-digit new cases but regarded them as a serious situation. For instance, Gangneung city had around 30 infection cases a week and announced the city-wide comprehensive test on December 14, 2020. This case suggests that there is no authentic guideline for deciding the seriousness of the infection level.

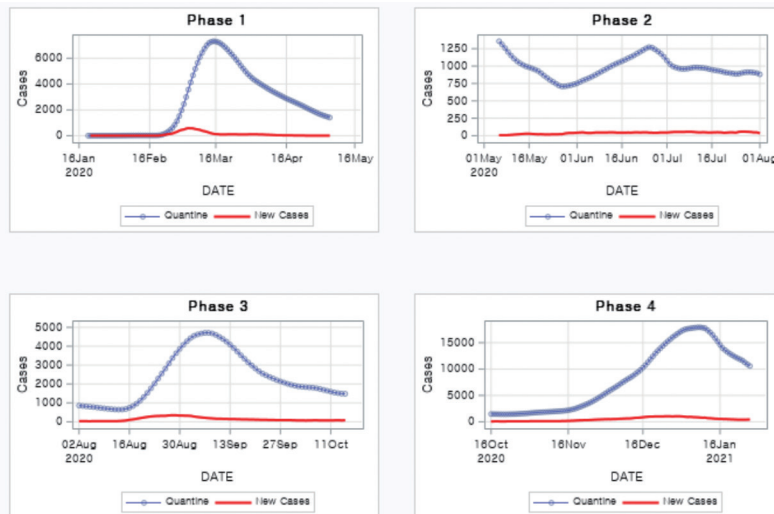


**Figure 2-2. The Trend of New Cases in Different Phases**



As shown in Figure 2-3, the number of quarantined patients surged and remained high in phase 3 and phase 4. Compared to the number of new cases, the number of quarantined patients was far larger and remained higher for longer. This situation brought a heavy medical burden to hospitals.

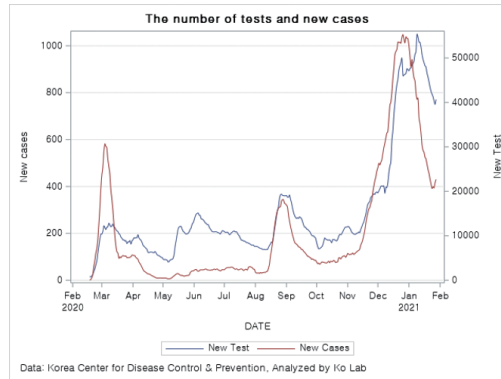
**Figure 2-3. The Number of Quarantine and New Cases**



The Korean government tried to prevent community infection through comprehensive tests. As shown in Figure 2-4, the Korean government performed around 10,000 tests per day, which was very large

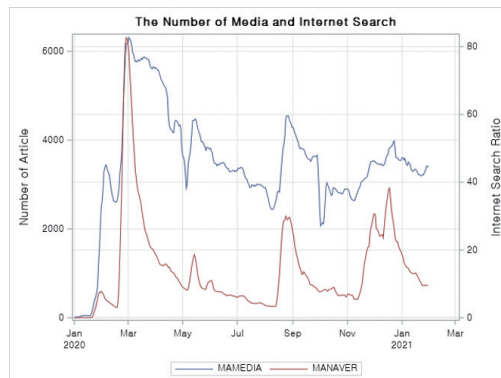
given that there were limited test kits in the world. In the case of Phase 4, the Korean government increased tests almost up to 60,000 per day. Unlike the argument that the number of tests affected the number of confirmed cases, the number of confirmed cases was followed by the number of tests. Even though the number of tests increased, the daily new cases' decreasing trend did not change in Phase 4.

**Figure 2-4. The Number of Tests and New Cases**



The public's risk cognition to COVID-19 changed over time. As shown in Figure 2-5, people accessed NAVER, the most popular search engine in Korea, and searched 'COVID-19' or 'Wuhan Virus'. NAVER's search trend proved to be very similar to the trend of new infection cases of COVID-19. We can identify three different peaks during late February, late August, and late December. Notably, the global search engine, Google, showed somewhat different patterns than NAVER, but three peaks observed in the NAVER trend can also be found in Google. Overall, we can learn that the public's attention to COVID-19 continually changes according to the unfolding of COVID-19.

**Figure 2-5. Trend of Internet Search(Naver) and Media Article of COVID-19**



As can be seen, the trend, seriousness, perception of COVID-19 was different in each phase. Accordingly, the government had to introduce different policy responses according to the public's shifting attention. For instance, the long-lasting social distancing policy irritated the people and made them feel lost in their mobility and gathering freedom. Simultaneously, the people have become accustomed to the risk of COVID-19, which makes them obedient to the government's regulations. Hence, lessons and experiences learned from phase one became reflected in the following phases' responses. In this regard, intracrisis learning should be carefully examined.

### **3. Policy Responses and Administrative Capacity**

#### **3.1. Preparedness Through Learning from Experiences**

The capacity of disaster response has proven to be deeply related to the degree of preparedness which includes measures such as legal system clarifying the chain of command and mobilization of the public resources, development of manuals of multiagency coordination and standard operation procedure, proper maintenance and training of response organizations, and securing the supplies and equipment used for responses. These preparedness measures have developed through intentional efforts for a long time. Although many scholars claim that the MERS crisis in 2015 of the Republic of Korea was a primary factor in Korea's successful response (Ko, 2020), the learning process has been more complicated than expected.

Severe Acute Respiratory Syndrome(SARS) in 2003 started in China and then spread to Hong Kong, Singapore, Vietnam, and North America, and it horrified many countries due to the high contagion and fatality. Interestingly, the Korean government even brought in military medical staff for quarantine activities at the airports and other entry points on March 16, 2003, right after knowing that China had a suspicious pneumonia case. Such intensive quarantine activities were not usual to citizens that many of them complained that the government overreacted. However, there were zero infection and fatal cases in Korea, which enabled the Koreans to realize the importance of quick response to epidemics.

The Korean government established an agency taking care of epidemics under the unified authority from the SARS response experience. During the SARS crisis, the point-of-entry screening and the quarantine function were not well coordinated as different agencies managed two functions. The information sharing among agencies did not work due to the barrier of bureaucratic red tapes and the organizational silo effect. Responding to the criticism, the Korean government enhanced its institutional capacity by establishing the Korea Center for Disease Control and Prevention (KCDC) to integrate research, border screening, and quarantine disease and epidemics in 2004.

Along with the creation of a new organization, the Korean government changed the legal structure as well. During MERS in 2015, the Korean government did not disclose the hospital name that a patient stayed and did not share the information with other organizations. The hospitals did not promptly share patients' information with the government, and there was no system for the voluntary reports of suspicious patients. Moreover, the tracking system of a patient and his/her contactors were not well-established. Consequently, one super-spreader infected almost 90 people. Of course, there was the justification for not disclosing the hospital's name. As Korea has a stringent privacy protection law and private information is sharable under strict conditions, disclosing the infected patients' hospital names was considered to protect patients' privacy and hospitals. To resolve the problem, the Korean government revised the Infectious Disease Control and Prevention Act (IDCPA), allowing the government to introduce the standard operating procedures for tracking the patients. Following the revision of the IDCPA, the Korean government can legally track confirmed patients' contacts and places they visited during the COVID-19 crisis in 2020 without the serious debate over privacy issues.

SARS and MERS experiences still did not resolve the issue of communication and collaboration. In the MERS crisis, hospitals, medical experts, and local governments played a significant role in detecting and treating patients, but their authorities and channels to participate in policymaking were ambiguous. They were not sure who the command center was. The Presidential office, the Prime Minister's office, the Minister of Public Health and Welfare, and the commissioner of the KCDC chaired the different disaster response committees at different levels. In such a situation, the KCDC could not exert leadership as it was afraid of political responsibility. In response to the concern, the Korean revised the IDCAP again in 2018 to resolve the command center's confusion. The 2018 revision of the IDCAP made clear that the KCDC is a command center during the disaster response.

The response manuals have been developed and revised during the crisis of COVID-19. Based on SARS and MERS' experience, the Korean government prepared the COVID-19 response manual and revised it more than 14 times from January 2000 to December 2020. The early version manual was concise (24 pages) and mainly referred the MERS response manual. However, the latest manual (version 9.4 in December 2020) is 230-page long and offers more accurate information and specific guidelines. The manual clarified each actors' response direction and reduced the coordination costs from the uncertainty of responsibilities and standard operating procedures.

The learning from MERS and response experiences during the early stage of COVID-19 has helped South Korea establish the infection control system consisting of entry prevention, confirmed cases, early patient detection, treatments, and resource sharing. These activities are organized and coordinated under the leadership of the KCDC, and innovative ideas flow into the KCDC.

**Table 2-1. Infection Control System of Korea**

<p style="text-align: center;"><b>Entry Prevention</b></p> <ul style="list-style-type: none"> <li>• Entry ban on travelers from Hubei</li> <li>• Special entry procedures</li> <li>• Provision of travel history to healthcare providers</li> </ul>	<p style="text-align: center;"><b>Response to Confirmed Cases</b></p> <ul style="list-style-type: none"> <li>• Epidemiological investigations</li> <li>• Disclosure of each patient's whereabouts</li> <li>• Self-isolation of all contacts</li> <li>• On-site quarantines</li> </ul>	<p style="text-align: center;"><b>Early Patient Detection</b></p> <ul style="list-style-type: none"> <li>• Expansion of diagnostic testing</li> <li>• Expansion of screening clinics</li> <li>• Specimen collection via drive-thru and mobile facilities and door-to-door visits</li> <li>• Diagnostic testing for patients with pneumonia, etc.</li> </ul>
<p style="text-align: center;"><b>Treatment of COVID-19 Patients</b></p> <ul style="list-style-type: none"> <li>• Patient classification and bed allocation by severity</li> <li>• Supply management of empirical therapies</li> <li>• Clinical testing and R&amp;D of therapies</li> </ul>	<p style="text-align: center;"><b>Treatment of Non-COVID Patients</b></p> <ul style="list-style-type: none"> <li>• Operation of government-designated COVID-19 protection hospitals</li> <li>• Permission for receiving prescriptions by phone and by proxy</li> </ul>	<p style="text-align: center;"><b>Resource-Securing and Support</b></p> <ul style="list-style-type: none"> <li>• “Living and treatment support centers” and patient beds</li> <li>• Healthcare staff</li> <li>• protective gear and supplies</li> </ul>
↑	↑	↑
<ul style="list-style-type: none"> <li>• Seamless cooperation among the Central Disease Control Headquarters, Central Disaster and Safety Countermeasure Headquarters, and Local Disaster and Safety Countermeasure H.Q.s.</li> <li>• Disclosure of information promptly and transparently and provision of counseling for the Hot-line(1339) and public health centers</li> <li>• Reinforcement of government measures such as the adherence to the code of conduct</li> <li>• Compensation for infection prevention efforts by those put under isolation, their employers, and healthcare institutions</li> </ul>		

Source: Source: The Republic of Korea (March 31, 2020), “Tackling COVID-19: Health, Quarantine and Economic Measures of South Korea”, [http://kostat.go.kr/file\\_total/COVID19\\_5\\_1.pdf](http://kostat.go.kr/file_total/COVID19_5_1.pdf)

The quarantine policy is based on the utilization of information communication technologies. Korea did not close its border but adopted intensive tests and quarantine policy for international travelers. In the airport, travelers have to take a COVID-19 test, and they are sent to special quarantine facilities if the test result is positive. The short-term travelers whose test result is negative are also asked to be quarantined in the special quarantine facilities. All international travelers are requested to install the COVID-19 monitoring App on their cell phones and report their health condition over 14 weeks. The Korean government pays the test and testament costs. Also, the Korean government delivers the necessities and foods the quarantined. According to the Ministry of the Interior and Safety, among the 324,600 quarantined people, the reported violation cases of quarantine policy are only 0.16% of them between February 19 and June 10, 2020.<sup>1</sup> Such high compliance is very impressive given that Korea

<sup>1</sup> Yeonhap News, June 14, 2020, <https://www.yna.co.kr/view/AKR20200612042800530>, accessed on March 6, 2021.

employed a far libertarian approach compared to China or other European countries that adopted a lockdown policy.

The infection control system requires the whole community approach that is “a means by which residents, emergency management practitioners, organizational and community leaders, and government officials can collectively understand and assess the needs of their respective communities and determine the best ways to organize and strengthen their assets, capacities, and interests” (FEMA 2011, p.3). For instance, many innovative ideas came from experts in the field. Facing the exponential increase of infected patients, the city of Daegu could not secure enough treatment facilities. Although the government tried to use vacant beds of private and public hospitals, the idea has a problem of infection risk and inefficient deployment of medical staff. Hence, medical experts proposed the idea of the residential treatment center which significantly reduced the demand for the hospital’s medical service. Universities, private companies, and public enterprises provide their residential facilities to take mild-symptom patients. Local governments can avoid the serious collapse of the medical service system due to excessive demand because of the residential treatment centers.

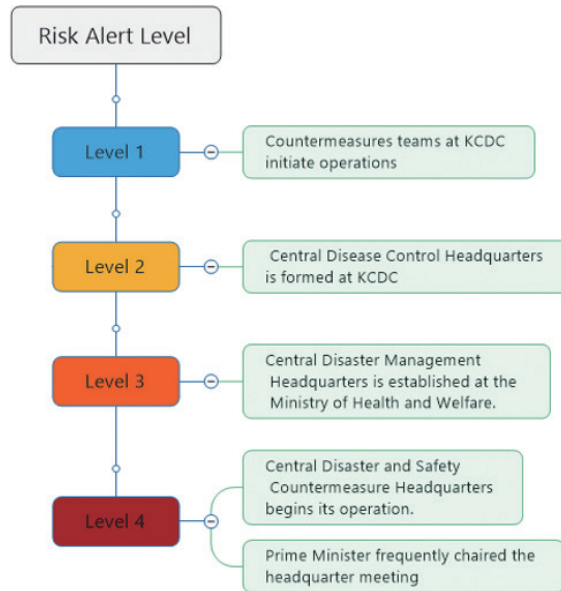
Similarly, many citizens have to visit hospitals to take an infection test, increasing hospitals’ burden. A group of doctors and local governments proposed and adopted the idea of a drive-through test. These ideas moved up to the central government and were adopted as a standard procedure.

### **3.2. Risk Communication and Institutional Governance**

Risk communication and institutional governance are also critical to the efficient response to the disaster (Comfort 2019, Moynihan 2009) as the disaster response network consists of many actors, relations, and continuous interactions in which different resources and information are produced, exchanged, and used. When a doctor detects a suspicious patient, she/he has to report the case to the local government, KCDC, Ministry of Health and Welfare, and medical associations. The report is done using a telephone, fax, email, and networked system. The reported information needs to be collected, organized and utilized through a well-structured database management system. The reported cases are also used to track contactors and to design social distancing policies. If the central government does not share information with the local government, hospitals, and other network actors, collaboration and the whole community response become impossible.

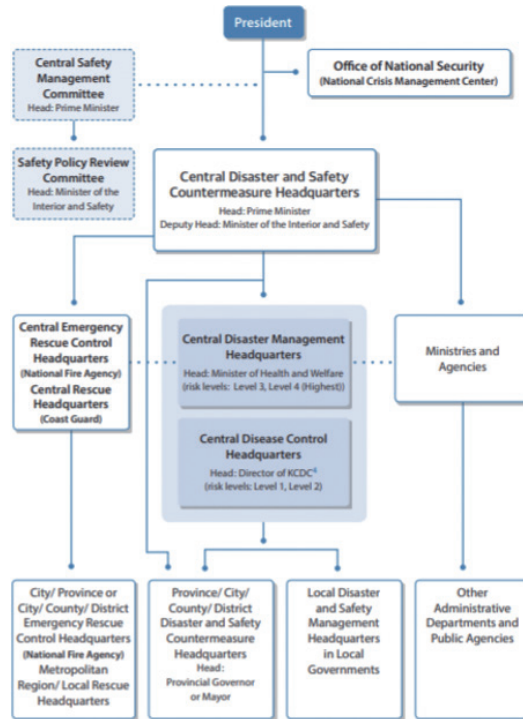
Such a complex nature of response networks requires appropriate risk communication which is a challenging task. The primary formal channel for risk communication is the government’s official response governance defined by the IDCPA. According to the law, Korea’s National Infectious Disease Risk Alert System has four levels, and the response governance changes according to the risk alert level issued and adjusted by the Minister of Health and Welfare.

**Figure 2-6. Korea's National Infectious Disease Risk Alert Level and Response Organizations**



At Level 4, the Central Disaster and Safety Countermeasure Headquarter becomes the command center. The meeting chaired by the Prime Minister comprises all relevant ministries of the central government and heads of local governments. Between late February and late April, meetings were held every day of the week with few exceptions (ROK 2020:30). The Prime Minister could receive a direct report from the local government heads and relevant ministries regarding the situation. As the Prime Minister gave the director an order to resolve problems found at the local governments and coordinate ministries of the central government, the agile policy responses from the identification of problems and policy decision to implementation are possible. Moreover, the meeting can open many communication channels among the leaders of governments, ministries, and agencies. Many local government heads argue that the Prime Minister's meetings helped resolve the shortage of equipment and contact tracing experts.

Figure 2-7. The Governance Structure at Risk Alert Level 4



One notable change observed in COVID-19 crisis is the call for empowerment of local governments. After SARS and MERS, the Korean government repeatedly emphasized the importance of a command center expected to play a preemptive and decisive command and control role. However, such emphasis on command and control fails to reflect the different infection levels of local governments. For instance, the Jeonbuk province had a small number of infection cases, but they nevertheless followed the school closing policy ordered by the central government at the early phase of COVID-19. As it caused unnecessary regulations, local governments began introducing their response policies in the later phases. The central government also allows more discretions to local governments for their response policy design and implementation. Despite the realization of the flexible intergovernmental relationship, the autonomy of the local government is still limited. One symbolic example is the city of Daegu's social distancing policy on January 17, 2021. As Daegu had relatively small infection cases than the Seoul metropolitan area, it tried to allow the meeting more than five in restaurants and extended their business hours to 11 PM. However, the central government blamed the city, arguing that the local government did not consult the central government. Within a day, the Daegu government had to revoke its policy. This case suggests that the central government still wants to control the local government and follow the unified rules.



### 3.3. Social Distancing Policies

Because of the absence of vaccines and treatment drugs for COVID-19, social distancing policies became more critical than before. Right after China began to admit the spread of COVID-19, Korea began to debate the option of banning travelers from China. The KCDC was aware of the potential risk of COVID-19; it installed thermal scanners to airports to detect suspicious patients from China on January 3, 2020. However, when the first confirmed patient, a Chinese from Wuhan, became officially announced on January 20, many Koreans called for closing the borders to Chinese travelers. Initially, this seemed to be the best solution, but the Korean government did not close the border but instead reinforced the entry-point quarantine.

Moreover, the Korean government did not adopt the lockdown policy even when there were severe infection cases found in the city of Daegu in late February. Even when more than 1,000 new cases were reported during the third wave (December 2020 ~ January 2020), the Korean government did not impose a lockdown of cities or ban citizens' travel. Public transportations such as buses, taxis, and subways were operated under the official quarantine measures.

The Korean government did not have specific guidelines of social distancing policies before June 28, 2020. In the beginning, the government did not use the term, 'social distancing policy'. Instead, the government issued response policies such as school closing, enforcement of working from home, and prevention of social gatherings. For the systematic organization of response policies, the Korean government issued the social distancing policies in which suspended the operation of religious facilities, some types of indoor sports facilities (dancing halls, health clubs, martial arts training centers), and entertainment facilities (entertainment bars, clubs, karaoke rooms) on March 22, 2020. Initially, the social distancing policies were planned for two weeks, but they were extended for an additional two weeks on April 7. The justification of the extension was that there were still around 100 new infection cases, which was minor compared to other countries. In May 2020, the Seoul Metropolitan government strongly prohibited entertainment facilities because of the community infection found in the nightclubs of Itaewon. However, the number of infection cases per day was less than 50. While such social distancing policies perhaps reduced infection numbers and reduced political responsibility, this came at a hefty price for the businessmen.

The predictability of the policies was very low because the government did not provide any scientific evidence about the cost-effectiveness of the social distancing policies.

A more systematic social distancing policy guideline was introduced on June 28, 2020. As shown in Table 2-2, the social distancing policy was designed into three levels according to the number of infection cases. Level 3 was designed to be issued when the two-week average daily confirmed cases

went above 100. The criteria, however, were critiqued to have been proposed without any scientific explanation and considered too restrictive. The effectiveness of the school closing policy has never been scientifically tested. Instead, the government asked citizens to reduce mobility and physical contact.

**Table 2-2. 3-Level Social Distancing Policy (from June 28)**

	Level 1	Level 2	Level 3 (Lockdown)
Daily community infection for 2 weeks	Less than 50 people	50 to less than 100 people	100~200 people or more
Key message	Comply with quarantine rules and permit daily economic activities	Avoid unnecessary outings and use of multi-purpose facilities	All activities other than essential economic activities are prohibited
Gathering	Allowed(recommended to comply with quarantine rules)	50 people indoors, no more than 100 people outdoors	No more than 10 people
Sports event	Limit the number of spectators	No spectators	Stop all sports events
Public facilities	Allowed (with interventions if necessary)	Shutdown	Shutdown
School	School attendance and remote classes	Reduction of school attendance and remote classes	Remote classes or closure of the school
Workplace	Flextime and work from home	More flextime and work from home.	Except for essential personnel, all public employees are to work from home.

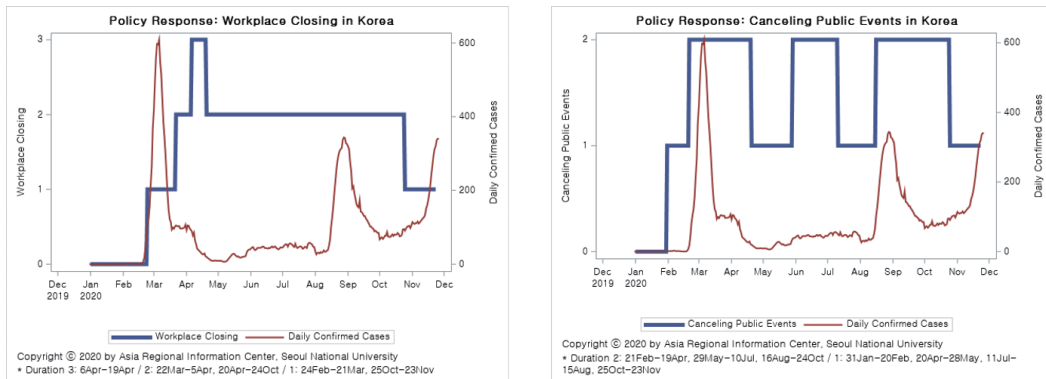
Data : The Ministry of Health and Welfare(MOHW)

The three-tier social distancing policy was revised on November 7 as the number of infection cases rapidly increased. In the revision, the level 1 and 2 were divided into four levels (1, 1.5, 2, and 2.5) and level 3 was made to be issued when the new cases were more than 800. Furthermore, the new guideline considered the hospital capacities, the relative increase of new cases, and regional differences. On December 16, the level 3 condition was firstly satisfied as the one-week average new cases were over 800. However, the Korean government did not issue level 3. The decision was because of the serious negative impact of lockdown on the economy. The Korean government experiences and outcomes reveal that the decision to raise the social distancing policy level is not an easy task and can vary according to regional, political, and economic situations.

The social distancing policy is not necessarily strongly correlated with the trend of new confirmed cases. As shown in Figure 2-8, the level of social distancing policy such as workplace closing and

canceling public events have changed over time. The changes in the level do not necessarily reflect the severity of infection cases. For instance, the daily new cases were relatively small during April and June, but the Korean government maintained a high social distancing policy. Also, the level of public event regulation changes more frequently compared to workplace closing.

**Figure 2-8. Workplace Closing and Canceling Public Events Intensity**



Despite the merits of incremental and flexible social distancing policy changes, the decision-making on when is the right time and right level of social distancing policy is very challenging. For instance, although the government allowed restaurants to open their business, the health clubs were asked to close under the level 2.5 of social distancing policy. The government failed to explain why the health clubs had more risks compared to restaurants.

### 3.4. The Role of Citizens

The success or failure of disaster response does not originate from a single actor if we assume that the disaster response network is a complex system (Perrow, 1984). The disaster management cycle consisting of preparedness, response, recovery, and mitigation involves multiple actors and different types of interactions at different stages of the cycle. Because of such a nature of coupled and dynamic systems, civil society’s role becomes more critical.

One of the salient roles of civil society during COVID-19 has been raising the issue of privacy and the protection of minority groups. In February 2020, the Korean government started to use a short message service(SMS) and the internet to share information. During the MERS crisis, the government did not share the details of patients and hospital information, which aggravated fake news. To solve this problem, the Korean government established the Office of Risk Communication to provide the guideline about how to share information promptly. While the office of risk communication tried to

minimize the privacy violation, the government publicized the infected's age, gender, and workplace name. The government did not give any justification as to why such information was necessary for effective response to COVID-19 at the expense of the privacy of citizens. Facing the growing risk of the privacy problem, civil rights movement groups protested against the government. As a result, the National Human Rights Commission of Korea admitted the problem and revised the information disclosure guideline not to open age, gender, detailed address, and the workplace name of the infected on March 14 2020.

More than 660 thousands volunteers by June 23, 2020 participated in a variety of response activities such as making face masks, quarantine activities, and helping the needy(The Prime Minister's Office Press Release on July 10, 2020). Because of the social distancing policy, the volunteers provided the online education service. The volunteer's activities were strategically organized through the volunteer organizations' network in which nonprofit organizations worked closely with the Ministry of Interior and Safety. The other important group was the associations of the medical doctors and nurses. According to the Korean Nurses Association, around 4,000 nurses (almost 2% of Korea's practicing nurses) volunteered in Daegu in March 2020.<sup>2</sup> Medical doctors shared information about the situation of COVID-19 and through social network services. Their idea exchange resulted in the adoption of a drive-through test and residential treatment center.

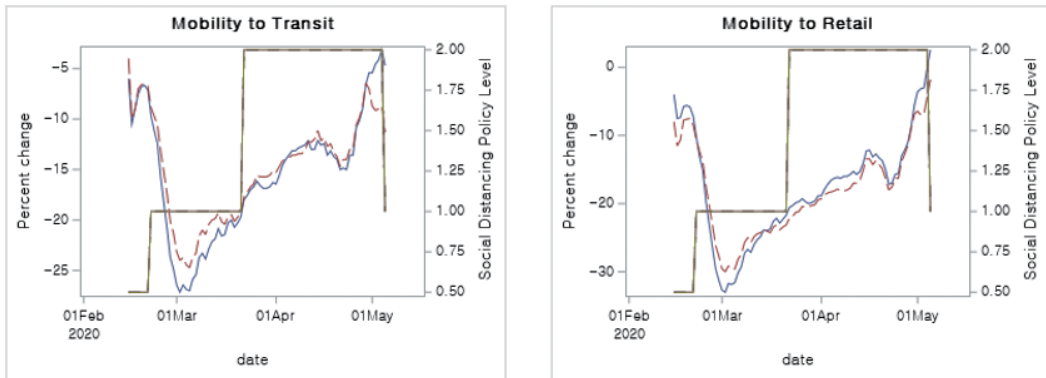
Civil society capacity also came from individual citizens. Even if there were major crises in February, August, and December, 2020, there was no panic-buy in Korea. The shortage of face masks was serious in early March, 2020, but people followed the government's distribution rule. The primary reason that the citizens were able to stay calm during the crisis was that they could access transparent information. For instance, the interregional express traffic dropped to 60.2% in the first week of April 2020 compared to that of the third week of January (KOTI, 2020). However, the highway traffic only decreased -3.3% in the same period. This implies that citizens avoided public transportation to avoid contact with others and decided to use their cars to travel between regions. Within the city, people used their cars, bicycles, and other forms of mobility. Such behavioral changes suggest that citizens could find better solutions for resolving the inconveniences in their daily life caused by COVID-19. Such choice was not enforced by the government but resulted from creative problem-solving efforts by the citizens.

Figure 2-9 shows the mobility change of the Seoul metropolitan region and nation. Also, the step function shows the social distance policy level. There were the largest infection cases on March 1 in Korea, and the mobility to transit and retail showed the lowest level. At the time, the government's

<sup>2</sup> <https://www.medifonews.com/news/article.html?no=152712>

social distance policy remained at level 1. This suggests that the reduction of mobility is not because of the regulation of the government. Instead, citizens voluntarily reduced their mobility regardless of the government’s enforcement.

**Figure 2-9. Mobility Change and Social Distancing Policy**



Note: The dashed line is for the Seoul metropolitan and solid line is for the national level trend.

## 4. Conclusions

COVID-19 is an unprecedented infectious disease, but the response capacity can be prepared, promoted, and deeply implanted within the administrative system. Reflecting on Korea’s experiences can help us realize the importance of a whole community approach to emergency management. On the one hand, one might interpret Korea’s experience as evidence of the government’s strong leadership as China showed through its authoritarian approach. This interpretation assumes that the government behaves like a director of the response system, and citizens should obey the government’s orders for so-called ‘public value’. Individuals were asked to restrain their freedom, privacy, and other rights for controlling for COVID-19. However, we should not overlook that the authoritarian government’s opaque policy made the coronavirus crisis worse. For instance, because of the Chinese government’s information control, Wuhan citizens endured heavy casualties whose size remains unknown. Simultaneously, while many countries adopted strong social distancing policies, only a few of them could control COVID-19 successfully. There is no evidence that the government can process information better than experts, private companies, and citizens. Although the government possesses greater authority than other groups in society, this does not make them the best resolution for effective disaster response.

Too much emphasis on the strong leadership of government can indeed result in the retreat of democracy. The success of the COVID-19 response should not be used for glorifying a strong government or leader.

On the other hand, Korea's experience can be used as an example of a whole community approach in which the government, citizens, private companies, and experts work together. The accumulated disaster response experiences have enabled the Korean government to realize the importance of shared information, risk cognition, and collaboration needs. The series of revisions of laws and guidelines can be seen as attempts to find a more effective way to communicate and coordinate actors in the disaster response network. Citizens have voluntarily worn (and continue to wear) facial masks, reduce their travels, and develop Apps and technologies for sharing information. Such efforts have advanced the government's policies. The government can alleviate the shortage of medical facilities, establish residential treatment centers, and use buildings and facilities of universities, private companies, and public enterprises. Thousands of volunteers also joined for quarantine activities. Most importantly, millions of taxpayers implicitly endorsed the government to use their money to exchange the future burden of taxes. Although the populist politicians have argued that the COVID-19 relief funds are possible because of their generosity, the expenditures would not have been possible without taxpayers' contribution.

The whole community approach casts light on communication and coordination rather than command and control capacity. For instance, the local government leaders could not directly access the Prime Ministers or other key decision-makers in the central government. However, the Central Disaster and Safety Countermeasure Headquarter, presided by the Prime Minister, allowed many local governments to share innovative ideas as well as their difficulties with the central government. The bureaucratic red tapes can be detoured using the direct order of the prime minister.

The rapid development of test kits, the enforcement of facial masks, drive-through tests, advanced reporting and tracking systems, residential treatment centers, and the risk communication led by doctors and experts have been recognized as success factors. These factors would not have been positive if the government was incompetent. Even if the president or political leaders has a strong will to control the pandemic, the disaster response system would fail if there is a poor administrative system and incompetent bureaucrats. A successful strategy such as a social distancing policy at the early phase is less effective in later phases. Therefore, the most important lesson learned from Korea is that no single factor or actor can explain or underpin disaster responses' success or failure. The whole-community approach should be valued over the myth of the effectiveness of the strong command and control of the government-driven approach.

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## References

- Abbey EJ, Khalifa BAA, Oduwole MO, Ayeh SK, Nudotor RD, Salia EL, et al. (2020) The Global Health Security Index is not predictive of coronavirus pandemic responses among Organization for Economic Cooperation and Development countries. *PLoS ONE* 15(10): e0239398. <https://doi.org/10.1371/journal.pone.0239398>.
- Comfort, L. K. (2019). *The dynamics of risk: Changing technologies and collective action in seismic events*. Princeton University Press.
- Comfort, L., Kapucu, N., Ko, K., Menoni, S., & Siciliano, M. Crisis decision making on a global scale: Transition from cognition to collective action under threat of COVID-19. 2020. *Public Administration Review*, 80(4), 616-622.
- FEMA (2011), *A Whole Community Approach to Emergency Management: Principles, Themes, and Pathways for Action*, U.S. Department of Homeland Security.
- Hur, J.-Y., & Kim, K. 2020. Crisis learning and flattening the curve: South Korea's rapid and massive diagnosis of the COVID-19 infection. *American Review of Public Administration*, 50(6-7): 606-613.
- Kim, P. S. 2020. South Korea's fast response to coronavirus disease: Implications on public policy and public management theory. *Public Management Review*, 10.1080/14719037.2020.1766266.
- Ko, Kilkon. 2021. COVID-19 AND INTERNATIONAL COOPERATION: LOOKING FOR LESSONS FROM ASIAN COUNTRIES, UN ESCAP Policy Brief, 2021, January 6, 2021.
- Ko, Kilkon, Hyun Hee Park, Dongcheol Shim, & Kyungdong Kim, 2021, "The change of administrative capacity in Korea: contemporary trends and lessons", *International Review of Administrative Sciences*.
- KOTI (2020), COVID-19 and its impact on Transportation and Logistics, <https://www.koti.re.kr/main/covid19/>, accessed on February 23, 2021.
- Lee, M., & You, M. (2020). Psychological and behavioral responses in South Korea during the early stages of coronavirus disease 2019 (COVID-19). *International Journal of Environmental Research and Public Health*, 17(9): 2977.

Moynihan, D. P. (2009). The Network Governance of Crisis Response: Case Studies of Incident Command Systems. *Journal of Public Administration Research and Theory*, 19(4), 895–915.

Moon, M. J. 2020. Fighting against COVID-19 with agility, transparency, and participation: Wicked policy problems and new governance challenges. *Public Administration Review*, 80(4): 651-656.

Perrow, Charles (1984). *Normal Accidents: Living With High Risk Technologies*. (Revised edition, 1999). Princeton, NJ: Princeton University Press.

ROK (2020), All about Korea's Response to COVID-19, The Republic of Korea.



Chapter

# 03

International Comparative Analysis of COVID-19 Responses

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## **Japan's Response to the COVID-19 Pandemic: A Cautious and Self-restraint-based Approach**

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## Chapter 3. Japan's Response to the COVID-19 Pandemic: A Cautious and Self-restraint-based Approach<sup>1</sup>

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### Abstract

This chapter explores how Japan responded to and mitigated the spread of COVID-19. Despite several unfavorable conditions controlling the pandemic, Japan seems to have managed the pandemic more effectively than several other industrialized democratic countries in terms of its numbers of coronavirus infection cases and fatalities. However, Japan does not seem to have been as successful in containing the disease as other Asia Pacific countries. Japan's pandemic measures appear relatively loose, based on citizens' self-restraint behaviors and without a clear legal basis, when compared to other industrialized democracies and several Asia-Pacific countries. We argue that Japan's approach is characterized as a cautious and self-restraint-based approach that relies on citizens' self-restraint behavior and personal hygiene practices rather than on enforcing strict, legally-binding measures and proactively testing and tracing potentially infected individuals. Unlike many other industrialized democratic countries, Japan never implemented a strict lockdown, a process which requires enforced mobility and activity restrictions and mandatory quarantines with financial penalties for violations. Instead, Japan implemented "mild lockdowns" using non-binding request-based approaches to reduce mobility and certain types of public activities and relying on citizens' self-restraint behaviors to control the pandemic.

In this chapter, we show several performance indicators of governments' responses to the pandemic and examine Japan's response to the pandemic from a broader comparative perspective. Then, we explain three institutional factors which may have been associated with the distinctive characteristics of Japan's pandemic approach. These factors include 1) institutional constraints on the prime minister's leadership, 2) limited administrative capacity and pandemic unpreparedness, and 3) bureaucratic professionalism and closedness. The institutional and political settings in Japan with respect to the COVID-19 response are characterized by stronger restrictions upon the administration and prime minister's leadership. Finally, we outline the Japan's Covid-19 containment policy by looking at several phases of Japan's response from January 2020 to early 2021.

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<sup>1</sup> We wrote this manuscript partly based on the Japan section of Moon et al. (2021), with significant additions.

# 1. Introduction

This chapter explores how Japan responded to and mitigated the spread of COVID-19. The COVID-19 pandemic has posed unprecedented challenges to policy makers all over the world. The coronavirus pandemic can be understood as a wicked problem for policy makers (Ansell, Sørensen, and Torfing 2020, Steen and Brandsen 2020, van den Oord et al. 2020), characterized by “unclear problem definitions, complex causalities, conflicting goals and lack of standard solutions” (Ansell, Sørensen, and Torfing 2020, 2). As Moon (2020) argues, the Covid-19 outbreak has tested governments’ abilities to solve wicked policy problems; in particular, governments have faced new challenges in preparing for, mitigating, and responding to the threats posed by contagious disease. It is noteworthy to observe the significant variations in how governments have responded to and handled these unprecedented policy challenges. Some countries seem to have managed the COVID-19 crisis more effectively and swiftly than others in terms of several infection-related indicators (Van der Wal 2020). Although it is premature to draw any conclusions at this point, some countries—especially those in the Asia Pacific region, including South Korea, Taiwan, New Zealand, Australia, and possibly Singapore—seem to have controlled coronavirus more effectively than other countries (An and Tang 2020, Bromfield and McConnell 2020, Dunlop, Ongaro, and Baker 2020, Huang 2020, Jamieson 2020, Moon 2020, Van der Wal 2020).<sup>2</sup>

Despite the media attention that Japan received from around the world at the beginning of the pandemic due to the mishandling of the outbreak on the Diamond Princess cruise ship (Sturmer and Asada 2020, McCurry 2020), very little scholarly attentions has been paid to the unique features of Japan’s pandemic response or the specific challenges posed by the coronavirus in the Japanese context (Shimizu and Negita 2020). Given the volume of published studies on other Asia Pacific countries in the fields of public administration and political science, the paucity of research on Japan’s pandemic approach is especially glaring.<sup>3</sup> Despite several unfavorable conditions for controlling the COVID-19 pandemic—which include Japan’s proximity to Wuhan, population density, and comparatively small number of ICU and PCR test laboratories for an industrialized nation (Inoue 2020)—Japan seems to

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2 For example, the European Union Council’s set epidemiologically safe countries outside the Schengen Area amid the COVID-19 pandemic. The EU Council advises the member states to lift travel restrictions at the country borders for residents of the countries in the list. The safe countries list includes Australia, New Zealand, Rwanda, Singapore, South Korea, Thailand, and China (if China lifts entry restrictions for European travelers) as of January 28, 2021. Canada and Japan along with other several countries were originally in the safe countries list in June 2020, but were excluded later (SchengenVisaInfo.com 2021).

3 See, for example, Hur and Kim (2020), Kim (2020), Lee, Hwang, and Moon (2020), Moon (2020), Park and Maher (2020) for South Korea, Huang (2020), Liao, Kuo, and Chuang (2020), Lin, Wu, and Wu (2020), Yen (2020) for Taiwan, Cai, Jiang, and Tang (2021), Hu et al. (2020), Santos (2021) for China, Jamieson (2020) for New Zealand, and Bromfield and McConnell (2020), Wallace and Dollery (2021) for Australia. See, for example, Fraser and Aldrich (2021) and Moon et al. (2021) as examples of already published works examining Japan by public administration and political science scholars. See Inoue (2020), Shimizu and Negita (2020), Shimizu et al. (2020), Shimizu, Tokuda, and Shibuya (2021) for summaries of Japan’s approach by health policy scientists.

have been relatively successful in responding to and mitigating the spread of COVID-19 compared to other industrialized democratic countries (Shimizu, Tokuda, and Shibuya 2021). Japan has recorded much lower numbers of confirmed cases and associated death numbers than other countries in Europe and North America. However, Japan's response, which we characterize as a "cautious and self-restraint-based approach" (Moon et al. 2021), seems different from the relatively proactive, agile, and collaborative governmental responses by the abovementioned countries (An and Tang 2020, Bromfield and McConnell 2020, Dunlop, Ongaro, and Baker 2020, Huang 2020, Jamieson 2020, Moon 2020, Van der Wal 2020).

We argue that the Japanese government's policy is characterized by a cautious and restraint-based approach that relies on citizens' self-restraint behavior and personal hygiene practices rather than on enforcing strict, legally-binding measures and proactively testing and tracing potentially infected individuals (Moon et al. 2021). Unlike many Western countries (including the U.S., Australia, and New Zealand), Japan never implemented strict lockdown measures or imposed financial penalties on violators. Instead, the Japanese government took a "mild lockdown" approach that was non-punitive (Sugaya et al. 2020). Starting with the declaration of a state of emergency in April 2020, the Japanese government has largely relied on citizens' voluntary self-restraint behavior (*jishuku* in Japanese), requesting that citizens refrain from going out or attending mass gatherings (Muto et al. 2020) and that retail, dining, and entertainment industries shorten business hours or cancel large events. Unlike Hong Kong, Taiwan, and Singapore, Japan did not conduct extensive and proactive contact tracing (An and Tang 2020). Furthermore, unlike South Korea, Japan has not employed a proactive and aggressive testing policy (Moon et al. 2021). Instead, Japan has "focused on controlling clusters of more than five COVID-19 cases and preventing environmental transmission in the 3 Cs: closed spaces, crowded spaces, and close contact settings" (Shimizu et al. 2020, 1).

Most Japanese citizens seem dissatisfied with how the Japanese government has handled the pandemic (Gallup International Association 2020b, Jiji Tsushin 2020, Nihon Keizai Shimbun 2020a). But in spite of relatively loose corona measures, reliance on citizens' self-restraint, and low citizen satisfaction, Japan still seems to have managed the pandemic effectively compared with other industrialized democratic countries. In fact, Japan's success in managing the coronavirus appears inexplicable in Western media; Japan was initially considered the "most likely case" for disastrous results due to its high population density, lack of virus testing, soft approach without financial penalties, and the widespread media perception that Japan mishandled the Diamond Princess cruise ship situation in February 2020 (Sturmer and Asada 2020, McCurry 2020).

The purpose of this chapter is not to analyze how Japan's pandemic approach has led to a small number of infections and fatalities. Our purpose, rather, is to delineate the distinctive features of

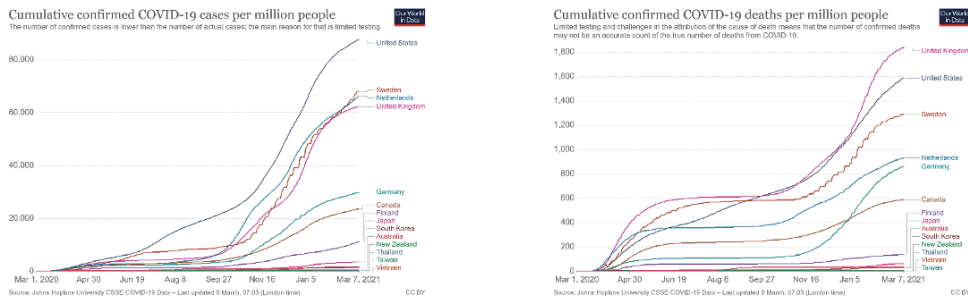
Japan's reaction to the COVID-19 pandemic and the associated institutional contexts for Japan's response. The first section looks at several objective performance indicators of governments' responses to the pandemic and examines to what extent Japan has controlled the coronavirus in comparison to other countries. The second section explains the institutional contexts for Japan's pandemic approach. The third section considers how Japan handled the COVID-19 pandemic and the characteristics of Japan's approach, followed by a concluding section.

## 2. Assessment of Japan's National Response to the COVID-19 Pandemic

Researchers should be careful when comparing the effectiveness of different government's COVID-19 measures due to several potential measurement issues in cross-national research: large variations in definitions of confirmed COVID-19 cases and related deaths; different testing policies and types of tests used; and other potential biases that may render cross-national comparisons less reliable. However, as far as we can see from the data used in existing comparative studies, Japan seems to have controlled the COVID-19 pandemic relatively well compared to other industrialized democratic countries in Europe and North America, but not as well as many other countries in the Asia Pacific region.

Figure 3-1 shows a graph of cumulative confirmed COVID-19 cases/million people and COVID-19 related deaths/million people in the nine countries examined in this book. We also add United Kingdom, the Netherlands, and Canada as examples of OECD member countries in Europe and North America and add Taiwan and Australia as Asia Pacific region countries. As seen from the left graph of figure 3-1, Japan records a much lower number of infected cases per million people (3,473.82) than other developed countries including the United States (87,609.07), Sweden (67,822.82), the Netherlands (66,254.24), the United Kingdom (62,327.52), Germany (29,941.95), Canada (23,639.32), and Finland (11,201.26). However, Japan's number is not as low as those of other Asia Pacific countries such as South Korea (1,810.39), Australia (1,139.06), New Zealand (498.73), Thailand (378.81), Taiwan (40.69), and Vietnam (25.81) (as of March 7, 2021). Cumulative confirmed Covid-19 deaths/million people in Japan are 65.27, which is much lower than the UK (1,837.43), U.S (1,586.18), Sweden (1,287.52), the Netherlands (931.55), Germany (859.16), and Finland (138.43). However, Japan has not been able to mitigate COVID-related deaths as successfully as Australia (35.65), South Korea (32.03), New Zealand (5.39), Thailand (1.22), Taiwan (0.42), and Vietnam (0.36) (See right graph in figure 3-1). These figures suggest that Japan has not been able to control COVID-19 infections and related deaths as effectively as some countries in the Asia-Pacific region. However, Japan still controlled the coronavirus better than several developed countries in Europe and North America.

Figure 3-1. Cumulative Confirmed COVID-19 Cases and Deaths Per Million People



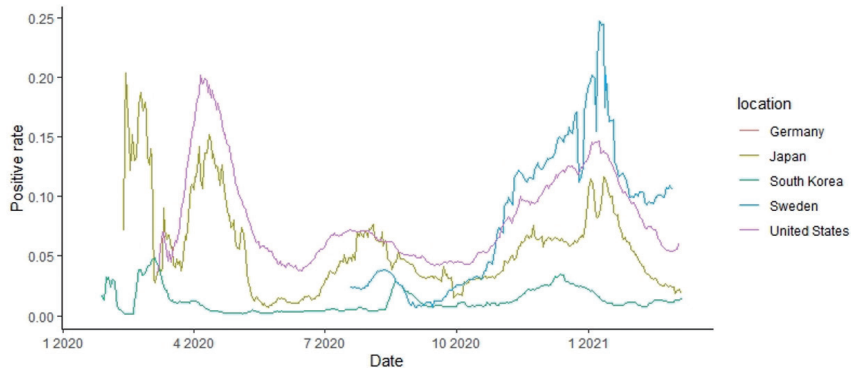
Source: CSSE at Johns Hopkins University (2021a, 2021b)

One of the distinctive features of Japan’s pandemic approach is to not actively conduct widespread COVID-19 testing for asymptomatic people; this approach is opposed to the widespread testing of asymptomatic people in countries such as South Korea, the U.S., and China. This approach results from Japan’s limited administrative and testing capacity (Moon et al. 2021, Shimizu et al. 2020). In Japan, 61.15 people are tested per 1,000 people as of Feb 28, 2021 while this number is 128.27 in South Korea, 395.33 in the Netherlands, and 7.34 in Taiwan (CSSE at Johns Hopkins University 2021c).<sup>4</sup> In fact, it has been reported that doctors’ and citizens’ requests for Polymerase chain reaction (PCR) tests are often rejected by public health centers due to the lack of testing capacity in Japan (Shimizu et al. 2020). In early 2020, only people who with a fever of 37.5C or higher for four days or longer were eligible for PCR testing in order to allow elderly people and those with severe symptoms such as difficulty breathing to receive a consultation based on the guidance of the Ministry of Health, Labor and Welfare (Nikkei Asia 2020, The Japan Times 2020). The Japanese government downplayed the need for PCR testing, and the government’s scientific advisors rejected the need for extensive testing without scientific evidence (Shimizu, Tokuda, and Shibuya 2021). These strict testing guidelines were somewhat relaxed later on. However, the availability of PCR tests in Japan has remained lower than in many other countries.

As Figure 3-2 shows, the ratio of confirmed cases in Japan ranges roughly between 0.03 and 0.10 though the figure was initially higher, sometimes going beyond 0.10. This means that there are about 3 to 10 confirmed cases found per one hundred tests for COVID-19. Japan’s fatality rate in 2020 was 0.023, which is a little higher than that of the U.S.(0.048); however, this rate is still much lower than that of many other Western European countries, such as France (0.18), Belgium (0.159), Italy (0.144), UK (0.139), the Netherlands (0.12), and Spain (0.095), among others (Worldometers, 2020).

4 Test numbers in UK, US, Canada, Finland, Australia, Germany, New Zealand, Thailand, Vietnam show only number of tests performed per 1000 people, not number of people tested.

**Figure 3-2. Positive Confirmed Case Rates**



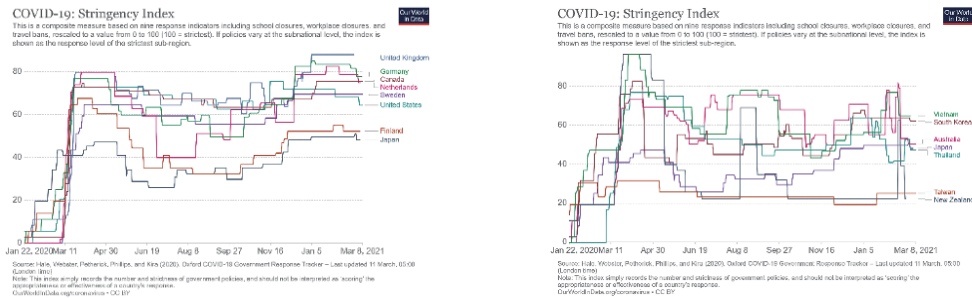
Note: Hasell, J., Mathieu, E., Beltekian, D. et al. A cross-country database of COVID-19 testing. *Sci Data* 7, 345 (2020)

When we look at the cumulative number of the share of positive cases in the number of total tests as of February 14, 2021, Japan's number seems to be high (5.9%) when compared to Germany (5.9%), the UK (5.1%), Canada (3.6%), Finland (1.6%), South Korea (1.4%), Thailand (1.0%), Taiwan (0.6%), Australia (0.2%), and New Zealand (0.1%). The Netherlands's share is 16.3%, and the U.S.'s share is 8.6% (OurWorldInData.org. 2021). However, due to differences in the performances and types of COVID-19 tests across countries and even within countries, it is not possible to draw any definitive conclusions at this time. Furthermore, one of the features of Japan's pandemic approach is to not actively conduct widespread COVID-19 testing for asymptomatic people. This testing policy may partly explain Japan's relatively high rate of positive tests.

Japan never imposed a strict lockdown, a process which requires enforced mobility and activity restrictions and mandatory quarantines with financial penalties for violations (as seen in countries such as New Zealand, Australia, the UK, the Netherlands, and Germany). Instead, Japan implemented "mild lockdowns" using non-binding request-based approaches to reduce mobility and certain types of public activities and relying on citizens' self-restraint behaviors to control the pandemic (Moon et al. 2021, Parady, Taniguchi, and Takami 2020, Sugaya et al. 2020). The Government Stringency Index (GSI) created by Hale et al. (2020), which is a composite index measure to score the strictness of government policies, illustrates the relative looseness of Japan's measures. The index is a composite measure of nine indicators: school closures; workplace closures; cancellation of public events; restrictions on public gatherings; closures of public transport; stay-at-home requirements; public information campaigns; restrictions on internal movements; and international travel controls (OurWorldInData.org 2021b). The index ranges from 0 to 100. Higher values show stricter responses. For instance, lower values indicate no measures or mere recommendations to proceed with the above measures while higher values indicate stricter measures such as compulsory closures or restrictions. The left graph in

figure 3-3 shows the trend of GSI since January 2020 and compares Japan with some European and North American countries while the right graph compares Japan with Asia Pacific region countries. Most countries tightened COVID-19 measures in March 2020. Japan's score is much lower than the scores of European and North American countries, demonstrating Japan's relatively relaxed measures to prevent infections. Finland seems to have followed the same path as Japan in terms of the strictness of corona measures after August 2020; however, the Finnish government took stricter measures than Japan before July 2020. The right graph in figure 3-2 suggests that Japan's measure have been less strict than those of other Asia-Pacific region countries (including Vietnam, South Korea, Australia, and Thailand) in most periods of the pandemic so far. Taiwan also seems to impose less strict COVID-19 measures. New Zealand has employed both stricter and more relaxed measures depending on conditions.

**Figure 3-3. Trend of Government Stringency Index**



Source: Hale et al. (2020). Data collected from OurWorldInData.org (2021b).

As for the economic impacts of COVID-19, Japan records a slight increase in its unemployment rate of 0.43 percentage points from 2.35% in 2019 to 2.78% in 2020. South Korea records only 0.16 percentage point increase from 3.78 % to 3.94%. However, Japan's increase in the unemployment rate is much lower than in the U.S. (4.42), Canada (3.83), Sweden (1.53), and it is lower than the OECD member countries' average (1.72) (OECD 2021). Japan, however, seems to have experienced a larger decline in GDP/capita when looking at the percentage decline of GDP relative from GDP in the second quarter of 2020 to the same quarter in 2019 with adjustment for inflation. Japan records a 10% decrease in GDP/capita compared to the UK (-21.7%), Canada (-13.5%), Germany (-11.7%), OECD (-10.9%), US (-9.5%), the Netherlands (-9%), Sweden (-8.3%), Finland (-5.2%), South Korea (-3%), and Taiwan (-0.6%) (OurWorldInData.org 2021a).



Despite these surprisingly low rates of infection and fatality, responses to the Japanese government's initiatives have been mixed. According to the Gallup International polling conducted at the end of March 2020, only 23% of respondents were satisfied with the Japanese government's responses to the pandemic, placing Japan second from the bottom of seventeen countries. Citizens in other countries reported significantly higher rates of satisfaction with the government: Austria (88%), India (83%), Malaysia (77%), the Netherlands (79%), South Korea (74%), UK (49%), Germany (47%), and the U.S. (42%). Only Thailand scored lower than Japan (20%) (Gallup International Association 2020b).<sup>5</sup> In the third wave of the Gallup International Survey conducted in the beginning of June 2020, Japanese citizens' satisfaction with the government approach increased from 23% to 34%. However, this result was still much lower than in other countries such as Malaysia (94%), South Korea (85%), Austria (75%), India (76%), and the Philippines (59%), and it was even lower than in the U.S. (40%) and UK (38%) (Gallup International Association 2020a). Public opinion polls conducted by Japanese media also show low rates of citizen satisfaction with the Japanese government's handling of the virus (38% in *Nihon Keizai Shimbun* (2020a) and 37.4% in *Jiji Tsushin* (2020)).<sup>6</sup> Citizen confidence in the national government in general has been low in Japan compared to in other democratic countries (OECD 2019).<sup>7</sup> Therefore, it is not clear to what extent such a high rate of dissatisfaction accurately reflects Japanese citizens' assessment of government initiatives and strategies for the pandemic. However, Japan's relative success in virus containment does not seem to match citizens' evaluations of the government.

In sum, Japan seems to have managed the pandemic more effectively than several European and North American countries in terms of its numbers of coronavirus infection cases and fatalities. However, Japan does not seem to have been as successful in containing the disease as other Asia Pacific countries. Japan's pandemic measures appear relatively loose, based on citizens' self-restraint behaviors and without a clear legal basis, when compared to other industrialized democracies and several Asia-Pacific countries.

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5 Participants were asked to select responses from “strongly agree” to “strongly disagree” as well as “do not know” for the question, “How strongly do you agree or disagree with the following statements?—I think the Government is handling the Coronavirus well.” Respondents who selected “strongly agree” or “agree” were considered satisfied citizens.

6 Those respondents who selected “rate it highly (hyouka suru)” were considered satisfied.

7 Confidence in national government in Japan was 38% in 2018 (24% in 2007) while in South Korea it was 39% (24%), Switzerland 85% (63%), India 75% (82%), Netherlands 66% (66%), USA 31% (39%), and UK 42% (36%), where the percentage is representative of the number of respondents who selected “yes” to the question, “Do you have confidence in national government?” (OECD 2019).

### 3. Institutional contexts of Japan's Pandemic Approach

Social science scholars have often pointed out that institutional settings and arrangements influence the choice of policy tools and strategies for problem-solving; furthermore, these contexts determine the “logic of appropriateness,” or the social norms and expectations that influence social and individual responses to a crisis (March and Olsen 2013, Pierre 2020, Kuhlmann et al. 2021). This section identifies the institutional contextual factors that may have influenced the way the Japanese government managed the COVID-19 pandemic. These factors include 1) institutional constraints on the prime minister's leadership, 2) limited administrative capacity and pandemic unpreparedness, and 3) bureaucratic professionalism and closedness.

#### 3.1. Institutional Constraints on the Prime Minister's Leadership

The first institutional factor we examine is institutional constraints on the prime minister's leadership. Japan is an advanced democratic country, similar to many other countries studied in this book. Japan has a parliamentary system, not a presidential system. Scholars of Japanese politics have often pointed out the weak leadership of Japanese prime ministers and the institutional constraints on the prime minister's leadership (Krauss and Pekkanen 2015, Takenaka 2019). These institutional constraints on the prime minister's leadership include the strong veto power of the parliamentary Upper House; the powerful influence of the ruling party on the selection of prime minister; short leadership selection cycles; and the fragmented and decentralized vote gathering, party leadership, and policy-making processes of the ruling party (Liberal Democratic Party of Japan) (Estévez-Abe and Kim 2014, Krauss and Pekkanen 2015). Since Japanese prime ministers are not reelected directly by citizens but instead by the ruling political party, this leadership selection process creates “a strong incentive to appeal to the majority of the fellow Diet members from the same party” (Estévez-Abe and Kim 2014, 672). The weak leadership of the prime minister was especially remarkable from 1955-93, a period marked by the formation of the perennially-ruling LDP until it finally lost power to a coalition of smaller, reform-oriented opposition parties (Krauss and Pekkanen 2015). A series of institutional reforms beginning in 1994 (including electoral and administrative reforms) expanded the prime minister's power (Takenaka 2019). However, compared to leaders in other countries that seem to have successfully managed the pandemic such as New Zealand, South Korea, and Taiwan, Japanese prime ministers (Abe and Suga) seem to lack strong leadership.<sup>8</sup>

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8 Prime Minister Abe, followed by Prime Minister Suga, announced his resignation on August 28, 2020.

The institutional and political settings in Japan with respect to the COVID-19 response are characterized by stronger restrictions upon the administration and prime minister's leadership. First, Japan does not have an independent government agency that controls responses to infectious diseases; the ad hoc Novel Coronavirus Response Headquarters (NCRH) is the highest authority for COVID-19 responses. Japan has only the National Institute of Infectious Disease (NIID), which is responsible for research and administrative support. Without having experienced the MERS virus, the Japanese government was not well prepared for COVID-19. The prime minister headed the central COVID-19 response headquarters (i.e., Novel Coronavirus Response Headquarters), under which two major ministers played critical roles as vice heads. Second, the Japanese legal tradition does not allow for the exercise of emergency powers by the government. The ruling LDP's proposals to expand the government's emergency powers faced strong opposition by bar associations, law professors, and news organizations despite the Abe administration's electoral popularity (Repeta 2020). Third, economic policy has been central to the LDP, especially under Abenomics. During the 2011-2016 period, donations grew for five straight years, with nearly 90% going to the LDP. This steep rise in LDP donations reflects annual calls since 2014 by the Japan Business Federation, also known as Keidanren, for member companies to make contributions (Nikkei 2017). The centrality of economic policy and these connections with the business community were an underling political circumstances surrounding the Abe administration.

The Abe administration was further concerned about the potential impact of COVID-19 on the Tokyo 2020 Olympics, which was eventually postponed to the following year based on negotiations between the Japanese government and the International Olympic Committee (IOC) concluded on March 25, 2020. Until the postponement decision was made, the Abe administration had appealed strongly for hosting the Summer Olympic Games as scheduled. In his statement to the parliament on February 6, 2020, Prime Minister Abe made clear that his administration would not cancel or delay the Tokyo 2020 Olympics despite international concerns about COVID-19 (Reynolds and Hirokawa, 2020). The political environment surrounding the Tokyo 2020 Olympic Games appeared to influence the somewhat passive initial responses of the Abe administration to COVID-19. In fact, the number of confirmed cases began to rise sharply after the postponement decision was made (Moon et al. 2021).

### **3.2. Limited Administrative Capacity and Pandemic Unpreparedness**

Existing studies frequently emphasize the importance of government capacity in preventing the spread of COVID-19 (Dunlop, Ongaro, and Baker 2020, Mazzucato and Kattel 2020, Woo 2020). Government capacity has been considered one of the key factors for a high quality of government and good governance (Fukuyama 2013, Im and Choi 2018, Im and Hartley 2017, D'Arcy and Nistotskaya 2018, 2020) along with the concept of government impartiality (Nistotskaya 2020, Rothstein and

Teorell 2008, Suzuki and Demircioglu 2020). Although definitions of capacity and levels of government organization studied vary (e.g., state, administration, and organization), “capacity” essentially refers to the government’s “ability to perform work” (Yu-Lee 2002, 1 as cited in Christensen and Gazley (2008)). Organizational capacity in the public sector has been defined as the “government’s ability to marshal, develop, direct and control its financial, human, physical and information resources” (Ingraham et al., 2003, p. 15 as cited in Christensen and Gazley (2008)). In the context of governmental responses to COVID-19, scholars focus on several aspects of government capacity (such as the operational, fiscal, and analytical) to prevent the spread of COVID-19 (Woo 2020). Scholars have also examined governments’ competences and capabilities to “galvanize its administration and society into action and execute its decisions effectively” (Capano et al. 2020, 298) and government capacities to communicate and collaborate with key stakeholders and citizens (Dunlop, Ongaro, and Baker 2020, Van der Wal 2020).

Several scholars have pointed out the insufficient operational capacity of Japan’s health care resources in relation to its measures against COVID-19, including the shortage of labor in the Ministry of Health, Labor and Welfare; inadequate laboratory capacity for coronavirus testing; and low ICU capacity (Inoue 2020, Kitamura 2020, Sensho 2020, Shimizu et al. 2020). Furthermore, the excessive work hours of career bureaucrats (including those who are in charge of pandemic control) has been also pointed out (Kitamura 2020, Populi 2021). Furthermore, media has reported on the increasing number of young bureaucrats who leave or wish to quit because of excessive working hours and difficulty in maintaining a work-life balance (Nagata 2020, The Japan Times Editorial Board 2020). In fact, despite the widespread image of a strong Japanese bureaucracy (Aoki 2018, Johnson 1982, Matsunami 2018), scholars have revealed the declining and smaller size of the Japanese bureaucracy compared to other industrialized democratic countries (Kitamura 2020, Maeda 2014, Nakamura and Kikuchi 2011). The OECD (2020) average for employment in the general government as a percentage of total employment was 18.06% in 2015 while Japan’s rate was only 5.94%, the smallest among the 27 countries in the data set and behind Korea (7.61%). Norway records 29.97%, followed by Denmark (29.13%), Sweden (28.59%), and Finland (24.85%). The overall number of personnel in the Japanese central government has significantly declined after several government reforms (Nakamura 2012), from 6.09% in 2007 to 5.94% in 2015.

Furthermore, recent experiences of fighting similar diseases such as SARS (Severe Acute Respiratory Syndrome) and MERS (Middle East Respiratory Syndrome) may have influenced the operational capacities of governments to prevent pandemics (Capano et al. 2020). Unlike South Korea, Hong Kong, Taiwan, Singapore, and China (which all recently experienced SARS or MERS), Japan did not suffer from these viruses, perhaps leading to the Japanese government’s lack of preparedness in the face of the COVID-19 pandemic (An and Tang 2020, Capano et al. 2020, Moon 2020).

### 3.3. Bureaucratic Professionalism and Closedness

Another institutional context which may have influenced Japan's reaction to the pandemic is the structural characteristics of the national bureaucracy. It is well known that the administrative characteristics of bureaucracy vary significantly across countries (Dahlström and Lapuente 2017, Hammerschmid et al. 2016, Kuhlmann and Wollmann 2019, Painter and Peters 2010, Pollitt and Bouckaert 2017, Suzuki and Demircioglu 2019). Types of national bureaucracy may partly explain different government responses to the pandemic. Although there are several dimensions of bureaucracy, we focus on the degree of political influence in bureaucratic decision-making and the degree of openness/closedness in the personnel system, following previous studies (Bekke and Meer 2000, Dahlström, Lapuente, and Teorell 2012a, b, Dahlström and Lapuente 2017, Lapuente and Suzuki 2020, Løegreid and Wise 2007, Suzuki and Hur 2020, 2021).

While government responses to the coronavirus pandemic seem to be highly influenced by political decisions in some countries such as the US and Brazil, this has not been the case in other countries. In fact, the degree of political influence in bureaucratic decision-making differs significantly across countries (see, for example, Dahlström and Lapuente (2017) and Suzuki and Demircioglu (2019)). Results of previous empirical studies suggest that a meritocratically-recruited bureaucracy (as opposed to a bureaucracy that is vulnerable to political intervention in personnel matters) and an impartial bureaucracy are strong predictors of favorable macro-level outcomes such as low levels of corruption, higher economic growth, improved health outcomes, government effectiveness, and innovation (Evans and Rauch 1999, Cingolani, Thomsson, and de Crombrughe 2015, Dahlström and Lapuente 2017, Nistotskaya and Cingolani 2016, Suzuki and Demircioglu 2019, Povitkina and Bolkvadze 2019).

The modern Japanese bureaucracy has been characterized by a large degree of bureaucratic autonomy and a relative independence from politics in terms of personnel matters (Ginsburg 2001, Johnson 1982, Nakamura 2012, Rothacher 1993). However, this high autonomy and independence from politics seem to have been declining recently (Maeda 2018, Nakamura 2012). Overall, though, Japan's national bureaucracy remains at the top of bureaucratic professionalism from a comparative perspective. Figure 3-4 shows countries sorted by degree of bureaucratic professionalism using the QoG Expert survey (Dahlström et al. 2015a).<sup>9</sup> Higher levels of professionalism indicate more politically-neutral public administrations (Suzuki and Demircioglu 2019). Japan's bureaucracy, ranked 6th out of the 119 sample

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9 Professional bureaucracy is an index variable created based on a principal component analysis of the following statements: (1) When recruiting public sector employees, the skills and merits of the applicants decide who gets the job, (2) When recruiting public sector employees, the political connections of the applicants decide who gets the job, (3) The top political leadership hires and fires senior public officials. Cronbach's alpha is 0.88. We reversed the scale of the index to show that higher values mean less political influence in personnel policies. Please see Dahlström et al. (2015b) for details of the QoG Expert Survey.

countries, demonstrates high insulation and autonomy from political interference, at least in terms of the recruitment and promotion of bureaucrats. New Zealand, Ireland, Norway, Hong Kong, Denmark, and Sweden are also at the top of bureaucratic professionalism.<sup>10</sup>

Although there have been problems with relationships between politicians and bureaucrats, including medical experts (such as loose policy coordination between expert meetings and decision-makers and politicians that prioritize the interests of the tourism industry ahead of public health), there seems to have been little excessive political intervention or arbitrary political decision-making that ignored scientific evidence by the Japanese government as seen in Brazil and the U.S.

Some countries which appear to have been relatively successful in containing the infection seem to have taken agile, flexible, and collaborative approaches, as seen in New Zealand, Australia, South Korea, and Taiwan (An and Tang 2020, Bromfield and McConnell 2020, Huang 2020, Jamieson 2020, Moon 2020, Van der Wal 2020). In contrast, Japan's pandemic response seems to be characterized by cautious, somewhat rigid, sluggish responses, with little policy coordination and harmonization (Moon et al. 2021, Shimizu and Negita 2020). We argue that this reaction may be partly due to Japan's rigid bureaucratic structure. Another dimension for classifying bureaucratic structures is to look at the "closed" or "open" nature of the civil service system (Bekke and Meer 2000, Dahlström, Lapuente, and Teorell 2012b, Læg Reid and Wise 2015). "Open" systems are flexible in recruiting and promoting public officials, with a focus on selecting the best candidate for each position (i.e. position-based systems). "Closed" systems, in contrast, feature formalized entries into the public service, seniority systems, and lifetime employment (i.e. career-based systems) (Dahlström, Lapuente, and Teorell 2012b, Læg Reid and Wise 2015). In closed systems, promotions tend to follow rules of seniority rather than reflecting merit or performance (Bekke and Meer 2000, Gualmini 2008). Job mobility between the public and private sectors is limited in closed systems. Closed bureaucracies tend to be highly legalistic and formalistic in internal decision-making processes (Lapuente and Suzuki 2020).

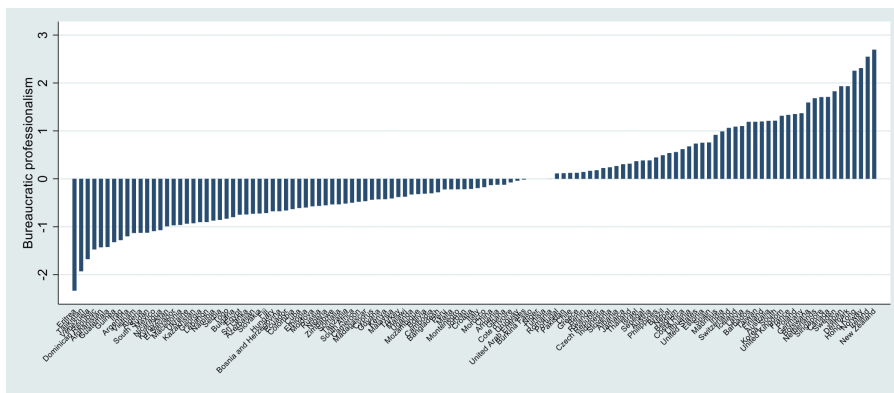
Like France, Japan's civil service is a closed career-based system with limited lateral entry, with an emphasis on internal and seniority-based promotion. Rather than to the civil service as a whole, Japanese civil servants are strongly attached to the ministry that hired them (Maeda 2018). Partly due to such strong "ministerial loyalty," Japanese bureaucrats often demonstrate poor cross-ministerial coordination. This problem of "vertical administration" (*tatewari gyosei*) is regarded as a major source of administrative inefficiency (Mishima 2017). Figure 4 shows countries sorted by degree

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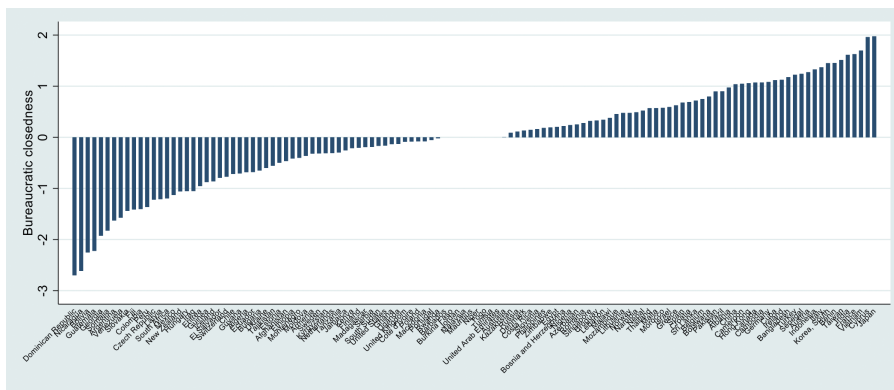
<sup>10</sup> Japan also records high level of meritocracy in the 3rd wave of the QoG Expert Survey that was recently released (Nistotskaya et al. 2021).

of bureaucratic closedness using the QoG Expert survey (Dahlström et al. 2015a).<sup>11</sup> Japan records the highest level of bureaucratic closedness among 113 sample countries. On the other hand, New Zealand, Sweden, and the Netherlands have relatively open structures. Australia appears around the middle.<sup>12</sup> Taiwan and South Korea, which have been depicted as countries with agile and collaborative pandemic responses, also have high closedness structure scores (Moon 2020, Huang 2020). However, the remarkably high closedness of Japan's bureaucratic structure may be one of the institutional factors that shaped Japan's distinctive pandemic response.

**Figure 3-4. Bureaucratic Professionalism**



**Figure 3-5. Bureaucratic Closedness**



11 Closed bureaucracy is also an index variable created based on the following statements: (1) Public sector employees are hired via a formal examination system. (2) Senior public officials are recruited from within the ranks of the public sector. (3) Once one is recruited as a public sector employee, one remains a public sector employee for the rest of one's career. Cronbach's alpha is 0.70, which is relatively low. However, it is still at an acceptable level of reliability.

12 Japan also records a high level of closedness in the 3rd wave of the QoG Expert Survey (Nistotskaya et al. 2021).



## 4. Japan's Covid-19 Containment Policy

The first phase of Japan's response, from the onset to June 2020, was led by the Expert Meeting of Scientists and the Response Headquarters. The Cabinet decided to set up the Novel Coronavirus Response Headquarters (NCRH) led by Prime Minister Abe on January 30, 2020, when Japan had eleven cumulative confirmed cases. The Ministry of Health, Labour and Welfare (MHLW) was the main bureaucratic actor involved in decision-making. On February 16, 2020, the Japanese government established the Novel Coronavirus Response Expert Meeting, which is chaired by the head of the National Institute of Infectious Disease (NIID). The Expert Meeting, consisting of related scientists, provided scientific findings and offered policy advice to the Prime Minister and the Cabinet on matters related to COVID-19. Later, the Novel Coronavirus Response Headquarters was officially established as the related law was passed on March 26, 2020. The NCRH, led by the Prime Minister, is supported by two major ministers, the Chief Cabinet Secretary and the Minister of the MHLW. During this period, the first state of emergency was enacted between April 7 and May 25.

In the second phase starting in July 2020, the COVID response policy was driven by the newly-formed Subcommittee on Novel Coronavirus Disease Control. Along with continued requests for citizens to stay at home, the government launched stimulus packages named "Go To Travel" in late July and "Go To Eat" in September in the midst of the second wave of increased cases of new infections. The third phase of Japan's reaction centers on stopping the Go To Travel campaign (on December 28, 2020) and requests that restaurants and bars shorten business hours under the second state of emergency declared on January 7, 2021.

Japan was relatively passive and cautious in the initial phase in identifying those who were subject to COVID-19 testing and tracing potentially-infected individuals, partially due to its concern about the potential impact of the coronavirus on the 2020 Tokyo Olympics, as well as the nonexistence of an independent administrative agency for disease control and prevention. As noted earlier, there is not much evidence to suggest that the Japanese government's response to infectious diseases is necessarily quicker or more effective than that of other countries. Policy decisions lack clear leadership. Japan's homogeneous and closed career-based bureaucratic system (Aoki, 2018; Dahlström & Lapuente, 2017; Mishima, 2017) appears to be ill-equipped to deal with this unprecedented crisis, and government attempts to control the disease were request-based rather than punitive. On February 3, 2021, the parliamentary Upper House finally passed bills related to COVID-19 which allows the government to impose financial penalties when restaurants fail to comply with orders to shorten business hours, or when coronavirus patients refuse to be hospitalized (Johnston 2021, Nihon Keizai Shimbun 2021).

Like Korea, the Japanese government established an advisory committee led by their prime minister. However, the Japanese government has been less successful than Korea in terms of formulating a



proactive response and communicating the management of COVID-19. Japan's mismanagement of an outbreak on the British-flagged Diamond Princess cruise ship in February 2020 drew criticism from national and international press. The sudden announcement on February 27 that all of the country's schools should close starting March 2 also confused teachers and parents (Rich et al., 2020) since it was presented as a request rather than a mandate. While in the Korean government school-related decisions were made by the Ministry of Education based on consultations with KCDC and expert groups, in Japan the decision to close schools was left to local authorities and schools. Parents were not informed of school closures until the following week on Friday afternoon. Around 60% of households with children under the age of 18 in Japan are dual-income households (Kuga, 2020) and schools were not prepared to shift to digital teaching, resulting in further uncertainty among teachers and families (O'Donoghue, 2020).

This lack of transparency, strong political leadership, or effective communication among stakeholders in the decision-making process drew criticism from the public (NHK 2020). Failure to take the minutes of the Novel Coronavirus Expert Meeting, which advises the government from a medical point of view, led to further criticism (Takahashi 2020). Consequently, many polls show that Prime Minister Abe's approval rate has continued to fall since the outbreak of COVID-19 in January 2020. Other incidents of administrative mismanagement and prosecutor scandals may also have affected Abe's declining rate of support (Sugiyama 2020). However, the high rate of popular dissatisfaction with government measures against COVID-19 should be one of the major reasons for this drop.

The government lifted the state of emergency in all prefectures on May 25, 2020. However, local governments, such as Tokyo's, implemented a gradual reopening of economic activities. All requests (with a few exceptions) for suspending businesses have been lifted as of June 19 although stores and businesses are still asked to implement measures to prevent coronavirus infections and to conduct health checkups of employees (Jiji Press 2020b).

Japan's public health capacities when the coronavirus outbreak started were apparently not ideal in many regards. There were relatively fewer intensive care unit beds in comparison to other OECD countries. According to a report by the Health Policy Bureau, Ministry of Health, Labor and Welfare, there were only 5.6 intensive care unit (ICU) beds per population as of 2017, which is fewer than the United States (34.7), Germany (29.2), Italy (12.5), and the United Kingdom (6.6). In addition to the lack of public health capacities, research budgets on infectious diseases had been constantly cut at national level over the last decade. The research budget of the National Institute of Infectious Diseases (NIID), the leading national research institute, dropped from about 6 trillion yen in 2009 to about 4 trillion in 2018. The number of researchers decreased from 325 in 2010 to 306 in 2018, an approximately 5.8% cut (Kawata 2020). Consequently, public health capacities were quite limited at the beginning of the crisis.

As explained in Moon et al. (2021), the role of experts in crisis management is relatively limited in that they “advise” the policy making of the administration and bureaucracy; however, the experts neither make decisions nor implement policies. The closed employment system of civil servants and limited use of external experts may be one reason for passive use of experts in the policy-making process. Japan also lacks an independent decision-making body led by experts similar to the Centers for Disease Control and Prevention (CDC) in the United States or KCDC in Korea. The NIID is an outpost agency of the MHLW and was not granted decision-making autonomy. Professor Kentaro Iwata of Kobe University, an infection control specialist, pointed out that Japan’s lack of “scientific decision-making by an independent team of professionals” caused problems during the quarantine on the Diamond Princess cruise ship in February (Osaki 2020a). The Novel Coronavirus Expert Meeting led by NIID Director Takaji Wakita is a collective of academics and infectious disease experts; however, its role was limited to offering advice. In fact, the nationwide closures of schools “requested” by Prime Minister Abe was not even advised by the Expert Meeting (Nihon Keizai Shimbun 2020b). Administrative experts in Japan also criticized the unclear division of roles in infection disease control between the parties involved, including the prime minister, minister in charge, chief cabinet secretary, and expert meetings. It is also reported that the government relies on experts’ opinions and that experts informally “control” policy decisions despite their lack of status as an independent decision-making body, as explained below (Makihara 2020).

New tools of control and policing were implemented; many of these measures, however, were not compulsory. Since the government declared a state of emergency in seven prefectures (including Tokyo and Osaka) on April 7, the Abe administration called on citizens to perform “self-restraint” (*jishuku* in Japanese) activities without direct inter-human contact, with the goal of decreasing contacts by 80%. Following this declaration, local governments “requested” targeted industries, ranging from museums and schools to bars and nightclubs, to suspend business. These rules were requests and there were no penalties for non-compliance; the administration has consistently been reluctant to enforce measures that restrict private rights. On June 15, PM Abe insisted that introducing penalties should be considered with great caution (Yomiuri Shimbun 2020). However, such requests have been effectively enforced even without legal penalties. Although the reasons for this effectiveness have not been systematically explained, it is sometimes attributed to Japan’s unique culture of social norm compliance. In extreme cases, stores that legally continued business were insulted and pressured to stop operations by local citizens called *jishuku keisatsu*, or “self-restraint police” (Fujii and Hata 2020). Rule breakers of the new social norms (including mask-wearing, staying at home, and suspending business) were often harassed by these local citizens (Katafuchi, Kurita, and Managi 2020, Moon et al. 2021, Osaki 2020b).

This reliance on self-restraint can also be attributed to Japan’s unique constitutional regime. The contemporary Japanese constitution lacks explicit emergency provisions, and there has been strong

resistance to legislation that would give the government emergency power. The pre-war Imperial Constitution had emergency provisions that led to abuses of power during “national crises” such as the Great Kato Earthquake of 1923 and the wars of the 1930s-40s. Therefore, the legal basis for compulsory measures during a crisis is severely limited (Oya 2020).

Financial packages were also offered in Japan. These packages included 100 thousand yen (about 935 USD) of individual financial aid and up to 1 million yen (about 9,350 USD) of the Subsidy Program for Sustaining Businesses (METI 2020). The government also offered two reusable cloth face masks per household, which were sent by mail. However, it took almost two months for the government to complete this delivery of face masks to most households in Japan (Jiji Press 2020a).

## 5. Conclusion

We argue that the Japanese government policy is characterized by reliance on self-restraint behavior and individual hygiene practices rather than enforcing strict, legally-binding measures and proactively testing and tracing individuals. First, Japan did not implement strict lockdown measures involving penalties. Instead, the Japanese government took a “mild lockdown” approach. Instead of imposing strict COVID-19 measures, the Japanese government has largely relied on citizens’ voluntary self-restraint behavior (*jishuku* in Japanese), requesting that citizens refrain from going out or attending mass gatherings and requesting that retail, dining, and entertainment industries shorten business hours or cancel large events.

Moreover, the ruling party’s economic interests, including the Olympic games, are often strongly reflected in policies, seemingly due to the specific institutional contexts characterized by the lack of emergency power and centralized leadership at both the expert- and executive-levels. Thus, Japan’s response to the spread of COVID throughout the two rounds of the state of emergency is cautious and restrained although the actual performance—how the enacted policy influenced the spreading of COVID-19—needs further examination.

This chapter explains Japan’s pandemic approach and the institutional contexts that may partly explain the distinctiveness of Japan’s policy. Cross-national comparative studies are needed to understand in detail the relationship between national institutional factors, the nature of the government’s corona control, and corona-related outcome measures. A further challenge is that it is difficult to compare COVID-19 related outcome measures across countries due to differences in testing policies, testing abilities, and the reliability of COVID-19 related statistics. Future studies should undertake such tasks as the data become available.

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## References

- An, Brian Y, and Shui-Yan Tang. 2020. "Lessons from COVID-19 responses in East Asia: Institutional infrastructure and enduring policy instruments." *The American Review of Public Administration* 50 (6-7):790-800.
- Ansell, Christopher, Eva Sørensen, and Jacob Torfing. 2020. "The COVID-19 pandemic as a game changer for public administration and leadership? The need for robust governance responses to turbulent problems." *Public Management Review*:1-12.
- Aoki, Naomi. 2018. "Japan's Bureaucracy in International Perspective." In *Global Encyclopedia of Public Administration, Public Policy, and Governance*, edited by Ali Farazmand, 1-5. Cham: Springer International Publishing.
- Bekke, AJGM, and Frits M Meer. 2000. *Civil service systems in Western Europe*. Cheltenham, UK: Edward Elgar Publishing.
- Bromfield, Nicholas, and Allan McConnell. 2020. "Two routes to precarious success: Australia, New Zealand, COVID-19 and the politics of crisis governance." *International Review of Administrative Sciences*: 0020852320972465.
- Cai, Changkun, Weiqi Jiang, and Na Tang. 2021. "Campaign-style crisis regime: how China responded to the shock of COVID-19." *Policy Studies*:1-21. doi: 10.1080/01442872.2021.1883576.
- Capano, Giliberto, Michael Howlett, Darryl SL Jarvis, M Ramesh, and Nihit Goyal. 2020. "Mobilizing policy (in) capacity to fight COVID-19: Understanding variations in state responses." *Policy and Society* 39 (3):285-308.
- Christensen, Robert K, and Beth Gazley. 2008. "Capacity for public administration: Analysis of meaning and measurement." *Public Administration and Development: The International Journal of Management Research and Practice* 28 (4):265-279.
- Cingolani, Luciana, Kaj Thomsson, and Denis de Crombrughe. 2015. "Minding Weber more than ever? The impacts of state capacity and bureaucratic autonomy on development goals." *World Development* 72:191-207.
- CSSE at Johns Hopkins University. 2021a. "COVID-19 Data Repository: Cumulative confirmed COVID-19 cases per million people." accessed March 8, 2021. <https://ourworldindata.org/>

coronavirus-data-explorer?zoomToSelection=true&time=2020-03-01..latest&country=USA~DEU~JPN~KOR~VNM~SWE~THA~NZL~FIN&region=World&casesMetric=true&interval=total&perCapita=true&smoothing=0&pickerMetric=location&pickerSort=asc.

CSSE at Johns Hopkins University. 2021b. “COVID-19 Data Repository: Cumulative confirmed COVID-19 deaths per million people.” accessed March 8, 2021. <https://ourworldindata.org/coronavirus-data-explorer?zoomToSelection=true&time=2020-03-01..latest&country=USA~DEU~JPN~KOR~VNM~SWE~THA~NZL~FIN&region=World&deathsMetric=true&interval=total&perCapita=true&smoothing=0&pickerMetric=location&pickerSort=asc>.

CSSE at Johns Hopkins University. 2021c. “COVID-19 Data Repository: Cumulative COVID-19 tests per 1,000 people.” accessed March 9, 2021. <https://ourworldindata.org/coronavirus-data-explorer?zoomToSelection=true&time=2020-03-01..latest&country=USA~SWE~DEU~FIN~JPN~KOR~NZL~THA~VNM~TWN~GBR~NLD~CAN~AUS&region=World&testsMetric=true&interval=total&perCapita=true&smoothing=0&pickerMetric=location&pickerSort=asc>.

D’Arcy, Michelle, and Marina Nistotskaya. 2018. “The early modern origins of contemporary European tax outcomes.” *European Journal of Political Research* 57 (1):47-67. doi: 10.1111/1475-6765.12214.

D’Arcy, Michelle, and Marina Nistotskaya. 2020. “State Capacity, Quality of Government, Sequencing and Development Outcomes.” In *Oxford Handbook of the Quality of Government*, edited by A Bågenholm, M Bauhr, M Grimes and B Rothstein. Oxford: Oxford University Press.

Dahlström, Carl, and Victor Lapuente. 2017. *Organizing the Leviathan: How the relationship between politicians and bureaucrats shapes good government*. Cambridge: Cambridge University Press.

Dahlström, Carl, Victor Lapuente, and Jan Teorell. 2012a. “The merit of meritocratization: Politics, bureaucracy, and the institutional deterrents of corruption.” *Political Research Quarterly* 65 (3):656-668.

Dahlström, Carl, Victor Lapuente, and Jan Teorell. 2012b. “Public administration around the world.” In *Good Government: The Relevance of Political Science*, edited by Sören Holmberg and Bo Rothstein, 40-67. Cheltenham, UK: Edward Elgar Publishing.

Dahlström, Carl, Jan Teorell, Stefan Dahlberg, Felix Hartmann, Annika Lindberg, and Marina Nistotskaya. 2015a. The QoG expert survey dataset II. In *Gothenburg, Sweden: Quality of Government Institute*. Gothenburg, Sweden.

- Dahlström, Carl, Jan Teorell, Stefan Dahlberg, Felix Hartmann, Annika Lindberg, and Marina Nistotskaya. 2015b. "The QoG Expert Survey II Report." *The QoG Working Paper Series*.
- Dunlop, Claire A, Edoardo Ongaro, and Keith Baker. 2020. "Researching COVID-19: A research agenda for public policy and administration scholars." *Public Policy and Administration* 35 (4):365-383.
- Estévez-Abe, Margarita, and Yeong-Soon Kim. 2014. "Presidents, Prime Ministers and Politics of Care-Why Korea Expanded Childcare Much More than Japan." *Social Policy & Administration* 48 (6):666-685.
- Evans, Peter, and James E Rauch. 1999. "Bureaucracy and growth: A cross-national analysis of the effects of" Weberian" state structures on economic growth." *American sociological review* 64 (5):748-765.
- Fraser, Timothy, and Daniel P. Aldrich. 2021. "The dual effect of social ties on COVID-19 spread in Japan." *Scientific Reports* 11 (1):1596. doi: 10.1038/s41598-021-81001-4.
- Fujii, Ryo, and Takeru Hata. 2020. "Kyugyo semaru 'jishuku keisatsu' dema kakusan de kyaku gekigen—sutoresu de kishimu shakai [The "restraint police" are pressing for closure. The number of customers plummeted due to the spread of the hoax.]." *Yomiuri Shimbun*, May 13, 2020. Accessed June 17, 2020. <https://www.yomiuri.co.jp/national/20200513-OYT1T50231/>.
- Fukuyama, Francis. 2013. "What is governance?" *Governance* 26 (3):347-368.
- Gallup International Association. 2020a. "3<sup>rd</sup> Wave of the Gallup International Survey on the Corona Crisis." accessed March 11, 2021. [https://www.gallup-international.com/fileadmin/user\\_upload/surveys/2020/Covid-19Wave-3-1.pdf](https://www.gallup-international.com/fileadmin/user_upload/surveys/2020/Covid-19Wave-3-1.pdf).
- Gallup International Association. 2020b. "The coronavirus: A vast scared majority around the world." accessed June 11, 2020. [https://www.gallup-international.com/wp-content/uploads/2020/03/GIA\\_SnapPoll\\_2020\\_COVID\\_Tables\\_final.pdf](https://www.gallup-international.com/wp-content/uploads/2020/03/GIA_SnapPoll_2020_COVID_Tables_final.pdf).
- Ginsburg, Tom. 2001. "Dismantling the" developmental state"? Administrative procedure reform in Japan and Korea." *The American Journal of Comparative Law* 49 (4):585-625.
- Gualmini, Elisabetta. 2008. "Restructuring Weberian bureaucracy: Comparing managerial reforms in Europe and the United States." *Public administration* 86 (1):75-94.

- Hale, Thomas, Sam Webster, Anna Petherick, Toby Phillips, and Beatriz Kira. 2020. Oxford COVID-19 Government Response Tracker, Blavatnik School of Government.
- Hammerschmid, Gerhard, Steven Van de Walle, Rhys Andrews, and Philippe Bezes. 2016. *Public administration reforms in Europe: The view from the top*. Cheltenham, UK: Edward Elgar Publishing.
- Hu, Qian, Haibo Zhang, Naim Kapucu, and Wu Chen. 2020. "Hybrid Coordination for Coping with the Medical Surge from the COVID-19 Pandemic: Paired Assistance Programs in China." *Public Administration Review* 80 (5):895-901.
- Huang, Irving Yi-Feng. 2020. "Fighting Against COVID-19 through Government Initiatives and Collaborative Governance: Taiwan Experience." *Public Administration Review* 80 (4):665-670.
- Hur, Joon-Young, and KyungWoo Kim. 2020. "Crisis learning and flattening the curve: South Korea's rapid and massive diagnosis of the COVID-19 infection." *The American Review of Public Administration* 50 (6-7):606-613.
- Im, Tobin, and Youngmi Choi. 2018. "Rethinking national competitiveness: A critical assessment of governmental capacity measures." *Social Indicators Research* 135 (2):515-532.
- Im, Tobin, and Kris Hartley. 2017. "Aligning Needs and Capacities to Boost Government Competitiveness." *Public Organization Review*:1-19.
- Ingraham, P.W., P.W.I.M.Q.G.P.G.J. Amy Kneeder Donahue, Government Performance Project, P.G. Joyce, and A.K. Donahue. 2003. *Government Performance: Why Management Matters*. Baltimore: Johns Hopkins University Press.
- Inoue, Hajime. 2020. "Japanese strategy to COVID-19: How does it work?" *Global Health & Medicine* 2 (2):131-132.
- Jamieson, Thomas. 2020. "'Go Hard, Go Early': Preliminary Lessons From New Zealand's Response to COVID-19." *The American Review of Public Administration* 50 (6-7):598-605.
- Jiji Press. 2020a. "Abeno masuku haihu, hobo kanryou shingatakorona [Abeno mask distribution almost complete: Novel coronavirus]." *Jiji Press*, June 15, 2020. Accessed March 28, 2021. <https://www.jiji.com/jc/article?k=2020061500902&g=pol>.
- Jiji Press. 2020b. "To no kyugyo yosei ga zenmen kaijo shinjukuku 'yorunomachi' sekkyoku kensa-shingata korona [The Tokyo Metropolitan Government's request to close the office was fully



- lifted. Shinjuku City actively inspects the “nightlife district” - the new corona.” Jiji Press, June 9, 2020. Accessed June 27, 2020. <https://www.jiji.com/jc/article?k=2020061801221&g=eco>.
- Jiji Tsushin. 2020. “*Naikakushiji 38%, fushiji 61% Shingatakorona taiou 6 wari hyoukasezu jiji yoronchousa* [Cabinet approval rate 38%, disapproval rate 61%. 60% of the respondents did not evaluate the government responses to new coronavirus.], accessed June 11, 2020. <https://www.jiji.com/jc/article?k=2020060600324&g=pol>.
- Johnson, Chalmers. 1982. *MITI and the Japanese miracle: the growth of industrial policy, 1925-1975*. California, US: Stanford University Press.
- Johnston, Eric. 2021. “Japan’s new virus law: Fines for noncompliance and support for hard-hit firms.” *The Japan Times*, February 4, 2021. Accessed April 4, 2021. <https://www.japantimes.co.jp/news/2021/02/04/national/new-virus-law-explainer/>.
- Katafuchi, Yuya, Kenichi Kurita, and Shunsuke Managi. 2020. “COVID-19 with stigma: Theory and evidence from mobility data.” *Economics of disasters and climate change*:1-25.
- Kawata, Atsushi. 2020. “*Kokuritsu kansenzen gamba wa himei: rekidai seikenka de jinin yosan den* [The National Institute of Infectious Diseases Struggles after Budget and Personnel Cuts].” *Tokyo Newspaper*, March 7, 2020. Accessed June 16, 2020. <https://www.tokyo-np.co.jp/article/14466>.
- Kim, Pan Suk. 2020. “South Korea’s fast response to coronavirus disease: implications on public policy and public management theory.” *Public Management Review*:1-12.
- Kitamura, Wataru. 2020. “*Nihon no gyousei wa surimu sugiru* [Japanese administration is too small].” *Chuo Kouron*, 42-51.
- Krauss, Ellis S., and Robert J. Pekkanen. 2015. “Possible Futures of Political Leadership: Waiting for a Transformational Prime Minister.” In *Possible Futures of Political Leadership: Waiting for a Transformational Prime Minister*, edited by Baldwin Frank and Allison Anne, 282-303. New York: New York University Press.
- Kuhlmann, Sabine, Mikael Hellström, Ulf Ramberg, and Renate Reiter. 2021. “Tracing divergence in crisis governance: responses to the COVID-19 pandemic in France, Germany and Sweden compared.” *International Review of Administrative Sciences*:0020852320979359.
- Kuhlmann, Sabine, and Hellmut Wollmann. 2019. *Introduction to comparative public administration: Administrative systems and reforms in Europe*. Cheltenham, UK: Edward Elgar Publishing.



- Læg Reid, Per, and Lois Recascino Wise. 2015. "Transitions in civil service systems: Robustness and flexibility in human resource management." In *Comparative Civil Service Systems in the 21st Century*, edited by Theo Toonen, Frits van der Meer and Jos Raadschelders, 203-222. New York, NY: Palgrave.
- Lapiente, Victor, and Kohei Suzuki. 2020. "Politicization, Bureaucratic Legalism, and Innovative Attitudes in the Public Sector." *Public Administration Review* 80 (3):454-467.
- Lee, Sabinne, Changho Hwang, and M Jae Moon. 2020. "Policy learning and crisis policy-making: quadruple-loop learning and COVID-19 responses in South Korea." *Policy and Society* 39 (3):363-381.
- Liao, Wei-Jie, Nai-Ling Kuo, and Shih-Hsien Chuang. 2020. "Taiwan's budgetary responses to COVID-19: the use of special budgets." *Journal of Public Budgeting, Accounting & Financial Management* 33 (1):24-32. doi: 10.1108/JPBAFM-07-2020-0128.
- Lin, Ching-Fu, Chien-Huei Wu, and Chuan-Feng Wu. 2020. "Reimagining the Administrative State in Times of Global Health Crisis: An Anatomy of Taiwan's Regulatory Actions in Response to the COVID-19 Pandemic." *European Journal of Risk Regulation* 11 (2):256-272. doi: 10.1017/err.2020.25.
- Læg Reid, Per, and Lois Recascino Wise. 2007. "Reforming human resource management in civil service systems: Recruitment, mobility, and representativeness." In *The civil service in the 21st century*, edited by Jos C. N. Raadschelders, Theo A. J. Toonen and Frits M. Van der Meer, 169-182. London: Palgrave Macmillan.
- Maeda, Kentaro. 2014. *Shimin wo yatowanai kokka [A State not actively employing its citizens]* Tokyo: Tokyo University Press.
- Maeda, Kentaro. 2018. "The Japanese Civil Service." In *Global Encyclopedia of Public Administration, Public Policy, and Governance*, edited by Ali Farazmand, 1-9. Cham: Springer International Publishing.
- Makihara, Izuru. 2020. "Maenomerino "senmonka chiimu" gaaburidasu shingatakorona heno abeseikenno mijukuna taiou [The Abe administration's inexperienced response to the new corona uncovered by its lean-forwarding 'expert team']." *Ronza*.
- March, James G, and Johan P Olsen. 2013. The Logic of Appropriateness. In *The Oxford Handbook of Political Science*, edited by Robert E. Goodin. New York, US: Oxford University Press Inc.

- Matsunami, Jun. 2018. "Politico-Administrative Relationships in Japanese Context." In *Global Encyclopedia of Public Administration, Public Policy, and Governance*, edited by Ali Farazmand, 1-5. Cham: Springer International Publishing.
- Mazzucato, Mariana, and Rainer Kattel. 2020. "COVID-19 and public-sector capacity." *Oxford Review of Economic Policy* 36 (Supplement\_1):S256-S269.
- McCurry, Justin. 2020. "From near disaster to success story: how Japan has tackled coronavirus." *The Guardian*. Accessed June 11, 2020. <https://www.theguardian.com/world/2020/may/22/from-near-disaster-to-success-story-how-japan-has-tackled-coronavirus>.
- METI. 2020. "Keizai sangyoshou no shiensaku [METI's support measures]." accessed June 20, 2020. <https://www.meti.go.jp/covid-19/index.html>.
- Mishima, Ko. 2017. "a Big Bang for Japanese Mandarins? The civil service reform of 2014." *International Journal of Public Administration* 40 (13):1101-1113.
- Moon, M Jae. 2020. "Fighting Against COVID-19 with Agility, Transparency, and Participation: Wicked Policy Problems and New Governance Challenges." *Public Administration Review* 80 (4):651-656.
- Moon, M. Jae, Kohei Suzuki, Tae In Park, and Kentaro Sakuwa. 2021. "A Comparative Study of COVID-19 Responses in South Korea and Japan: Political Nexus Triad and Policy Responses." *International Review of Administrative Sciences*.
- Muto, Kaori, Isamu Yamamoto, Miwako Nagasu, Mikihiro Tanaka, and Koji Wada. 2020. "Japanese citizens' behavioral changes and preparedness against COVID-19: an online survey during the early phase of the pandemic." *PLoS One* 15 (6):e0234292.
- Nagata, Kazuaki. 2020. "Taro Kono looks to pinpoint what is demotivating young Japanese bureaucrats." *The Japan Times*, October 3, 2020. Accessed March 17, 2021. <https://www.japantimes.co.jp/news/2020/10/03/national/taro-kono-motivation-bureaucrats/>.
- Nakamura, Akira. 2012. "Asian model of government re-examined in the aftermath of the global economic crunch: A Japanese perspective from the experience of the triple disasters in March 2011." *International Review of Administrative Sciences* 78 (2):239-259.
- Nakamura, Akira, and Masao Kikuchi. 2011. "Japanese public administration at the crossroads: Declining trust in government and civil service reform in the age of fiscal retrenchment."

- In *International Handbook on Civil Service Systems*, edited by Andrew Massey, 282-304. Massachusetts, US: Edward Elgar Publishing.
- NHK. 2020. “*Naikaku Shijiritsu* [Cabinet approval ratings].” accessed June 13, 2020. <https://www.nhk.or.jp/senkyo/shijiritsu/>.
- Nihon Keizai Shimbun. 2020a. “*Korona taiou hyoukasezu 55% yoronchousa naikakushijiritsu yokobai 49%* [Disapproval rate for government’s response to corona 55%, cabinet approval rate unchanged at 49%].” accessed June 11, 2020. <https://www.nikkei.com/article/DGKKZO58921710Q0A510C2MM8000/>.
- Nihon Keizai Shimbun. 2020b. “*Nihon wa senmonka no shireito-soshiki nashi kengen to sekinin no meikakuka fukaketsu* [Absence of Expert Leadership in Japan: Clear Delineation of Authorities and Responsibilities Needed].” Nihon Keizai Shimbun, April 21, 2020. Accessed June 18, 2020. <https://www.nikkei.com/article/DGXMZO58271700Q0A420C2EA2000/>.
- Nihon Keizai Shimbun. 2021. “Financial penalty for refusal of shortened working hours and hospitalization. Revised Special Measures Law, etc. enacted [Jitan nyuuin no kyohi ni karyou. Kaisei tokusohou nado seiritsu].” *Nihon Keizai Shimbun*, February 3, 2021. Accessed April 4, 2021. <https://www.nikkei.com/article/DGXZQODE030ZQ0T00C21A2000000/>.
- Nikkei Asia. 2020. “Japan to scrap 37.5 C fever rule for PCR testing.” *Nikkei Asia*, May 6, 2020. <https://asia.nikkei.com/Spotlight/Coronavirus/Japan-to-scrap-37.5-C-fever-rule-for-PCR-testing>.
- Nistotskaya, Marina. 2020. “Quality of Government (QoG) as Impartiality: Review of the literature on the causes and consequences of QoG.” *KIPA Public Policy Review* 1:25-49.
- Nistotskaya, Marina, and Luciana Cingolani. 2016. “Bureaucratic Structure, Regulatory Quality, and Entrepreneurship in a Comparative Perspective: Cross-Sectional and Panel Data Evidence.” *Journal of Public Administration Research and Theory* 26 (3):519–534.
- Nistotskaya, Marina, Stefan Dahlberg, Carl Dahlström, Aksel Sundström, Sofia Axelsson, Cem Mert Dalli, and Natalia Alvarado Pachon. 2021. “The Quality of Government Expert Survey 2020 (Wave III): Report.” *QoG Working Paper Series* 2:1-59. doi: 10.18157/qoges2020.
- OECD. 2019. *Government at a Glance 2019*. Paris: OECD Publishing.
- OECD. 2021. “Unemployment rate (indicator).” <https://data.oecd.org/unemp/unemployment-rate.htm>.

- Osaki, Tomohiro. 2020a. "Coronavirus Outbreak Highlights Need for Independent CDC-style Body in Japan." *Japan Times*, February 24, 2020. Accessed June 27, 2020. <https://www.japantimes.co.jp/news/2020/02/24/national/niid-cdc-japan/#.Xu1pH2j7Suk>.
- Osaki, Tomohiro. 2020b. "Japan's 'virus vigilantes' take on rule-breakers and invaders." *The Japan Times*, May 13, 2020. Accessed June 27, 2020. <https://www.japantimes.co.jp/news/2020/05/13/national/coronavirus-vigilantes-japan/>.
- OurWorldInData.org. 2021a. "Economic decline in the second quarter of 2020." accessed March 9, 2021. <https://ourworldindata.org/covid-health-economy>.
- OurWorldInData.org. 2021b. "Government Stringency Index." accessed March 11, 2021. <https://ourworldindata.org/policy-responses-covid#government-stringency-index>.
- OurWorldInData.org. 2021. "The share of COVID-19 tests that are positive." accessed March 12, 2021. <https://ourworldindata.org/coronavirus-data-explorer?zoomToSelection=true&time=2020-03-01..latest&country=USA~SWE~DEU~FIN~JPN~KOR~NZL~THA~VNM~TWN~GBR~NLD~CAN~AUS&region=World&positiveTestRate=true&interval=total&perCapita=true&smoothing=0&pickerMetric=location&pickerSort=asc>.
- Painter, M., and B. Peters, eds. 2010. *Tradition and Public Administration*. UK: Palgrave Macmillan.
- Parady, Giancarlos, Ayako Taniguchi, and Kiyoshi Takami. 2020. "Travel behavior changes during the COVID-19 pandemic in Japan: Analyzing the effects of risk perception and social influence on going-out self-restriction." *Transportation Research Interdisciplinary Perspectives* 7:100181.
- Park, Sungho, and Craig S. Maher. 2020. "Government Financial Management and the Coronavirus Pandemic: A Comparative Look at South Korea and the United States." *The American Review of Public Administration* 50 (6-7):590-597. doi: 10.1177/0275074020941720.
- Pierre, Jon. 2020. "Nudges against pandemics: Sweden's COVID-19 containment strategy in perspective." *Policy and Society* 39 (3):478-493.
- Pollitt, Christopher, and Geert Bouckaert. 2017. *Public management reform: A comparative analysis into the age of austerity*. 4th ed. Oxford: UK: Oxford University Press.
- Populi, Vox. 2021. "VOX POPULI: Extreme work hours crushing staff in seat of Japanese power." *The Asahi Shimbun*, March 9, 2021. Accessed March 17, 2021. <http://www.asahi.com/ajw/articles/14252874>.

- Povitkina, Marina, and Ketevan Bolkvadze. 2019. "Fresh pipes with dirty water: How quality of government shapes the provision of public goods in democracies." *European Journal of Political Research*.
- Rothacher, Albrecht. 1993. *The Japanese Power Elite*. New York, US: St. Martin's Press.
- Rothstein, Bo, and Jan Teorell. 2008. "What is quality of government? A theory of impartial government institutions." *Governance* 21 (2):165-190.
- Santos, Niedja de Andrade e Silva Forte dos. 2021. "Multi-level governance tackling the COVID-19 pandemic in China." *Brazilian Journal of Public Administration* 55 (1):95-110.
- SchengenVisaInfo.com. 2021. "EU's List of Epidemiologically Safe Countries Amid COVID-19." accessed March 9, 2021. <https://www.schengenvisainfo.com/eu-list-of-epidemiologically-safe-countries-amid-covid-19/>.
- Sensho, Yasuhiro. 2020. "Hitodebusoku to gyomu kata de kasumigaseki houkai no pinchi [Shortage of labor and overwork will cause the collapse of Kasumigaseki]." *Chuo Kouron*, 52-57.
- Shimizu, Kazuki, and Masashi Negita. 2020. "Lessons Learned from Japan's Response to the First Wave of COVID-19: A Content Analysis." *Healthcare* 8 (4):426.
- Shimizu, Kazuki, Yasuharu Tokuda, and Kenji Shibuya. 2021. "Japan should aim to eliminate covid-19." *BMJ* 372:n294. doi: 10.1136/bmj.n294.
- Shimizu, Kazuki, George Wharton, Haruka Sakamoto, and Elias Mossialos. 2020. "Resurgence of covid-19 in Japan." *BMJ* 370:m3221. doi: 10.1136/bmj.m3221.
- Steen, Trui, and Taco Brandsen. 2020. "Coproduction during and after the COVID-19 Pandemic: Will It Last?" *Public Administration Review* 80 (5):851-855.
- Sturmer, Jake, and Yumi Asada. 2020. "Japan was feared to be the next US or Italy. Instead their coronavirus success is a puzzling 'mystery'." ABC News. Accessed June 11, 2020. <https://www.abc.net.au/news/2020-05-23/japan-was-meant-to-be-the-next-italy-on-coronavirus/12266912>.
- Sugaya, Nagisa, Tetsuya Yamamoto, Naho Suzuki, and Chigusa Uchiumi. 2020. "A real-time survey on the psychological impact of mild lockdown for COVID-19 in the Japanese population." *Scientific Data* 7 (1):1-6.

- Sugiyama, Satoshi. 2020. "Abe's influence takes a hit with prosecutor scandal and bill reversal." *The Japan Times*. Accessed June 13, 2020. <https://www.japantimes.co.jp/news/2020/05/24/national/politics-diplomacy/japan-shinzo-abe-gambling-prosecutor/>.
- Suzuki, Kohei, and Mehmet Akif Demircioglu. 2019. "The Association Between Administrative Characteristics and National Level Innovative Activity: Findings from a Cross-National Study." *Public Performance & Management Review* 42 (4):755-782.
- Suzuki, Kohei, and Mehmet Akif Demircioglu. 2020. "Is impartiality enough? Government impartiality and citizens' perceptions of public service quality." *Governance*. doi: 10.1111/gove.12527.
- Suzuki, Kohei, and Hyunkang Hur. 2020. "Bureaucratic structures and organizational commitment: findings from a comparative study of 20 European countries." *Public Management Review* 22 (6):877-907.
- Suzuki, Kohei, and Hyunkang Hur. 2021. "Revisiting the old debate: citizens' perceptions of meritocracy in public and private organizations." *Public Management Review*:1-25. doi: 10.1080/14719037.2021.1895545.
- Takahashi, Fumiya. 2020. "*Korona senmonka kaigi, gijiroku sakuseisezu, rokuonmo nashi. naikakukanbou "jiyuuna giron dekinai"*[Corona expert meeting, no minutes taken, no recording. Cabinet Secretariat, "Free discussion impossible"]." *HuffPost Japan*. Accessed June 15, 2020. [https://www.huffingtonpost.jp/entry/story\\_jp\\_5ed0544ec5b6aeca900edccb](https://www.huffingtonpost.jp/entry/story_jp_5ed0544ec5b6aeca900edccb).
- Takenaka, Harukata. 2019. "Expansion of the Prime Minister's Power in the Japanese Parliamentary System: Transformation of Japanese Politics and Institutional Reforms." *Asian Survey* 59 (5):844-869.
- The Japan Times. 2020. "Japanese government, criticized for low testing rates, eases guidelines for seeking virus tests." *The Japan Times*, May 9, 2020. <https://www.japantimes.co.jp/news/2020/05/09/national/japan-criticism-relaxes-coronavirus-testing-guidelines/>.
- The Japan Times Editorial Board. 2020. "Work-style reform needed at the government's center." *The Japan Times*, August 20, 2020. Accessed March 17, 2021. <https://www.japantimes.co.jp/opinion/2020/08/20/editorials/work-style-reform-japan-government/>.

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- van den Oord, Steven, Niels Vanlaer, Hugo Marynissen, Bert Bruggemans, Jan Van Roey, Sascha Albers, Bart Cambré, and Patrick Kenis. 2020. "Network of networks: preliminary lessons from the Antwerp Port Authority on crisis management and network governance to deal with the COVID-19 pandemic." *Public Administration Review* 80 (5):880-894.
- Van der Wal, Zeger. 2020. "Being a Public Manager in Times of Crisis: The Art of Managing Stakeholders, Political Masters, and Collaborative Networks." *Public Administration Review* 80 (5):759-764. doi: 10.1111/puar.13245.
- Wallace, Andrea, and Brian Dollery. 2021. "Municipal Responses to COVID-19: the case of library closures in New South Wales local government." *Brazilian Journal of Public Administration* 55 (1):84-94.
- Woo, JJ. 2020. "Policy capacity and Singapore's response to the COVID-19 pandemic." *Policy and Society* 39 (3):345-362.
- Yen, Wei-Ting. 2020. "Taiwan's COVID-19 Management: Developmental State, Digital Governance, and State-Society Synergy." *Asian Politics & Policy* 12 (3):455-468. doi: <https://doi.org/10.1111/aspp.12541>.
- Yomiuri Shimbun. 2020. "Kyugyoyosei ni bassoku hiteiteki shusho "shiken ni okina seiyaku" [Prime Minister Talks Against Penalties on Violation of Business Suspensions, "Severe Restrictions on Private Rights"] "Yomiuri Shimbun, June 16, 2020. Accessed June 16, 2020. <https://www.yomiuri.co.jp/politics/20200615-OYT1T50134/>.





**Chapter**

# 04

International Comparative Analysis of COVID-19 Responses

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## **Thailand's Response to COVID-19**

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## Chapter 4. Thailand's Response to COVID-19

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### Abstract

Internationally, Thailand is commended for effective policy response in the initiate phases of the spread of the virus. The country was ranked 4<sup>th</sup> in the world by the Lowy Institute's Covid Performance Index (as of 13 March 2021) following behind only Bhutan, New Zealand, and Taiwan. However, dissimilar to other countries in this volume, Thailand experienced backsliding of democracy. Based on the Varieties of Democracy (V-Dem) 2021 report, Thailand is one of the top 10 countries in the world that is 'autocratizing'. In 2010, Thailand was already categorized as 'electoral autocracy', however in 2020 it fell further to the 'closed autocracy' category. In the economic realm, the Thai government has performed relatively well compare to peers in the region for the scale, speed, and targeting of fiscal response to cope with lockdown measures. They have utilized digital platforms for tracking people's movements, funds disbursement, vaccination bookings, and general information dissemination. Nonetheless, Thailand is rapidly aging, political turmoil continues, unemployment is now at 2%, and the pandemic is still not in control. Economic outlook remains highly uncertain. Thus, to the authors, Thailand has demonstrated mixed results for its policy responses for COVID-19.

With this political and economic backdrop this chapter provides the description and analysis of policy responses to COVID-19 in Thailand from March 2020 to February 2021. The current military junta-linked government used a combination of strict and innovative responses during COVID-19 pandemic with the twin goals to curb the virus and the swelling of political protests around the country throughout the year 2020. The authors offer four features of the Thai context that explains the policy results – the 4Cs. They are culture of greeting and respecting doctors; centralized government; community health workers; and consensus on health science. First, the culture in Thailand is such that there is very little physical contact when greeting and interacting. People normally do not shake hands, kiss, nor hug as a way of greeting. Also Thais have healthy respect for doctors and their advices. Second, the government, which was already highly centralized, responded in a swift and coordinated manner from the beginning. There were no competing narratives or instructions. The Prime Minister setup a central coordinating body from early on to give advice, make decisions, and communicate. Thirdly, Thailand has a strong and long history of 1 million community health workers on the ground. These semi-volunteers play crucial roles to do contact tracing, provide accurate information, observe

community members, and initial diagnoses. Fourth is the consensus in the Thai society on the health issue. There were very little debates related to freedom of movement or freedom of choice, which was observed in other countries.

There are two lessons for other countries. First centralized response is key but could be long term obstruction for democratic development. Second, community-level health volunteers is a model worth exploring for countries with inadequate health professionals. They can disseminate health information and provide necessary services on the ground.

**Keywords:** Consensus on health issues, Centralised Government, Community Health Workers, Culture

## 1. Introduction

Compared to many countries, Thailand's response to the pandemic has been quite successful for controlling the spread of the virus. The country was ranked 4<sup>th</sup> in the world by the Lowy Institute's Covid Performance Index (as of 13 March 2021) following behind only Bhutan, New Zealand, and Taiwan.<sup>1</sup> Its community health system was praised by the World Health Organization (WHO) as a best practice (ref). As of 7 May 2021, Thailand's total number of confirmed cases was 78,855 people<sup>2</sup>, which is approximately 0.11% of the population. The number of COVID-19 related deaths was 363 which is 0.46% compared to confirmed cases. Of the confirmed cases 49,172 or 62.36% have recovered and discharged from hospitals, while 29,320 or 37.64% is undergoing treatment.<sup>3</sup> The total number of laboratory tests were 2,119,433.<sup>4</sup> There were 54 tests per case found.<sup>5</sup>

On the other hand, in the political front, the country's liberal democracy index is falling rapidly. Based on the Varieties of Democracy (V-Dem) 2021 report, Thailand is one of the top 10 countries in

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1 Lowy Institute. Covid Performance Index. On 13 March 2021. Available at <https://interactives.lowyinstitute.org/features/covid-performance/>. Accessed on 9 May 2021.

2 Emergency Operations Centre, Department of Disease Control, Thailand. The Coronavirus Disease 2019 Situation. Available at <https://ddc.moph.go.th/viralpneumonia/eng/file/situation/situation-no484-070564.pdf>. Accessed on 9 May 2021.

3 Thailand's population is 69,799,978 people. Source: World Health Organization COVID Explorer. Available at <https://worldhealthorg.shinyapps.io/covid/>. Accessed on 9 May 2021. This approximation is calculated by the author including all confirmed cases in Thailand, including non-Thai nationals.

4 Emergency Operations Centre, Department of Disease Control, Thailand. The Coronavirus Disease 2019 Situation. Available at <https://ddc.moph.go.th/viralpneumonia/eng/file/situation/situation-no484-070564.pdf>. Accessed on 9 May 2021.

5 World Health Organization. COVID-19 Explorer. Available at <https://worldhealthorg.shinyapps.io/covid/>. Accessed on 9 May 2021.

the world that is ‘autocratizing’. In 2010, Thailand was already categorized as ‘electoral autocracy’, however in 2020 it fell further to the ‘closed autocracy’ category.<sup>6</sup> In the year 2020 the country witnessed numerous political protests offline and online covering grievances related mostly to the Thai Constitution, power and role of the Senate, the Lèse-majesté law, and unfair play in electoral politics.<sup>7</sup> Issues related to COVID-19 were prominent in online platforms (i.e. access to medical care, medical equipment, vaccine) but was not the main issue for political protests on the streets.

In the economic realm, the Thai government has performed relatively well compare to peers in the region for the scale, speed, and targeting of fiscal response to cope with the pandemic and lockdown measures.<sup>8</sup> They have utilized digital platforms for tracking people’s movements, funds disbursement, vaccination bookings, and general information dissemination. Nonetheless, Thailand is rapidly aging, political turmoil continues, unemployment is now at 2%, and the pandemic is still not in control. Thus economic outlook remains highly uncertain.<sup>9</sup>

Amidst the political upheaval and economic downturn, despite being quite successful for COVID-19 control, the government continues to be held accountable to its policies by its citizens. The current military junta-linked government used a combination of strict and innovative responses during COVID-19 pandemic with the twin goals to curb the virus and the swelling of political protests around the country throughout the year 2020. Hence, overall Thailand has demonstrated mixed results for its policy responses for COVID-19. This chapter provides the description and analysis of policy responses to COVID-19 in Thailand from March 2020 to February 2021. The structure of the chapter covers available data related to the COVID-19, description of key policy responses, offers explanations for the performance, and draws implications or lessons for other countries.

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6 Varieties of Democracy (V-Dem). Autocratization Turns Viral: Democracy Report 2021. Available at <https://www.v-dem.net/en/publications/democracy-reports/>. Accessed on 9 May 2021.

7 Major anti-government Facebook groups proliferated. One of them being as large as 2 million members. Twitter and Clubhouse (audio only) social media platforms used widely by both anti and pro -government supporters.

8 The World Bank. January 20, 2021. Thailand Economic Monitoring January 2021: Restoring Incomes; Recovering Jobs. Available at <https://www.worldbank.org/en/country/thailand/publication/key-findings-thailand-economic-monitor-january-2021-restoring-incomes-recovering-jobs>. Accessed on 9 May 2021.

9 The World Bank. January 20, 2021. Thailand Economic Monitoring January 2021: Restoring Incomes; Recovering Jobs. Available at <https://www.worldbank.org/en/country/thailand/publication/key-findings-thailand-economic-monitor-january-2021-restoring-incomes-recovering-jobs>. Accessed on 9 May 2021.

## 2. Performance of the System

### 2.1. Change of Number of Confirmed Cases and Deaths

Figure 4-1. Number of Confirmed Cases and Deaths in Thailand<sup>10</sup>

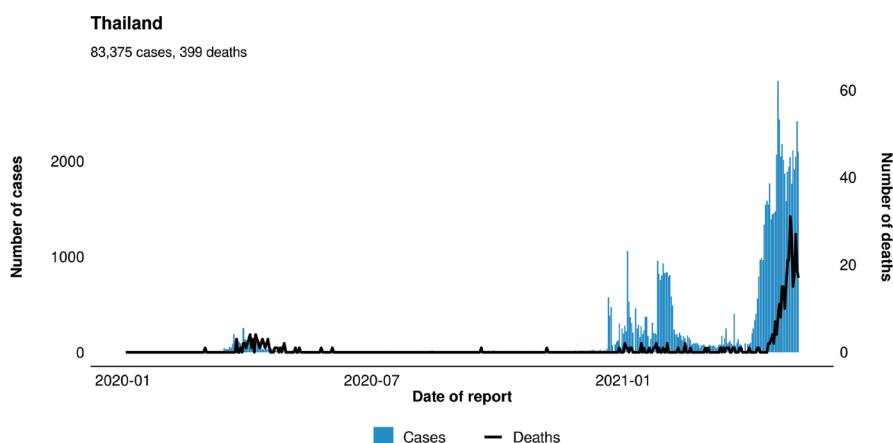


Figure 4-1 depicts the change of number of confirmed cases in Thailand from its first case found on 11 January 2020 to 7 May 2021. As of 7 May 2021, the confirmed cases were 78,855 in total. And the number of deaths were recorded as 363.<sup>11</sup> The Figure shows that in the first phase there were some confirmed cases. Then in the second phase, most of the year 2020, the COVID-19 cases in Thailand was relatively low. However towards the end of the year, in the third phase, there was a rise of confirmed cases. And in the first quarter of year 2021, the fourth phase, there is a spike of rise of cases.

<sup>10</sup> World Health Organization COVID-19 Explorer. [www.worldhealthorg.shinyapps.io/covid/](http://www.worldhealthorg.shinyapps.io/covid/)

<sup>11</sup> Emergency Operations Centre, Department of Disease Control, Thailand. The Coronavirus Disease 2019 Situation. Available at <https://ddc.moph.go.th/viralpneumonia/eng/file/situation/situation-no484-070564.pdf>. Accessed on 9 May 2021.

**Table 4-1. Characteristics of Deaths in Thailand (as of 7 May 2021)**

Characteristics of Deaths(276 Deaths)	Wave: 1 Jan-14 Dec 2020 (60 deaths)	wave: 15 Dec 2020-31 Mar 2021 (34 deaths)	Wave: 1 April 2021-now (182 deaths)
Case Fatality Rate (CFR) in each age group			
• 20-39 years old	0.20%	0.02%	0.11%
• 40-59 years old	2.10%	0.02%	0.74%
• 60+ years old	6.50%	2.60%	3.74%
Percentage of COVID-19 deaths of patients with underlying diseases including obesity, elderly patients and pregnant patients			
	64%	100%	87%

Table 4-1 shows that, similar to other countries, the largest proportion of deaths are the group of those above 60 years old. In addition the majority of people who die suffer from pre-existing health problems such as obesity, heart conditions, and high blood pressure.

## 2.2. Change of Number of Tests Performed

**Figure 4-2. Daily New COVID-19 Tests per 1,000 People<sup>12</sup>**

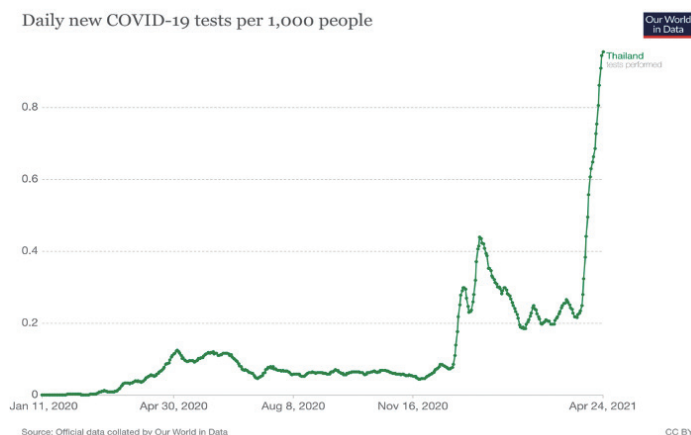


Figure 4-2 depicts the number of tests per 1,000 people in Thailand. The graph shows that the number of tests performed continuously is going up. This is aligned with the need for more testing as there is increase number of confirmed cases from December 2020 to May 2021. Hence there are more persons-under-investigation (PUIs) from the contact tracing mechanism.

<sup>12</sup> World Health Organization COVID-19 Explorer. [www.worldhealthorg.shinyapps.io/covid/](http://www.worldhealthorg.shinyapps.io/covid/)

**Figure 4-3. The Share of Daily COVID-19 Tests that are Positive<sup>13</sup>**

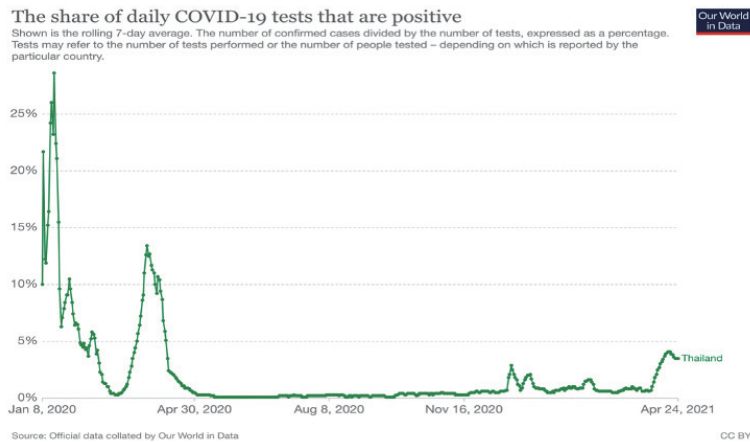


Figure 4-3 illustrates the share of number of tests that are positive. It shows that in the beginning the government was very selective in doing the tests that the share of positive return was very high. At one point in January 2020 the share was as high as 28.6%. Nevertheless, as the number of available testing kits and testing centres expanded there were wider opportunities for testing for the population. As of 24 April 2021 the rate came down to 3.5%.

### 2.3. Number of Hospital Beds

Based on Ministry of Interior's open data source as of 2018, there were over 6,500 hospitals and community hospitals in Thailand. In total there were approximately 740,000 beds.<sup>14</sup> During pandemic the Thai government's policy was to have everyone who tested positive for virus to be hospitalized regardless of the symptoms. This is in stark contrast to some countries, where the confirmed cases could be quarantined and do self-care at home. In the first three phases, when there were adequate beds, patients stayed in normal hospitals. That changed in the fourth phase when there was a spike in the number of positive cases. Different provincial health authorities and the Bangkok Metropolitan set up field hospitals to accommodate asymptomatic or very minor symptom cases.

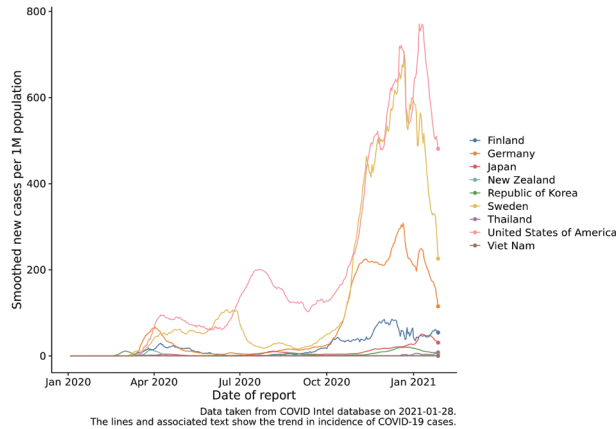
<sup>13</sup> World Health Organization COVID-19 Explorer. [www.worldhealthorg.shinyapps.io/covid/](http://www.worldhealthorg.shinyapps.io/covid/)

<sup>14</sup> Ministry of Interior. Open Data. Number of hospitals and hospital beds by region and province from BE 2557 to BE 2561 (in Thai). Available at <http://edw-opendata.moi.go.th/dataset/page/5eb0ae75554f7e67f65b3f741982c104d4ab330b841de>. Accessed on 9 May 2021.

### 3. Comparative Performance

#### 3.1. New Cases per 1 Million Population

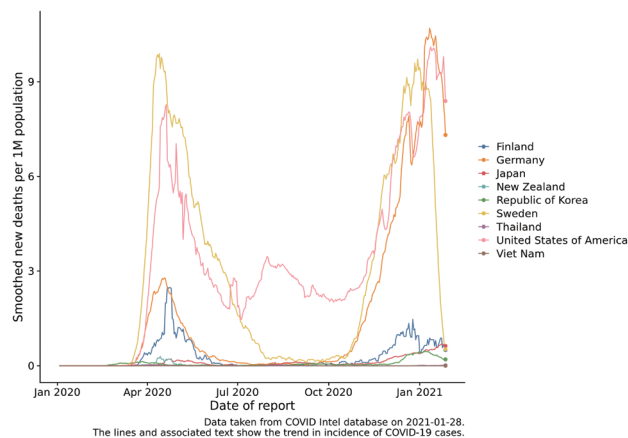
Figure 4-4. Cross Country Comparisons of New Cases per Million Population<sup>15</sup>



As Figure 4-4 illustrates, Thailand’s number of cases per 1 million population is very low compared to countries such as Finland, Germany, Sweden, and the United States.

#### 3.2. New Deaths per 1 Million Population

Figure 4-5. Cross Country Comparisons of New Deaths per Million Population<sup>16</sup>



15 World Health Organization, 2021, WHO COVID-19 Explorer. <https://worldhealthorg.shinyapps.io/covid/>

16 World Health Organization, 2021, WHO COVID-19 Explorer. <https://worldhealthorg.shinyapps.io/covid/>



Figure 4-5 also shows the relatively very low number of deaths per 1 million in Thailand when compared to other countries such as Finland, Germany, Sweden, and the United States.

### 3.3. Daily COVID-19 Tests per Thousand People

**Figure 4-6. Cross Country Comparison of Daily COVID-19 Tests per Thousand People<sup>17</sup>**

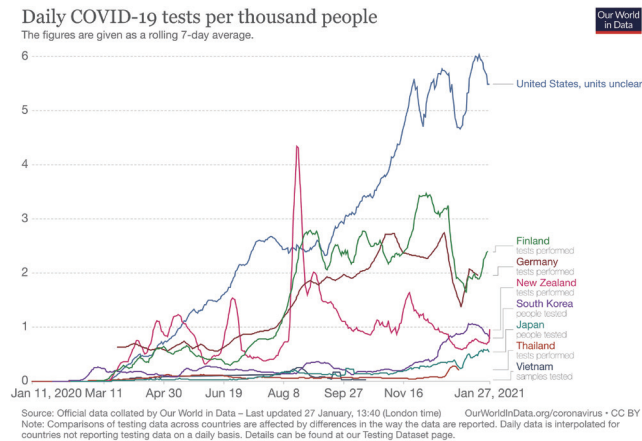


Figure 4-6 above depicts Thailand has the lowest number of tests performed per thousand people compared to other countries such as Finland, Germany, South Korea, and Japan. Vietnam's is one of the countries that has tested less per population than Thailand. The Thai government's test strategy was to allow test only for people that showed symptoms or those that came in close contact with confirm cases. There was no open public testing (i.e. available to asymptomatic people).

<sup>17</sup> World Health Organization, 2021, WHO COVID-19 Explorer. <https://worldhealthorg.shinyapps.io/covid/>

### 3.4. Cumulative Confirmed COVID-19 Cases

Figure 4-7. Cross Country Comparison of Cumulative Confirmed COVID-19 Cases

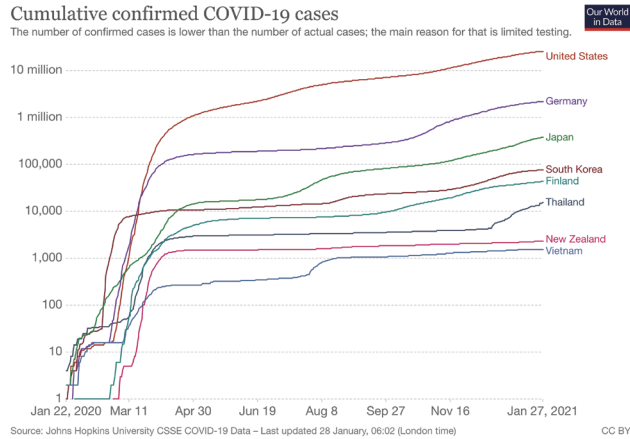


Figure 4-7 shows that Thailand follows the trend of the comparative countries of upward increase in the number of cases throughout 2020 and beginning of 2021. Thailand’s number of confirmed cases is higher than New Zealand and Vietnam. On the other hand it is lower than other countries such as the United States, Germany, Finland, Japan, and South Korea. It is important to note that the actual number of cases is probably higher for Thailand. But due to limited testing the number of confirmed cases is not high compared to other countries.

### 3.5. Case Fatality Rate (CFR) of the Ongoing COVID-19 Pandemic

Figure 4-8. Cross Country Comparison of Case Fatality Rate of the Ongoing COVID-19 Pandemic

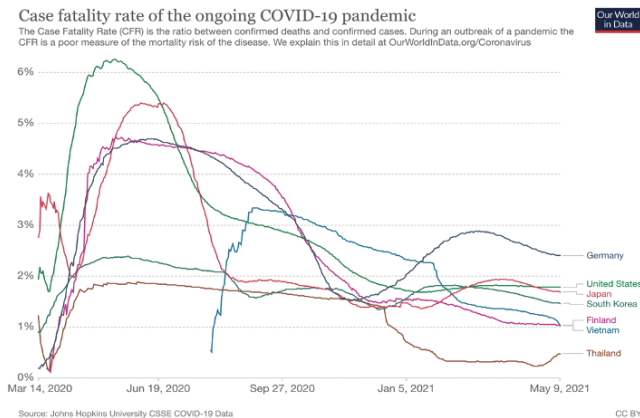


Figure 4-8 shows that relative to other countries Thailand experienced much lower case fatality rate. This could be due to the low number of testing. However there was no evidence (or at least no official media reporting) of unreported or unidentified deaths during the year of 2020.

### 3.6. Overall Comparative Performance

Overall Thailand has performed relatively well to manage the pandemic. The country has been praised by some rankings and indicators. On 25 July 2020, Thailand ranked first, best recovery from the COVID-19 outbreak by the Global COVID-19 Index (GCI). The country scored the Recovery Index of 81.55 out of 100.<sup>18</sup> However, the same ranking on 9 May 2021, Thailand's Recovery Index dropped to 56.95 marking the country's rank to be 64<sup>th</sup> out of 180 countries in the world.<sup>19</sup> Based on the same dashboard, Thailand's COVID-19 Severity Rating is number 2, and the score of Severity Index is 11.36. This means that Thailand is considered to be in the group of countries who are coping with the crisis with low percentage of the infections and resulting deaths per population.<sup>20</sup>

Thailand detected the first case of COVID-19 after China in January 2020. At the beginning it was considered a very high risk country. Yet, as the government took severe lockdown measures (see Figure 4-9) the situation was under control mostly throughout the year 2020. The country was marked down to 59<sup>th</sup> rank for risk of COVID-19.<sup>21</sup>

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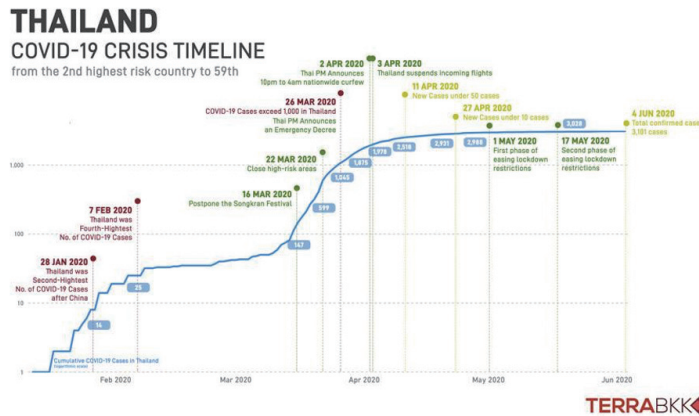
18 The Government Public Relations Department, 2020, Thailand Ranks First in the Global COVID-19 Recovery Index. [https://thailand.prd.go.th/ewt\\_news.php?nid=9902&filename=index](https://thailand.prd.go.th/ewt_news.php?nid=9902&filename=index)

19 The Global COVID-19 Recovery Dashboard. <https://covid19.pemandu.org/Thailand>. Accessed on 9 May 2021.

20 The Global COVID-19 Recovery Dashboard. <https://covid19.pemandu.org/Thailand>. Accessed on 9 May 2021.

21 TERRA BKK, 2020, Safe Haven: How Thailand outperformed other countries in combating COVID-19. <https://www.terrabkk.com/articles/198235/-full-safe-haven-how-thailand-outperformed>. Accessed on 1 August 2020.

Figure 4-9. Thailand’s Early COVID-19 Crisis Timeline

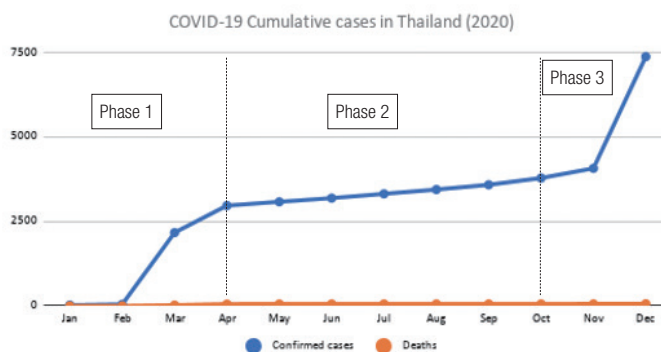


Overall, based on Lowy Institute’s ranking, Thailand ranked 4<sup>th</sup> in the average performance over time of countries in managing the COVID-19 pandemic in the 36 weeks following their hundredth confirmed case of the virus.<sup>22</sup> Last but not least, as of May 2021, Thailand is experiencing its fourth phase of the pandemic. It is yet unknown how the country will fare this time around.

#### 4. Policy Responses to COVID-19 in Key Phases

This section provides description and analysis of policy responses according to phases of the pandemic in Thailand.

Figure 4-10. Phases of the Pandemic in Thailand

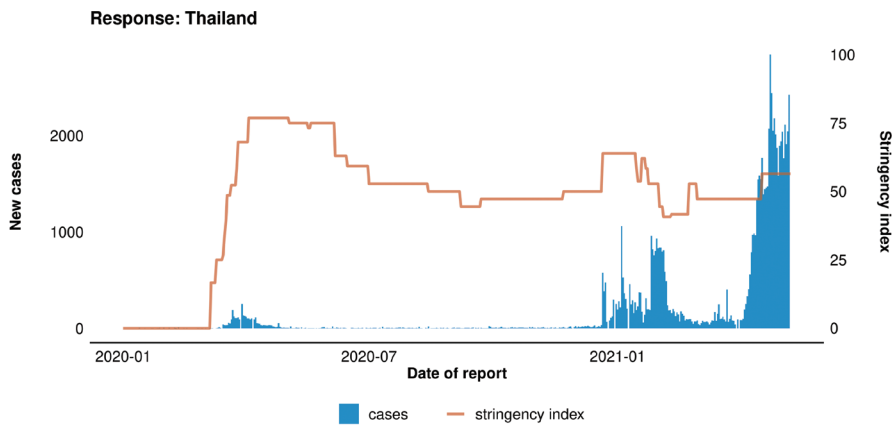


<sup>22</sup> Lowy Institute, Covid Performance - Lowy Institute. <https://interactives.lowyinstitute.org/features/covid-performance/>. Accessed on 9 May 2021

In 2020, there are three key phases of the pandemic in Thailand. The first is between January to April 2020. The second is May to October 2020. The third is November 2020 to April 2021. There is a spike of cases in March 2021 onwards (to the time of writing this chapter, which is May 2021). For comparative purposes this chapter will focus on these three phases in Thailand.

The Figure 4-11 below depicts the level of stringency practiced by the Thai government over time. We can see that the Thai government started to use very stringent policies and measures in the very beginning of the pandemic. Gradually the level of stringency was adjusted and became relatively lower than the beginning of the pandemic over time.

**Figure 4-11. Thailand's New Cases and Stringency Index Over Time<sup>23</sup>**



Source: Oxford Coronavirus Government Response Tracker

<sup>23</sup> The Oxford COVID-19 Government Response Tracker (OxCGRT). The nine metrics used to calculate the Stringency Index are: school closures; workplace closures; cancellation of public events; restrictions on public gatherings; closures of public transport; stay-at-home requirements; public information campaigns; restrictions on internal movements; and international travel controls. Available at <https://ourworldindata.org/covid-government-stringency-index>. Accessed on 9 May 2021.

For more information see <https://www.bsg.ox.ac.uk/research/research-projects/covid-19-government-response-tracker>.

Figure 4-12. Comparing Stringency Index with Selected Countries

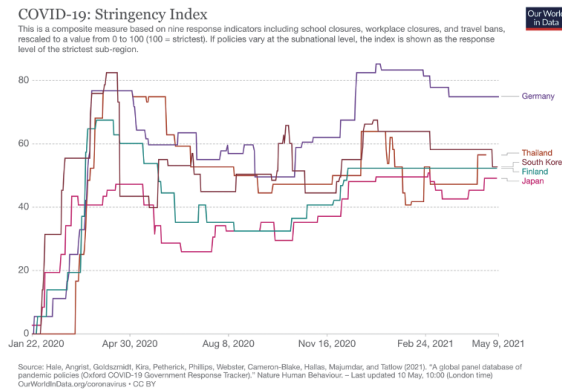
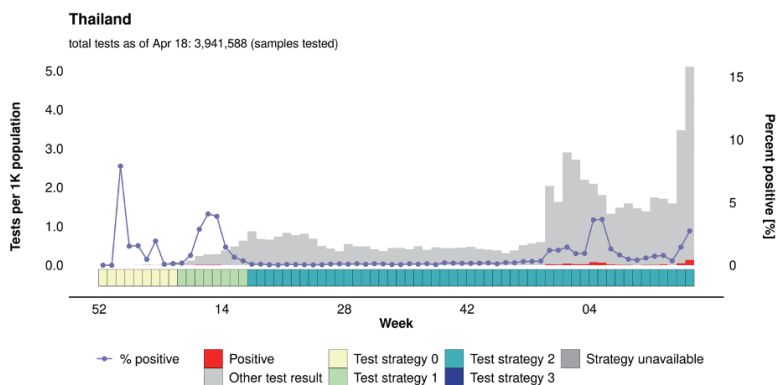


Figure 4-12 above highlights that compared to countries such as Finland and Japan, Thailand practiced more stringent policies and measures. But less than Germany and about the same level as South Korea. There are differences between countries based on the fluctuations of the number of confirmed cases. From May 2020 to November 2020, most countries, including Thailand relaxed its policies and measures.

Figure 4-13. Shifts in Testing Strategy Throughout the Phases<sup>24</sup>



The Figure 4-13 above depicts how the Thai government shifted its testing strategies from strategy 0 (no testing strategy) to 1 (only testing those with symptoms and fit a certain criteria) and then to 2 (anyone showing symptoms).<sup>25</sup>

<sup>24</sup> World Health Organization COVID Explorer. <https://worldhealthorg.shinyapps.io/covid/>

<sup>25</sup> Based on testing strategy categories by World Health Organization. 0 = No testing strategy; 1 = Only those who both (a) have symptoms and (b) meet specific criteria; 2 = Anyone showing symptoms; 3 = Open public testing (i.e. available to asymptomatic people).

## 4.1. First Phase (January to April 2020)

During the first phase of the pandemic, the first strands of the virus were found in Thailand and the government was trying to make sense of the problem. It opted for rather severe lockdown policies from the start of the pandemic. The Thai government executed the following measures.

January 2020:

- (a) temperature scanning

February 2020:

- (b) refusal of entry for some overseas visitors;
- (c) those who entered are screened at all ports

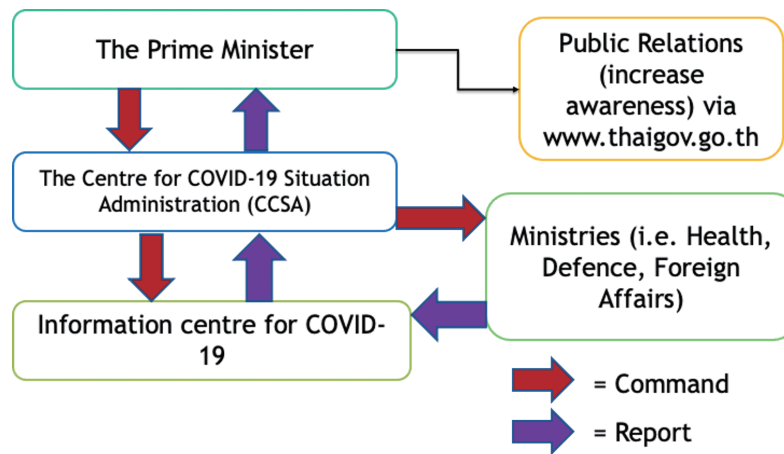
March 2020: A plateau of cumulative cases & untraceable origin

- (d) travellers from ‘infected zones’ are subjected to quarantine
- (e) lockdown of key public places
- (f) school closures
- (g) work from home
- (h) Emergency Decree
- (i) Rao Mai Ting Gun ( ราชอาณาจักร )

April 2020: Fewer cases

- (i) curfew
- (j) suspension of international commercial flights
- (k) cancellation of Songkran Festival, which is the most important holiday for Thais

During this first phase, on 10 March 2020 the government set up the Center for COVID-19 Situation Administration (CCSA), which became the main body for decision-making and communication on the COVID-19 throughout the pandemic. The agency reported directly to the Prime Minister and coordinated with the relevant line ministries.



In this phase the government, due to lack of experience, made several mistakes. The government failed to prevent shortages of surgical masks and issued inconsistent policy over international travel and quarantine measures resulting in contradicting measures implemented by government units.<sup>26 27</sup> Later on, this was rectified, and state quarantine measures were clearly designed.

The government began designing mobile applications for contact tracing and provision of financial subsidies. This was the beginning of numerous packages for rescue and recovery. It was also the government's goal to accelerate digital literacy and adoption of mobile technology among the population. Through these programs the government began collecting real-time big data on the Thai population.

## 4.2. Second Phase (May to October 2020)

During the second phase the cases were under control thus the government eased travel and lockdown strictions.

May 2020: New cases dropped to near zero

- (a) Easing of domestic travel restriction
- (b) Launching of 'Thai Chana'

<sup>26</sup> *Kon thai nai tangdean fong sarnpokkrong sang yokleuk bai Fit to Fly* [Thais living abroad file petition with Administrative Court to rescind fit-to-fly order]. BBC Thai (in Thai). 27 March 2020.

<sup>27</sup> *Meun kortormor yokleuk khao pid hang 22 wan* [Confusion ensues as Bangkok authorities "cancel" news release of 22-day mall shutdown]. Thansettakij (in Thai). 21 March 2020. Retrieved 29 March 2020.



June 2020:

- (c) Curfew lifted

July 2020:

- (d) Extension of emergency decree
- (e) Rao Tiew Duay Kan (เราเที่ยวด้วยกัน)

August 2020:

- (f) Extension of emergency decree (more to curb political protests)
- (g) Loosen restrictions

September 2020:

- (h) 'Relaxed' New norm

October 2020:

- (i) Special Tourist Visa program
- (j) Kon La Kreung (คนละครึ่ง)

During this phase there was better coordination from the national level down to provincial and local levels of governance. At the national level, advised by CCSA, the Prime Minister issues nationwide policies and measures. At the provincial level, the authority lies with provincial governors (appointed career bureaucrats from the ministry of interior). Governors usually follow guidelines from the central government with some minor adaptations to fit the local context. At the very community and village level, the community health workers (semi-volunteers financed by the government) play vital roles to communicate and surveil community members.

### **4.3. Third Phase (November 2020 to April 2021)**

During the third phase, Thailand faces the second wave of COVID-19. Based on lessons learned the government uses more targeted lockdown measures, customized responses in each location, and softer tones of communication. As of April 2021, different variants are found in Thailand, big cities build field hospitals to handle the rapid increase in the number of confirm cases.

November 2020: Mae Sai cases

- (a) Quarantine for those in contact with Mae Sai cases

December 2020: Clusters are found

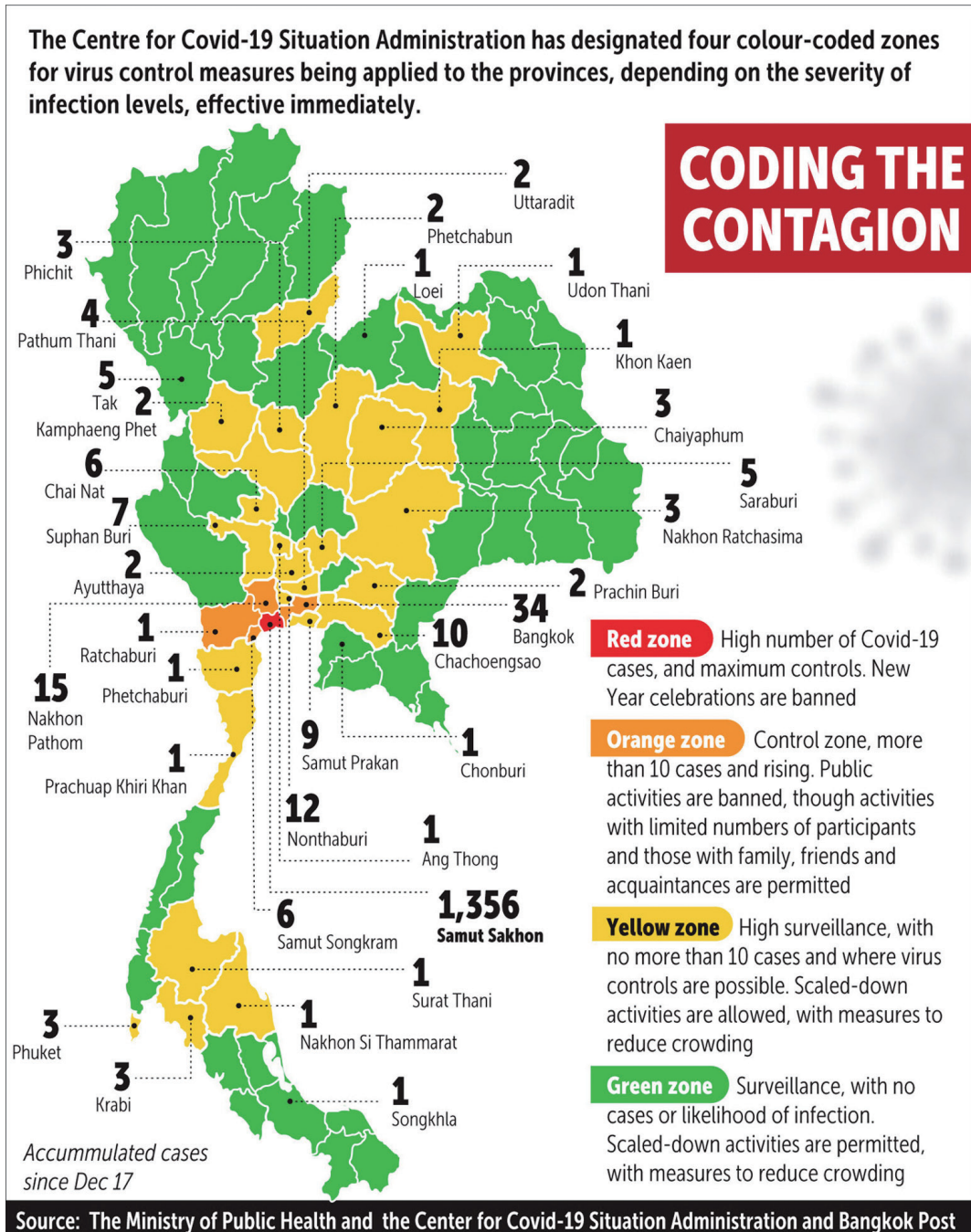
- (b) School closures
- (c) Lockdown
- (d) School Closures
- (e) Curfew
- (f) Emergency decree

January 2021 – April 2021: Cases rapid increase

- (g) targeted lockdowns in specific provinces
- (h) contact tracing in full operation
- (i) continue school closures
- (j) work from home
- (k) fines and arrests for not wearing masks

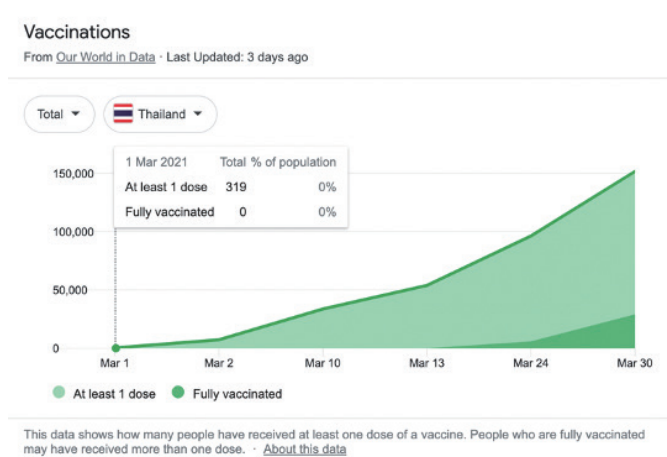
During this phase the government began to code provinces by colors to illustrate the stringent levels of lockdown measures (see Figure 4-14 below). The general population has learned enough about the dos and don'ts regarding COVID-19. Thus, it became feasible to customize responses based on location and target population. And not have to rely on a one-size-fits all measure for the whole country.

Figure 4-14. Four Color-coded Zones in Thailand<sup>28</sup>



<sup>28</sup> Bangkok Post, 2020, Ban on mass gatherings. <https://www.bangkokpost.com/thailand/general/2040775/ban-on-mass-gatherings>

## 4.4. Vaccine Issues



Thailand is the first country outside China that COVID-19 arrived; however, the kingdom's infection rate and death tolls remain one of the lowest in the world. There are only two significant upsurges in March and late December 2020 which are mostly non-fatal thanks to the imposition of lockdown and quarantine measures. Though Thailand suffers less from the loss of lives, its stagnant economy became a main victim of COVID-19. Hence, for Thailand, COVID-19 vaccines are not only seen as an antidote to pandemic but also as a cure to its dying economy.

Comparing to other countries, Thailand is relatively slow in importing and manufacturing the vaccines. It took Thailand over a year period to acquire the first lot of vaccines on its soil. As of March 2021, only vaccines from AstraZeneca, Sinovac, and Johnson & Johnson are approved for domestic usage, yet there is a plan to include locally-made Siam Bioscience's AstraZeneca and Thailand-developed vaccines from Chulalongkorn and Mahidol University soon after Thailand's AstraZeneca is accepted. The procurement of COVID-19 vaccines has brought a number of controversies, one of that is Siam Bioscience, the Crown Property Bureau-owned company, has caused a delay towards full vaccination since it has a monopoly in technology transfer and manufacturing AstraZeneca shots for sale in ASEAN. Commenting on this issue also risks *lèse-majesté* charges. Furthermore, vaccines from Chulalongkorn and Mahidol University are also scheduled to be tested on human amidst concerns on safety.

Sinovac vaccines, nevertheless, account for a majority of COVID-19 doses in Thailand. On 1 April 2021, 800,000 doses of Sinovac are distributed across the country under the 'Triangle Protocol': Risky Area, Readiness of the Setting (location where vaccinations take place), and Data through the usage of Mho Prom LINE tracking platform. The destinations to where the vaccines reach first are sorted by three criteria: Highest Restricted Area (Samut Sakhon); Restricted Area (Western Bangkok, Pathum Thani,

Nonthaburi, Samut Prakran, Mae Sot district, Nakhon Pathom, Samut Songkram, and Ratchaburi); Economic and Social Promotion Area (Chon Buri, Phuket, Surat Thani, and Chiang Mai). Nonetheless, Sinovac, doses made from dead virus, are conditioned to be only used with a population aged from 18 to 59 despite its largest pile of stock. This also means that AstraZeneca and incoming Johnson & Johnson vaccines would be more likely to be used among all ages. So far, eldest members of the cabinet and population of Samut Sakhon got injected by AstraZeneca while Sinovac goes to the rest.

## 5. Key Features of Thailand's Performance

The main features of Thailand during 2020's COVID-19 pandemic that explains its policy responses and results is investigated by dividing into four features of culture, politics, health system, and policy values. By way of presentation it can be summarized as the 4 Cs: 1) cultural aspects related to social distancing and values of health; 2) centralized government and the political climate; 3) community health workers and the health system; and 4) consensus on the science of health issues.

### 5.1. Cultural Aspects

The first feature comprises several aspects of the Thai culture. The first aspect is that most Thais value health over other important things in society. There is little debate about the need to save lives and protect people's health.<sup>29</sup> Furthermore, Thais in general have great respect for medical doctors and tend to believe in doctors' advice. Thus when told to wear masks, wash hands, and keep physical distance by doctors, many Thais followed the advice from the start.<sup>30</sup> Needless to say, in every society, there would be pockets of non-compliance people. Reasons for not complying include not knowing information, not taking the advice seriously, not believing the information, and not knowing which information to believe. These are the target groups that require specific policy communication tactics and messaging in order to be successful at getting accurate information across and accepted. For the general public in Thailand, there did not seem to be many misunderstandings about the virus, how it spreads, and the symptoms. This is unlike some countries where high-volumes of fake news and conspiracy theories proliferated.

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29 Having said this there are scholars and activists that request more nuanced analysis of the trade-offs with lockdown measures between public health, private health, and economic health. For instance, see Boosabong P., Chamchong P. (2020). Coping with COVID-19 in a non-democratic system: Policy lessons from Thailand's centralised government. *International Review of Public Policy* 2:3, p.358-371. <https://doi.org/10.4000/irpp.1382>

30 Bello, Walden (2020). "How Thailand Contained COVID-19". *Foreign Policy In Focus*.

The way Thais greet, by putting ones two hands together at the chest or chin level, is the second cultural factor that might be an explanation for the relatively low levels of the virus spread. This is as oppose to other cultures where people shake hands, give hugs, and kiss hands, forehead, cheeks, and lips. This aspect covers not just the way Thais greet but also how Thais normally do not hug, kiss, hold hands, give pecks on cheeks, and other physical gestures in public. Nevertheless, compared to East Asia nations like Japan, the act of wearing a surgical mask is new for Thais. The exception would be in the Northern part of the country where prior to the pandemic people suffered from seasonal air pollution (PM2.5) for at least 5-10 years. Thus some were already accustomed to wearing face masks.

## **5.2. Centralized Government and the Political Climate**

Thailand follows the constitutional monarchy system and is a unitary state. The current Thai government is highly centralized. After the most recent coup on 22 May 2014 the military took over and the 2017 constitution was promulgated. The current constitution strengthens the military's power in politics through appointed Senate members and oversight administrative bodies, such as the constitution court and the anti-corruption commission. Many critics observe the unfairness of the constitution and election laws, including the law to follow a national 20 year plan that is drafted by the military-backed regime. In 2016, Thailand went through its transition from the reign of Rama 9 to Rama 10. It is perceived that the military and related elite class has interest to maintain stability and power during and after this transition, hence the unlawful interventions observed. In sum, Thailand has 'relapse into dictatorial administrative structures, political attitudes, and the military-led alliances' that resembled the past before 1990s.<sup>31</sup>

Against this backdrop, during the pandemic the Thai government has used traditional public policy and administrative tools to curb and control the pandemic. They are such as top-down orders from the central government to restrict movements, control of prices, shut down facilities, and other lockdown measures. Directly reporting to the Prime Minister, Thailand's Centre for COVID-19 Situation Administration (CCSA) was setup to tackle the pandemic. To manage the lockdowns, the military extensively used the Emergency Decree on Public Administration in Emergency Situations 2005, rather than the more appropriate Contagious Disease Control Act 2015.<sup>32</sup> This gave extra power to security and military personnel and it curbed people's rights to assemble. There was little room for local governments, civil society, and the private sector to play formal roles in the policies to curb

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31 Sopranzetti, C. (2016). Thailand's Relapse: The Implications of the May 2014 Coup. *The Journal of Asian Studies*, 75(2), 299-316. doi:10.1017/S0021911816000462

32 Piyapong Boossabong and Pobsook Chamchong, "Coping with COVID-19 in a non-democratic system: Policy lessons from Thailand's centralised government", *International Review of Public Policy*, 2:3 | 2020, 358-371.

the virus. There were strict media and social media control for anti-monarch sentiments. This in turn helped to curb political protests that was on the rise and curbed fake news related to COVID-19.

In contrast, countries such as New Zealand, which is also a unitary state, practiced top-down centralized policies but it was with care and empathy. The state used the right laws, levels of strictness, and empathetic communication to gain acceptance from citizens. Thai military leaders often used threats, blame, and shame tactics to control the public's behaviour, in addition to fines and arrest warrants. In sum, Thailand's political and administrative features were highly centralized with high vertical coordination but lacked empathy. This feature worked for both controlling the virus and political opponents. However, in the longer-term this is not healthy for democratic development nor is it healthy for economic recovery for a more equitable society.

### 5.3. Community Health Workers (CHWs)

The role of community health workers (CHWs) is very important in Thailand's public health system. They are volunteers that are close to 'private street-level bureaucrats' or 'quasi-bureaucrats'.<sup>33</sup> They receive a small stipend of 1,000 baht from government (about US\$32) and are trained and govern centrally by the Ministry of Public Health. The current number is approximately 1.04 million volunteers. They were set up since 1970s thus has long history in the administrative structure of local level communities around the country. They have been praised as 'unsung heroes' for successfully tackling HIV, SARs, and now COVID-19.<sup>34</sup> They fill in the gaps of inadequate doctors and nurses in the country. During the pandemic they fulfil the tasks of collecting data, contact tracing, health screening and monitoring community members, answering queries from citizens, and providing accurate information. This is in addition to solving immediate problems like shortage of masks and alcohol, delivering food, and drugs to patients or those under quarantine.<sup>35</sup> Prior to the pandemic they focused on primary health care and disease prevention campaigns (i.e. dengue, rabies, malaria). Due to the fact that these community health workers are also community members, they are likely

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33 Tatchalerm Sudhipongpracha & Ora-Orn Poocharoen (2021) Community Health Workers as Street-level Quasi-Bureaucrats in the COVID-19 Pandemic: The Cases of Kenya and Thailand, *Journal of Comparative Policy Analysis: Research and Practice*, 23:2, 234-249, DOI: 10.1080/13876988.2021.1879599

34 Montira Narkvichien (28 August 2020). Thailand's 1 million village health volunteers - "unsung heroes" - are helping guard communities nationwide from COVID-19. World Health Organization. Available at <https://www.who.int/thailand/news/feature-stories/detail/thailands-1-million-village-health-volunteers-unsung-heroes-are-helping-guard-communities-nationwide-from-covid-19>. Accessed on 9 May 2021.

35 Tejativadhdhana, P., Suriyawongpaisal, W., Kasemsup, V., & Suksaroj, T. (2020, September). The roles of village health volunteers: COVID-19 prevention and control in Thailand. *Asia Pacific Journal of Health Management*. Australasian College of Health Service Management. <https://search.informit.org/doi/10.3316/informit.307816703811916>



to be trusted and welcomed by locals. Overall, this key feature has to do with the long-term focus of preventive medicine in Thailand's public health system, which has been the country's strength.<sup>36</sup>

#### **5.4. Consensus on Health Issues**

The last key feature in the Thai context is the high-level of consensus on health issues. There were limited debates and arguments regarding the health threat of COVID-19. The anti-government rallies were focused on political issues, as mentioned above. None were directly about COVID-19 measures. This is in contrast to other countries where people demonstrated against lockdown and social distancing measures. Moreover, unlike the United States and some countries in Europe, Thais are much less concerned with 'human rights' or 'liberty rights' with regards to lockdown measures or wearing masks. Thailand's lockdown measures were led by technocrats, specifically medical experts who are backed by military-led government. The financial handouts, subsidies, and recovery packages were designed and decided by politicians and financial technocrats. The execution of the quarantine measures was led by ministry of health and ministry of defence, in addition to provincial governors from the ministry of interior. Thus, aligned with being a highly centralized state and Thai culture towards medical doctors, the work of medical doctors and other technocrats were not contested.

#### **5.5 Lessons for Other Countries**

Based on these four Cs, the authors would like to offer the following two lessons for other countries. First centralized response is key but could be long term obstruction of democratic development. In addition, digital platforms provide opportunities to streamline services and consolidate data. At the same time, there is also the threat of control and autocratizing further. Second, community-level health volunteers is a model worth exploring for countries with inadequate health professionals. Also it is beneficial to mainstream health information to communities through these knowledge individuals.

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<sup>36</sup> Abuza, Zachary (2020). "Explaining Successful (and Unsuccessful) COVID-19 Responses in Southeast Asia". The Diplomat.



Chapter

# 05

International Comparative Analysis of COVID-19 Responses

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## **Beyond Regime Types: Local Governance, Bureaucratic Coordination, and COVID-19 Responses in Vietnam**

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## Chapter 5. Beyond Regime Types: Local Governance, Bureaucratic Coordination, and COVID-19 Responses in Vietnam

Trang (Mae) Nguyen<sup>1</sup>, Assistant Professor of Law, Temple University Beasley School of Law

### Abstract

As of year-end 2020, Vietnam, the fifteenth-most populous country in the world, with 96 million people and extensive borders with China, has reported just under 1,500 confirmed cases of COVID-19 and 35 deaths. According to public health data from John Hopkins University, which has been tracking COVID outbreaks worldwide, Vietnam's single-party state was, by 2020, the second safest place on earth when it comes to the pandemic, just behind Taiwan, and about 3,000 times less deadly than either the United States or the United Kingdom. Having earned high praise for its pandemic response, Vietnam was one of the first countries able to ease social distancing measures and reopen its society, ahead of many more developed peers. The effective public health response further enabled quicker economic recovery. The World Bank, for example, forecasted that Vietnam was among a rare group of countries that managed to experience positive economic growth in 2020.

A nondemocratic regime and a developing country, Vietnam's effective pandemic response was a surprise to many. Commentators have attributed its success to a host of factors, including the government's early actions to close schools and borders, extensive contact tracing and mass quarantine, past experience with SARS and MERS, and coercive and surveillance measures. A puzzle, however, still remains: What enables compliance with these restrictive measures in a single-party state that is otherwise notorious for difficulty in rule enforcement?

In this chapter, I argue that Vietnam's effective response is enabled by the country's ongoing efforts to improve governance and central-local government policy coordination. The strength of its state capacity was not born overnight but resulted from decades-long efforts to improve governance and responsiveness at local levels. Vietnam's story thus moves beyond the simple distinction of regime type to challenge us to think deeper about bureaucratic capacity and responsiveness within all forms of government.

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<sup>1</sup> Assistant Professor of Law, Temple University Beasley School of Law. I thank the Korean Development Institute School of Public Policy and Management and Yonsei University, particularly Dean M. Jae Moon and Professor Dongyoung Kim, for their support and invitation to join this project.

# 1. Introduction

As of year-end 2020, Vietnam, the fifteenth-most populous country in the world, with 96 million people and extensive borders with China, has reported just under 1,500 confirmed cases of COVID-19 and 35 deaths.<sup>2</sup> According to public health data from John Hopkins University, which has been tracking COVID outbreaks worldwide, Vietnam's single-party state was, by 2020, the second safest place on earth when it comes to the pandemic, just behind Taiwan, and about 3,000 times less deadly than either the United States or the United Kingdom.<sup>3</sup> Having earned high praise for its pandemic response, Vietnam was one of the first countries able to ease social distancing measures and reopen its society, ahead of many more developed peers.<sup>4</sup> The effective public health response further enabled quicker economic recovery. The World Bank, for example, forecasted that Vietnam was among a rare group of countries that managed to experience positive economic growth in 2020.<sup>5</sup>

A nondemocratic regime and a developing country, Vietnam's effective pandemic response was a surprise to many. Commentators have attributed its success to a host of factors, including the government's early actions to close schools and borders, extensive contact tracing and mass quarantine, past experience with SARS and MERS, and coercive and surveillance measures.<sup>6</sup> A puzzle, however, still remains: What enables compliance with these restrictive measures in a single-party state that is otherwise notorious for difficulty in rule enforcement?<sup>7</sup>

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2 Johns Hopkins University of Medicine, Coronavirus Resource Center, <https://coronavirus.jhu.edu> (last visited Feb. 1, 2021). For practical purposes, the analysis in this chapter generally pertains to the situation in Vietnam as of December 31, 2020. More recent developments, where relevant, are noted with particular dates.

3 *Id.* (last visited Feb. 1, 2021). To put this in perspective, according to data from the International Monetary Fund, Vietnam's per capital GDP in 2019 was \$2,740 (ranked 136<sup>th</sup> out of 193 countries), almost ten times poorer than Taiwan's \$24,828 (ranked 39<sup>th</sup>). See International Monetary Fund, IMF Data, <https://www.imf.org/en/Data> (last visited Feb. 1, 2021). The Polity IV database, a commonly used measure in political science which rates countries from 10 (full democracy) to -10 (full autocracy), consistently placed Vietnam in the nondemocratic spectrum. See Center for Systemic Peace, The Polity Project, <https://www.systemicpeace.org/polityproject.html> (last visited Feb. 1, 2021).

4 For praises on Vietnam's pandemic response, see generally Trang (Mae) Nguyen and Edmund Malesky, *Reopening Vietnam: How the country's improving governance helped it weather the COVID-19 pandemic*, Brookings Institution, <https://www.brookings.edu/blog/order-from-chaos/2020/05/20/reopening-vietnam-how-the-countrys-improving-governance-helped-it-weather-the-covid-19-pandemic/> (May 5, 2020); Sean Fleming, *Viet Nam shows how you can contain COVID-19 with limited resources*, World Economic Forum, <https://www.weforum.org/agenda/2020/03/vietnam-contain-covid-19-limited-resources/> (Mar. 30, 2020); Sang Minh Le, *Containing the coronavirus (COVID-19): Lessons from Vietnam*, World Bank Blogs, <https://blogs.worldbank.org/health/containing-coronavirus-covid-19-lessons-vietnam> (Apr. 30, 2020).

5 World Bank, Vietnam Overview, <https://www.worldbank.org/en/country/vietnam/overview> (last visited March 15, 2021).

6 See *supra* note 4.

7 For an example of Vietnam's struggle with enforcement issues, see Edmund Malesky & Markus Taussig, *Participation, Government Legitimacy, and Regulatory Compliance in Emerging Economies: A Firm-Level Field Experiment in Vietnam*, *American Political Science Review* 113, no. 2 (2019): 530–51.

In this chapter, I argue that Vietnam's effective response is enabled by the country's ongoing efforts to improve governance and central-local government policy coordination. The strength of its state capacity was not born overnight but resulted from decades-long efforts to improve governance and responsiveness at local levels. Vietnam's story thus moves beyond the simple distinction of regime type to challenge us to think deeper about bureaucratic capacity and responsiveness within all forms of government.

## 2. Vietnam's Pandemic Response: Mass Mobilization and Unprecedented Transparency

This section summarizes Vietnam's regulatory responses to the COVID-19 pandemic and highlight two central features of its regulatory narrative: mass mobilization of civil society and unprecedented transparency from the Party-State.

Vietnam discovered its first COVID-19 cases, at a time the disease was still unnamed, in late January 2020, just days before the Lunar New Year.<sup>8</sup> Six days later, Vietnam's Prime Minister Nguyễn Xuân Phúc issued a directive declaring "fighting the epidemic is fighting the enemy" ("*chống dịch như chống giặc*").<sup>9</sup> Vietnam was the second country affected by SARS, after China, in 2003.<sup>10</sup> This experience made Vietnam wary of developments in Wuhan, especially as the Lunar New Year triggered waves of cross-border travel by migrant workers and tourists.<sup>11</sup> Referred to as the "Tet offensive of 2020," the call to arms against COVID-19 evoked an ethos of patriotism and sacrifice that characterized the country's long decades of warfare.<sup>12</sup> Without South Korea's widespread testing<sup>13</sup> or Taiwan's highly developed healthcare system,<sup>14</sup> Vietnam's so-called "low-cost" method hinges on

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8 Lan T. Phan et al, Importation and Human-to-Human Transmission of a Novel Coronavirus in Vietnam, *New England Journal of Medicine* 382:872-874 (2020).

9 Office of the Government, Directive 05/CT-Ttg on Preventing, Combatting the Respiratory Disease Caused by a New Strain of the Coronavirus, Jan. 28, 2020.

10 World Health Organization, Severe Acute Respiratory Syndrome (SARS) - Multi-country outbreak Update 39 (Apr. 25, 2003), [https://www.who.int/csr/don/2003\\_04\\_25/en/](https://www.who.int/csr/don/2003_04_25/en/).

11 *Vietnam to stop issuing visas for Chinese tourists over coronavirus concerns*, Reuters, <https://www.reuters.com/article/us-china-health-vietnam-visa/vietnam-to-stop-issuing-visas-for-chinese-tourists-over-coronavirus-concerns-idUSKBN1ZT203> (Jan. 30, 2020).

12 NPR, *In Vietnam, There Have Been Fewer Than 300 COVID-19 Cases And No Deaths. Here's Why*, <https://www.npr.org/sections/coronavirus-live-updates/2020/04/16/835748673/in-vietnam-there-have-been-fewer-than-300-covid-19-cases-and-no-deaths-heres-why> (Apr. 16, 2020).

13 Max Fisher & Choe Sang-Hun, *How South Korea Flattened the Curve*, *New York Times* (Apr. 10, 2020).

14 Wen-Chen Chang, *Taiwan's Fight against COVID-19: Constitutionalism, Laws, and the Global Pandemic*, *Verfassungsblog on Matters Constitutional*, <https://verfassungsblog.de/taiwans-fight-against-covid-19-constitutionalism-laws-and-the-global-pandemic/> (Mar. 31, 2020).

the Party-State's ability to track and quarantine potentially infectious individuals before COVID-19's spread could overwhelm the country's already-crowded hospitals.<sup>15</sup>

In praising Vietnam's actions, the World Economic Forum noted the government's "proactive efforts"<sup>16</sup> including once-controversial measures such as early school closures,<sup>17</sup> mass quarantines,<sup>18</sup> and border closings.<sup>19</sup> After China, Vietnam became the second country to implement forced quarantine, both locally and centralized.<sup>20</sup> Provincial authorities were allowed to seal off whole geographic areas and quarantine travelers from other provinces.<sup>21</sup> Suspected cases, whether due to international or domestic travels, can be sent to centralized military camps overseen by army personnel (all provided free of charge).<sup>22</sup> By the time the World Health Organization declared COVID-19 a pandemic in March 2020, an estimated 50,000 people had undergone quarantine in Vietnam, half of whom through centralized facilities.<sup>23</sup> In response to local outbreaks, the central government swiftly imposed a nationwide social distancing order and imposed fines on those who ventured outside without masks.<sup>24</sup>

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15 Suong Thi Thao Nguyen et al, *Waiting time in the outpatient clinic at a national hospital in Vietnam*, Nagoya Journal of Medical Science vol. 80,2 (2018): 227-239.

16 Sean Fleming, *Viet Nam shows how you can contain COVID-19 with limited resources*, World Economic Forum, <https://www.weforum.org/agenda/2020/03/vietnam-contain-covid-19-limited-resources/> (Mar. 30, 2020).

17 VOA News, *Vietnam Sharply Divided on Coronavirus School Closures*, <https://www.voanews.com/science-health/coronavirus-outbreak/vietnam-sharply-divided-coronavirus-school-closures> (Feb. 24, 2020).

18 James Pearson & Phuong Nguyen, *Vietnam quarantines tens of thousands in camps amid vigorous attack on coronavirus*, <https://www.reuters.com/article/us-health-coronavirus-vietnam-quarantine/vietnam-quarantines-tens-of-thousands-in-camps-amid-vigorous-attack-on-coronavirus-idUSKBN21D0ZU> (Mar. 26, 2020).

19 Tom O'Connor, *China's Neighbors Close Borders As Country's Coronavirus Cases Surpass Last Major Outbreak*, Newsweek, <https://www.newsweek.com/china-neighbors-close-borders-coronavirus-sars-1484978> (Jan. 30, 2020).

20 John Reed, *Vietnam's coronavirus offensive wins praise for low-cost model*, Financial Times, <https://www.ft.com/content/0cc3c956-6cb2-11ea-89df-41bea055720b> (Mar. 23, 2020).

21 South China Morning Post, *Coronavirus cases in Vietnam prompt mass quarantine of 10,000 people in Son Loi commune*, <https://www.scmp.com/news/asia/southeast-asia/article/3050443/coronavirus-cases-vietnam-prompt-mass-quarantine-10000> (Feb. 13, 2020); Minh Vu & Bich Tran, *Diplomat, The Secret to Vietnam's COVID-19 Response Success: A review of Vietnam's response to COVID-19 and its implications*, <https://thediplomat.com/2020/04/the-secret-to-vietnams-covid-19-response-success/> (Apr. 18, 2020).

22 Kai Nguyen, NPR, *Quarantined In Vietnam: Scenes From Inside A Center For Returning Citizens*, <https://www.npr.org/sections/pictureshow/2020/04/06/823963731/quarantined-in-vietnam-scenes-from-inside-a-center-for-returning-citizens> (Apr. 6, 2020); Sen Nguyen, South China Morning Post, *Coronavirus: life inside Vietnam's army-run quarantine camps*, <https://www.scmp.com/week-asia/health-environment/article/3076734/coronavirus-life-inside-vietnams-army-run-quarantine> (Mar. 24, 2020). For an example official guidance, see the Embassy of the Socialist Republic of Vietnam in the United States of America, *Guidance on the Implementation of Quarantine and Medical Precautions for Individuals Arriving in Vietnam from Regions Affected by COVID-19*, issued March 16, 2020, <http://vietnamembassy-usa.org/news/2020/03/guidance-implementation-quarantine-and-medical-precautions-individuals-arriving-vietnam> (last visited Feb. 15, 2021).

23 Pearson & Nguyen, *supra* note 17.

24 Office of the Government, *Viet Nam to go into 15-day nationwide social distancing to curb COVID-19*, <http://news.chinhphu.vn/Home/Viet-Nam-to-go-into-15day-nationwide-social-distancing-to-curb-COVID19/20203/39472.vgp> (Mar. 31, 2020); Ha Nguyen, *Vietnam Imposes Hefty Fines for Going Maskless*, VOA News, <https://www.voanews.com/science-health/coronavirus-outbreak/vietnam-imposes-hefty-fines-going-maskless> (Apr. 1, 2020).

Violations of COVID-19 regulations are punishable by criminal law. For example, a recent Supreme People's Court's guidance letter<sup>25</sup> interpreted the 2015 Penal Code<sup>26</sup> to include violations of quarantine regulations and business suspension orders. It also deemed the spreading of misinformation relating to the pandemic a criminal offense.<sup>27</sup> The Ministry of Public Security's local police offices have started prosecuting cases on allegations of fake news dissemination and quarantine violations.<sup>28</sup> In anticipation of looming economic effects, Prime Minister Phúc reiterated that "economic sacrifice" must be accepted to save lives.<sup>29</sup>

Central to Vietnam's regulatory response to COVID-19 has been the launching a mobilization campaign redolent of wartime exigency. Similar to China,<sup>30</sup> individuals and households are tasked with becoming the state's eyes and ears to detect infections and monitor quarantine violations.<sup>31</sup> Neighborhood committees (tổ dân phố)—a staple of socialist grassroots administration—act as a combination of state agents and community organizers.<sup>32</sup> Comprised usually of local Communist Party bureaucrats and retired army personnel, these committee members knock on doors to relay official policies, explain social distancing, collect households' health and travel history, and measure people's temperatures.<sup>33</sup> Mass civic organizations, once suffering from declining budgets,<sup>34</sup> have regained

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25 Judges' Council, Vietnam Supreme People's Court, Circular 45/TANDTC-PC on adjudicating criminal sanctions relating to the prevention of the COVID-19 pandemic, <https://www.toaan.gov.vn/webcenter/portal/tatc/chi-tiet-chi-dao-dieu-hanh?dDocName=TAND114227> (Mar. 30, 2020).

26 Vietnam 2015 Penal Code, 100/2015/QH13, <https://thuvienphapluat.vn/van-ban/trach-nhiem-hinh-su/Bo-luat-hinh-su-2015-296661.aspx>. An unofficial English translation can be found here: <https://www.wipo.int/edocs/lexdocs/laws/en/vn/vn086en.pdf>.

27 See Circular 45/TANDTC-PC, *supra* note 24.

28 Phuong Nguyen & James Pearson, Vietnam introduces 'fake news' fines for coronavirus misinformation, Reuters, <https://www.reuters.com/article/us-health-coronavirus-vietnam-security/vietnam-introduces-fake-news-fines-for-coronavirus-misinformation-idUSKCN21X0EB> (Apr. 15, 2020).

29 VietnamNews, *Vietnam willing to sacrifice economic benefits for public health*, <https://vietnam.vnnet.vn/english/vietnam-willing-to-sacrifice-economic-benefits-for-public-health-pm/439705.html> (Mar. 13, 2020).

30 Wang Wenwen, Neighborhood committees are in the vanguard of virus control, Global Times, <https://www.globaltimes.cn/content/1184356.shtml> (Mar. 31, 2020).

31 For example, see ThanhNien News, Hải Phòng thành lập tổ chống dịch Covid-19 từ cấp thôn [Hai Phong City organized units to combat COVID-19 from village level], <https://thanhnien.vn/thoi-su/hai-phong-thanh-lap-to-chong-dich-covid-19-tu-cap-thon-1201608.html> (undated).

32 Lao động thủ đô [Workers Magazine], *Khi tổ dân phố phát huy vai trò trong tuyến đầu chống dịch* [When neighborhood committees are activated to be on the front line against the pandemic], <http://laodongthudo.vn/khi-to-dan-pho-phat-huy-vai-tro-trong-tuyen-dau-chong-dich-106546.html> (Apr. 13, 2020).

33 Báo Điện Tử Đảng Cộng Sản Việt Nam [Vietnam Communist Party's Gazette], *Người dân chủ động phòng, chống dịch Covid-19* [Communities Proactively Prevent, Combat the Pandemic], <https://dangcongsan.vn/phong-chong-dich-covid-19/nguoi-dan-chu-dong-phong-chong-dich-covid-19-548887.html> (Feb. 21, 2020).

34 Vietnam Economic Times, *Budget for mass organizations becoming a burden*, <https://vneconomictimes.com/article/banking-finance/budget-for-mass-organizations-becoming-a-burden> (June 14, 2016).

new purposes through anti-coronavirus fundraising campaigns<sup>35</sup> and community outreach.<sup>36</sup> Notably, the Vietnamese leadership has called for unity and support from overseas Vietnamese immigrants,<sup>37</sup> many of whom fled Vietnam as refugees and remain critical of the Communist state—signaling the government’s view that the protection of national health should transcend political and ideological differences.

A second critical aspect of Vietnam’s response to COVID-19 is an unprecedented display of transparency. The Vietnamese leadership appears to have learned from China’s cover-up debacle<sup>38</sup> by taking a more open approach.<sup>39</sup> Notwithstanding its past record of heavy-handed internet censoring,<sup>40</sup> the regime has leaned heavily on social media sites such as Facebook and Twitter to keep netizens up to date on rapidly changing regulations and social programs relating to the pandemic.<sup>41</sup> The Office of the Government’s Facebook portal regularly publishes information about individual COVID-19 patients, including their initials, general locations, detailed timelines of their travels and whereabouts, actions taken to keep them isolated, and updates on their health. When news broke in early March 2020 about “Patient 17”—a positive case after over two weeks with no new infections nationwide—news outlets blasted videos and images of government trucks spraying disinfectants and closing down the patient’s neighborhood.<sup>42</sup> These information campaign facilitated contact tracing and boost public

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35 Vietnam News, Over \$12 million raised to support COVID-19 efforts, <https://vietnamnews.vn/society/653911/over-12-million-raised-to-support-covid-19-efforts.html> (Mar, 20, 2020).

36 ThanhNien News, Gõ cửa... để khai báo y tế [Knock on door to... report on medical forms], <https://thanhvien.vn/gioi-tre/go-cua-de-khai-bao-y-te-1197935.html> (undated); Kinh Tế Đô Thị [Urban Economy Magazine], Đoàn thanh niên phường Kim Liên tổ chức trắc nghiệm kiến thức dịch Covid-19 [Kim Lien District’s youth group organized a community quiz on pandemic prevention knowledge], <http://kinhtedothi.vn/doan-thanh-nien-phuong-kim-lien-to-chuc-trac-nghiem-kiem-thuc-dich-covid-19-380924.html> (Apr. 12, 2020).

37 ThanhNien News, Thủ tướng Nguyễn Xuân Phúc gửi thư tới cộng đồng người Việt Nam ở nước ngoài [Prime Minister Nguyen Xuan Phuc sent a message to Vietnamese communities abroad], <https://thanhvien.vn/thoi-su/thu-tuong-nguyen-xuan-phuc-gui-thu-toi-cong-dong-nguoi-viet-nam-o-nuoc-ngoai-1209446.html> (undated).

38 Nick Wadhams & Jennifer Jacobs, China Concealed Extent of Virus Outbreak, U.S. Intelligence Says, Bloomberg News, <https://www.bloomberg.com/news/articles/2020-04-01/china-concealed-extent-of-virus-outbreak-u-s-intelligence-says> (Apr. 1, 2020).

39 David Hutt, The Coronavirus Loosens Lips in Hanoi, Foreign Policy, <https://foreignpolicy.com/2020/04/15/coronavirus-vietnam-communist-party-hanoi/> (Apr. 15, 2020); Trien Le & Huy Nguyen, How Vietnam Learned From China’s Coronavirus Mistakes, The Diplomat, <https://thediplomat.com/2020/03/how-vietnam-learned-from-chinas-coronavirus-mistakes/> (Mar. 17, 2020).

40 Vietnam is ranked “Not Free” with a score of 24 out of 100 by Freedom House, a U.S.-based non-profit organization that publishes rankings of countries based on political freedom metrics. See *Vietnam*, Freedom House, <https://freedomhouse.org/country/vietnam/freedom-net/2019> (last visited Feb. 15, 2021).

41 The Vietnamese government maintains active Facebook and Twitter account. See *Thống Tin Chính Phủ* [Government News], <https://www.facebook.com/thongtinchinhhphu>; Vietnam Government Portal, <https://twitter.com/VNGovtPortal>.

42 VNExpress, *Vietnam confirms 17<sup>th</sup> Covid-19 patient*, <https://e.vnexpress.net/news/news/vietnam-confirms-17th-covid-19-patient-4065517.html> (Mar. 7, 2020); TuoiTre News, *Who have been in close contact with Vietnam’s 17th COVID-19 patient?*, <https://tuoitrenews.vn/news/society/20200307/who-have-been-in-close-contact-with-vietnams-17th-covid19-patient/53347.html> (Mar. 7, 2020).

confidence in the Party-State's capacity.<sup>43</sup> However, Vietnamese netizens have expressed divided opinions and concerns about privacy violations, bullying, and discrimination, especially when patients belong to vulnerable groups.<sup>44</sup>

### 3. The Long Road Towards Improved Governance

From legal and regulatory perspectives, this section explores what has enabled Vietnam's successful pandemic response.<sup>45</sup> As students of Vietnam well know, the implementation of central policies is anything but automatic. Rather, compliance is part of a carefully calibrated central-local relationship.<sup>46</sup> Mass mobilization of civil society and transparency in Vietnam's single-party state cannot be taken for granted. I argue that these features were the fruit of Vietnam's decade-long efforts to improve governance and responsiveness at local levels, and that this long-term effort is foundational in inducing compliance with restrictive pandemic measures.

First, Vietnam's efforts to professionalize its administrative state dated back to the 1986 reforms to open up its economy, cumulating in the mid-1990s with the Public Administration Reform program to overhaul the legal system and improve the public sector's performance.<sup>47</sup> Since 2007, with help from various international aid agencies, Vietnam launched several indices, including the Provincial Competitiveness Index and the Provincial Administrative Performance Index, where team of experts collected survey data from businesses and citizens around the country to rank provincial leaders based on measures such as transparency, competency, and responsiveness to business and public concerns.<sup>48</sup> Data from these indices show that Vietnamese provinces have made steady improvements in various

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43 Dalia Research, Global study about COVID-19: Dalia assesses how the world ranks their governments' response to the pandemic, <https://daliaresearch.com/blog/dalia-assesses-how-the-world-ranks-their-governments-response-to-covid-19/> (Mar. 20, 2020). The research finds that, out of 45 countries surveyed, Vietnam was ranked the top (at 62%) on the metric of doing "just the right amount."

44 Linh Pham, *Vietnam reports 67<sup>th</sup> Covid-19 case, linked to mass Muslim gathering in Malaysia*, Hanoi Times, <http://hanoitimes.vn/march-18-vietnam-reports-67th-case-linked-to-mass-muslim-gathering-in-malaysia-311398.html> (Mar. 18, 2020).

45 This section is adapted from a previous work published with the Brookings Institute. See Trang (Mae) Nguyen & Edmund Malesky, *Reopening Vietnam: How the Country's Improving Governance Helped It Weather the COVID-19 Pandemic*, Brookings Institution, <https://www.brookings.edu/blog/order-from-chaos/2020/05/20/reopening-vietnam-how-the-countrys-improving-governance-helped-it-weather-the-covid-19-pandemic/> (May 20, 2020).

46 For an example of how central-local power is carefully allocated in Vietnam, see Edmund Malesky, *Straight Ahead on Red: How Foreign Direct Investment Empowers Subnational Leaders*, *Journal of Politics* vol. 70, no. 1 (2008).

47 Dao Minh Chau, *Administrative Reform in Vietnam: Need and Strategy*, *Asian Journal of Public Administration*, 19:2, 303-320 (1997).

48 For details about the rankings, see Vietnam Provincial Competitiveness Index, <https://www.pcivietnam.vn/>; Vietnam Provincial Administrative Performance Index, <http://papi.org.vn/eng/bao-cao/>.



public service measures, including healthcare, information access, and corruption control.<sup>49</sup> Notably, access to health insurance has grown rapidly over time, with 90% of Vietnamese citizens insured today.<sup>50</sup> Additionally, hospital quality has improved continuously at the same time that demands for hospital bribes have declined. Taken together with the government's policy to cover the cost of mass quarantine, at least in the early months of the pandemic, Vietnamese citizens did not have to worry about costs of COVID-19 testing, associated hospitalization, and centralized quarantine, thereby increasing their willingness to comply with extensive contact tracing and strict quarantine measures.

Second, building on the first, this increased responsiveness at local level enables effective central-local coordination when it mattered most. Immediately after it discovered the first COVID cases, the Vietnamese government formed a national COVID-19 response committee, led by the deputy prime minister but located within the Ministry of Health, comprised of leaders from agencies ranging from science and agriculture to information and public security.<sup>51</sup> As it does with other party-state administrative function, this COVID-19 response committee replicates itself at all levels of government, down to the towns and wards.<sup>52</sup> Key decisions on rationing ventilators and protective gears were coordinated and streamlined. As noted below, this mattered for the economy, too, once early outbreaks were contained. It is worth pointing out, however, that these government actions occurred through a system of administrative documents, not through formal law.<sup>53</sup>

Third, returning to the point about transparency, as noted above the Vietnamese government has been remarkably transparent in its COVID-19 efforts. Survey data from the Provincial Competitiveness Index documented a turnaround, albeit a slow one, in citizens' perception of government transparency at both national and provincial levels.<sup>54</sup> This is consistent with a general trend towards open access, as Vietnam's 2018 Access to Information Law and Vietnamese courts' web portal enable citizen access

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49 Nguyen & Malesky, *supra* note 4.

50 Nhan Dan News, Phát triển bền vững, tiến tới bảo hiểm y tế toàn dân [Sustainable development leads to universal health insurance], <https://nhandan.com.vn/xahoi/item/42747802-phat-trien-ben-vung-tien-toi-bao-hiem-y-te-toan-dan.html> (Dec. 30, 2019).

51 Office of the Government of the Socialist Republic of Vietnam, Decree No. 170/QĐ-TTg on the Creation of the National Steering Committee to Prevent, Manage a Respiratory Infection Disease Caused by a New Coronavirus, Jan. 30, 2020; Ministry of Public Security News, “Bo Cong An So Ket Cong Tac Phong, Chong Dich COVID-19 Trong Luc Luong Cong An Nhan Dan Nam 2020” [The Ministry of Public Security Reviews 2020 Tasks on COVID-19 Preventions and Management], December 21, 2020.

52 For an example from Vietnam Ministry of Public Security, see Ministry of Public Security, Central Party Committee, Directive 04-CT/DUCA on Increasing Preventive Measures against the COVID-19 Pandemic in New Circumstances, Aug. 8, 2020.

53 This is in contrast to Taiwan, where an extensive legal framework was created to delegate authority to the executive body. See *supra* note 14.

54 Nguyen & Malesky, *supra* note 4.

to a range of government documents, including land maps, budgets, and court judgments.<sup>55</sup> Though some suspect political motives,<sup>56</sup> the ongoing anti-graft campaign led by Nguyễn Phú Trọng, General Secretary of the Vietnam Communist Party, generally received favorable responses from Vietnam watchers and international audiences.<sup>57</sup> The anti-graft campaign also intersected with the pandemic response. The head of Hanoi's Center for Disease Control, for example, was indicted on a charge of collusion to inflate COVID-19 test kit costs.<sup>58</sup>

Transparency efforts have also mitigated skepticism towards the Party-State's COVID-19 reporting. The Ministry of Health has posted all reported cases on its website,<sup>59</sup> enabling deeper analysis by data scientists and bloggers,<sup>60</sup> and gaining endorsement from public health experts.<sup>61</sup> Vietnam's online network of activists, while still critical of privacy violations and the lack of freedom of speech, has not raised the alarm on widespread fatalities or cover-ups. When a patient who earlier tested positive for COVID-19 died from liver failure, the government's Facebook portal publicly discussed the reasoning for not counting his death, due to the patient's advanced liver dysfunction and a series of negative COVID-19 tests premortem.<sup>62</sup> Thus, while under-counting is possible, public disclosures open space for discussion and allow for corrections if needed.

In sum, Vietnam's strengthened state capacity during 2020 shows evidence of a deliberate, sustained effort to improve governance starting at local levels. While it is too early and difficult to make attribute causality, Vietnam's upward trends in healthcare access, transparency, and overall local governance suggest that effective local-central coordination plays an important role implementing national policies.

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55 The Vietnam Supreme People's Court makes public a collection of legal judgments through its web portal, available here: <http://congbobanan.toaan.gov.vn/>. On Vietnam's efforts to improve transparency, see Transparency International, *Ensuring the right to information in Vietnam – one step of many*, <https://voices.transparency.org/ensuring-the-right-to-information-in-vietnam-one-step-of-many-a698e5a83547> (Mar. 13, 2020).

56 Mi Nguyen & Alex Dobuzinkis, At Vietnam's biggest corruption trial, some skeptical views, Reuters, <https://www.reuters.com/article/us-vietnam-security-trial/at-vietnams-biggest-corruption-trial-some-skeptical-views-idUSKBN1EZ0E7> (Jan 10, 2018).

57 Towards Transparency, Vietnam: CPI 2019 score is up but corruption remains serious, <https://towardstransparency.vn/en/vietnam-cpi-2019-score-is-up-but-corruption-remains-serious/> (Jan 23, 2019).

58 VNExpress, Hanoi CDC chief arrested for graft in coronavirus test kit purchase, <https://e.vnexpress.net/news/news/hanoi-cdc-chief-arrested-for-graft-in-coronavirus-test-kit-purchase-4088948.html> (Apr. 23, 2020).

59 Vietnam Ministry of Health, <https://ncov.moh.gov.vn/>.

60 For an example of such data analysis, see Tran Nguyen, *COVID-19 - What do we know about the situation in Vietnam? A deep dive into Vietnam COVID-19 patient data*, Towards Data Science, <https://towardsdatascience.com/covid-19-what-do-we-know-about-the-situation-in-vietnam-82c195163d7e> (May 2, 2020).

61 Oxford University Nuffeld Department of Medicine, Centre for Tropical Medicine and Global Health, *How Vietnam managed to keep its coronavirus death toll at zero*, <https://www.tropicalmedicine.ox.ac.uk/news/coronavirus-how-overreaction-made-vietnam-a-virus-success> (June 1, 2020).

62 Vietnam Office of the Government's Facebook portal, [https://www.facebook.com/thongtinchinphu/photos/a.914137021996819/2936406939769807?hc\\_location=ufi](https://www.facebook.com/thongtinchinphu/photos/a.914137021996819/2936406939769807?hc_location=ufi) (last visited Feb. 1, 2021).

Beyond the simple distinction between authoritarian and democratic regimes, this narrative deserves further attention as part of a larger, global account of the administrative state in times of crisis. As national focus shifted to the reopening of the economy, the official slogan likewise shifted from “fighting the enemy epidemic” to “live peacefully with the pandemic.”<sup>63</sup> Vietnam’s current strategy focuses on promoting the domestic market and repositioning Vietnam for opportunities in shifting global supply chains.<sup>64</sup>

Yet, even for a success story like Vietnam, COVID-19 has wreaked havoc on its economy. A survey by the Provincial Competitiveness Index documented the operational difficulties local firms faced in 2019: even then, 63% reported difficulty in finding customers, 35% in getting credit, 34% in recruiting employees, 28% in finding business partners, and 27% in market downturns.<sup>65</sup> A survey in 2020 showed that most firms, whether foreign, private, or state-owned, projected losses and lay-offs due to declining consumption markets, lack of capital and cash flow, and anticipated lack of work.<sup>66</sup> Transparency, reduced corruption, and increased government responsiveness thus will also be critical for healthy businesses to emerge from the lockdown. To promote Vietnam’s domestic market, particularly firm survival, Vietnamese leaders have issued a host of relief measures, including freezing business obligations to pay costs such as retirement and life insurance contributions, providing quick-access loans for wage payments, and increasing social welfare for laid-off workers.<sup>67</sup> The Access to Information Law will enable citizens and businesses to better monitor these transactions. Government responsiveness is also critical, as business advocates have voiced dissatisfaction with slow access to relief.<sup>68</sup>

Local leaders like Hanoi have put forth a plan, coordinated with other provinces, to promote linkage in the domestic market, including in tourism, agriculture, and seafood. Among other actions, this requires reorienting businesses towards high-demand areas, for example from growing decorative plants to consumable produce.<sup>69</sup> This coordination became increasingly important as foreign consumption

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63 TuoiTre News, Chung sống an toàn với COVID-19 [Co-exist safely with COVID-19], <https://tuoitre.vn/chung-song-an-toan-voi-covid-19-20200421084052951.htm> (Apr. 21, 2020).

64 Regina Abrami, The Geopolitics of Post-COVID-19 Supply Chains, Perry World House, <https://global.upenn.edu/perryworldhouse/news/geopolitics-post-covid-19-supply-chains> (Apr. 30, 2020).

65 Nguyen & Malesky, *supra* note 4.

66 *Id.*; see also VNExpress, COVID-19 could bankrupt 50% of Vietnamese enterprises: VCCI, <https://e.vnexpress.net/news/business/economy/covid-19-could-bankrupt-50-pct-of-vietnamese-enterprises-vcci-4081637.html> (Apr. 9, 2020).

67 Vietnam Business Forum, Urgently Making Economic Recovery Scenarios, <https://vccinews.com/news/38018/urgently-making-economic-recovery-scenarios.html> (Apr. 20, 2020).

68 Vietnam Business Forum, Doanh nghiệp vẫn loay hoay tìm cách tiếp cận nguồn hỗ trợ [Businesses continue to struggle to find support], <https://vccinews.vn/news/28237/doanh-nghiep-van-loay-hoay-tim-cach-tiep-can-nguon-ho-tro.html> (May 12, 2020).

69 McKinsey, Reimagining tourism: How Vietnam can accelerate travel recovery, <https://www.mckinsey.com/featured-insights/asia-pacific/reimagining-tourism-how-vietnam-can-accelerate-travel-recovery> (Mar. 19, 2021).

disappeared overnight. While eager to restart its economy, provinces also made clear that economic revitalization must be balanced with public health goals by imposing limited hours for businesses, crowd control, and continued enforcement of social distancing and face-covering requirements. Compliance with these measures will further hinge on continued public trust. National and local leaders are also exploring ways to reposition Vietnam for opportunities in shifting global supply chains. While Vietnam likely stands to benefit from countries' desire to diversify away from China,<sup>70</sup> its domestic businesses themselves heavily depend on China for raw materials and components.<sup>71</sup> As a result, Vietnamese leaders have advocated for boosting supporting industries, particularly manufacturing, technology, and textile sectors. Cities like Hanoi have also promised economic incentives such as extended land leases and preferential loans to attract investment.<sup>72</sup>

Despite the clear challenges Vietnam faces, the country's strong growth trajectory and swift COVID-19 response have positioned it to be one of the world's few economic bright spots. The World Bank, for example, projected that Vietnam will be one of few countries to experience positive economic growth in 2020.<sup>73</sup> This success, however, depends upon continuing the historical trajectory of improved economic governance, including reducing corruption.

## **4. Conclusion**

As this chapter details above, Vietnam's improving governance and central-local policy coordination have helped it weather the COVID-19 pandemic through the mass mobilize its civil society and unprecedented transparency from various levels of government. These key features will likely remain critical for Vietnam as its new, recently elected leaders grapple with balancing the need to open up borders and the economy with protecting public health. As we collectively and continually glean lessons from the global efforts to combat the pandemic, Vietnam's story serves as a reminder to move beyond the simple distinction of and assumptions associated with regime type. It further challenges us to think deeper about bureaucratic capacity and responsiveness within all forms of government.

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70 Kenneth Rapoza, *China Trade War Updated: Global Supply Chain Shifting, But Asia Not Easy Winner*, Forbes, <https://www.forbes.com/sites/kenrapoza/2019/06/27/china-trade-war-update-global-supply-chains-shifting-but-asia-not-easy-winner/?sh=16b28449df56> (June 27, 2019).

71 Vietnam Briefing, *COVID-19 and the Effects on Supply Chains in Vietnam*, <https://www.vietnam-briefing.com/news/covid-19-effects-supply-chains-vietnam.html/> (Apr. 10, 2020).

72 Hanoi Times, *Hanoi plans to have 900 firms in supporting industries by end-2020*, <http://hanoitimes.vn/hanoi-plans-to-have-900-enterprises-in-supporting-industries-by-end-of-2020-311999.html> (May 7, 2020).

73 World Bank, *Vietnam: Country Profile*, <https://www.worldbank.org/en/country/vietnam/overview> (last visited Feb. 1, 2021).

Chapter

06

International Comparative Analysis of COVID-19 Responses

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## **Aotearoa New Zealand's Policy Responses to the COVID-19 Pandemic**

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## Chapter 6. Aotearoa New Zealand's Policy Responses to the COVID-19 Pandemic

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### Abstract

Across the OECD – the group of high-income countries best-resourced to respond to the COVID-19 pandemic – transmission and mortality rates had typically been no better than the world average as of December 2020. Aotearoa New Zealand was, in many ways, the most striking outlier in this respect. As of January 2021, there had been only 460 confirmed cases per million people and 26 fatalities. Having acted relatively swiftly, decisively and with a clear prioritisation of public health over economic concerns or the preservation of civil liberties, New Zealand was able to ‘flatten the curve’ of COVID-19 infections during the early stages of the pandemic and thereafter pursue a strategy of elimination that few others have been able to emulate.

In this chapter, we situate New Zealand's comparatively successful management of the pandemic by examining how distinctive situational and institutional factors combined to produce a policy environment conducive to staunch public health interventions. We preface our analysis with an overview of aspects of New Zealand's geographic, political and demographic context relevant to the pandemic, emphasising policymaking propensities associated with being a small and remote island nation with a unitary system of governance and a history of regional stewardship. We then provide an in-depth assessment of the government's public health and economic policy responses during critical phases of the COVID-19 timeline – assessing how key policies were informed, formulated, communicated and implemented – before linking these interventions to an underlying matrix of political, analytical and operational capacities informed by the current and previous governments. Importantly, we identify that these capacities (or lack thereof) not only enabled New Zealand's highly restrictive response, but constrained the ability to pursue alternative measures that may have attained similar outcomes with fewer shortcomings. Finally, we consider these drawbacks with respect to ongoing social and economic challenges arising from unilateral border closures and periodic lockdowns, noting that disadvantaged Māori and Pasifika populations are disproportionately affected by associated hardship and identifying sector specific impacts for industries of national importance.

# 1. Introduction

*“We must go hard, and go early, and do everything we can to protect New Zealanders’ health”*  
– Prime Minister Jacinda Ardern (March 14<sup>th</sup> 2020).

The COVID-19 pandemic has presented an almost unprecedented challenge to public healthcare systems around the world. While the very interconnectedness of the global economy facilitated an initial rate of contagion that outpaced scientific understanding of the disease and policy consensus around effective containment measures, high- and low-income countries alike have since struggled to weigh public health interventions against their political and economic implications. Across the OECD – the group of high-income countries best-resourced to respond to such an emergency – transmission and mortality rates have typically been no better than the world average (Bretschger et al. 2020). Aotearoa New Zealand (NZ) is, in many ways, the most striking outlier in this respect. Having acted relatively swiftly, decisively and with a clear prioritisation of public health over economic concerns or the preservation of civil liberties, NZ was able to ‘flatten the curve’ of COVID-19 infections during the early stages of the pandemic and thereafter pursue a strategy of elimination that few others have been able to emulate.

In this chapter, we explain NZ’s comparatively successful management of the pandemic by examining how distinctive situational and institutional factors combined to produce a policy environment conducive to staunch public health interventions. We preface our analysis with an overview of aspects of NZ’s geographic, political and demographic context relevant to the pandemic. We then provide an in-depth assessment of government policy responses during critical phases of the COVID-19 timeline – assessing how key policies were informed, formulated, communicated and implemented – before linking these interventions to an underlying matrix of political, analytical and operational capacities. Importantly, we identify that these capacities (or lack thereof) not only enabled NZ’s highly restrictive response, but constrained the ability to pursue alternative measures that may have attained similar outcomes with fewer shortcomings. Finally, we consider some of these shortcomings with respect to ongoing social and economic hardships arising from unilateral border closures, quarantine management and periodic lockdowns.

First, though, it is important to convey NZ’s milestones in controlling COVID-19 with reference to caseload data and key events in the chronology of the pandemic (Figure 6-1). The Sars-Cov-2 virus that causes COVID-19 was first reported to the World Health Organization (WHO) on December 31<sup>st</sup> 2019, following a spate of pneumonia diagnoses with an unknown cause in Wuhan, China. In the weeks that followed, cases began spreading within China and, by January 13<sup>th</sup>, the virus was transmitted internationally for the first time when a confirmed case was reported in Thailand. Wuhan was placed

under strict lockdown and on January 30<sup>th</sup> NZ made its first intervention when it arranged a charter flight to evacuate citizens stranded in the city, who were then placed into quarantine for 14 days (Reuters 2020). No COVID-19 cases were recorded among those repatriated nationals, but on February 3<sup>rd</sup> entry restrictions were enforced for all inbound travel from China, marking the first instance in which border closures were used as an integral component of the government’s policy response (Henrickson 2020) public health, and economic and social welfare infrastructures. It may seem premature to write about responses, but there are lessons to be learned from the response of Aotearoa New Zealand. Although its geopolitical situation as an island nation meant that it had late exposure to COVID-19, NZ has been commended because it closed its borders (to non-nationals). Almost a month later, on February 28<sup>th</sup>, NZ recorded its first case of COVID-19 when a resident tested positive after returning from Iran. The first instance of community transmission was recorded shortly thereafter on March 5<sup>th</sup> and in the two weeks that followed, the local caseload increased to 28.

**Figure 6-1. Timeline of the NZ Government’s Response to COVID-19**

Date (2020)	Event
February 28	First case of COVID-19 reported in NZ in a resident returning from Iran. Entry restrictions placed on people travelling from Iran.
March 5	First confirmed person-to-person transmission of COVID-19 in NZ.
March 11	WHO declares COVID-19 a pandemic.
March 14	All people entering NZ must self-isolate for 14 days, except arrivals from Pacific Island countries. Cruise ships are banned.
March 19	A total of 28 cases of COVID-19 in NZ, all linked to overseas travel. Borders are closed to everyone except NZ citizens and residents.
March 21	A total of 52 cases confirmed in NZ. A four-level alert system introduced: level 1 (prepare); level 2 (reduce); level 3 (restrict); level 4 (eliminate). The country is placed at level 2.
March 23	NZ placed at level 3 with additional restrictions imposed.
March 25	State of Emergency declared.
March 26	NZ enters level 4, lockdown restrictions initially imposed for 4 weeks.
March 29	First death caused by COVID-19 in NZ.
April 9	A total of 29 new cases of COVID-19 reported. The lowest daily total since 23 March.
April 27	NZ re-enters level 3, with some lockdown restrictions eased.
May 14	NZ enters level 2, with further restrictions eased.
June 9	NZ has no active cases of COVID-19 and enters level 1 for the first time with minimal restrictions in place.
August 11	After more than 100 days of no community transmission of COVID-19 outside managed isolation, a cluster of 4 new cases detected in a single family in Auckland.

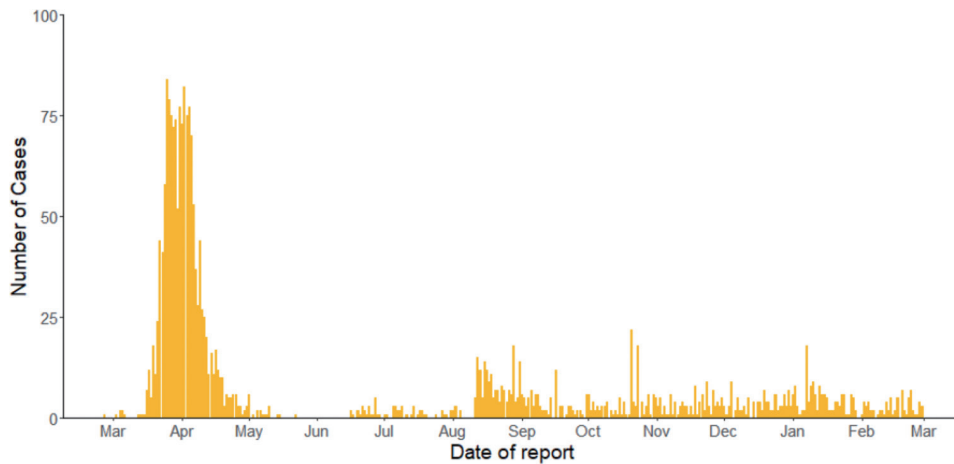


Date (2020)	Event
August 12	Auckland is placed under level 3. The rest of NZ is placed under level 2.
September 23	Auckland moves to level 2, the rest of NZ moves to level 1 (no restrictions).
October 7	Auckland moves to level 1 (no restrictions).
October 17	PM Jacinda Ardern wins a landslide victory in NZ's general election and credits her government's decisive COVID-19 response for the win.

On March 19<sup>th</sup> NZ announced the closure of its international borders, effectively barring inbound and outbound travel, to everyone except citizens and residents – a hallmark policy that remains in place as of March 2021 (Roy 2020). After the closure of NZ's borders, imported cases declined dramatically but community transmission persisted (Robert 2020). An escalating caseload in the week following the border closure resulted in the introduction of a four-level alert system on March 21<sup>st</sup>. These levels correspond with 'prepare', 'reduce', 'restrict' and 'eliminate' warnings that are each accompanied by lockdown measures of varying severity (New Zealand Government 2020b). The country was placed at level two at the time of the announcement, but with growing daily cases was placed on level three on March 23<sup>rd</sup>, before a State of National Emergency declaration on March 25<sup>th</sup> and the imposition of a four-week level four lockdown on March 26<sup>th</sup> (New Zealand Government 2020a).

The level four restrictions entailed a stringent nationwide lockdown with complete home confinement of the population outside of essential frontline work and essential personal movement (New Zealand Government 2020b). At the start of the level four restriction period, NZ was experiencing 73 new cases per day; two weeks later it had dropped to 26 daily cases and after four weeks it stood at just five daily cases (Figure 6-2). Level four restrictions were extended for five days, before transitioning to more moderate level three restrictions for two weeks commencing April 27<sup>th</sup>. By May 4<sup>th</sup>, NZ reported no new cases and entered a phase of controlled de-escalation of lockdown measures as the objective of containment gave way to a more ambitious strategy of complete elimination.

Figure 6-2. Daily Confirmed Cases (Ministry of Health NZ 2021)



This paradigm shift entailed the continuation of strict border controls, quarantine protocols for repatriated citizens, and further planning to ensure national preparedness for instances of re-escalation. After more than 100 days without any community transmission, such an episode did occur on August 11<sup>th</sup>, when four new cases from an unknown source were detected in Auckland, catalysing a second outbreak of the virus (New Zealand Government 2020a). Having learned from the first wave of cases, alert level restrictions were rapidly implemented: Auckland was placed at level three on August 12<sup>th</sup> and the rest of the country on level two. Restrictions for both jurisdictions were then scaled back on September 23<sup>rd</sup>, to levels two and one respectively, before Auckland was also reduced to level one on October 7<sup>th</sup>. With cases again brought under control by quick and decisive intervention, incumbent Prime Minister (PM) Jacinda Ardern went into the NZ general election on October 10<sup>th</sup> buoyed by public support for her government’s handling of the pandemic and won by an outright majority for the first time since 1951 (Shaw 2020).

In the following section, we begin our analysis of NZ’s track record of containing the virus by contextualising, demographic, political and geographic factors that influenced the country’s position toward handling a pandemic event of this nature. We then examine specific policy responses in greater detail, delineating between public health and economic policymaking, and critically evaluating these interventions relative to comparably situated countries. In the next section, we link these policymaking decisions to a matrix of underlying capacities – highlighting that NZ’s response is largely the outcome of robust political and analytical capacities against a backdrop of operational constraints, particularly with regards to healthcare infrastructure. Finally, and despite the relative merits of NZ’s response, we locate continuing challenges associated with the approach, emphasising the social and economic hardships arising from unilateral border closures and severe lockdown measures.

## 2. Country Profile and Background

Aotearoa NZ is a high-income remote island nation of five million people situated in the Southwest Pacific Ocean. New Zealanders predominantly live in urban areas on the North Island. The city of Auckland is inhabited by approximately one-third of the country's population, while the capital city – Wellington – accounts for a further 500,000 (Stats NZ 2020a). NZ is home to an increasingly diverse and multi-ethnic society. In the latest Census, 70.2 percent of the population were identified as European, 16.5 percent were indigenous Māori, 15.5 percent were Asian, 8.1 percent were Pacific peoples, 1.5 percent were Middle Eastern, Latin American or African and 1.2 percent were of other ethnicity (Stats NZ 2020a).

The NZ economy and labour market were robust going into the COVID-19 lockdown. The economy experienced an annual growth of 2.3 percent during 2019, while the labour market grew 1.6 percent in the quarter ending March 2020 (Ministry of Business, Innovation and Employment 2020). NZ has an internationally competitive economy with primary sector exports accounting for NZ\$46.4 billion out of a total of NZ\$58.3 billion worth of good exports the year ended June 2019 (Ministry for Primary Industries 2019) and contributing to 7 percent of GDP (Stats New Zealand 2020). NZ is one of the top five dairy exporters globally and these products ranked first among primary exports, closely followed by its other primary exports of meat, wool, forestry, horticulture and seafood, the majority of which are sent to China. Tourism is another highly significant sector for NZ's economy. For the year ending March 2020, the tourism industry directly employed 8.4 percent of the NZ workforce and delivered NZ\$41.9 billion to the country, accounting for 20.1 percent of foreign exchange earnings and contributing 9.3 percent to GDP (Stats NZ 2020b). However, international tourism has been the worst hit industry by the pandemic amid NZ's ongoing border closure from March 2020.

NZ has a unitary system of governance characterised by highly centralised policymaking. In the absence of a written constitution to specify power sharing with lower levels of government, national decision-making power rests predominantly with a political executive drawn from the ranks of the majority party (Bromfield and McConnell 2020). Local government bodies in NZ consist of regional councils and territorial authorities, which are responsible for providing local services and overseeing environmental resource management. NZ enjoys a largely civil political environment with a strong centre-left government led by PM Jacinda Ardern. Ardern was first sworn in as NZ's youngest ever PM in October 2017, although her Labour Party fell short of a majority and were forced to form a coalition with the New Zealand First party. Throughout her first term, Ardern's popularity grew and she won praise nationally and abroad for her compassionate handling of the Christchurch mosque shootings in March 2019 (which resulted in 51 deaths), and the Whakaari/White Island volcanic eruption in December 2019 (which resulted in 22 deaths). These two crises prepared Ardern to effectively contend

with the COVID-19 pandemic, which in turn played a large part in her re-election and landslide victory at the October 2020 parliamentary elections.

NZ is also a gateway to numerous Pacific Island Countries (PICs) and is a major stakeholder in the region's economic development and public health strategy. In particular, Samoa's devastating experience with the influenza pandemic of 1918-19 (H1N1) established a historical rationale for NZ's response to COVID-19. NZ suffered severely during the second wave of the influenza pandemic with a death toll of approximately 8,000, of which at least 2,160 were Māori, and an overall death rate of 7.8 percent per thousand (Rice 2020). The fatal course of the pandemic through the Pacific Island nations can be traced to the movements of NZ's regular steamship service to these islands: the *Talune*. The *Talune* was allowed to dock in the ports of Samoa rather than remain in quarantine, despite having passengers on board infected with influenza. The NZ Departments of Public Health and Defence failed to notify the Samoan health authorities about the spread of influenza before it was too late. Samoa's subsequent death toll of 8,000 constituted over 22 percent of the population (Tomkins 1992). Therefore, NZ initially used its pre-existing national Influenza Pandemic Plan, revised in 2017, as a framework for responding to COVID-19 in a manner that would prevent disparities and minimise transit of infection to lower-income PICs.

However, NZ's Influenza Pandemic Plan is based on a mitigation model focused on 'flattening the curve' and delaying the epidemic peak to reduce the overall public health impact of an influenza pandemic (Ministry of Health NZ 2017). Once NZ became aware of the differences in the function of the biology and epidemiology between an influenza pandemic and COVID-19, i.e. that COVID-19 has a longer incubation period (median of 5-6 days) than influenza (1-3 days) meaning influenza can spread faster than COVID-19, the country changed direction and refined its plan shortly before the first case arrived on February 28<sup>th</sup> 2020 (Baker, Wilson, and Anglemyer 2020). In a major departure from pandemic influenza mitigation, NZ adopted an *elimination strategy* involving the early introduction of strong measures, including strict border control, quarantine, and a full lockdown, all of which are easier to apply for small island nations.

The geographical isolation of NZ has been key in both the timing of the appearance of COVID-19 and the nature of the government's response (Henrickson 2020) public health, and economic and social welfare infrastructures. It may seem premature to write about responses, but there are lessons to be learned from the response of Aotearoa New Zealand. Although its geopolitical situation as an island nation meant that it had late exposure to COVID-19, NZ has been commended because it closed its borders (to non-nationals). NZ's relatively low population density, at 19 per square kilometre, coupled with the country's ability to monitor and secure its clearly defined borders, provided crucial advantages. The secluded location of NZ accounted for its comparatively late exposure to COVID-19,

enabling it to observe the pandemic unfold in China, South Korea and Italy, and learn from their early experiences. However, while we examine how NZ was able to eliminate COVID-19 by closing its border and imposing a strict lockdown with an effective communication strategy, we also consider limitations and weaknesses associated with poor management of cases at the border, delayed contact tracing and testing, and an underfunded and ill-equipped public health system.

## **3. New Zealand's Policy Responses to COVID-19**

### **3.1. Public Health Response**

The NZ government had been closely monitoring the spread of the virus through China and into Thailand, Japan and South Korea. On January 24<sup>th</sup>, the Ministry of Health set up an incident management team to closely monitor and respond to the international situation and provide public advice and information, although the risk to NZ at this point was assessed as 'low' (Ministry of Health NZ 2020a). The government began to charter Air NZ flights to evacuate New Zealanders from affected regions on January 30<sup>th</sup>. New Zealanders returning from China were quarantined for 14 days at a military facility. The WHO (2020) declared the novel coronavirus outbreak to be a 'public health emergency of international concern' on January 30<sup>th</sup>. On February 3<sup>rd</sup>, the NZ government placed entry restrictions on foreign nationals travelling from, or transiting through, Mainland China, including Chinese international students. The first official confirmed case of COVID-19 was recorded on February 28<sup>th</sup> in a NZ resident returning from Iran. The government banned arrivals from Iran that same day, followed by northern Italy and South Korea on March 2<sup>nd</sup> and all cruise ships on March 15<sup>th</sup>. The WHO (2020) officially declared a pandemic on March 11<sup>th</sup>.

NZ's efforts to tackle the spread of COVID-19 were orchestrated using an all-of-government approach, predominantly led by the All-of-Government Controller John Ombler, the Ministry of Health, and the National Emergency Management Agency. On March 6<sup>th</sup>, the Emergency Management Agency activated the National Crisis Management Centre (NCMC) to coordinate the national response to COVID-19. The All-of-Government Controller was appointed to lead the NCMC, supported by the Director-General of Health, the Director of Civil Defence and Emergency Management, the Police Commissioner, and the Ministry of Business, Innovation and Employment. An Operational Command Centre was established within the NCMC to provide operational oversight and day-to-day coordination of response activities across national agencies (National Crisis Management Centre 2020).

By mid-March, it was clear that community transmission was beginning to occur in NZ and the country did not have sufficient testing and contact tracing capacity at this point to contain the virus. NZ's options and preparedness were further constrained by a longstanding lack of public health

investment and capability (Gorman and Horn 2020). Early disease modelling indicated that NZ could expect the pandemic to spread widely, overwhelm the health system and disproportionately burden the indigenous Māori and Pasifika population who already suffer high health inequalities from pandemic infectious disease (Summers et al. 2020). As a result, when there were 28 active cases, the government made the historic decision to close NZ's borders from midnight on March 19<sup>th</sup> to anyone who is not a NZ citizen, permanent resident or their children and partners. Citizens and residents arriving in NZ after this date were required to self-isolate at home for 14 days.

NZ has been widely praised for acting 'early' to contain the virus (Jamieson 2020; Henrickson 2020; Robert 2020). However, during the seven days from the WHO declaring a pandemic to NZ's border closure, Gorman and Horn (2020) estimate that approximately 40 percent of the eventual subtypes of the SARS-CoV-2 virus entered the country, indicating NZ could and should have imposed its border closure earlier before the peak in infections occurred. In contrast, Taiwan began immediate border management measures including initial health screening and exclusion of air passengers as soon as the WHO was informed of the outbreak in Wuhan on December 31<sup>st</sup> 2019, with more extensive border screening occurring in late January and entry restrictions to non-citizens in early March (Summers et al. 2020). Despite Taiwan's closer proximity to the source of the pandemic and higher population density, its earlier introduction of border control measures likely accounts for a substantially lower case rate of 20.7 per million compared with NZ's 278.0 per million as of August 2020 (Summers et al. 2020).

By March 21<sup>st</sup> 2020, there were 52 cases in NZ. The Report of the WHO-China Joint Mission on COVID-19 (2020) showed that SARS-CoV-2 was behaving more like severe acute respiratory syndrome than pandemic influenza, in terms of its longer incubation period and transmissibility, suggesting that containment was possible with a sufficiently vigorous response. In light of this and the rising cases in NZ, national leaders decisively moved from their pandemic plan entirely oriented to influenza with limited applicability to other pandemic disease, to a COVID-19-tailored approach focusing on suppressing community spread with a goal of COVID-19 elimination (Jefferies et al. 2020). Despite the detrimental economic impact this approach would have on the agricultural, hospitality and tourism industries, the government considered that investing in prevention and elimination would be more efficient and cost-effective than having to continuously mitigate an uncontained virus (Jamieson 2020).

Ardern announced the establishment of a four-level alert system on March 21<sup>st</sup> that could be applied nationwide or to specific areas (New Zealand Government 2020b). Under level one (prepare), COVID-19 is considered to be contained in NZ, but uncontrolled overseas with sporadic imported cases. In response, border entry measures are put in place to minimise the risk of importing COVID-19

cases; intensive testing is undertaken, with rapid contact tracing for any positive case; but no restrictions are imposed on personal movement or gatherings. Under level two (reduce), COVID-19 is still contained in NZ but limited community transmission could be occurring with active clusters in more than one region. Therefore, restrictions are tightened on public gatherings with physical distancing of two metres enforced between people in all public venues. The country was placed under alert level two on March 22<sup>nd</sup>. The next day, the government issued an Epidemic Notice under section 5 of the Epidemic Preparedness Act 2006 and alert level three (restrict) was announced, meaning multiple cases of community transmission and active clusters are occurring in several regions. Under level three people are instructed to stay-at-home in their ‘bubble’, other than for essential personal movement, and work from home where possible. Public venues must close but certain essential businesses can remain open.

On March 25<sup>th</sup>, a State of National Emergency was declared under section 66 of the Civil Defence Emergency Management Act 2002 activating special legal powers, approximately 12 hours before an announced move to alert level four (lockdown) on March 26<sup>th</sup> for an initial four-week period. At this level, the entire population must remain in their homes, except for essential reasons such as short periods of exercise, and travel is severely limited. All public gatherings are banned, while non-essential businesses and educational facilities must close. The first COVID-19 related death in NZ was reported on March 29<sup>th</sup>, when confirmed and probable cases had reached 514 (Ministry of Health NZ 2020b). The border closure and sudden move to alert level four came as a surprise to many people, since NZ is a significant tourist destination. There were numerous reports of tourists struggling to leave NZ, as commercial airlines began to cancel flights and drop their routes into NZ (Lock 2020). The government responded by extending the visas of visitors, students and temporary migrant workers unable to leave NZ due to the border closure and international travel restrictions until the end of September 2020 (Collins 2020). This was extended for a further two months under the ‘COVID-19 short-term visitor visa’ to provide more time for visitors and temporary migrants to organise flights home (Moir 2020).

During the lockdown period, the NCMC published a National Action Plan to coordinate the national response during level four, followed by another Action Plan to direct the all-of-government response while transitioning out of lockdown. These Plans were accompanied by a COVID-19 Māori Response Action Plan to establish a strategic framework to address the indigenous health inequities in NZ and protect, prevent and mitigate the impacts of COVID-19 within iwi, hapū, whānau, and Māori communities. The plan facilitated the adoption of culturally appropriate approaches in the design and delivery of services, an increase in outreach services for vulnerable Māori without access to healthcare, and a Māori-focused communication campaign to provide relevant and up-to-date information on protecting their wellbeing during the pandemic (Ministry of Health NZ 2020c).



Following a lack of self-isolation enforcement and several non-compliant returnees, the government announced on April 9<sup>th</sup> that every person arriving in NZ would have to go into mandatory quarantine/managed isolation for 14 days at an approved facility (repurposed hotels). Each individual is required to have two COVID-19 tests taken on days three and twelve of their time in quarantine. By April 23<sup>rd</sup>, the number of cases had increased to 1,451, of whom 1,065 had recovered and 16 had died (Ministry of Health NZ 2020d). Lockdown restrictions in NZ were extended until April 27<sup>th</sup> 2020, at which point the country moved back to alert level three for two weeks. Several days later the government announced that some businesses including construction and forestry were permitted to reopen, as well as shopping for essential items under strict regulations governing personal contact. On May 13<sup>th</sup> the COVID-19 Public Health Response Act 2020 was enacted to provide a bespoke legal framework for managing the public health risks posed by COVID-19. The Act empowers the Minister of Health to issue orders in relation to the movement of people, isolation or quarantine, physical distancing, and provision of information for contact tracing. The country re-entered level two on May 14<sup>th</sup> shortly after the last known COVID-19 case was identified in the community, which marked the end of identified community spread at that time.

The stringent lockdown was undoubtedly successful in suppressing the incidence of COVID-19 and community transmission, with the daily number of cases dropping below ten by the end of April (Robert 2020). However, it is important to note that countries such as Australia and Taiwan were essentially able to achieve similar disease suppression using a more relaxed, and less economically punitive, strategy with fewer social restrictions because of their superior contact tracing and testing abilities (Gorman and Horn 2020). In particular, Taiwan's well-developed pandemic institutions, with extensive contact tracing abilities through both manual and digital approaches, meant that potential cases could be identified and swiftly isolated without having to impose stringent restrictions on movement in the form of local and national lockdowns (Summers et al. 2020). In contrast, NZ's contact tracing methods did not involve a centralised digital approach involving mobile phone applications and telecommunications data until May 2020, necessitating a national lockdown until the Ministry of Health was able to strengthen its contact tracing and testing capacity (Verrall 2020).

After a slow start, testing kits gradually became available and testing for COVID-19 went from just 12 tests conducted by March 9<sup>th</sup> to a daily average of 3,870 tests in April and 4,571 in May (Jamieson 2020). The government introduced the NZ COVID Tracer App on May 20<sup>th</sup> and encouraged people to download it on their mobile phones in order to scan QR codes displayed by businesses upon entry. In the event of exposure to the virus, the Ministry of Health is then able to contact users who have been in those areas via the Tracer App. On June 9<sup>th</sup>, the government announced a move to alert level one, declaring that there were no more active cases of COVID-19 in NZ, 103 days after the first identified case. As of June 11<sup>th</sup>, NZ had an estimated total of 1,504 cases of COVID-19 and 22 deaths. However,



two new cases related to the border were announced on June 16th in two sisters released prematurely from managed isolation to visit a dying parent. Ardern described the incident as an ‘unacceptable failure of the system’ (Graham-McLay 2020).

On August 11<sup>th</sup> 2020, after 102 days without community transmission of COVID-19 outside of managed isolation, NZ announced that a cluster of four new cases had been detected in a family in South Auckland. The source remains unknown, but work on the genetics of the virus provided the best clue to this being a managed isolation and quarantine facility failure (N. Wilson, Barnard, and Kvalsvig 2020) and involved threshold analyses for controls to push the epidemic peak into the next year (ie, a point where a vaccine might become available). The response from the government was to immediately reinstate stay-at-home orders at alert level three for several weeks in Auckland, and raise the alert level to two for the rest of the country. The government moved to tighten systems at the border and in isolation facilities, as well as conduct widespread testing. On this occasion, the time between the imposition of restrictions and moving the country back to alert level one on October 8th was 57 days. This outbreak was limited to 179 known cases and 3 deaths, of which 61 percent of cases were Pacific peoples and 22 percent were Maori (N. Wilson, Barnard, and Kvalsvig 2020) and involved threshold analyses for controls to push the epidemic peak into the next year (ie, a point where a vaccine might become available).

Despite early evidence-based advocacy from public health experts (Kvalsvig et al. 2020) and advice from the WHO, mandatory mass masking to prevent the spread of respiratory infections only became part of the NZ government’s approach from August 2020 during the second localised outbreak of community transmission. Unlike the first outbreak, people were required to wear facemasks on public transport and encouraged to wear them in indoor public spaces. Again, this delayed use of face masks stands in contrast to Taiwan’s approach, which had a long-established culture of mask use by its public following the SARS epidemic. Summers et al. (2020) note how Taiwan had a proactive policy of supporting production and national distribution of masks to all residents during the pandemic from February 2020 onwards, requiring masks to be worn in confined indoor environments even during periods of no community transmission.

### **3.2. Economic Policy Response**

While NZ’s elimination strategy has resulted in a low prevalence of COVID-19 compared to most other countries, one significant trade-off from its border closure and lockdown measures is the economic cost. The restrictions placed on activity in the June quarter contributed to the sharpest fall in real GDP on record with a quarterly decline of 12.2 percent, causing NZ to experience its first recession since the global financial crisis in 2008. The IMF’s (2020) latest World Economic Outlook Update projects the

NZ economy to contract by 6.1 percent in 2020. The return to higher alert levels in August 2020, along with restrictions on international travel, resulted in continued downward pressure on economic growth mostly concentrated in Auckland. However, the effective containment of COVID-19 and lifting of restrictions enabled most industries to return to normal operations, resulting in the economy bouncing back and GDP growing 14 percent in the September quarter (Stats NZ 2020c). The long-term effects of the pandemic and closed international borders have had specific and varied impacts at industry level. Sectors reliant on international arrivals, including hospitality, accommodation, transport, retail, and education, are likely to operate well below capacity for a prolonged period.

The government began to announce and implement a range of economic policies in mid-March, starting with an initial NZ\$12.1 billion COVID-19 Economic Response Package. Representing 4 percent of the country's GDP, the response package was one of the largest in the world on a per capita basis (Robertson 2020a). The package included NZ\$5.1 billion in wage subsidies for affected businesses to pay workers up to 80 percent of their normal wages or salary rather than making staff redundant; NZ\$126 million in COVID-19 leave and self-isolation support; NZ\$2.8 billion income support package for the most vulnerable, including a permanent NZ\$25 per week benefit increase and a doubling of the Winter Energy Payment for 2020; and NZ\$100 million redeployment package (Robertson 2020a). The government also provided targeted support to the aviation sector, including a debt funding agreement with Air New Zealand of up to NZ\$900 million, without which the country would be at risk of not having a national airline to continue freight operations and domestic flights.

On May 14<sup>th</sup> 2020 the government established the COVID-19 Response and Recovery Fund (CRRF), setting aside NZ\$50 billion to help rebuild the economy and support recovery from the pandemic. Of this, NZ\$4 billion will be used for business support including an extension of the wage subsidy scheme for businesses with a 50 percent drop in revenue; NZ\$230 million is set to encourage entrepreneurship to kick-start growth; and NZ\$900 million is allocated to support the Māori and Pacific community (Robertson 2020b). The government also announced a NZ\$400 million Tourism Recovery Package to support tourism operators and drive domestic tourism. The package includes a Strategic Tourism Assets Protection Programme comprising over NZ\$230 million in grants and loans for 126 tourism businesses to help protect the jobs of around 3,000 people employed in the industry; NZ\$30 million for Māori tourism businesses; NZ\$50 million for a Regional Events Fund; and NZ\$10 million to help businesses adapt to the new reality by developing digital capability and strategies. In response to the Auckland COVID-19 resurgence in August 2020, the wage subsidy scheme was reintroduced for two weeks including NZ\$585.80 for each employee working 20 hours or more a week and NZ\$350 for each employee working less than 20 hours a week. In the event of a future resurgence and alert level escalation, the government has prepared a support payment for businesses that experience a minimum 30 percent decline in revenue over a 14-day period (New Zealand Treasury 2020). In addition, a short-

term absence payment of NZ\$350 will be available from mid-February 2021 to help employers support eligible workers to stay home while waiting for a COVID-19 test result.

## 4. New Zealand's Policy Implementation

### 4.1. Analytical and Political Capacity

NZ's relatively effective handling of the pandemic and management of community transmission thus far has often been attributed to its geographical good fortune, as a fairly small and remote island nation with clearly monitored borders. While acknowledging these advantages, NZ's effective response is also a result of political choices and strong crisis leadership. The pandemic has tested the leadership and communication abilities of political leaders globally, which has in turn shaped public attitude and compliance with pandemic control measures in each country. Compared to the responses of other countries, the NZ government has excelled in term of its clearly communicated science-led approach. However, its operational capacity faced constraints by a lack of anticipatory policymaking to prepare for a pandemic, weak testing and contact tracing capability, and an underfunded public health system.

From the early phase of the crisis PM Jacinda Ardern prioritised public health, seeking to deliver on her pledge to protect all New Zealanders from the effects of COVID-19. The government's initial focus was to communicate clearly and reassure the public that expert advice was been taken in opting for a particular strategic approach (McGuire et al. 2020). During a post-cabinet press conference on March 16<sup>th</sup> Ardern stated:

*What I want to be really clear on is that there are different models out there around the world that have had different experiences with COVID-19. We do not want to be Italy. We do not want to be those countries who have experienced mass outbreaks . . . What we're going to do is make sure that we take the actions that are required to keep New Zealanders safe, but I'll listen to the evidence and advice around what is the best way to do that. (Ardern 2020)*

Ardern recognised that an evidence-based approach involving specialist expertise, rather than political ideology, was critical to effective policymaking in response to a global pandemic. Epidemiological data and qualified experts, including doctors from within NZ and overseas, were widely sought for commentary in the media and led the national response. In particular, NZ's Director-General of Health Ashley Bloomfield led the near-daily press conferences alongside Ardern. Bloomfield calmly and clearly communicated many complex health issues around COVID-19 to help the public understand

how the decisions were being led by science and data. Ardern and Bloomfield have stayed firmly on the same page throughout the crisis, in stark contrast to the strained relationship between President Donald Trump and leading infectious disease expert Anthony Fauci in the United States (Mazey and Richardson 2020).

The government ensured the public remained informed by conducting regular briefings and press conferences on the country's response and progress in tackling the virus. The press conferences were delivered in English and included a NZ sign language interpreter, while translations of COVID-19 materials were made available in Te Reo Māori and 26 other languages. Ardern also engaged in a more personable and informal communication style by participating in a series of Facebook and Instagram Live broadcasts to update the public and directly answer questions about COVID-19. The use of social media platforms was seemingly effective in reaching a wider and younger audience to educate and share detailed information in a more relaxed and approachable manner. According to McGuire et al. (2020), such broadcasts helped to 'build a shared experience of COVID-19, supplementing the more institutional role of formal messaging with a human level of authenticity'. The government employed clear language and direction to help the public understand their goals and obligations. For example, Ardern introduced an alert level system and asked New Zealanders to stay in their household 'bubble' as a way of social distancing. These concepts convey crucial scientific advice and rules in a concise format and quickly became part of New Zealander's everyday vocabulary (S. Wilson 2020).

Once lockdown measures were in place, the government began to emphasize the importance of national unity and social solidarity. In particular, Ardern appealed for individuals to be kind and compassionate, and framed combatting the pandemic as 'our response' and the work of a 'unified team of 5 million' (S. Wilson 2020). The government adopted the campaign slogan 'Unite Against COVID-19' as NZ's overarching mission, in order to persuade New Zealanders to bind together to 'slow the spread and put NZ in the best position for recovery' (National Crisis Management Centre 2020). Such rhetoric helped to garner community support while working as an effective mobilising device to ensure public acceptance and adherence to a number of burdensome pandemic-control measures. By fostering a sense of shared purpose and national unity, the discourse quickly shifted to *eliminating* the virus rather than simply managing or suppressing cases (Mazey and Richardson 2020). During a Facebook Live Broadcast on April 20<sup>th</sup> 2020, Ardern reaffirmed this approach:

*Success doesn't mean zero COVID-19 cases. It means zero tolerance for cases, which means as soon as we know we have a case, we go in straight away, we're testing around that person, we're isolating them, we contact trace, and we find out all the people who may have been in contact with them while they could have passed it on. That's how we keep stamping out COVID cases whenever they come up. (Basu 2020)*

This personable and transparent style of communication also worked to build trust in the government and its handling of the pandemic. On account of NZ's unitary system of government, Ardern has not had to compete for political authority nor contend with the policymaking implications and political divergences typically associated with devolved or federal systems (Mazey and Richardson 2020). This stands in contrast to leaders in the United States, Australia and the United Kingdom, who have often had to negotiate national COVID-19 policy responses with subnational elected leaders. In NZ, there is a strong central government and limited local government, although local councils applied bans to public gatherings, theatres, libraries, and other facilities at the same time as the central government called for such measures. Thus, there was significant cross-party support for the Ardern-led response and minimal intergovernmental conflict, which translated into swift action and high levels of public confidence in the government. Ardern's response to the pandemic was rewarded with a landslide re-election on October 17<sup>th</sup> 2020, allowing the Labour party to govern alone.

An international poll undertaken by Colmar Brunton (2020a) in early April, when the country had moved into a full national lockdown, showed that 88 percent of respondents believed they could 'trust the NZ government to make the right decisions on COVID-19'. Comparatively, this is far above the 59 percent average trust in government polled across the G7 countries. More broadly, the poll revealed how the public's trust in the NZ government to deal successfully with national problems has soared from 59 percent pre-crisis to 86 percent at the end of April. However, the latest poll conducted by Colmar Brunton (2020b) in June 2020 showed signs that public trust in government is waning, dropping from 86 percent to 77 percent. An increasing number of New Zealanders - 18 percent in April to 29 percent in June - are claiming that the government has focused too much on health and not enough on the economy. This declining support has been expressed through anti-lockdown protests and 'freedom marches' across NZ in response to reinstated restrictions after the outbreak of COVID-19 in August 2020 (Bayer 2020).

## **4.2. Operational Capacity Constraints**

However, while the NZ government adopted a clear communication strategy and collaborated with experts to effectively eliminate COVID-19, the pandemic has exposed major shortcomings in its operational capacity. Unlike Taiwan, Singapore and South Korea's broader experience of pandemics including severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS), NZ's response was reliant on its influenza pandemic plan and it had failed to learn the same lessons as its Asian neighbours to prepare for COVID-19. Taiwan's responsiveness to pandemic diseases is embedded in its national institutions with a dedicated Centre for Disease Control established in 1990. Following the SARS epidemic Taiwan carried out extensive planning and established a National Health Command Centre (NHCC) in 2004, dedicated to responding to large outbreaks of emerging

communicable diseases while acting as the operational command point for direct communications among central, regional and local authorities (Wang, Ng, and Brook 2020). The NHCC unified a central command system that includes the Central Epidemic Command Centre, the Biological Pathogen Disaster Command Centre, and the Central Medical Emergency Operations Centre. This prior preparation led to rapid implementation of control measures to respond to COVID-19 in January 2020, such as entry restrictions, health screening before passengers could deplane, systematic quarantine, contact tracing, and cluster control without needing the strict national lockdown used in NZ (Summers et al. 2020).

Taiwan's readiness stands in contrast to NZ's largely non-existent pandemic infrastructure, including a dedicated public health agency equipped with the skills and resources to prevent and manage pandemics and other public health threats. The Communicable Disease Centre – NZ's equivalent organisation to Taiwan's Centre for Disease Control – was closed in 1992. The absence of an established institution to address pandemic infectious disease resulted in slow uptake and implementation of essential digital technologies for disease surveillance. The government's decision to 'go hard' by closing NZ's borders and placing the population under strict lockdown was arguably the only feasible option available given its severely limited public health system and weak testing and contact tracing capabilities. NZ's national pandemic preparedness was constrained by limited intensive care unit beds – 4.6 per 100,000 population compared to Australia's 8.9 per 100,000 (Betteridge and Henderson 2020); low numbers of ventilators and extracorporeal membrane oxygenation (ECMO); a shortage of intensivists and public health workers; poorly resourced and performing Public Health Units with consequent effects on supplies of Personal Protective Equipment, surveillance and case-tracking and testing capacity (Gorman and Horn 2020).

NZ's reactive policymaking became particularly apparent through mismanagement of its strict border controls and associated quarantine processes. As international flights resumed post-lockdown and NZ citizens and residents started to return in large numbers, the government had set up mandatory 14-day managed isolation in designated hotels. Officials were instructed to test those in quarantine on days three and twelve of their isolation. However, implementation often failed on the ground with the media uncovering a number of cases involving people being released from quarantine early without prior testing or escaping from the hotels and bypassing lax security measures (Mazey and Richardson 2020). Despite being considerably unprepared for the pandemic, resulting in delays and oversights in its handling of the crisis, the NZ government has generally responded to errors and oversights by learning and correcting them. A review into managed isolation was conducted and significant changes made, including an increase in the number of clinical and non-clinical staff at each facility to ensure health checks and testing are consistently delivered; doubling of on-the-ground NZ Defence Force staff to manage the quarantine process; tightened security for transferring returnees; and more frequent testing

of staff at the border, workers in managed isolation facilities and airline crews (Woods 2020). Its contact tracing and testing system is now set up and widely available across the country after the slow start and face mask use is now required on public transport. While there have been a small number of resurgences of COVID-19 in the community since the outbreak in August 2020, the government has moved quickly to contain the virus without resorting to lockdown measures, indicating that the government's restructurings are working effectively.

## **5. Continuing Challenges**

Despite the NZ government's demonstrated achievements in stemming foreign and community transmission of COVID-19, reliance on strict border management and lockdown measures have created lasting challenges as ongoing pandemic management cements itself as the 'new normal'. In this section, we consider the social and economic implications of NZ's strategy, highlighting the potential exacerbation of underlying inequalities experienced by native Māori and Pasifika populations, severe financial losses endured by specific sectors of the economy, and indirect consequences for migrant workers and their families.

### **5.1. Social and Economic Implications**

Though NZ is a wealthy and relatively equitable country, with a high Human Development Index (HDI) ranking and moderate levels of income inequality and poverty (OECD 2019), underlying disparities in health and socioeconomic outcomes for native Māori and Pacific Islander populations are a persistent source of inequality (Poata-Smith 2013; Chin et al. 2018; Ministry of Health NZ 2018). Relative to European originating populations – or Pākehā – Māori and Pacific Islander populations have significantly shorter life expectancies, almost triple the rate of unemployment and double the incidence of childhood poverty (Stats NZ 2020a). NZ's strategy for managing the pandemic has both responded to, and potentially aggravated, these expressions of inequality (Khalil 2020). The prevalence of underlying health problems render Māori and Pacific Islander populations particularly susceptible to infectious disease and evidence suggests these groups carry a far higher risk of mortality from COVID-19 (Steyn et al. 2020). This heightened vulnerability overlaps with discriminatory access to NZ's already underfunded healthcare system (Graham and Masters~Awatere 2020), such that early pandemic modelling and policy analysis identified the importance of pursuing an elimination strategy through stringent border closures and lockdown policies to protect at risk groups (Ministry of Health NZ 2020d). While this response has been applauded for safeguarding Māori and Pacific Islander communities who might otherwise have been severely affected by uncontained community transmission, initial research has indicated that these policies have also 'furthered the marginalization



of communities at the margins' (Elers et al. 2021, 109). Lockdown measures were seen to be particularly detrimental to these communities, as restrictions on non-essential travel and gatherings disrupted collective cultural practices and disconnected vulnerable individuals from social resources (Elers et al. 2021), while the government's fiscal stimulus measures have prioritized support for the private sector over marginalized communities (Khalil 2020). Māori populations have historically fared disproportionately poorly during economic crises affecting NZ and, indeed, Māori and Pacific Islander unemployment rates are projected to increase more steeply over the course of the pandemic than for other ethnic groups (Ministry of Māori Development 2020).

NZ's broad trade-off between safeguarding public health and permitting the continuation of normal social and economic life has also had repercussions for the wider economy. Perhaps the most obvious drawback to NZ's strict border control policies has been the financial impact for sectors of the economy that rely, directly or indirectly, on international travel. The tourism and hospitality industries have been among the hardest hit by the pandemic, but the unilateral cessation of non-resident international arrivals has also disrupted the flow of seasonal workers and working holidaymakers who comprise a significant portion of NZ's agricultural workforce.

As mentioned in Section 1, NZ's tourism industry accounts for 8.4 percent of employment and contributes 9.3 percent of GDP (Stats NZ 2020b). International tourism constitutes a major share of revenue for the industry, approximately 41 percent for the year ending March 2020 (Stats NZ 2020b). Although increased domestic tourism may partially offset this downturn, anticipated losses are expected to amount to a 3-5 percent reduction in contribution to GDP and substantial job losses (Smith 2020). The loss of international arrivals has been particularly acute for Air New Zealand, the national carrier and third-largest employer, which initially cut 95 percent of its flights due to the border closure and domestic lockdown measures (Carroll 2020). It has estimated that its revenue could result in the loss of NZ\$5 billion (on a reported operating revenue of NZ\$5.8 billion in 2019), and it has already announced plans to make up to 1,460 cabin crew employees redundant as well as 387 pilot redundancies (Carroll 2020). In addition to sector-specific stimulus measures outlined in Section 3, the government has launched services to provide support to businesses and individuals within the sector through information updates, skill development, redeployment, and guidance (Tourism New Zealand 2021). One widely-discussed policy option has been to implement a 'travel bubble' permitting trans-Tasman travel between Australia, NZ and select Pacific Island Countries, on the provision that community transmission was sufficiently controlled in participating locales and quarantine measures observed (Hunt 2021). Australia is the largest source of tourist arrivals for NZ (Smith 2020), and with similarly few daily confirmed cases of COVID-19 as of March 2021 (Johns Hopkins University and Medicine 2021), could present a relatively low-risk opportunity for resuming limited international tourism. As of February 2021, only unidirectional quarantine-free travel involving NZ



citizens travelling to Australia has been agreed upon, though the Ardern government maintain plans to introduce bi-directional travel in coming months (Hunt 2021).

Beyond impacts to the tourism and hospitality industries, strict border restrictions have drastically reduced the availability of migrant labour within the agricultural sector – particularly for horticultural employers reliant on Pacific seasonal workers and working holiday visa holders (Nagar 2020; Bedford 2020). Depending on time of year, Pacific Islanders participating in the Recognised Seasonal Employer (RSE) scheme and working holiday visa holders can make up over a third of the horticultural labour force (Gämperle 2018). Estimates provided by the NZ Institute for Economic Research indicated that the industry was already experiencing labour shortages, particularly during peak harvesting periods, prior to COVID-19 (Gämperle 2018). With border closures effectively halving the number RSE workers remaining in NZ and reducing working holiday visa holders to one seventh of their seasonal average (Bedford 2020), these shortages have been significantly exacerbated (Nagar 2020). The implications for industry and economy are dire, with employers having to discard crops that cannot be harvested, potentially jeopardising NZ\$9.5 billion worth of produce (Nagar 2020). It has also placed NZ's temporary migrant workers – of whom there were 303,000 in March 2020 – into precarious circumstances, being unable to draw upon the same healthcare, welfare and employment rights that residents and citizens enjoy, while not necessarily having financial means to support themselves, their families, or to return home (Collins 2020). Moreover, the RSE scheme is promoted as one of New Zealand's flagship development initiatives with Pacific Island Countries; the remittances sent home by seasonal migrant workers are an important source of income for nine participating countries and disruptions to recruitment have spillover effects for those economies (Bedford 2020). As of January 2021, 2,000 RSE workers have been permitted to enter NZ in an exception to border policy, the first such concession since restrictions were introduced (Bedford 2021).

We conclude by discussing how these trade-offs between public health and socio-economic considerations were necessitated by NZ's mix of capacity strengths and weaknesses, allowing us to identify key policy lessons from the case study.

## **6. Conclusion: Policy Lessons**

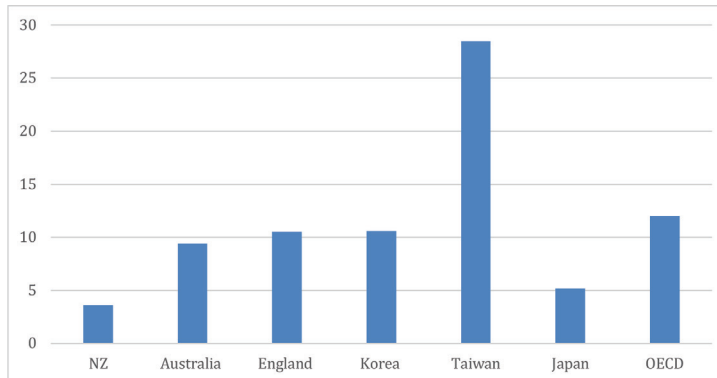
By objective measures, NZ has been a world-leader in managing COVID-19 from a public health standpoint: as of January 2021, there have been only 460 confirmed cases per million and 26 fatalities (Johns Hopkins University and Medicine 2021). The policy choices underscoring this achievement have necessitated considerable social and economic compromises (outlined above) in response to a combination of situational and institutional factors (described in Sections 2 and 3) that narrow

policymaking parameters. In essence, NZ has underlying characteristics that heighten its vulnerability to a pandemic event – notably insufficient healthcare infrastructure and substantial at-risk populations – and others that confer a considerable advantage in managing those risks: including a unitary system of government with high levels of public trust, the presence of strong scientific institutions and epidemiological expertise, and the geographical benefits of being a small and secluded island nation. Against this backdrop, it is perhaps unsurprising that NZ has pursued a strategy of elimination through border controls and strict lockdown measures to avoid the potentially catastrophic public health outcomes foreshadowed by early pandemic modeling.

In addressing opportunities for policy learning, both for NZ and for comparably situated countries, two questions stand out: i) what could NZ do to improve its management of COVID-19 and future pandemic events? and ii) what elements of NZ's policy response might be applicable to other countries?

In addressing the former, it is clear that the greatest shortcoming to NZ's handling of the pandemic was a lack of overall preparedness for a pandemic event stemming from weaknesses in operational capacity. Whereas several East Asian countries with previous exposure to the SARS virus were proactive in handling the pandemic, NZ was very much reactive in its approach (Summers et al. 2020). This is evident in terms of overall healthcare infrastructure, the lack of an updated pandemic response plan and delays in implementing an effective system of contact tracing. Comparing the availability of intensive care beds per 100,000 people among similarly wealthy island countries, for example, reveals that NZ is significantly below the OECD average (Figure 6-3). Greater investment in public healthcare systems would have placed NZ in a better position to deal with the eventuality of surging cases or widespread community transmission. In lieu of a wholesale transformation of existing facilities, however, the establishment of a dedicated agency to plan and manage a national pandemic response could help mitigate those limitations. Key elements of such a response plan could prioritize faster implementation of border controls and more comprehensive contact tracing methods. Both policies could potentially reduce the need for lockdown measures and therefore ease the social and economic drawbacks of NZ's existing management paradigm. For instance, whereas NZ adopted a 'wait and see' approach to border management and relied on WHO recommendations before imposing categorical border closures on March 19<sup>th</sup>, Taiwan's pandemic management protocol informed the decision to close borders immediately, thus limiting the potential for imported cases at the outset and circumventing the need for lockdown measures (Summers et al. 2020). Meanwhile, Australia's management of the pandemic has demonstrated the viability of comprehensive contact tracing to manage moderate levels of community transmission while preserving a significant degree of social and economic activity (Finkel, Jasper, and Weeramanthri 2020). It's plausible that NZ's timely implementation of similar policies could have averted the disruptions caused by level three and level four national lockdowns while achieving similar or better overall public health outcomes.

**Figure 6-3. ICU Beds per 100,000 People (OECD 2020; Phua et al. 2020)**



Despite the potential opportunities for improvement outlined above, NZ’s successful management of the pandemic despite an under-resourced healthcare system confers valuable policy lessons for other countries too. Foremost among these is evidence that, particularly for small island countries with limited healthcare capacity, rapid and extensive border closures can be highly efficacious in stemming imported cases of COVID-19 and reducing overall caseload. Island nations that have enforced strict border policies have typically fared better in the management of the pandemic (Lowy Institute 2021), while those that have not taken this approach – such as the United Kingdom (Geddes 2021) – have been comparatively overwhelmed by the pandemic and lost the opportunity to pursue an elimination strategy (Patel and Sridhar 2020). Though preserving economic openness has been cited as a reason to avoid border closures, it is notable that NZ’s economy has fared significantly better than those that have maintained open borders but, as a result, have endured ‘unsustainable lockdown-and-release cycles’ (Patel and Sridhar 2020, 1). While NZ did not close its border promptly enough to prevent the need for lockdown measures, its strategy of swift and decisive restrictions – along with a vigilant readiness to extend and reinstate these protocols – has shown that lockdowns can be instrumental in achieving elimination of the virus. That these measures were adopted and maintained with high levels of public support speaks to the key roles that political leadership, operationalized scientific expertise and clear communication have played in NZ’s overall pandemic management (S. Wilson 2020). To some extent this may reflect the practical advantages of a unitary system of government that is better able to coordinate a centralized pandemic response, but it also highlights the benefit of administering a response plan having achieved bipartisan support by prioritizing public health ahead of political and economic interests.

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## References

- Ardern, Jacinda. 2020. Post-Cabinet Press Conference: Monday, 16 March 2020 Press Conference. <https://www.beehive.govt.nz/sites/default/files/2020-03/Press%20Conference%2016%20March%202020.pdf>.
- Baker, Michael G., Nick Wilson, and Andrew Anglemyer. 2020. 'Successful Elimination of Covid-19 Transmission in New Zealand'. *New England Journal of Medicine* 383 (8): e56. <https://doi.org/10.1056/NEJMc2025203>.
- Basu, Arindam. 2020. 'Why Coronavirus Emerges in Clusters, and How New Zealand Plans to Eliminate Outbreaks after Lockdown'. *The Conversation* (blog). 23 April 2020. <http://theconversation.com/why-coronavirus-emerges-in-clusters-and-how-new-zealand-plans-to-eliminate-outbreaks-after-lockdown-136942>.
- Bayer, Kurt. 2020. 'Covid 19 Coronavirus: Hundreds Turn out for Anti-Lockdown Protests'. *NZ Herald*, 5 September 2020, sec. New Zealand. <https://www.nzherald.co.nz/nz/covid-19-coronavirus-hundreds-turn-out-for-anti-lockdown-protests/AHE2NJY3VMTTTLAUHLWIJOODY/>.
- Bedford, Charlotte. 2020. 'New Zealand's Seasonal Labour Shortage, and How to Solve It', 7.
- — —. 2021. 'Pacific Seasonal Workers Return for New Zealand's Summer Harvest', 5.
- Betteridge, Toby, and Seton Henderson. 2020. 'Intensive Care in New Zealand: Time for a National Network' 133 (1520): 2.
- Bretschger, Lucas, Elise Grieg, Paul J. J. Welfens, and Tian Xiong. 2020. 'COVID-19 Infections and Fatalities Developments: Empirical Evidence for OECD Countries and Newly Industrialized Economies'. *International Economics and Economic Policy* 17 (4): 801–47. <https://doi.org/10.1007/s10368-020-00487-x>.
- Bromfield, Nicholas, and Allan McConnell. 2020. 'Two Routes to Precarious Success: Australia, New Zealand, COVID-19 and the Politics of Crisis Governance'. *International Review of Administrative Sciences*, December, 002085232097246. <https://doi.org/10.1177/0020852320972465>.

- Carroll, Melanie. 2020. 'Coronavirus: Up to 1460 Air NZ Cabin Crew Jobs to Go in Airline's Covid-19 Hit'. *Stuff.Co.Nz*, 9 April 2020, sec. business. <https://www.stuff.co.nz/business/industries/120946954/coronavirus-reports-that-1450-air-nz-cabin-crew-jobs-to-go-amid-airlines-covid19-hit>.
- Chin, Marshall H., Paula T. King, Rhys G. Jones, Bryn Jones, Shanthi N. Ameratunga, Naoko Muramatsu, and Sarah Derrett. 2018. 'Lessons for Achieving Health Equity Comparing Aotearoa/New Zealand and the United States'. *Health Policy* 122 (8): 837–53. <https://doi.org/10.1016/j.healthpol.2018.05.001>.
- Collins, Francis L. 2020. 'Caring for 300,000 Temporary Migrants in New Zealand Is a Crucial Missing Link in Our Coronavirus Response'. *The Conversation* (blog). 23 March 2020. <http://theconversation.com/caring-for-300-000-temporary-migrants-in-new-zealand-is-a-crucial-missing-link-in-our-coronavirus-response-134152>.
- Colmar Brunton. 2020a. 'COVID TIMES: Backing New Zealand'. Colmar Brunton.
- . 2020b. 'COVID TIMES: How COVID-19 Is Changing Us'. Colmar Brunton.
- Elers, Christine, Pooja Jayan, Phoebe Elers, and Mohan J. Dutta. 2021. 'Negotiating Health Amidst COVID-19 Lockdown in Low-Income Communities in Aotearoa New Zealand'. *Health Communication* 36 (1): 109–15. <https://doi.org/10.1080/10410236.2020.1848082>.
- Finkel, Alan, Leigh Jasper, and Tarun Weeramanthri. 2020. 'National Contact Tracing Review: A Report for National Cabinet'. Commonwealth of Australia.
- Gämperle, Dion. 2018. 'Horticulture Labour Supply and Demand: 2018 Update'. Wellington: New Zealand Institute for Economic Research.
- Geddes, Linda. 2021. 'Covid: Could Britain Have Been More like New Zealand?' *The Guardian*, 5 February 2021, sec. World news. <https://www.theguardian.com/world/2021/feb/05/covid-could-britain-have-been-more-like-new-zealand>.
- Gorman, Des, and Murray Horn. 2020. 'On New Zealand's Weak, Strong and Muddled Management of a COVID-19 Epidemic'. *Internal Medicine Journal* 50 (8): 901–4. <https://doi.org/10.1111/imj.14928>.

- Graham, Rebekah, and Bridgette Masters~Awatere. 2020. 'Experiences of Māori of Aotearoa New Zealand's Public Health System: A Systematic Review of Two Decades of Published Qualitative Research'. *Australian and New Zealand Journal of Public Health* 44 (3): 193–200. <https://doi.org/10.1111/1753-6405.12971>.
- Graham-McLay, Charlotte. 2020. 'New Zealand Officials Admit Two Women with Covid-19 Met Friends'. *The Guardian*, 17 June 2020, sec. World news. <http://www.theguardian.com/world/2020/jun/17/new-zealand-brings-in-military-after-covid-19-quarantine-fiasco>.
- Henrickson, Mark. 2020. 'Kiwis and COVID-19: The Aotearoa New Zealand Response to the Global Pandemic'. *The International Journal of Community and Social Development* 2 (2): 121–33. <https://doi.org/10.1177/2516602620932558>.
- Hunt, Elle. 2021. 'New Zealand Stands by "travel Bubble" Plan despite Covid Outbreaks in Australia'. *The Guardian*, 13 January 2021, sec. World news. <http://www.theguardian.com/world/2021/jan/13/new-zealand-stands-by-travel-bubble-plan-despite-covid-outbreaks-in-australia>.
- International Monetary Fund (IMF). 2020. 'World Economic Outlook Update'. Washington, D.C.: International Monetary Fund (IMF).
- Jamieson, Thomas. 2020. "'Go Hard, Go Early": Preliminary Lessons From New Zealand's Response to COVID-19'. *The American Review of Public Administration* 50 (6–7): 598–605. <https://doi.org/10.1177/0275074020941721>.
- Jefferies, Sarah, Nigel French, Charlotte Gilkison, Giles Graham, Virginia Hope, Jonathan Marshall, Caroline McElnay, et al. 2020. 'COVID-19 in New Zealand and the Impact of the National Response: A Descriptive Epidemiological Study'. *The Lancet Public Health* 5 (11): e612–23. [https://doi.org/10.1016/S2468-2667\(20\)30225-5](https://doi.org/10.1016/S2468-2667(20)30225-5).
- Johns Hopkins University and Medicine. 2021. 'Coronavirus Resource Center'. 2021. <https://coronavirus.jhu.edu/>.
- Khalil, Shaimaa. 2020. 'NZ Election: The People Left behind in Ardern's "kind" New Zealand'. *BBC News*, 13 October 2020, sec. Asia. <https://www.bbc.com/news/world-asia-54444643>.
- Kvalsvig, Amanda, Nick Wilson, Ling Chan, Sophie Febery, Sally Roberts, Bryan Betty, and Michael G Baker. 2020. 'Mass Masking: An Alternative to a Second Lockdown in Aotearoa' 133 (1517): 6.

- Lock, Harry. 2020. 'Plans to Go Home in Tatters as International Travel Options Crumble Due to Covid-19'. RNZ, 24 March 2020, sec. New Zealand. <https://www.rnz.co.nz/news/national/412514/plans-to-go-home-in-tatters-as-international-travel-options-crumble-due-to-covid-19>.
- Lowy Institute. 2021. 'Covid Performance'. Lowy Institute. 2021. <https://interactives.lowyinstitute.org/features/covid-performance/>.
- Mazey, Sonia, and Jeremy Richardson. 2020. 'Lesson~Drawing from New Zealand and Covid-19: The Need for Anticipatory Policy Making'. *The Political Quarterly* 91 (3): 561–70. <https://doi.org/10.1111/1467-923X.12893>.
- McGuire, David, James E. A. Cunningham, Kae Reynolds, and Gerri Matthews-Smith. 2020. 'Beating the Virus: An Examination of the Crisis Communication Approach Taken by New Zealand Prime Minister Jacinda Ardern during the Covid-19 Pandemic'. *Human Resource Development International* 23 (4): 361–79. <https://doi.org/10.1080/13678868.2020.1779543>.
- Ministry for Primary Industries. 2019. 'Situation and Outlook for Primary Industries'. Wellington: New Zealand Government.
- Ministry of Business, Innovation and Employment. 2020. 'Quarterly Labour Market Report'. Wellington: New Zealand Government.
- Ministry of Health NZ. 2017. 'New Zealand Influenza Pandemic Plan: A Framework for Action.' Wellington: New Zealand Government.
- — —. 2020a. 'Novel Coronavirus Update - 24<sup>th</sup> January 2020'. *New Zealand Government*, 24 January 2020. <https://www.health.govt.nz/news-media/news-items/novel-coronavirus-update-24th-january-2020>.
- — —. 2020b. 'Sadly, First Death from COVID-19 in New Zealand'. *New Zealand Government*, 29 March 2020. <https://www.health.govt.nz/news-media/media-releases/sadly-first-death-covid-19-new-zealand>.
- — —. 2020c. '3 New Cases of COVID-19'. *New Zealand Government*, 23 April 2020. <https://www.health.govt.nz/news-media/media-releases/3-new-cases-covid-19>.
- — —. 2020d. 'Updated COVID-19 Māori Response Action Plan'. Wellington: New Zealand Government. <https://www.health.govt.nz/publication/updated-covid-19-maori-response-action-plan>.

- — —. 2021. 'COVID-19: Current Cases'. Ministry of Health. 2021. <https://www.health.govt.nz/our-work/diseases-and-conditions/covid-19-novel-coronavirus/covid-19-data-and-statistics/covid-19-current-cases>.
- Ministry of Health NZ and Ministry of Health. 2018. *Achieving Equity in Health Outcomes: Highlights of Important National and International Papers*. [https://natlib-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=NLNZ\\_ALMA11318167390002836&context=L&vid=NLNZ&search\\_scope=NLNZ&tab=catalogue&lang=en\\_US](https://natlib-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=NLNZ_ALMA11318167390002836&context=L&vid=NLNZ&search_scope=NLNZ&tab=catalogue&lang=en_US).
- Ministry of Māori Development. 2020. 'Economic Impact of COVID-19'. Wellington: New Zealand Government.
- Moir, Jo. 2020. 'Covid-19 Visa Extensions Allow Visitors, Migrants More Time'. RNZ, 4 September 2020, sec. Politics. <https://www.rnz.co.nz/news/political/425240/covid-19-visa-extensions-allow-visitors-migrants-more-time>.
- Nagar, Swati. 2020. 'NZ Needs a Plan to Help Migrant Workers Pick Fruit and Veg, or Prices Will Soar and Farms Go Bust'. *The Conversation* (blog). 25 November 2020. <http://theconversation.com/nz-needs-a-plan-to-help-migrant-workers-pick-fruit-and-veg-or-prices-will-soar-and-farms-go-bust-150447>.
- National Crisis Management Centre. 2020. 'COVID19 National Action Plan 3'. Wellington: New Zealand Government. <https://covid19.govt.nz/assets/resources/legislation-and-key-documents/COVID19-National-Action-Plan-3-as-of-22-April-extended.pdf>.
- New Zealand Government. 2020a. 'History of the COVID-19 Alert System'. Unite against COVID-19. 2020. <https://covid19.govt.nz/alert-system/history-of-the-covid-19-alert-system/>.
- — —. 2020b. 'New Zealand COVID-19 Alert Levels'. Wellington: New Zealand Government. <https://covid19.govt.nz/assets/resources/tables/COVID-19-alert-levels-detailed.pdf>.
- New Zealand Treasury. 2020. 'Government Support for Businesses Recovering from COVID-19'. Wellington: New Zealand Government. <https://www.treasury.govt.nz/sites/default/files/2020-12/Govt-support-business-COVID-19-Dec222020.pdf>.
- OECD. 2019. *OECD Economic Surveys: New Zealand 2019*. OECD Economic Surveys: New Zealand. OECD. <https://doi.org/10.1787/b0b94dbd-en>.



- Organisation for Economic Cooperation and Development (OECD). 2020. 'Beyond Containment: Health Systems Responses to COVID-19 in the OECD'. OECD Policy Responses to Coronavirus (COVID-19). OECD Policy Responses to Coronavirus (COVID-19). OECD. <https://doi.org/10.1787/6ab740c0-en>.
- Patel, Jay, and Devi Sridhar. 2020. 'We Should Learn from the Asia–Pacific Responses to COVID-19'. *The Lancet Regional Health - Western Pacific* 5 (December): 100062. <https://doi.org/10.1016/j.lanwpc.2020.100062>.
- Phua, Jason, Mohammad Omar Faruq, Atul P. Kulkarni, Ike Sri Redjeki, Khamsay Detleuxay, Naranpurev Mendsaikhan, Kyi Kyi Sann, et al. 2020. 'Critical Care Bed Capacity in Asian Countries and Regions': *Critical Care Medicine* 48 (5): 654–62. <https://doi.org/10.1097/CCM.0000000000004222>.
- Poata-Smith, Evan Te Ahu. 2013. 'Inequality and Māori'. In *Inequality: A New Zealand Crisis*, edited by Max Rashbrooke, 148–64. Wellington: Bridget Williams Books.
- Reuters. 2020. 'New Zealand to Charter Flight to Wuhan to Help Citizens Leave'. Reuters, 30 January 2020. <https://www.reuters.com/article/us-china-health-newzealand-idUKKBN1ZT09T>.
- Rice, Geoffrey W. 2020. 'How Reminders of the 1918–19 Pandemic Helped Australia and New Zealand Respond to COVID-19'. *Journal of Global History* 15 (3): 421–33. <https://doi.org/10.1017/S1740022820000285>.
- Robert, Alexis. 2020. 'Lessons from New Zealand's COVID-19 Outbreak Response'. *The Lancet Public Health* 5 (11): e569–70. [https://doi.org/10.1016/S2468-2667\(20\)30237-1](https://doi.org/10.1016/S2468-2667(20)30237-1).
- Robertson, Grant. 2020a. '\$12.1 Billion Support for New Zealanders and Business'. *New Zealand Government*, 17 March 2020. <http://www.beehive.govt.nz/release/121-billion-support-new-zealanders-and-business>.
- . 2020b. 'Summary of Initiatives in the COVID-19 Response and Recovery Fund (CRRF) Foundational Package'. Wellington: New Zealand Government. <https://www.treasury.govt.nz/system/files/2020-05/b20-sum-initiatives-crrf.pdf>.
- Roy, Eleanor Ainge. 2020. 'New Zealand and Australia Close Borders to Foreigners amid Coronavirus Crisis'. *The Guardian*, 19 March 2020, sec. World news. <http://www.theguardian.com/world/2020/mar/19/new-zealand-closes-borders-to-foreigners-amid-coronavirus-crisis>.

- Shaw, Richard. 2020. 'Jacinda Ardern and Labour Returned in a Landslide'. *The Conversation* (blog). 17 October 2020. <https://theconversation.com/jacinda-ardern-and-labour-returned-in-a-landslide-5-experts-on-a-historic-new-zealand-election-148245>.
- Smith, Mark. 2020. 'Economic Note: Impacts of COVID-19 on the NZ Tourism Sector'. Auckland: Auckland Savings Bank.
- Stats NZ. 2020a. '2018 Census'. Wellington: New Zealand Government. <https://www.stats.govt.nz/information-releases/2018-census-nz-stat-tables>.
- — —. 2020b. 'Tourism Satellite Account: Year Ended March 2020'. Wellington: New Zealand Government.
- — —. 2020c. 'Quarterly GDP Bounces Back, but COVID Still a Drag on Annual Growth'. *New Zealand Government*, 17 December 2020. <https://www.stats.govt.nz/news/quarterly-gdp-bounces-back-but-covid-still-a-drag-on-annual-growth>.
- Steyn, Nicholas, Rachele N. Binny, Kate Hannah, Shaun C. Hendy, Alex James, Tahu Kukutai, Audrey Lustig, et al. 2020. 'Estimated Inequities in COVID-19 Infection Fatality Rates by Ethnicity for Aotearoa New Zealand'. Preprint. *Epidemiology*. <https://doi.org/10.1101/2020.04.20.20073437>.
- Summers, Dr Jennifer, Dr Hao-Yuan Cheng, Professor Hsien-Ho Lin, Dr Lucy Telfar Barnard, Dr Amanda Kvalsvig, Professor Nick Wilson, and Professor Michael G Baker. 2020. 'Potential Lessons from the Taiwan and New Zealand Health Responses to the COVID-19 Pandemic'. *The Lancet Regional Health - Western Pacific* 4 (November): 100044. <https://doi.org/10.1016/j.lanwpc.2020.100044>.
- Tomkins, Sandra M. 1992. 'The Influenza Epidemic of 1918–19 in Western Samoa'. *The Journal of Pacific History* 27 (2): 181–97. <https://doi.org/10.1080/00223349208572706>.
- Tourism New Zealand. 2021. 'Tourism New Zealand's Response to COVID-19'. 18 February 2021. <https://www.tourismnewzealand.com/news/tourism-new-zealands-response-to-covid-19/>.
- Verrall, Dr Ayesha. 2020. 'Rapid Audit of Contact Tracing for Covid-19 in New Zealand'. Wellington: University of Otago.

- Wang, C. Jason, Chun Y. Ng, and Robert H. Brook. 2020. 'Response to COVID-19 in Taiwan: Big Data Analytics, New Technology, and Proactive Testing'. *JAMA* 323 (14): 1341. <https://doi.org/10.1001/jama.2020.3151>.
- Wilson, Nick, Dr Lucy Telfar Barnard, and Dr Amanda Kvalsvig. 2020. 'Potential Health Impacts from the COVID-19 Pandemic for New Zealand If Eradication Fails: Report to the NZ Ministry of Health'. Wellington: University of Otago.
- Wilson, Suze. 2020. 'Pandemic Leadership: Lessons from New Zealand's Approach to COVID-19'. *Leadership* 16 (3): 279–93. <https://doi.org/10.1177/1742715020929151>.
- Woods, Megan. 2020. 'Government Strengthens Managed Isolation System'. *New Zealand Government*, 28 June 2020. <http://www.beehive.govt.nz/release/government-strengthens-managed-isolation-system>.
- World Health Organisation. 2020. 'Report of the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19)'. <https://www.who.int/docs/default-source/coronaviruse/who-china-joint-mission-on-covid-19-final-report.pdf>.
- World Health Organisation (WHO). 2020. 'Timeline: WHO's COVID-19 Response'. World Health Organisation (WHO). 2020. <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/interactive-timeline>.



Chapter

# 07

International Comparative Analysis of COVID-19 Responses

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## **COVID-19 Responses in Finland: Uneven, Fairly Effective, and Craving to Return to the Normal**

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## Chapter 7. COVID-19 Responses in Finland: Uneven, Fairly Effective, and Craving to Return to the Normal

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### Abstract

In Finland, which according to many indicators is quite an average OECD member country, the COVID-19 responses have first and foremost evolved in the interface of a majority coalition government on the one hand, and on the other the Constitutional Committee of Parliament. Although a majority coalition can count on winning majority support to its proposals for legislation and for government expenditures, the Committee has at many instances indicated that proposed new legislation to combat the pandemic should not be passed on such constitutional grounds as excessively restricting people's freedoms and liberties. This has crucially curtailed possibilities to use strong measures, such as imposing more than one and short lock-down in spring 2020 in the capital city region, closing restaurants, making mask use compulsory, or imposing restrictions to people's movement. However and fortunately, immediately after another major government legislation proposal fell at the end of March 2021 because of the opinion of the Constitutional Committee, the COVID-19 incidence, which had been reaching all-time peaks, suddenly fell drastically, making Finland again one of Europe's countries that suffer least from the pandemic.

Health care in Finland is essentially a responsibility of the self-governing municipalities drawing the bulk of their revenue from the local income tax, although there is also statutory occupational health care, a system of health care for students of university and polytechnic higher education, and commercial health care providers. During the pandemic, the capacity of Finland's health care sufficed reasonably well both as concerns COVID-19 testing, COVID-19 care at homes, COVID-19 care in the in-patient clinics of municipal health centers, analogous care in the central hospitals and university hospitals both run by associations of municipalities, and as concerns intensive COVID-19 hospital care and COVID-19 vaccinations. In the combat against the pandemic, the Finnish municipal sector including its clinical professionals and its health care managers was working remarkably independently, enabled by major government funding paid to the municipal sector in the capacity of a major extraordinary grant.

The pandemic has revealed important fault lines in Finnish politics and society. Socially isolated people have been hit hard, as have many of those working in such vulnerable sectors as hotels, restaurants, and the transportation of people. Lately, one of Finland’s four parties with most seats in Parliament has comprised the right-wing populist party called the Finns. Generally, those who indicate they support the Finns also indicate the lowest willingness to obey COVID-19 related restrictions and follow COVID-19 related recommendations. However, as concerns reluctance to take a COVID-19 vaccination, the supporters of Finns, typically males, have been tailed by supporters of Greens, typically females.

## 1. Introduction, Background, and Observable Outcomes

In terms of many indicators Finland is an average OECD member country (Table 7-1). Unlike some others OECD countries, *in Finland the government rather than public administration has led the combat against the COVID-19 pandemic*. This makes the *party political framing* crucial. Since December 2019, Finland has a left-and-center majority government coalition of five parties and a right-and-center opposition of four parties (Table 7-2). The Finnish Parliament, the government and its ministers, the government Ministries and certain agencies under the Ministries have played key roles during the pandemic (Figure 7-1). The Finnish Institute for Health and Welfare (THL) under the Ministry of Social Affairs and Health comprises the foremost expert agency on pandemics (Communicable Diseases Act 1227/2016, Art. 7). In decision-making concerning the combat against the pandemic a division of labor has evolved between the public authorities (Figure 7-1) and other actors, in many respects reflecting political or other priorities to made decisions either in a high or a lower hierarchical level (Table 7-3).

**Table 7-1. Finland in Comparison with the Entire OECD (Tiirinki et al. 2020, modified).**

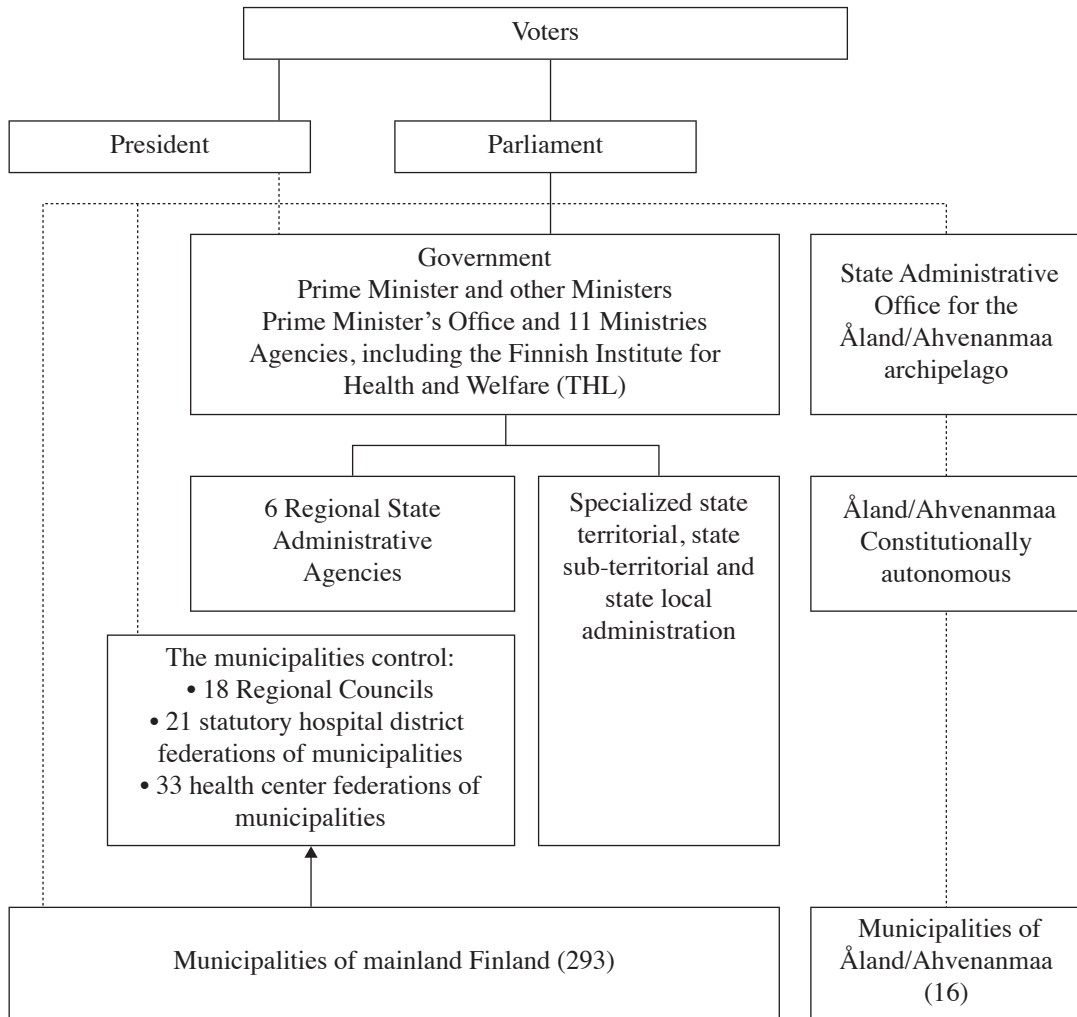
	Finland	OECD
Population	5,522,858	1,301,969,697
Population/sq.km	18.1	36.5
GDP PC, PPP, USD, 2019	45,990	42,935
At least 65-year-olds, %	16.1	17.2
Life expectancy, years	81.0	80.7
Health care expenditures, % of GDP	9.2	8.8
Practicing medical doctors/1,000 inhabitants	3.2	3.5
Practicing nurses/1,000 inhabitants	14.3	8.8
Hospital beds/1,000 inhabitants	3.3	4.7

**Table 7-2. Political Orientations of Parties in Finland (Isotalo, Söderlund and v. Schoultz 2020).**

	Political left-right dimension	Political progressive-conservative dimension	Parliament, 2019-	Government, 2019-
	In parentheses, 2011, 2015 and 2019 values		Seats	Ministers
Social Democratic Party	Moderate left (4.36-4.56-4.11)	Center (4.89-4.72-4.75)	40	7
Finns	From center towards the right (5.16-5.82-6.2)	Increasingly conservative (6.38-6.26-6.57)	38	0
Coalition	Right (7.36-7.71-7.55)	From center towards more progressivism (5.05-4.60-4.58)	38	0
Center	Moderate right (6.66-6.56-6.46)	From moderate conservatism towards more progressivism (5.37-5.51-4.97)	31	7
Green League	From moderate left further towards the left (4.46-4.30-3.95)	Progressive (3.25-3.80-2.95)	20	3
Left Alliance	Increasingly left (2.28-2.53-1.79)	Increasingly progressive (4.44-3.80-3.17)	16	2
Swedish People's Party	Moderate right (6.26-6.62-6.30)	From center towards more progressivism (4.64-4.53-4.19)	10	2
Christian Democratic Party	Moderate right (6.32-5.95-6.34)	Morally conservative, centrist in social policies (6.31-5.79-5.56)	5	0
Others	-	-	2	0
			200	21



**Figure 7-1. Governance in Finland, 2020/2021 (from official public domain sources).**



Continuous line: steering; arrow, bottom-up steering; broken line, supervision, funding, etc.

**Table 7-3. Decision-making in Finland in Combat Against COVID-19 (Finnish Government 2021).**

	Government (Prime Minister and Ministers)	A government ministry or two or more ministries together	Finnish Institute for Health and Welfare (THL)	A municipality or a health care association of municipalities	A doctor in public health care responsible for contagious diseases	Regional State Administrative Agency	Other (such as other government agency, employer, or private association)
Making binding decisions							
Restrictions on crossing borders	X						
Restrictions on restaurants, etc.	X						
Closing public spaces		X		X			X
Exceptional education arrangements		X		X			X
Closing schools, etc.				X		X	
Prohibiting or restricting gatherings				X		X	
Closing private businesses				X		X	
Quarantine					X		
Restricting passenger numbers in transportation							X
Giving recommendations							
Distance work		X	X	X			
Mask wearing			X	X			
Visits to ward institutions				X			
Restricting private gatherings						X	

In Finland the constitutionally self-governing *municipalities are responsible for health care* (Table 7-3; THL 2019; Kuntaliitto 2020). The major municipal revenue source comprises the municipal income tax at the average rate of 20.02 per cent of taxable income in 2021. To provide for hospital care, each municipality belongs to one of the 21 statutory federations of municipalities, each managing a hospital district with either one of the 5 university hospitals or one of the 16 central hospitals. Each university hospital stands at the apex of a special responsibility territory for the most demanding care in a number

of hospital districts. Depending on the municipality, one of three alternative ways is used to provide for primary health care (Table 7-4). According to a government proposal to Parliament, with some exceptions health care would be moved from the municipalities to self-governing welfare regions that would be established (Eduskunta 2020a). However, Parliament decisions on the proposal will hardly be made before late 2021.

**Table 7-4. Finland's official health care actors (THL 2019).**

	Number	Municipalities	Population serviced
Hospital care			
Special responsibility under the coordination of university hospitals	5	All	All
Hospital districts with 16 central hospitals and 5 university hospitals	21	All	All
Primary health care			
Health center federations each with a health center	33	160	1,701,000
Health centers with a foremost responsible municipality and partner municipalities	26	61	572,000
Health centers of a single municipality	74	74	3,250,000
Individual clinics of the health centers	544	All	All

Until March 2021, Finland had a *low relative COVID-19 incidence* and moderate COVID-19 -related restrictions to be a European country (WHO 2020-2021). However, in mid-March 2021 Finland had *its worst COVID-19 emergency ever* with increasingly strict policies. Finland had a first COVID-19 wave from March to May 2020 and has had a second wave since September 2020 (Figure 7-2; Figure 7-3; Table 7-5; Table 7-6; Figure 7-4).

Figure 7-2. Comparative COVID-19 Incidence in Selected Countries, 2020-2021, Logarithmic Scale (Our World in Data 2021, screenshot 15 March 2021).

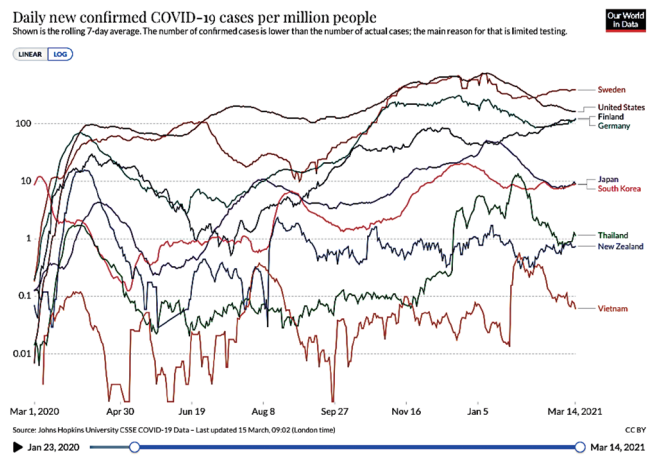
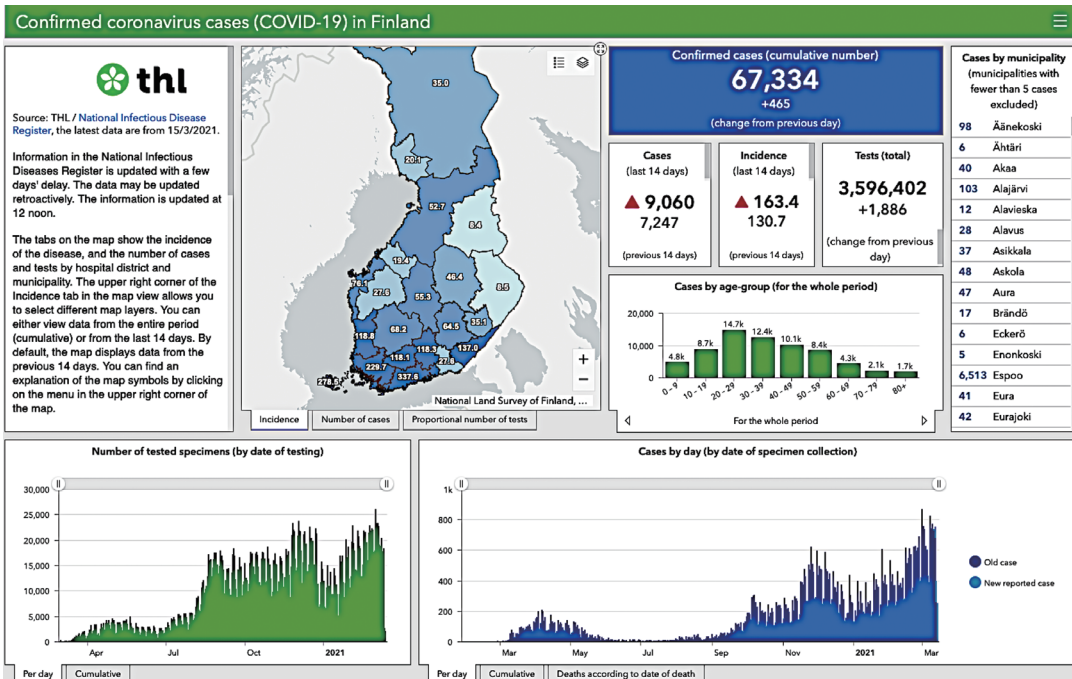


Figure 7-3. Outline of the COVID-19 Pandemic in Finland (Confirmed coronavirus cases 2020-2021, screenshot 15 March 2021).



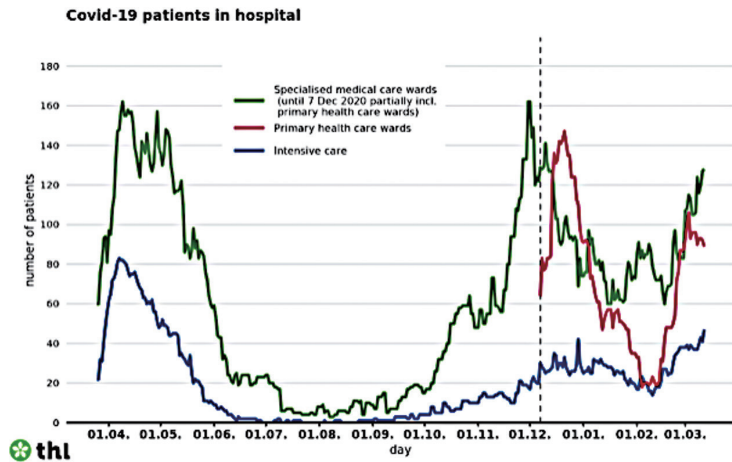
**Table 7-5. COVID-19 in Finland from January to 31 August 2020 (Confirmed coronavirus cases 2020-2021; Situation update on coronavirus 2020-2021; amended).**

Incidents	Explanation
First signs	
Wuhan, China	In Finnish news since 25 January (Satakunnan Kanssa 2020).
First domestic case	A tourist from Wuhan hospitalized in Finland, 28 January 2020 (Helsingin Sanomat 2020a)
Government preparedness	The first consideration of the pandemic among the government ministers on 26 February 2020 (Helsingin Sanomat 2020b).
First Wave, 1 March until 15 June, 2020	
Expansion	From early March to early April, 2020.
Confirmation	First, limited testing capacity.
Peak of deaths	From 4 to 20 April, 2020; absolute peak 19 deaths on 20 April 2020.
Testing	5,000/weekday at the maximum.
Concentration	Helsinki and the surrounding region, and other, minor concentrations.
Policies	See section 2.
Summary	7,300 infections, 800 in general hospital care, 220 in intensive care, 330 deaths. For variations in hospitalization see Figure 7-4.
Abatement and plateau, 16 June to 31 August, 2020	
Expansion	None.
Confirmation	Increasing testing capacity.
Testing	Maximally 5,600/day in July, maximally 17,000/day in August.
Policies	See section 2.
Summary	1,200 infections, few hospitalizations in general or intensive care (see Figure 7-4), 20 deaths.

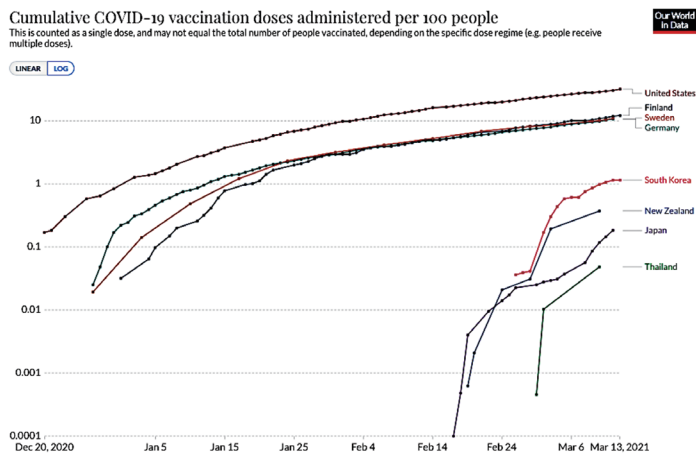
**Table 7-6. COVID-19 in Finland from 1 September 2020 to 15 March 2021 (Confirmed coronavirus cases 2020-2021; Situation update on coronavirus 2020-2021; amended).**

Incidents	Explanation
1 September to 31 December 2020	
Expansion	At the turn of September and October, 306 cases/day at the maximum; since late November until mid-December, 600/day at the maximum. Another peak with 428/day on 20 December, 2020.
Confirmation	A sufficient testing capacity with up to 26,000 tests/day; in addition antigen testing capacity.
Peak of deaths	14 December, 2020, 11 deaths.
Testing	From late November to late December, 2020, a few days with over 23,000 tests.
Abatement	A plateau from mid-October to mid-November, maximally 289 infections /day.
Policies	See section 2.
Concentration	Somewhat more evenly distributed over the country than the first wave.
Vaccinations	Started 27 December 2020.
Summary	29,304 infections, 800 in general hospital care, 100 in intensive care, 219 deaths. For variations in hospitalization see Figure 7-4.
Summary for 2020: January to 31 December	
	36,604 infections, 549 deaths, 29,000 recovered, 2,505,268 tests.
Summary from 1 January 2021 to 15 March 2021	
General aspects	30,730 infections (from among which 1,736 COVID-19 variant infections), 252 deaths, 1,091,134 tests. On 15 March 2021, 217 people in general hospital care, 47 in intensive care. For variations in hospitalization see Figure 7-4. Finland has altogether 18,000 common hospital beds and 400 intensive care hospital beds.
Vaccinations	680,818 vaccinations (12.6 per 100 people); 594,804 first shots, 86,014 second shots. See Figure 7-5.

**Figure 7-4. COVID-19 Patients in Finland in Common and Intensive Care, 2020 to 2021 (Situation update on coronavirus 2020-2021).**



**Figure 7-5. Comparative progress of COVID-19 vaccinations in selected countries, 2021, logarithmic scale (Our World in Data 2021, screenshot 15 March 2021). Data are lacking on Vietnam.**



## 2. Government policies

### 2.1. Extreme Measures: Two States of Exception, and Prescribing Quarantine and Isolation

According to Finland's Preparedness Act, the President of the Republic and the government may jointly conclude that a contingency such as a pandemic requires government state-of-exception decrees (Preparedness Act 1552/2011). These decrees must be sent to Parliament, which will decide whether the decrees will come into force for the period intended, a shorter period, or not at all, and in full or only in part. During the pandemic, *Finland has had two states of exception*, one in spring 2020 and the other in spring 2021.

The Finnish government first passed extraordinary decrees between 17 March and 15 June 2020 (Eduskunta 2020b), and a state of exception prevailed like in many other countries (e.g., De Leo 2020; Merkel 2020; Petrov 2020). From 17 March to 13 April 2020 state-of-exception arrangements in health care were activated, from 18 March to 13 May 2020 all schools were closed, there was a 27 March to 16 April 2020 lockdown of Helsinki and the surrounding region, and from 4 April to 31 May 2020 all restaurants were closed (Eduskunta 2020b). On 1 March 2021 the President and the government again jointly draw a conclusion on a state of exception (Eduskunta 2020b). On 5 March 2021 the government passed four extraordinary decrees, sent these to Parliament for critical consideration and received Parliament consent (Valtioneuvosto 2021a). The decrees empower the Ministry of Social Affairs and Health and the Regional State Administrative Agencies to issue orders to actors of public and private sector health care; enable municipalities to postpone non-urgent health care; concentrate communication on COVID-19 to the Communication Department of Prime Minister's Office; and empower the government chaired by the Prime Minister to resolve COVID-19 -related disagreements between public authorities. The decrees were made valid from 11 March until 30 April 2021.

Constitutional law experts criticized the 2020 state of exception for excessively restricting constitutional rights and liberties (Helsingin Sanomat 2020c; Moisio 2020) as happened in other countries (Leo 2020; Merkel 2020; Petrov 2020). Later, the constitutional experts asked if Art. 23 of the Finnish Constitution on basic rights and liberties in situations of emergency could be activated to pass temporary legal norms for the expected duration of a pandemic (Scheinin 2021). Indeed, this became one of the courses taken later on. During the first state of exception the political opposition stayed calm, suggesting that the pandemic was heavily "securitized" (Nunes 2020), setting aside normal adversary and deliberative politics. The March 2021 state of exception received the support of all government and opposition parties with the exception of Finns of the extreme political right. Moreover, during the pandemic the Finnish government has proposed and Parliament has accepted



numerous temporary and permanent amendments to the Communicable Diseases Act and other acts to enable stronger measures (Communicable Diseases Act 1227/2016; THL 2020-2021a, b). According to Finland's Criminal Act, the maximal sanctions for violations of norms on health protection including norms related to COVID-19 are composed of a fine or imprisonment for three months (Criminal Act 39/1889, Chapter 44, Article 2). However, cases hardly are known of imposing such sanctions.




Quarantine and isolation as defined in the Communicable Diseases Act have been routinely and amply prescribed throughout the pandemic. A communicable disease control physician prescribes a *quarantine* for a person exposed to a hazardous communicable disease. A person with a communicable disease including a positive COVID-19 test result can be *isolated* either in a hospital or at a home.

## 2.2. A hybrid Strategy, Restrictions, Recommendations, and Contact Tracing

Since a government 6 May 2020 Finnish government decision-in-principle, a *hybrid strategy* of *test-trace-isolate-care* has comprised the main policy tool to combat the COVID-19 pandemic (Valtioneuvosto 2020-2021; VNK 2020a; STM 2020). The government monitors the strategy on three ways (THL 2020-2021b), publishing weekly or bi-weekly a monitoring report on the strategy proper, a report of epidemiological monitoring, and a summary of restrictions and recommendations. The implementation of the hybrid strategy is pinned to the phase of the pandemic in different parts of the country (THL 2020-2021a; STM 2021; WHO 2020). At *the baseline* phase, morbidity is low and the proportion of endemic infections is small. *The acceleration phase* has a regional incidence of 10-15 weekly cases/100,000 people and no more than 25 bi-weekly cases/100,000. Over 1 percent of tests are positive, and occasional local and regional chains of infection evolve. Sources of infection can usually be traced, and hospital capacity generally suffices. In *the community transmission phase* infections spread regionally or more widely with a weekly incidence exceeding 15 cases/100,000 and a bi-weekly incidence exceeding 25–50 cases/100,000. The daily case growth rate exceeds 10 percent, more than 2 percent of tests are positive, and less than half of the infection sources can be traced. The needs for hospital care including intensive care grow fast.

On 26 January 2021 the Finnish government amended its action plan of implementing its COVID-19 hybrid strategy (Valtioneuvosto 2021b). To the notion of “phase”, indicating seriousness of the pandemic, the notion of “tier” was added, signifying the character of the anti-pandemic measures (Figure 7-6).

Figure 7-6. Phases and Tiers Related to the COVID-19 Pandemic in Finland (Valtioneuvosto 20201c).

<b>Phases of the epidemic</b> Regional COVID-19 situation monitored using various indicators.			
<b>Tiers of prevention measures</b> Transition to the next tier if it is anticipated that the current measures will not be sufficient.	<b>Baseline phase</b> 	<b>Acceleration phase</b> 	<b>Community transmission phase</b> 
<b>Tier 1</b> Epidemic continues, measures fully implemented in areas in the community transmission phase.	Restrictions in place according to the guidelines	Restrictions in place according to the guidelines	Restrictions in place according to the guidelines
<b>Tier 2</b> Threat of the spread of the epidemic increasing throughout the country.	Measures for the community transmission phase in place throughout the country or in specified areas.		
<b>Tier 3</b> Epidemic poses a direct threat to the carrying capacity of the healthcare system or to the health of the population.	Emergency conditions; necessary restrictions on movement in addition to the restrictions above.		

For more detailed information, visit [www.stm.fi](http://www.stm.fi)

As recommended by constitutional law experts with reference to Art. 23 of the Finnish Constitution, the government proposed to Parliament a temporary 8 to 28 March 2021 amendment to Communicable Diseases Act (1227/2016). The amendment, which Parliament accepted, enabled the full closure of restaurants and comparable installations in other regions than those with low COVID-19 incidence (Eduskunta 2021a). The COVID-19 situation rapidly aggravating, on 11 March 2021 the government made the Parliament two proposals on permanent amendments to the Communicable Diseases Act (1227/2016) to extend government powers to influence more effectively the opening hours of restaurant and comparable installations. By mid-March 2021, Parliament had not yet acted on the proposals.

On 9 July 2020 the Communicable Diseases Act (1227/2016) article on quarantine was permanently made stricter. On 29 October 2020, the Act was permanently amended to enable implementation even when an appeal has been made to a law court to cancel a restriction order made by a public authority.

Since the start of the pandemic, foreign traveling has been restricted. Analogously as during the spring 2020 state of exception, on 12 October 2020 a temporary end was made to crossing borders without border controls between Finland and the other Schengen treaty countries. To avoid violating the Schengen treaty, on 23 November 2020 measures of health security were substituted for the border controls (Valtioneuvosto 2020a), although the European Commission later opined that these measures did not resolve the issue. Non-citizens arriving to Finland from high COVID-19 incidence countries were supposed to indicate a negative result from a test not taken later than 72 hours earlier. However, providing such evidence was voluntary, and re people unknowingly or knowingly carrying the virus entered the country and spread the disease. To resolve the issue, the government proposed to Parliament on 19 February 2021 to amend the Communicable Diseases Act (1227/2016) to make it crystal clear that the Regional State Administrative Agencies (RSAs) are indeed vested with powers

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to oblige others than Finnish citizens entering Finland to present a valid negative test result on arrival and another analogous result after a specific interval (Eduskunta 2021b). By 15 March 2021 Parliament had not yet taken its decision. However, on 13 March 2021 Finland's Prime Minister made it clear that the government has no means to force any RSAA to use its powers whether or not the proposed legislation would be passed (Helsingin Sanomat 2021).

Besides restrictions, Finnish authorities have made numerous recommendations during the pandemic (see, e.g., Valtioneuvosto 2020b, c; Finnish Government 2021). Examples can be given (Table 7-7).

**Table 7-7. Examples of Restrictions, Recommendations and Health Care Measures in Finland (THL 2020a, amended; STM 2020; amended). The Situation in Mid-March is Indicated If Possible.**

	<b>Restrictions</b>	<b>Recommendations</b>	<b>Health care measures</b>
Baseline (5 hospital districts)	<ul style="list-style-type: none"> <li>• No more than 20 or 50 people in public gatherings, museums, and youth and indoor sports</li> <li>• Government country-wide restrictions concerning restaurants (limited opening hours, partial use of seating capacity)</li> </ul>	<ul style="list-style-type: none"> <li>• Using masks if any infections during the last two weeks</li> <li>• Keeping distances and coughing, sneezing and hand hygiene</li> <li>• Using the COVID-19 tracing application</li> <li>• Public sector employees doing distance work</li> <li>• Avoiding gatherings of more than 10 or 20 people</li> </ul>	<ul style="list-style-type: none"> <li>• Information campaigns</li> <li>• Preparedness maintenance by means of health care procurement</li> <li>• Creation and maintenance of testing capacity</li> </ul>
Acceleration phase (8 hospital districts)	<ul style="list-style-type: none"> <li>• Limited use of public libraries</li> <li>• Maximally 20 people in public gatherings, museums, and youth and indoor sports</li> <li>• Government country-wide restrictions concerning restaurants</li> </ul>	<ul style="list-style-type: none"> <li>• Baseline recommendations apply except where made stricter</li> <li>• All employees in distance work if possible</li> <li>• No private gatherings with more than 10 participants</li> <li>• Municipal decisions on distance learning in all education except kindergartens and elementary and junior secondary education</li> <li>• No sports activities for over 20-year-olds</li> <li>• Due care in sports activities for less than 21-year-olds</li> <li>• No traveling to areas at the community transmission phase</li> <li>• No traveling to countries with entry restrictions from Finland</li> </ul>	<ul style="list-style-type: none"> <li>• Increasing testing capacity</li> <li>• Information campaigns</li> <li>• Undelayed testing</li> <li>• Focusing upon incidents of high exposure risk</li> <li>• Readiness to introduce quarantine in cases of mass exposure</li> </ul>
Community transmission phase (8 hospital districts)	<ul style="list-style-type: none"> <li>• No public gatherings inside or outside, or, alternatively, no such gatherings with over 10 participants</li> <li>• Municipal closings of other than the most essential services; yet, possibly, limited use of public libraries</li> <li>• Municipal decisions on distance learning except in kindergartens and elementary and, possibly, junior secondary education</li> <li>• Possibly, prohibitions to visit other than psychiatric, palliative and maternity wards</li> <li>• Government country-wide restrictions concerning restaurants</li> </ul>	<ul style="list-style-type: none"> <li>• In some districts, no private gatherings with over 6 or 10 participants; in other districts, no such gatherings</li> <li>• Due care with high-risk groups</li> <li>• Private providers recommended to close their sports and recreational services</li> </ul>	<ul style="list-style-type: none"> <li>• Preparedness to use available stocks of health care material</li> <li>• Preparedness for substantial increases in health care capacity</li> </ul>

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The Finnish Institute for Health and Welfare commissioned the contact tracing application *Koronavilkku* from a private ICT company and published this application in August 2020 (THL 2020b). *Koronavilkku* helps people estimate if they have been exposed to the virus and share anonymously their positive test result that they possibly receive. There have also been trained voluntary infection tracers whose expertise has been used with success, and the Institute for Health and Welfare has made a web self-test of COVID-19 symptoms available (Omaolo 2020).

### **2.3. Masks: Scandalous, Politicized, and not Compulsory**

Finland lacks traditions mask wearing (Li et al. 2020). In spring 2020 there was an initial lack of masks, and the authorities reserved masks for health care and social welfare employees. A deal to buy masks from entrepreneurs with criminal records forced the head of the National Emergency Supply Agency to resign in April 2020 (Yle 2020a). Since May 2020 masks have been easily available. In October, 2020 Coalition from among the opposition parties (see Table 7-2) suggested political non-confidence towards Ms. *Krista Kiuru*, the minister of family affairs and social services, for procrastination in making masks available. However, the parliamentary majority voted for confidence in the minister (Yle 2020b). Since spring 2020, Finland has had official recommendations to use masks (see, for instance, THL 2020c). However, masks have not been made compulsory, although providers of public and private services may decline service from non-users.

### **2.4. Summary of Policy Responses**

Table 7-8 summarizes the Finnish policy responses during the first COVID-19 wave and the abatement and plateau phase. Table 7-9 overviews the responses during the second COVID-19 wave.

**Table 7-8. Finnish Policy Responses to the COVID-19 Pandemic from March to August, 2020 (from one of 28 country studies in the same journal, Tiirinki et al. 2020, amended and modified).**

Category	Sub-category	Strength	Legal basis	Examples
Containing the spread of the virus	Pre-peak and peak	Weak: Recommendations or discretionary decisions	None	<p>Recommendations:</p> <ul style="list-style-type: none"> <li>• At least 70-year-olds in quarantine-like conditions</li> <li>• Mask wearing in public places</li> <li>• Coughing and sneezing hygiene</li> <li>• A safety distance of 1 to 2 meters</li> <li>• Using hand disinfectant and washing hands</li> <li>• Avoiding personal contact</li> <li>• Going to test if symptoms suggest infection</li> <li>• Avoiding public places, until 31 May</li> <li>• Private sector employees in distance work if possible</li> <li>• Self-quarantine after traveling abroad</li> </ul>
			Ordinary legislation: Communicable Diseases Act 1227/2016 and others	<p>Decisions by municipalities or federations of municipalities on, for instance:</p> <ul style="list-style-type: none"> <li>• The temporary full closure or restricted use of services</li> <li>• Prohibiting or limiting visits of family members to institutions of care</li> </ul> <p>Public sector employees instructed to work from home if their duties allow</p>
		Moderate: Binding but no sanctions	Ordinary legislation	<p>Examples:</p> <ul style="list-style-type: none"> <li>• No public events and gatherings with more than 10 people</li> <li>• As above, but a limit of 50 people since 1 June</li> <li>• On their own decisions, universities in distance learning almost entirely since March 2020</li> <li>• Extension of sickness leave benefits to those in quarantine</li> <li>• Temporary exceptions to legislation on bankruptcies and on distraint</li> <li>• Substantial increases to government guarantees to exporting companies</li> <li>• Supplementary government budget allocations: <ul style="list-style-type: none"> <li>- To municipalities responsible for most health care in Finland</li> <li>- To sectors most vulnerable to the pandemic</li> </ul> </li> </ul>
			State-of-exception powers: Preparedness Act 1552/2011	<ul style="list-style-type: none"> <li>• All educational institutions closed from 18 March to 13 May</li> <li>• All restaurants closed from 4 April to 31 May</li> </ul>
Strong: Binding, sanctions for non-compliance	Communicable Diseases Act 1227/2016	<ul style="list-style-type: none"> <li>• Those tested positive for COVID-19 in isolation</li> <li>• Exposed persons in quarantine for two weeks</li> </ul>		

Category	Sub-category	Strength	Legal basis	Examples		
			Other ordinary legislation	Norms on free movement without border controls temporarily lifted in Finland's borders with other Schengen countries		
			State-of-exception powers	<ul style="list-style-type: none"> <li>• Lockdown of Helsinki and the surrounding region from 27 March to 16 April</li> <li>• Only necessary boundary crossing allowed</li> </ul>		
	Post-peak	Weak	None	Recommendations: <ul style="list-style-type: none"> <li>• Wearing a mask in public places</li> <li>• Wearing a mask in public transportation, since 13 August</li> <li>• Coughing and sneezing hygiene</li> <li>• Keeping a safety distance of 1 to 2 meters</li> <li>• Disinfecting and washing hands</li> <li>• Avoiding personal contact</li> <li>• Self-quarantine after returning from high to moderate risk countries</li> <li>• Going to test if symptoms suggest infection</li> </ul> Contact tracing application Koronavilkku introduced in August 2020		
				Moderate	Ordinary legislation	<ul style="list-style-type: none"> <li>• Temporary closings of schools or school classes with infections</li> <li>• No public events and gatherings inside with more than 50 people until early June</li> <li>• No public events outside with more than 500 people until 31 July</li> <li>• In June, only 50 per cent occupation of seats in restaurants allowed; since July, no restrictions</li> </ul>
						Strong
	Prevention and cure	Pre-peak and peak	Weak	None	Increasing testing and tracing capacity	
Moderate			Ordinary legislation	<ul style="list-style-type: none"> <li>• Additional PPE (personal proactive equipment) purchased by the National Emergency Supply Agency, hospital districts, and municipalities</li> <li>• Prioritization (urgent vs. non-urgent care, ventilators, masks, PPE, and intensive care unit (ICU) nurses, use of retired professionals)</li> </ul>		
			Emergency powers short of state-of-exception powers	<ul style="list-style-type: none"> <li>• Norms on regular working hours, extraordinary work shifts and the timing of vacations temporarily lifted in health care</li> <li>• Norms on providing non-urgent care within specified time limits temporarily lifted to scale up ICU capacity</li> </ul>		
Post-peak		Weak	Ordinary legislation	<ul style="list-style-type: none"> <li>• Increased testing and tracing capacity</li> <li>• Increased testing in airports, harbors and land borders from 13 August onwards</li> <li>• Increased availability of PPE</li> </ul>		

**Table 7-9. Finnish Policy Responses from September 2020 Till Mid-March 2021 (structure modified from Tiirinki et al. 2020, entirely new contents).**

Category	Sub-category	Strength	Legal basis	Examples		
Containing the spread of the virus	Pre-peak and peak	Weak: Recommendations or discretionary decisions	None	<p>Recommendations:</p> <ul style="list-style-type: none"> <li>• Wearing a mask in public places</li> <li>• Coughing and sneezing hygiene</li> <li>• Keeping a safety distance, first 1 to 2 meters, later 2 meters</li> <li>• Disinfecting and washing hands</li> <li>• Avoiding personal contact</li> <li>• Going to test if symptoms suggest infection</li> <li>• Employers to favor distance work</li> </ul> <p>The tracing application loaded 2.5 million times</p>		
			Ordinary legislation: Communicable Diseases Act 1227/2016 and others	<ul style="list-style-type: none"> <li>• Decisions by municipalities or federations of municipalities on the temporary closure or restricted use of services</li> <li>• Prohibiting or limiting visits of family members to hospitals and other institutions of care</li> </ul>		
		Moderate: Binding, but no sanctions even if non-compliance	Ordinary legislation	Strategies graded by the three pandemic phases, such as:	<ul style="list-style-type: none"> <li>• Prohibitions or restrictions of the size of public gatherings</li> <li>• Different rules for eating restaurants and drinking restaurants; no full closure of either</li> <li>• Temporary closures of school classes and schools with infections</li> <li>• Possibly, moving all other than kindergarten, elementary education and, possibly, lower secondary education to distance learning</li> <li>• From October 2020 to the end of February 2021, temporary extended powers of public authorities to restrict the operations of restaurants</li> </ul>	
				Strong: Binding, sanctions for non-compliance	Ordinary legislation	<ul style="list-style-type: none"> <li>• Those with COVID-19 isolated either at a home or in a hospital</li> <li>• All exposed persons in quarantine for ten days</li> </ul>
					Emergency powers short of state-of-exception powers	Closure of all food and beverage businesses from 8 to 28 March 2021
		State-of-exception powers: Preparedness Act 1552/2011	1 March 2021 joint President and government declaration on another state of exception until 30 April 2021; government emergency decrees sent to Parliament, and accepted			



Category	Sub-category	Strength	Legal basis	Examples
	Post-peak	By mid-March 2021 no post-peak reached		
Prevention and cure	Pre-peak and peak	Weak	Ordinary legislation	<ul style="list-style-type: none"> <li>• A sufficient testing capacity</li> <li>• High-volume testing activity</li> <li>• Use of the tracing application</li> </ul>
		Moderate	Ordinary legislation	<ul style="list-style-type: none"> <li>• Coordination between hospitals, including the responsibility of one of the university central hospitals for the national coordination of care</li> <li>• Vaccination order (Government Decree 2020): (1) Health care personnel caring for coronavirus patients and personnel and residents in round-the-clock care facilities; (2) the at least 70-year-olds and persons with conditions predisposing them to COVID-19; (3) social welfare and health care personnel; (4) all other at least 16-year olds</li> <li>• Measures to reserve hospital capacity to increasing numbers of COVID-19 patients</li> </ul>
			Emergency powers short of state-of-exception powers	None related to prevention and cure
			State-of-exception powers: Preparedness Act 1552/2011	Two government decrees scrutinized and accepted by Parliament in March 2021: <ul style="list-style-type: none"> <li>• A decree on temporary extraordinary powers to issue orders to public and private health care</li> <li>• A decree on temporary postponement of non-urgent care</li> </ul>
	Post-peak	By mid-March 2021 no post-peak of the second wave had been reached		

## 3. Specifics of the Finnish Combat Against the COVID-19 Pandemic

### 3.1. The Health Care Frontline

Finland's compliance with international health regulations (WHO 2017) suggests a generally good capacity of Finnish health care (Section 1 above; Keskimäki et al. 2019) to combat the COVID-19 pandemic. There are other relevant characteristics. Depending on municipal decisions, patient visits to health centers are no-fee or low-fee, and each hospital outpatient visit and each inpatient hospital day is also low-fee. Municipal income subsidies are available for those without means to afford the low fees. Finland's universal sickness insurance has specific compensation rates for the prices of prescribed medicines – 40, 65, or 100 per cent. Moreover, the sickness insurance compensates personal medicine costs exceeding 600 euros a year, hospital outpatient and inpatient fees exceeding 700 euros a year, and contributes a daily sickness allowance for those in COVID-19 quarantine.

The Finnish state pays twenty per cent of Finland's health care costs, the municipalities forty per cent, the National Social Security Institution ten per cent, and the households twenty to twenty-five per cent (THL 2020d). There is also statutory occupational health care that employers have to provide for their employees and a dedicated system of health care for higher education students. Commercial for-profit health care companies service people with a private health insurance or means for out-of-pocket payments, employers acquiring their statutory occupational health care from commercial providers, and municipalities that have outsourced more or less of their health care. Although everybody with COVID-19 symptoms can have a free test in public health care, private drive-in clinics charging 100 euros or more for a test have mushroomed.

Since 2015, the Finnish government has a Situation Center, some of whose responsibilities are related to pandemics (Valtioneuvosto 2020e). The Finnish Institute for Health and Welfare has a Department of Health Security, whose Director, Professor *Mika Salminen*, has been the “expert face” of the government public administration during the pandemic (THL 2020e). One of Finland's five university hospitals has been given the task of coordinating intensive COVID-19 care between the 21 hospital districts and their hospitals (KYS 2020). What is more, in spring 2020 the Finnish government established a COVID-19 coordination group comprised of the permanent undersecretaries of all ministries and Prime Minister's Office, and a COVID-19 operational center in Prime Minister's Office, composed of civil servants from this office and all ministries. However, an assessment suspects the utility of the group and the center (Deloitte 2021).

## **3.2. Government-commissioned Special Studies and Official Statistics**

During the pandemic the capacity of Finnish health care and its personnel have been seriously tried; there have been postponements of somatic care unrelated to COVID-19; queues for less urgent health care have grown; and dips have occurred in visits to public primary health care and public dental care (Kestilä, Härmä and Rissanen 2020; THL 2021). There have been increases in smoking and the use of drugs; loneliness and hopelessness; calls to mental health lifelines; and unrest at homes calling for police attention. The socio-economic effects have included increased unemployment and more applications for unemployment benefits. The COVID-19 incidence has been highest among the socio-economically worst-off, and symptoms of lacking support to the distance learning of children in disadvantaged homes have been detected. The adverse socio-economic effects have generally been strongest where the pandemic has been severest (FinSote 2020).

According to official statistics, a part of the unemployment increase from 6.2 per cent to 7.4 per cent between October 2019 and October 2020 was caused by the pandemic (Statistics Finland 2020). From among the 2.5 million occupationally active people in Finland, during the pandemic 745,000, from among whom two thirds are female, have been defined to work in occupations critical for the functioning of society. Such male-dominated sectors as the industries and construction have been defined to be less critical. Sectors most adversely affected by the pandemic have included accommodation and catering, arts and entertainment, and passenger transportation.

People with precarious employment have suffered (Interview 2020/2021). Moreover, such social services have been discontinued for the time being as day-time activities for the elderly, rehabilitative work activities, and peer activities for people with an alcohol, drug, or gambling dependency (Interview 2020/2021).

## **4. Capacity of Policy Formulation and Implementation**

Expectations that Finnish health care could cope with extraordinary circumstances (WHO 2017) have generally been confirmed during the pandemic. However, scenarios and official plans had to be scrapped for reasons of using earlier influenza epidemics as the reference for combatting the COVID-19 pandemic (Interview 2020/20201).

### **4.1. Political, Policy-making and Administrative Capacity**

Finland has no Constitutional Court, but the Constitutional Committee of Parliament examines the constitutionality of government proposals, leading to the rejection of some of the COVID-19-related government legislation proposals on grounds of excessive restrictions to people's freedoms

and liberties. Parliament also has a Futures Committee, which commissioned an expert study that covered both the negative shorter- and longer-run implications of the pandemic, looking not only for negative implications but also positive implications of innovation and learning (Eduskunnan tulevaisuusvaliokunta 2020).

In Finland political leadership is in the hands of the government, which must enjoy the political confidence of Parliament. Because it is established that Finnish governments are multi-party majority coalitions, they characteristically have three to six party chairpersons holding ministerial portfolios. All parties in the government have had a say in Finland's combat against the COVID-19 pandemic, but the Prime Minister has increasingly spoken on behalf of the government. Comparable to PM Jacinda Ardern of New Zealand, the analogous role of Finland's Sanna Marin took her to a cover of the U.S. new magazine *Time* (Figure 7-7).

**Figure 7-7. Finland's Prime Minister Sanna Marin (Time 2021).**



The pandemic has been politically painful for Coalition from among the opposition parties and for the second largest government party, Center, both overshadowed by populist Finns of the extreme right. The Prime Minister's Social Democratic Party has generally fared well in polls (Yle 2020c; on the parties see Table 7-2). In April 2021 Finland was supposed have its first elections during the pandemic in the country's municipalities. However, with a Parliament act these elections were postponed until 13 June 2021 (Ministry of Justice 2021).

## 4.2. Analytical Capacity

Emulating other countries has been unimportant in the Finnish policies to combat pandemic. As an exception, in April 2020 Finland's foremost COVID-19 spokesperson, Professor Salminen of THL, referred to the good Korean experiences (Helsingin Sanomat 2020d). Finland's Prime Minister Sanna Marin, for her part, has emphasized the need for joint European Union strategies to combat the pandemic and to prevent the populist extreme right from reaping benefits from the chaos and frustration (Financial Times 2020). Her concerns have been well-founded given that the extreme right party, Finns, has fared no worse than the Prime Minister's party in the polls (Yle 2021).

In September 2020 a government report summarizing assessments by the individual government ministries was published on the health, social, economic, and constitutional rights effects of the government policies to combat the pandemic (VNK 2020b), although it has been doubted how useful these assessments actually were (Interview 2020/2021). As said, the Finnish Institute for Health and Welfare has a special standing as a government agency with expertise on pandemics. Early during the pandemic, the Finnish government commissioned scientific experts for a one-time panel on COVID-19 (Tiedepaneeli 2020). Since August 2020, a survey has appeared once or twice a month on COVID-19-related research in the website of Prime Minister's Office (Valtioneuvosto 2020f).

In spring 2020 the Finnish Institute for Health and Welfare prepared epidemiological scenarios to consider the moderation of the pandemic-related restrictions (THL 2020f). In December 2020 another scenario set came out (Valtioneuvosto 2020g). The first one in the set took up *strong, repeated restrictions*. This scenario was seen as the most beneficial one for the economy and the public finances and causing the least strain towards health care capacity. The second scenario *envisaged restrictions that slow down the pandemic without stopping it*. This scenario would not be quite as beneficial as the first scenario, and health care would work close to its capacity. The third scenario, one of *belated restrictions*, would be economically and fiscally the least beneficial, and health care capacity would be unlikely to suffice.

Many researchers located in Finland have published on COVID-19 (e.g., Eduskunnan tulevaisuusvaliokunta 2020; Kestilä, Härmä and Rissanen 2020; Moisio 2020; Tiedepaneeli 2020; Tiirinki et al. 2020; THL 2020f; Valtioneuvosto 2020h; Häyry 2021; Scheinin 2021). In autumn 2020, the government research funding agency, the Academy of Finland, provided supplementary funding that on-going projects could apply to examine aspects of the pandemic (Academy of Finland 2020). The Finnish Strategic Research Council made funds available for research projects on pandemics as a challenge to society with an application deadline of 21 January, 2021 (FSRC 2020).

Activating twice the Preparedness Act (1552/2011) with government state-of-exception powers has provided opportunities to learn on pandemic-related constitutional and political problems. Ordinary legislation has been used in numerous ways, and the Communicable Diseases Act (1227/2016) and other acts have received permanent and temporary amendments. There has also been learning on pandemic readiness. On government proposal Parliament has accepted legal amendments on new responsibilities for the five hospital districts with university hospitals to direct preparation planning in health care and social welfare in these districts, given nearby hospital districts, and municipalities in all these districts (Eduskunta 2020c). The Ministry of Health and Welfare combines the five specific situation pictures into a national situation picture.

During the pandemic, the medical and nursing professions and organizations of health care and social welfare have learnt better to restrict the spread of the virus, find more effective ways of treatment, and stretch their capacity. Distance work and distance learning have become staple in the Finnish society for the time being. Many people have learnt to keep safety distances, avoid other than necessary visits to public places and other than necessary private life contacts, use masks, and seek help when feeling symptoms suggesting the virus. Efforts to contest the vaccination order – defined solely on health care and social welfare grounds – have revealed specific cleavages in society.

### **4.3. Operational Capacity: Resources, Economics, and Public Finance**

In connection to the COVID-19 pandemic, the Finnish Parliament has legislated most of what the government has proposed and awarded substantial increases to government expenditures, government borrowing, and government guarantees to business. Bottlenecks in intensive care, the availability of respirators, and the supply of masks have been cleared, although new bottlenecks appear such as, importantly, the COVID-19 vaccination delays common to all EU countries.

The negative GDP impact of the pandemic in Finland has been lower than the EU average (Table 7-10; Valtiovarainministeriö 2020), finally estimated to be only 2.8 per cent (Tilastokeskus 2021). Gross government debt has increased substantially, but the rise has been more moderate than the EU average. However, while before the pandemic Finland satisfied the EU fiscal policy rules on public sector deficit and public debt, Finland has been one of the countries for which the EU waivers of its rules have been essential.

**Table 7-10. GDP and Government Debt Change, Selected Countries (European Commission 2020).**

	GDP change, %		General government gross debt, % of GDP	
	EU spring 2020 forecast	EU autumn 2020 forecast	2019	EU autumn 2020 forecast
Finland	-6.3	-4.3	59.3	69.8
Sweden	-6.1	-3.4	35.1	39.9
Denmark	-5.9	-3.9	33.3	45.0
Estonia	-6.9	-2.3	8.4	17.2
All EU	-7.4	-7.4	79.2	93.9

From among the three constituents of Finland's public finances the statutory pension funds have hardly been affected. Municipal finances have fared well because extraordinary government subsidies, but the state finances have been hit hard (Table 7-11, largest changes emphasized in boldface). Indeed, the state finances will feel the impact of COVID-19 for a long time to come.

**Table 7-11. Aspects of the Finnish State Budget, 2020 to 2021 (Valtiovarainministeriö 2020-2021).**

Selected items	Budget		2010 final budget/2020 initial budget	Budget proposal for 2021	Add-on to the 2021 proposal	Changes for 2021/initial 2020 budget
	2020 initial budget	2020 final budget				
	Million euros		Per cent	Million euros		Per cent
Revenue						
11. Taxes etc.	47,093	41,952	-10.9%	45,186	-316	-4.7%
15. Borrowing	2,061	19,748	858.2%	10,904	+946	435.6%
Other main revenue divisions	No COVID-19 related changes					
Total	57,551	68,750	19.5%	64,196	-	11.5%
Expenditures						
23. Prime Minister's Office	219	219	0%	222	+355	<b>163.5%</b>
26. Ministry of the Interior	1,520	1,709	12.4%	1,568	+12	3.9%
26.20 Frontier Guard	267	429	<b>60.6%</b>	277	0	3.7%
28. Ministry of Finance	18,493	20,721	12.0%	19,478	+25	5.5%
28.90. Supporting municipalities	9,367	11,447	22.2%	10,077	1	7.6%
32. Ministry of Economic Affairs and Employment	2,863	6,305	<b>120.2%</b>	3,829	+27	<b>34.7%</b>
32.40. Special funding to business	122	1,354	<b>1,009.8%</b>	599	0	<b>391.0%</b>
33. Ministry of Social Affairs and Health	14,780	17,815	20.5%	17,603	+145	20.1%

Selected items	Budget		2010 final budget/2020 initial budget	Budget proposal for 2021	Add-on to the 2021 proposal	Changes for 2021/initial 2020 budget
	2020 initial budget	2020 final budget				
	Million euros		Per cent	Million euros		Per cent
33.03.87. Founding a vaccination research company	-	-	-	-	8	Infinite
33.20. Unemployment benefits	2,234	3,644	63.1%	2,815	+47	28.1%
33.60 Municipal social and health care	301	529	75.7%	2,052	0	581.7%
33.60.38. Subsidy for COVID-19 costs	-	206	Infinite	1,660	-45	Infinite
33.70. Promoting health and welfare	37	910	2,361.5%	38	0	2.7%
33.70.20. Acquiring vaccines	31	244	687.1%	31	0	0%
33.70.22. Control of epidemics	1	660	7,240.0%	1	0	0%
36. Interest on state debt	873	911	4.3%	765	0	-12.4%
Other main expenditure divisions	No COVID-19 related changes					
Total	57,552	68,750	19.4%	64,196	-	11.5%

On 25 February 2021 the Finnish government presented its first 2021 supplementary budget proposal to Parliament. Although this proposal included COVID-19 related items, these did not reach the proportions indicated in Table 7-11. Besides budget allocations, the Finnish government is a substantial guarantor for businesses including export industries such as shipbuilding (Kostiainen et al. 2020). During 2020, the ceiling of guarantees and other protection measures that the Finnish government-owned expert credit company Finnvera was allowed to award rose from 134 to 161 billion euros, or 19 per cent (HE 2020, Y97-Y98).

To alleviate the effects of the pandemic, the Finnish government has made subsidies available to businesses (Table 7-11, item. 32.40.) since the temporary EU lifting of its competitive market rules. Moreover, unemployment benefits have been made temporarily available to one-person enterprises, and temporary exceptions have been introduced in legislation on bankruptcies (Konkurssilaki 120/2004) and distraint (Ulosottoaari 705/2007).to



## 5. Public opinion on COVID-19 in Finland

Males, young people, people outside the capital city region and supporters of the Finns from among the parties have expressed the highest aversion towards masks (Table 7-12). Another masks poll, not reported in the table, indicated a tie between accepting and rejecting compulsory mask wearing (Helsingin Sanomat 2020g), the highest acceptance among older people, and the lowest acceptance among the Finns and Greens than other parties. Although differences between population groups have been diminishing, females, young people, people away from the capital city region and supporters of Finns and Greens have been the least willing to take the COVID-19 vaccination (Table 7-12). Males, the youngest and the oldest people, residents of Helsinki and the surrounding region, Social Democrats, Greens and supporters of Left Alliance have been most favorable to the EU COVID-19 rescue package (Table 7-12). Companies have accepted the government general measures to combat the pandemic, but have been critical towards the government measures to alleviate the accompanying economic crisis (Table 7-13).

**Table 7-12. Attitudes Related to COVID-19 in Finland (Helsingin Sanomat 2020e, f, h; Haavisto 2020).**

	Do you use the mask against COVID-19 where recommended?			Will you take the COVID-19 vaccination once available? December 2020/February 2021			Is it beneficial for Finland to participate in the EU COVID-19 recovery package for the member states?		
	Yes	Do not know	No	Yes	Do not know	No	Yes	Do not know	No
	Per cent (%)								
	In the total population and by gender								
All respondents	73	7	19	56/75	23/12	22/13	38	24	38
Female	79	6	15	48/74	28/13	25/12	36	18	46
Male	68	8	24	63/76	18/11	19/13	40	30	30
	By age groups								
-30 years of age	68	9	22	41/67	23/13	37/20	-	-	-
31-39	64	9	27	39/61	33/25	28/13	-	-	-
40-49	69	9	22	51/67	27/15	21/17	-	-	-
50-59	71	5	24	61/77	22/8	17/14	-	-	-
60-69	81	6	13	72/87	18/7	10/6	-	-	-
70 or above	89	5	6	83/91	14/5	4/4	-	-	-
18-25	-	-	-	-	-	-	48	19	34
26-35	-	-	-	-	-	-	41	19	40

	Do you use the mask against COVID-19 where recommended?			Will you take the COVID-19 vaccination once available? December 2020/February 2021			Is it beneficial for Finland to participate in the EU COVID-19 recovery package for the member states?		
	Yes	Do not know	No	Yes	Do not know	No	Yes	Do not know	No
	Per cent (%)								
36-45	-	-	-	-	-	-	43	23	34
46-55	-	-	-	-	-	-	30	23	48
56-65	-	-	-	-	-	-	30	32	38
66-	-	-	-	-	-	-	46	27	28
	By place of residence								
Capital city region	81	6	13	-	-	-	-	-	-
Other cities or towns	72	8	20	-	-	-	-	-	-
Other, dense population	71	7	22	-	-	-	-	-	-
Other, sparse population	68	9	23	-	-	-	-	-	-
Helsinki and its region	-	-	-	60/76	22/13	18/17	47	21	32
Other Southern Finland	-	-	-	56/76	23/9	21/15	36	24	40
West Finland	-	-	-	49/72	24/14	27/13	-	-	-
Finland-in-Between	-	-	-	-	-	-	31	26	43
East and North Finland	-	-	-	57/76	22/12	21/11	-	-	-
East Finland	-	-	-	-	-	-	31	31	38
North Finland	-	-	-	-	-	-	37	20	43
	By political parties								
Social Democratic Party	77	8	15	71/88	15/5	14/7	55	28	17
Coalition	81	2	16	71/92	16/5	12/3	40	22	39
Finns	58	9	34	38/56	22/15	40/13	3	2	95
Center	74	10	16	69/87	12/4	19/9	51	13	36
Green League	86	4	11	58/80	17/8	24/11	74	21	5
Left Alliance	89	4	7	59/78	25/17	16/5	70	20	10

**Table 7-13. Company Opinions Related to COVID-19 (STT Info 2020).**

		4 May 2020	8 October 2020	1 December 2020
		Per cent		
Success in combating the pandemic	Very well	7.1	4.2	12.8
	Rather well	61.9	51.7	65.2
	Don't know	8.3	9.7	9.0
	Rather badly	18.9	28.0	10.9
	Very badly	3.7	6.4	2.2
Success in combating the pandemic-related economic crisis	Very well	2.3	1.4	1,5
	Rather well	30.6	20.8	25.9
	Don't know	15.0	11.2	17.2
	Rather badly	38.7	45.4	42.9
	Very badly	13.4	12.2	12.4

## 6. Discussion and Conclusions

By mid-March 2021, the comparative COVID-19 incidence had been reasonably low and related relative mortality low in Finland for a European country (WHO 2020-2021). The Finnish government first reacted with a March 17 to 15 June, 2020 state of exception, which, in retrospect, was exaggerated in most of the country (Deloitte 2021). The government's main policy tool became to be a "hybrid strategy" of testing-tracing-isolation-care pinned to the phase of the pandemic – baseline, acceleration, and community transmission – in different parts of the country (VNK 2020a; STM 2020). After the serious aggravation of the pandemic, the president and the government issued a joint statement on another state of exception on 1 March 2021. According to one assessment, Finland together with such other countries as Germany and New Zealand has been one of the few countries without violations of democratic and constitutional standards in introducing COVID-19 emergency measures (VDem 2020).

Measures carried out by the Finnish government to combat the pandemic have been many, such as legal amendments for the stronger temporary or permanent empowerment of public authorities, budget allocations to cover the direct costs of the pandemic and to alleviate some of the losses to businesses, increasing government borrowing, increasing government guarantees to export industries, and making temporary exceptions to business legislation. In Finland, political, analytical and operational capacity has generally sufficed, important learning has taken place (on this aspect see generally Lee et al. 2020), and the coordination challenges have not been insurmountable although in some cases requiring drastic action. After preparations (PMO 2020), on 27 December, 2020 the first vaccinations were

administered, although because of the appallingly deficient availability of vaccines in all EU countries the pandemic might not subside before autumn 2021 even if COVID-19 variants would not start wreaking serious havoc.

The results of this article suggest COVID-19 -related fault lines (Scambler 2020) with possible relevance beyond Finland's borders between strategically important and other and vulnerable and other sectors of the economy, between better-off and worse-off socio-economic strata, and between right-wing populist, mainstream, and progressive political party platforms. The results also suggest that while politicization of the pandemic that introduces authoritarian governance is undesirable (Leo 2020; Merkel 2020; Moisio 2020; Petrov 2020), one should wish welcome politicization that reinvigorates common adversary and deliberative politics and contributes to innovation, social (Van den Broeck 2020) or political (Uldam & Askanius 2020). The Finnish strategy to combat pandemic has been very explicitly one of majority parliamentarism within strict to very strict constitutional constraints. While authoritarian pandemic governance has definitely been avoided in Finland, deficiencies have been suggested, such as the relatively modest involvement of civil society organizations (Interview 2020/2021).

In mid-Spring 2021, only preliminary conclusions could be drawn on the COVID-19 pandemic in Finland, and even these conclusions should be substantiated by means of comparisons with contemporary results on other countries not too different from Finland (Migone 2020). Importantly, we know much too little on the causal chains that possibly lead from anti-pandemic policies and other influences to the outcomes including COVID-19 incidence and COVID-19 mortality. By mid-spring 2021, only preliminary assessments of Finland's combat with the pandemic had come out (Deloitte 2021; Sitra 2021) and only a constrained officially commissioned assessments had been scheduled to appear in summer 2021 (Valtioneuvosto 2020h). Post-pandemic recovery is bound to accumulate crucial further experiences (STM 2020). A lot remains to know on the longer-term effects of the pandemic upon the citizen's political affiliations, political cleavages, and political and constitutional governance; the sustainability of the economy and the public finances; the institutions and practices of health care and social welfare; the digitalization of work, health care, social welfare and government; societal equality and inequality; and the people's everyday ways of life (see Eduskunnan tulevaisuusvaliokunta 2020).

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## Interviews

The interviews were carried out on the promise of disconnecting the interviewee names from the opinions expounded.

Anonymous recovered COVID-19 patient, 3 January, 2021.

Hiilamo Heikki, Professor, University of Helsinki and Finnish Institute for Health and Welfare, 28 December, 2020.

Tiirinki Hanna, Dr., Expert in Finnish Institute for Health and Welfare, 21 December, 2020.

Sane, Jussi, Ph.D., Docent, Senior Consultant, WHO, 12 January, 2021.

Sissonen, Susanna, M.Sc., Head of Biosecurity, Finnish Institute of Health and Welfare, 17 December, 2020.

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## References

Academy of Finland. 2020. *Academy of Finland Announces Funding Decisions on Special Call for COVID-19 Research*. 28 May, 2020. <https://www.aka.fi/en/about-us/whats-new/press-releases/20202/academy-of-finland-announces-funding-decisions-on-special-call-for-covid-19-research/>.

Communicable Diseases Act. 1227/2016. Finnish Ministry of Social Affairs of Health, unofficial translation without the latest amendments. [https://www.ilo.org/wcmsp5/groups/public/---ed\\_protect/---protrav/---ilo\\_aids/documents/legaldocument/wcms\\_127811.pdf](https://www.ilo.org/wcmsp5/groups/public/---ed_protect/---protrav/---ilo_aids/documents/legaldocument/wcms_127811.pdf).

Confirmed coronavirus cases in Finland, 2020-2021. Constantly updated. <https://experience.arcgis.com/experience/92e9bb33fac744c9a084381fc35aa3c7>.

Constitution. 731/1999. Unofficial translation by the Ministry of Justice. <https://www.finlex.fi/en/laki/kaannokset/1999/en19990731.pdf>.

Criminal Act. 39/1889. Unofficial translation by the Ministry of Justice . <https://www.finlex.fi/fi/laki/ajantasa/1889/18https://www.finlex.fi/en/laki/kaannokset/1889/en18890039890039001#L44>.

- De Leo, Andreina. 2020. "The Italian Approach to the COVID-19 Crisis: A State of Exception Ruled by Technicians." *Amsterdam Law Forum* 12, no. 3: 1-5.
- Deloitte. 2021. *Selvitys koronakriisin aikana toteutetun valtioneuvoston kriisijohtamisen ja valmiuslain käyttöönoton kokemuksista* [A Finnish government -commissioned study on crisis management related to the COVID-19 pandemic]. [https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/162677/2021\\_1\\_VN\\_Selvitys.pdf?sequence=1&isAllowed=y](https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/162677/2021_1_VN_Selvitys.pdf?sequence=1&isAllowed=y).
- Eduskunnan tulevaisuusvaliokunta. 2020. *Koronapandemian hyvät ja huonot seuraukset lyhyellä ja pitkällä aikavälillä* [Parliament Committee on the Future on the consequences of the pandemic]. [https://www.eduskunta.fi/FI/naineduskuntatoimii/julkaisut/Documents/tuvj\\_1+2020.pdf](https://www.eduskunta.fi/FI/naineduskuntatoimii/julkaisut/Documents/tuvj_1+2020.pdf).
- Eduskunta. 2020a. *Miten löydän sote-uudistukseen liittyvät eduskunta-asiakirjat?* [Parliament on documentation on the social welfare and health care reform]. Not dated. <https://www.eduskunta.fi/FI/naineduskuntatoimii/kirjasto/tietopalvelulta-kysyttya/Sivut/miten-loydan-sote-uudistukseen-liittyvat-eduskunta-asiakirjat.aspx>.
- Eduskunta. 2020b. *Valmiuslain käyttöönottoaminen korona-aikana* [Parliament on introducing the Preparedness Act]. Not dated; constantly updated. [https://www.eduskunta.fi/FI/naineduskuntatoimii/kirjasto/aineistot/kotimainen\\_oikeus/LATI/Sivut/valmiuslain-kayttoonottaminen-koronavirustilanteessa.aspx](https://www.eduskunta.fi/FI/naineduskuntatoimii/kirjasto/aineistot/kotimainen_oikeus/LATI/Sivut/valmiuslain-kayttoonottaminen-koronavirustilanteessa.aspx).
- Eduskunta. 2020c. *Hallituksen esitys eduskunnalle terveydenhuoltolain ja sosiaalihuoltolain muuttamiseksi*. HE 230/2020 vp. [https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE\\_230+2020.aspx](https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE_230+2020.aspx).
- Eduskunta. 2021a. *Hallituksen esitys eduskunnalle laiksi majoitus- ja ravitsemistoinnasta annetun lain väliaikaisesta muuttamisesta*. HE 22/2021 vp. [https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE\\_22+2021.aspx](https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE_22+2021.aspx).
- Eduskunta 2021b. *Hallituksen esitys eduskunnalle laiksi tartuntatautilain 16 ja 22 §:n muuttamisesta*. HE 15/2021 vp. [https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE\\_15+2021.aspx](https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE_15+2021.aspx).
- European Commission. 2020. *European Economic Forecast November 2020*. [https://ec.europa.eu/info/sites/info/files/economy-finance/ip136\\_en\\_2.pdf](https://ec.europa.eu/info/sites/info/files/economy-finance/ip136_en_2.pdf).
- Financial Times. 2020. "Finland's PM Warns that Populists Will Prosper if Covid is not Controlled." 19 November, 2020. <https://www.ft.com/content/aa8319e3-c212-4f28-9dd7-121aa121ceed>.

- Finnish Government. 2021. Restrictions During the Coronavirus Epidemic. <https://valtioneuvosto.fi/en/information-on-coronavirus/current-restrictions>.
- FinSote. 2020. *Koronapandemian vaikutukset vaihtelevat alueittain* [Regional incidence of the COVID-19 pandemic]. 16 December, 2020. [http://terveytemme.fi/finsote/korona2020/doc/FinSote\\_koronan\\_vaikutukset\\_syksy2020.pdf](http://terveytemme.fi/finsote/korona2020/doc/FinSote_koronan_vaikutukset_syksy2020.pdf).
- FSRC. 2020. *Strategic Research Programme: Pandemics as a Challenge to Society*. <https://www.aka.fi/en/research-funding/apply-for-funding/calls-for-applications/strategic-research/strategic-research-programme-pandemics-as-a-challenge-for-society-pandemics>.
- Government Decree. 2020. Valtioneuvoston asetus vapaaehtoisista COVID-19-rokotuksista. [https://valtioneuvosto.fi/documents/1271139/48660695/22.12.2020+VNA+Covid\\_rokotukset.pdf/e6119bce-02fb-0bb8-d24b-6b4c33e597a5/22.12.2020+VNA+Covid\\_rokotukset.pdf?t=1608634681443](https://valtioneuvosto.fi/documents/1271139/48660695/22.12.2020+VNA+Covid_rokotukset.pdf/e6119bce-02fb-0bb8-d24b-6b4c33e597a5/22.12.2020+VNA+Covid_rokotukset.pdf?t=1608634681443)
- Haavisto, Ilkka. 2020. "Epäilyttävä paketti" [Report on the results of a poll by a business think tank on attitudes related to the COVID-19 pandemic]. <https://www.eva.fi/wp-content/uploads/2020/12/eva-arvio-029.pdf>.
- Häyry, Matti. 2021. "The COVID-19 Pandemic: Healthcare Crisis Leadership as Ethics Communication." *Cambridge Quarterly of Healthcare Ethics* 30: 42-50.
- HE. 2020. *Hallituksen esitys eduskunnalle valtion talousarvioksi vuodelle 2021* [Government proposal to Parliament for the 2021 budget]. 5 October, 2020. [https://www.eduskunta.fi/FI/vaski/HallituksenEsitys/Documents/HE\\_146+2020.pdf](https://www.eduskunta.fi/FI/vaski/HallituksenEsitys/Documents/HE_146+2020.pdf).
- HE. 2021a. Hallituksen esitys eduskunnalle laiksi tartuntatautilain 58 g §:n muuttamisesta [Government proposal to Parliament for to change article 58 g of the Communicable Diseases Act]. [https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE\\_31+2021.aspx](https://www.eduskunta.fi/FI/vaski/KasittelytiedotValtiopaivaasia/Sivut/HE_31+2021.aspx).
- HE. 2021b. Hallituksen esitys eduskunnalle laiksi tartuntatautilain 58 a ja 58 b §:n muuttamisesta (HE 32/2021 vp) [Government proposal to Parliament for to change articles 58 a and 58 b of the Communicable Diseases Act]. [https://www.eduskunta.fi/FI/vaski/HallituksenEsitys/Sivut/HE\\_32+2021.aspx](https://www.eduskunta.fi/FI/vaski/HallituksenEsitys/Sivut/HE_32+2021.aspx).
- Helsingin Sanomat. 2020a. "Tartunta varmistui koronavirukseksi Suomessa" [An ascertained COVID-19 case in Finland]. 28 January, 2020. <https://www.hs.fi/kotimaa/art-2000006387778.html>).

- Helsingin Sanomat. 2020b. "THL:n Salmisen mukaan päättäjiä piti herätellä koronauhkiaan" [Awakening decision-makers to COVID-19 risks]. 22 November, 2020. <https://www.hs.fi/politiikka/art-2000007627650.html>.
- Helsingin Sanomat. 2020c. "Professori arvostelee valmiuslain perusteluita" [Professor criticizes the motivations of activating the Preparedness Act]. 17 March, 2020. <https://www.hs.fi/politiikka/art-2000006442797.html>.
- Helsingin Sanomat. 2020d. "Koronalukko avautuu". [The COVID-19 lock opens up]. 5 April, 2020. <https://www.hs.fi/sunnuntai/art-2000006464169.html>.
- Helsingin Sanomat. 2020e. "Maskeja on alettu käyttää enemmän" [More use of masks]. 21 November, 2020. <https://www.hs.fi/politiikka/art-2000007630258.html>.
- Helsingin Sanomat. 2020f. "HS-gallup: Suomalaisista 56 prosenttia valmis ottamaan koronarokotteen" [Gallup: 56 per cent ready to take the COVID-19 vaccine]. 4 December, 2020. <https://www.hs.fi/politiikka/art-2000007661632.html>.
- Helsingin Sanomat. 2020g. "Kysymys maskipakosta jakaa suomalaisia" [Finnish people divided on compulsory mask wearing]. 13 December, 2020. <https://www.hs.fi/politiikka/art-2000007680114.html>.
- Helsingin Sanomat. 2020h. "Jo 75 prosenttia suomalaisista haluaa ottaa koronarokotteen" [As many as 75 per cent of the Finnish people ready to take the COVID-19 vaccine]. 8 February 2021. <https://www.hs.fi/politiikka/art-2000007788942.html>.
- Helsingin Sanomat. 2021. Pääministeri Marin Ylellä [PM Marin's statement to the Finnish Broadcasting Company]. <https://www.hs.fi/politiikka/art-2000007858530.html?share=e288f664955d0f707f1aa4a63e4b1bd6>.
- Interview. 2020/2021. Any of the interviews for this article. See the list of Interviews.
- Isotalo, Veikko, Söderlund, Peter, & Schoultz, Åsa v. 2020. "Polarisoituuko politiikka Suomessa?" [Is politics becoming polarized in Finland?] in *Politiikan ilmastomuutos: Eduskuntavaalitutkimus 2019* edited by Sami Borg, Elina Kestilä-Kekkonen and Hanna Wass, 288-307. Helsinki: Oikeusministeriö. <https://julkaisut.valtioneuvosto.fi/handle/10024/162429>.
- Keskimäki, Ilmo, Liina-Kaisa Tynkkynen, Eeva Reissell, Meri Koivusalo, Vesa Syrjä, Lauri Vuorenkoski, Bernd Rechel, and Marina Karanikolos. 2019. Finland: Health System in Review. Copenhagen: WHO.



- Kestilä, Laura, Vuokko Härmä and Pekka Rissanen, P., editors. 2020. *Covid-19 -epidemian vaikutukset hyvinvointiin, palvelujärjestelmään ja kansantalouteen* [Impact of the COVID-19 pandemic upon welfare, the service system and the economy]. Helsinki: THL. [https://www.julkari.fi/bitstream/handle/10024/140661/URN\\_ISBN\\_978-952-343-578-0.pdf?sequence=1&isAllowed=y](https://www.julkari.fi/bitstream/handle/10024/140661/URN_ISBN_978-952-343-578-0.pdf?sequence=1&isAllowed=y).
- Konkurssilaki. 120/2004 [Act on bankruptcy]. <https://www.finlex.fi/fi/laki/ajantasa/2004/20040120?search%5Btype%5D=pika&search%5Bpika%5D=konkurssi>.
- Kostiainen, Juho, Sakari Lehtiö, Sami Napari and Markku Puumalainen, M. 2020. *Katsaus valtion taloudellisiin vastuisiin ja riskeihin, syksy 2020* [A survey of state economic responsibilities and risks]. Helsinki: Ministry of Finance. <https://julkaisut.valtioneuvosto.fi/handle/10024/162546>.
- Kuntaliitto. 2020. *Erikoissairaanhoido* [Hospital health care]. <https://www.kuntaliitto.fi/sosiaali-ja-terveysasiat/terveydenhuolto/erikoissairaanhoido>.
- KYS. 2020. *Tehohoidon tilannekuva* [The situation picture of intensive care]. 28 October, 2020. [https://www.psshp.fi/documents/7796350/8536307/Tehohoidon+tilannekuva+-+Koordinoivan+toimiston+raportti+2020\\_10\\_28.pdf/66bc870c-7d32-4e97-8b35-e689a8597ef7](https://www.psshp.fi/documents/7796350/8536307/Tehohoidon+tilannekuva+-+Koordinoivan+toimiston+raportti+2020_10_28.pdf/66bc870c-7d32-4e97-8b35-e689a8597ef7)
- Lee, Sabinne, Changho Hwang and M. Jae Moon. 2020. "Policy Learning and Crisis Policy-making: Quadruple-loop Learning and COVID-19 Responses in South Korea." *Policy and Society* 39, no. 3: 363-381.
- Li, Tom, Yuan Liu, Man Li, Xiaoning Qian and Susie Y. Dai. 2020. "Mask or no Mask for COVID-19: A Public Health and Market Study." *PLoS ONE* 15, no. 3: e0237691. <https://doi.org/10.1371/journal.pone.0237691>.
- Merkel, Wolfgang. 2020. Who Governs in Deep Crises? The case of Germany." *Democratic Theory* 7, no. 2: 1-11.
- Migone, Andrea Riccardo. 2020. "The Influence of National Policy Characteristics on COVID-19 Containment Policies: A Comparative Analysis." *Policy Design and Practice* 3, no. 3: 259-276.
- Ministry of Justice. 2021. Kuntavaalit siirtyvät kesäkuulle [Municipal elections postponed until June]. <https://oikeusministerio.fi/en/-/kuntavaalit-siirtyvat-kesakuulle>.
- Moisio, Sami. 2020. "State Power and the COVID-19 Pandemic: The case of Finland." *Eurasian Geography and Economics* 61, no. 4-5: 598-605.

- New York Times. 2020. “*Coronavirus Vaccine Tracer.*” Constantly updated. <https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html>.
- Nunes, João. 2020. “The COVID-19 Pandemic: Securitization, Neoliberal Crisis, and Global Vulnerabilization.” *Cadernos de Saúde Pública* 36, no. 5. <https://doi.org/10.1590/0102-311X00063120>.
- Omaolo. 2020. A Finnish public domain symptoms assessment application. <https://www.omaolo.fi/palvelut/oirearviot/649>.
- Our World in Data (2021). Coronavirus (COVID-19) Cases. Chart embedded in this article under the Creative Commons BY License. <https://ourworldindata.org/covid-cases?country=USA~DEU~FIN~DNK~EST~JPN~NZL~NOR~RUS~KOR~SWE~THA~VNM>.
- Petrov, Jan. 2020. “The COVID-10 Emergency in the Age of Executive Aggrandizement: What Role for Legislative and Judicial Checks?”. *The Theory and Practice of Legislation* 8(1-2), 71-92.
- PMO. 2020. “Government Adopts Resolution on Finland’s COVID-19 Vaccine Strategy.” 10 December, 2020. <https://vnk.fi/en/-/government-adopts-resolution-on-finland-s-covid-19-vaccine-strategy>.
- Preparedness Act 1552/2011. Finnish Ministry of Justice, unofficial English translation, without the latest amendments. [https://www.finlex.fi/fi/laki/kaannokset/1991/en19911080\\_20030696.pdf](https://www.finlex.fi/fi/laki/kaannokset/1991/en19911080_20030696.pdf).
- Satakunnan Kansa. 2020. ”Wuhanin virus tuli varmuudella Eurooppaan” [Entry of the Wuhan virus to Europe ascertained]. 25 January, 2020. <https://www.satakunnankansa.fi/kotimaa/art-2000007027904.html>).
- Scambler, Graham. 2020. “Covid-19 as a Breaching Experiment: Exposing the Fractured Society.” *Health Sociology Review* 29, No. 2: 140-148.
- Scheinin, Martin. 2021. “Suomi tarvitsee nyt rytmivaihdoksen kilpailussa koronavirusta vastaan” [Finland needs a rhythm change in combat against the coronavirus]. *Perustuslakiblogi*. <https://perustuslakiblogi.wordpress.com/2021/01/07/martin-scheinin-suomi-tarvitsee-nyt-rytminvaihdoksen-kilpailussa-koronavirusta-vastaan/>.
- Sitra. 2021. *Koronan vaikutukset -kirjoitussarja* [Series of texts on the effects of the COVID-19 pandemic]. <https://www.sitra.fi/hankkeet/koronavirus/>.

- Situation update on coronavirus. 2020-2021. Constantly updated. <https://thl.fi/en/web/infectious-diseases-and-vaccinations/what-s-new/coronavirus-covid-19-latest-updates/situation-update-on-coronavirus>).
- Statistics Finland. 2020. *What Do statistics Tell about the Effects of Corona?* Constantly updated. [http://tilastokeskus.fi/ajk/koronavirus/koronavirus-ajankohtaista-tilastotietoa/miten-vaikutukset-nakyvat-tilastoissa\\_en.html](http://tilastokeskus.fi/ajk/koronavirus/koronavirus-ajankohtaista-tilastotietoa/miten-vaikutukset-nakyvat-tilastoissa_en.html).
- STM. 2020. *Toimintasuunnitelma COVID-19 -pandemian hillinnän hybridistrategian toteuttamiseen tammi-toukokuussa 2021* [Operational plan for implementing the hybrid strategy to contain the COVID-19 pandemic from January to May 2021]. <https://valtioneuvosto.fi/paatokset/paatos?decisionId=0900908f806fcad5>.
- STM. 2021. *Koronavirusepidemian tasot sekä niihin liittyvät toimenpiteet*. [Levels of the COVID-19 pandemic and corresponding measures]. <https://stm.fi/koronavirusepidemian-tasot>.
- STT Info. 2020. *Kauppakamarikysely* [The Chambers of Commerce poll]. 3 December, 2020. <https://www.sttinfo.fi/tiedote/kauppakamarikysely-yritysten-tyytyvaisuus-hallituksen-koronatoimialkohtaan-kasvanut-alkusyksysta-silti-yli-puolet-yrityksista-antaa-huonon-arvosanan-hallitukselle-taloustilanteeseen-hoidosta?publisherId=25106402&releaseId=69895580>.
- THL. 2019. *Avainlukuja perusterveydenhuollon järjestämisestä Suomessa 2013-2019* [Key figures on organizing health care in Finland, 2013-2019]. Helsinki: THL. [https://www.julkari.fi/bitstream/handle/10024/138496/URN\\_ISBN\\_978-952-343-386-1.pdf?sequence=1&isAllowed=y](https://www.julkari.fi/bitstream/handle/10024/138496/URN_ISBN_978-952-343-386-1.pdf?sequence=1&isAllowed=y).
- THL. 2020-2021a. *Communicable diseases and vaccinations*. Constantly updated. <https://thl.fi/en/web/infectious-diseases-and-vaccinations/what-s-new/coronavirus-covid-19-latest-updates/situation-update-on-coronavirus/the-covid-19-epidemic-regional-situation-recommendations-and-restrictions>).
- THL. 2020-2021b. *Koronaviruksen seuranta* [Monitoring the COVID-19]. Constantly updated. <https://thl.fi/fi/web/infektiaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta/koronaviruksen-seuranta>.
- THL. 2020a. *Koronaepidemia: Alueiden tilanne, suositukset ja rajoitukset* [COVID-19 pandemic in the regions: Situation, recommendations, and restrictions]. Constantly updated. <https://thl.fi/fi/web/infektiaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta/koronaepidemia-alueiden-tilanne-suositukset-ja-rajoitukset>.

- THL. 2020b. "Koronavilkku has been downloaded more than 2.5 million times." 5 November, 2020. <https://thl.fi/en/web/thlfi-en/-/koronavilkku-has-been-downloaded-more-than-2.5-million-times-widespread-use-increases-the-app-s-effectiveness?redirect=%2Fen%2Fweb%2Finfectious-diseases-and-vaccinations%2Fwhat-s-new%2Fcoronavirus-covid-19-latest-updates>.
- THL. 2020c. *Transmission and protection – coronavirus*. Constantly updated. <https://thl.fi/en/web/infectious-diseases-and-vaccinations/what-s-new/coronavirus-covid-19-latest-updates/transmission-and-protection-coronavirus>.
- THL. 2020d. *Terveysthuollon menot ja rahoitus 2018* [Expenditures and funding of health care, 2018]. Helsinki: THL- <https://www.julkari.fi/handle/10024/140191>.
- THL. 2020e. *Mika Salminen's CV*. <https://thl.fi/en/web/thlfi-en/about-us/organisation/management-team/mika-salminen-s-cv>.
- THL. 2020f. *Koronavirusepidemian mallinnusta* [Modeling the COVID-19 pandemic]. <https://thl.fi/fi/web/infektiotaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta/koronavirusepidemian-mallinnusta>.
- THL. 2021. *Koronaepidemian vaikutukset hyvinvointiin, palveluihin ja talouteen* [The influence of the corona epidemic on welfare, services, and the economy]. <https://www.julkari.fi/bitstream/handle/10024/140880/Viikko%204-2021%20-%20Koronaepidemian%20vaikutukset%20hyvinvointiin%20palveluihin%20ja%20talouteen.pdf?sequence=5>.
- Tiedepaneeli. 2020. *Tiedepaneeli vastasi hallinnon kutsuun kriisin keskellä* [The science panel responded to the call of the administration amidst the crisis]. 18 September, 2020. <https://tietokayttoon.fi/ajankohtaista/blogi/-/blogs/tiedepaneeli-vastasi-hallinnon-kutsuun-kriisin-keskella>.
- Tiirinki, Hanna, Liina-Kaisa Tynkkynen, Markus Sovala, Salla Atkins, S., Meri Koivusalo, Pauli Rautiainen, Vesa Jormanainen and Ilmo Keskimäki, I. 2020. "COVID-19 Pandemic in Finland – Preliminary Analysis on Health System Response and Economic Consequences." *Health Policy and Technology* 9, no. 4: 649–662.
- Tilastokeskus. 2021. *Talouden tilannekuva* [A situation picture on the economy]. <http://www.stat.fi/ajk/koronavirus/koronavirus-ajankohtaista-tilastotietoa/miten-vaikutukset-nakyvat-tilastoissa/talouden-tilannekuva>.
- Time. 2021. 8 March, cover.

- Uldam, Julie and Tina Askanius. 2020. "COVID-10 and Online Activism: A Momentum for Radical Change?". *E-International Relations*. <https://www.e-ir.info/2020/08/21/covid-19-and-online-climate-activism-a-momentum-for-radical-change/>.
- Ulosottokaari. 705/2007 [Act on distraint]. <https://www.finlex.fi/fi/laki/smur/2020/20200341>.
- Valtioneuvosto. 2020-2021. *Koronakriisin vaikutukset ja suunnitelma epidemian hallinnan hybridistrategiaksi* [Government hybrid strategy to combat COVID-19]. [https://valtioneuvosto.fi/documents/10616/21411573/VN\\_2020\\_12.pdf](https://valtioneuvosto.fi/documents/10616/21411573/VN_2020_12.pdf).
- Valtioneuvosto. 2020a. *Entry restrictions and health measures in place in Finland*. <https://valtioneuvosto.fi/en/entry-restrictions>.
- Valtioneuvosto. 2020b. *Rajoitukset ja suositukset koronaepidemian aikana* [Restrictions and recommendations during the COVID-19 pandemic]. Helsinki: Valtioneuvosto. <https://valtioneuvosto.fi/tietoa-koronaviruksesta/rajoitukset-ja-suositukset>.
- Valtioneuvosto. 2020c. *Hallitus linjasi valtakunnallisista ja alueellisista suosituksista koronaepidemian leviämisen estämiseksi* [Government outline of recommendations related to the COVID-19 pandemic]. 15 October, 2020. <https://valtioneuvosto.fi/-/10616/hallitus-linjasi-valtakunnallisista-ja-alueellisista-suosituksista-koronaepidemian-leviamisen-estamiseksi>.
- Valtioneuvosto. 2020e. *Situation centre*. <https://vnk.fi/en/situation-centre>.
- Valtioneuvosto. 2020f. *COVID-19 -tutkimuskatsaus* [COVID-19 research review]. A web publication coming out frequently. <https://tietokaytoon.fi/covid-19-tutkimuskatsaukset>.
- Valtioneuvosto. 2020g. *COVID-19 -epidemian kehittyminen Suomessa* [The development of the COVID-19 pandemic in Finland]. Helsinki: Valtioneuvosto. [https://valtioneuvosto.fi/documents/10616/0/VN\\_2020\\_Covid19\\_skenaariot.pdf/c82d65aa-f0cf-8d8e-987c-b408bf733fd0/VN\\_2020\\_Covid19\\_skenaariot.pdf?t=1607586913049](https://valtioneuvosto.fi/documents/10616/0/VN_2020_Covid19_skenaariot.pdf/c82d65aa-f0cf-8d8e-987c-b408bf733fd0/VN_2020_Covid19_skenaariot.pdf?t=1607586913049).
- Valtioneuvosto. 2020h. "Independent Investigation Team to Assess Measures Taken due to COVID-19 Pandemic." 3 September, 2020. <https://valtioneuvosto.fi/en/-/1410853/independent-investigation-team-to-assess-measures-taken-due-to-covid-19-pandemic>.
- Valtioneuvosto. 2021a. Valtioneuvoston yleisistunto 5.3.2021 VN 21/2021 [The government general session 5 March 2021]. <https://valtioneuvosto.fi/paatokset/istunto?sessionId=0b00908f80713bf3>.

- Valtioneuvosto. 2021b. *Valtioneuvoston periaatepäätös COVID 19 -epidemian hillinnän hybridistrategian toteuttamisesta annetun toimintasuunnitelman täydennyksestä* [Government decision-in-principle on amending the COVID-19 hybrid action plan]. 26 January, 2021. <https://valtioneuvosto.fi/paatokset/paatos?decisionId=0900908f80707714>
- Valtioneuvosto. 2021b. *Phases of the COVID-19 Pandemic and Tiers of Prevention Measures*. <https://valtioneuvosto.fi/en/information-on-coronavirus/phases-of-the-covid-19-epidemic>.
- Valtiovarainministeriö. 2020. *Economy Will Recover at Pace Set by Coronavirus Epidemic*. [https://vm.fi/-/talous-elpyy-koronaepidemian-maaraamassa-tahdissa?languageId=en\\_US](https://vm.fi/-/talous-elpyy-koronaepidemian-maaraamassa-tahdissa?languageId=en_US).
- Valtiovarainministeriö. 2020-2021. *Valtion talousarvioesitykset* [Government proposals for the state budget]. Constantly updated. <https://budjetti.vm.fi/indox/sisalto.jsp?year=2021&lang=fi&maindoc=/2021/taet/hallituksenEsitys/hallituksenEsitys.xml&opennode=0:1:71:429>.
- Van den Broeck, Pieter, editor. 2020. *Social Innovation in the Face of the COVID-19 Pandemic*. Leuven: KU Leuven. <https://esdp-network.net/insist-cahier-4-social-innovation-in-the-face-of-covid-19-pandemic>.
- VDem. 2020. *Pandemic Backsliding: Democracy Nine Months into the COVID-19 Pandemic*. [https://www.v-dem.net/media/filer\\_public/13/1a/131a6ef5-4602-4746-a907-8f549a5518b2/v-dem\\_policybrief-26\\_201214\\_v31.pdf](https://www.v-dem.net/media/filer_public/13/1a/131a6ef5-4602-4746-a907-8f549a5518b2/v-dem_policybrief-26_201214_v31.pdf).
- VNK. 2020a. Government resolution on a plan for a hybrid strategy to manage the COVID-10 crisis. 6 May 2020. [https://valtioneuvosto.fi/documents/10616/20764066/Periaatepäätös\\_hybridistrategia\\_06052020\\_EN.pdf](https://valtioneuvosto.fi/documents/10616/20764066/Periaatepäätös_hybridistrategia_06052020_EN.pdf).
- VNK. 2020b. *Valtioneuvoston kokonaisarvio COVID-19-toimien vaikutuksista: Koonti ministeriöiden 25.9.2020 toimittamista vaikutusarvioinneista*. [Government comprehensive assessment of operations to combat the COVID-19 pandemic]. <https://vnk.fi/julkaisu/julkaisu?pubid=URN:NBN:fi-fe2020110589373>.
- WHO. 2017. *Joint External Evaluation of IHR Core Capacities in the Republic of Finland*. <https://extranet.who.int/sph/sites/default/files/jeeta/WHO-WHE-CPI-2017.24-Report-eng.pdf>.
- WHO. 2020. *Public Health Surveillance for COVID-19*. 7 August, 2020. <https://apps.who.int/iris/bitstream/handle/10665/333752/WHO-2019-nCoV-SurveillanceGuidance-2020.7-eng.pdf?sequence=1&isAllowed=y>.

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WHO. 2020-2021. *WHO coronavirus disease (COVID-19) dashboard*. [https://covid19.who.int/?gclid=CjwKCAiAiML-BRAAEiwAuWVggsC6HEQ0iI0N1filOD7AgGwfgRqU99F6Ev6c2tSLia0fyaOYpvF-jxoCMg8QAvD\\_BwE](https://covid19.who.int/?gclid=CjwKCAiAiML-BRAAEiwAuWVggsC6HEQ0iI0N1filOD7AgGwfgRqU99F6Ev6c2tSLia0fyaOYpvF-jxoCMg8QAvD_BwE).

Yle. 2020a. "Miten maskiskandaali eteni siihen pisteeseen, että tilauksista vastuussa oleva erosi ja väliaikainen johtaja astui tilalle?" [How did the mask scandal lead to the resignation of an agency head?]. <https://yle.fi/uutiset/3-11302809>.

Yle. 2020b. "Eduskunta äänesti ministeri Krista Kiurun luottamuksesta" [Parliament voted on the confidence of Minister Krista Kiuru]. <https://yle.fi/uutiset/3-11592072>.

Yle. 2021. "Ylen:n kuntavaalimittaus" [The municipal elections poll of Finland's Broadcasting Company]. <https://yle.fi/uutiset/3-11818183>.





Chapter

08

International Comparative Analysis of COVID-19 Responses

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## **Crisis Governance in a Multilevel System: German Public Administration Coping with the COVID-19 Pandemic**

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Public Administration and Organization at University of Potsdam*

*Prof. Dr. Jochen Franzke, senior lecturer at the University of Potsdam*

## Chapter 8. Crisis Governance in a Multilevel System: German Public Administration Coping with the COVID-19 Pandemic

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### Abstract

This study analyses how German public administration has coped with the COVID-19 intergovernmental coordination, federal, Länder and local policy responses to the pandemic as well as the issues of scientific policy advice, institutional trust and the population's support of the containment measures. After presenting some basic statistical information about COVID-19 in Germany, the institutional set-up of crisis management in the German federal system is introduced and the preparedness and capacities of the health system for a pandemic assessed.

Focusing on the developments in the year 2020, four major phases of German pandemic governance can be differentiated: Phase I: reliance on local management; Phase II: unitarization and centralization; Phase III: reemphasis on local discretion and variance; Phase IV: intergovernmental centralism. For these phases the responses and measures adopted by the federal, Länder and local governments were outlined and the (changing) coordination mechanisms at play characterized.

The study shows that while being well-prepared in terms of health capacities (ICUs, hospitals etc.) and (local) public health services, a number of shortcomings and deficits have become apparent during the crisis, some of which originate in policy decision of previous years, such as understaffed hospitals and care facilities. Furthermore, the analysis has revealed multiple problems, which have occurred over the course of the crisis, such insufficient interdisciplinary policy advice, weakened parliamentary control mechanisms, poor digital preparedness of local health authorities, shortcomings in data transmission, and (partially) shrinking support levels of German government's crisis management by the population.

Regarding intergovernmental coordination, a general trend towards more unitarization and centralization in pandemic-related decision-making up to what we label "intergovernmental centralism" worked out, while at the same time major implementation and management functions remained with the – increasingly overburdened - local levels.

**Keywords:** Germany, Multi-level governance, coordination, Public Administration, Pandemic, Executives.

## Summary

This study analyses how German public administration has coped with the COVID-19 pandemic. It analyses crisis governance in the multilevel system, addressing the role of intergovernmental coordination, federal, Länder and local policy responses to the crisis as well as the issues of scientific policy advice, institutional trust and the population's support of the containment measures. After presenting some basic statistical information about COVID-19 in Germany, we introduce the institutional set-up of crisis management in the German federal system and assess the preparedness and capacities of the health system. Focusing on the developments in 2020, we make a distinction between four major phases of pandemic governance: (I) Phase I: reliance on local management; Phase II: unitarization and centralization; Phase III: reemphasis on local discretion and variance; Phase IV: intergovernmental centralism. For the different phases of the pandemic, we outline the responses and measures adopted by the federal, Länder and local governments and the (changing) coordination mechanisms at play. The study shows that while being well-prepared in terms of health capacities (ICUs, hospitals etc.) and (local) public health services, a number of shortcomings and deficits have become apparent during the crisis, some of which originate in policy decision of previous years, such as understaffed hospitals and care facilities. Furthermore, the analysis has revealed multiple problems, which have occurred over the course of the crisis, such as insufficient interdisciplinary policy advice, weakened parliamentary control mechanisms, poor digital preparedness of local health authorities, shortcomings in data transmission, and (partially) shrinking support levels of German government's crisis management by the population. Regarding intergovernmental coordination, we show that there was a general trend towards more unitarization and centralization in pandemic-related decision-making up to what we label "intergovernmental centralism", while at the same time major implementation and management functions remained with the – increasingly overburdened – local levels.

**Keywords:** Germany, Multi-level governance, coordination, Public Administration, Pandemic, Executives.

## **1. Introduction**

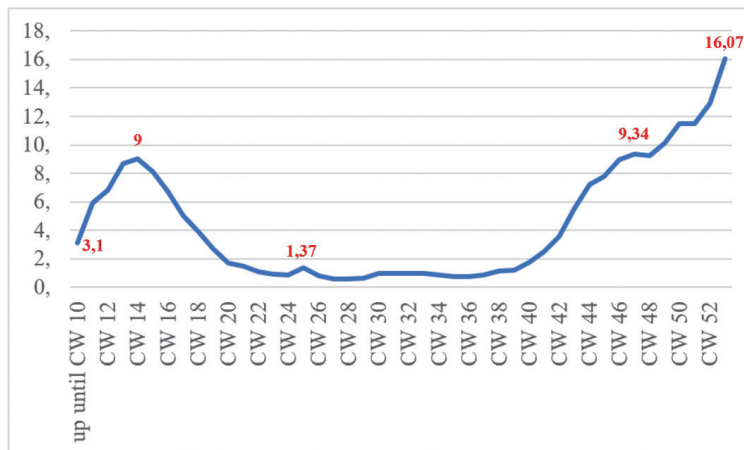
This study analyses how German public administration has coped with the COVID-19 pandemic. It analyses crisis governance in the multilevel system, addressing in particular the role of intergovernmental coordination between the federal, Länder and local levels as well as how governments were advised by scientists, how data was generated and reported, how parliaments have responded to the crisis and what extent people supported the measures taken by governments. Concentrating on the developments in 2020, we will investigate how different actors in the intergovernmental setting have managed crisis mitigation, which challenges and tensions have become apparent and which solutions have been chosen to overcome shortcomings. Doing so, we shed light on the institutional set-up and the legal framework of crisis management in the German federal system and assess the preparedness and capacities of the health system. Focusing on the developments in 2020, we make a distinction between four major phases of pandemic governance: (I) Phase I: reliance on local management; Phase II: unitarization and centralization; Phase III: reemphasis on local discretion and variance; Phase IV: “intergovernmental centralism”. For the different phases of the pandemic, we outline the most important responses and measures adopted by the federal, Länder and local governments and the (changing) coordination mechanisms at play. The study shows that while being well-prepared in terms of health capacities (ICUs, hospitals etc.) and (local) public health service, a number of shortcomings and deficits have become apparent during the crisis, some of which originate in policy decision of previous years, such as understaffed hospitals and ill prepared care facilities for the elderly. Furthermore, the analysis reveals multiple governance problems which have occurred over the course of the crisis, such as weakened parliamentary control mechanisms and checks and balances, the poor digital preparedness of local health authorities, shortcomings in data transmission and reporting, and insufficient interdisciplinarity and openness in policy advice. Regarding intergovernmental coordination, we show that there was a general trend towards more unitarization and centralization in pandemic-related decision-making up to what we label “intergovernmental centralism”, while at the same time major implementation and coordination functions remained with the – increasingly overburdened - local levels as key actors in pandemic management.

In the following, we first present some basic statistical data on COVID-19 and how it affected the German health system (section 2). Afterwards key features of the German system of crisis management and its preparedness in regards to pandemics will be outlined (section 3). This is followed by an in-depth analysis of crisis governance and management at the federal, Länder and local levels (section 4), the governments’ responses to the crisis (section 5) and the policy advice (section 6). Finally, we provide some survey data on institutional trust, the populations’ support of the measures and emerging opposition to governments’ crisis management (section 7). The concluding section (8) summarizes major characteristics, strengths and weaknesses of Germany’s COVID-19 governance and gives an outlook to future developments.

## 2. Basic Statistical Information on COVID-19 in Germany

Since the detection of the first COVID-19 case on January 28, 2020 until December 31, 2020 a total of 1,719,737 people were positively tested on SARS-COV2<sup>1</sup> in Germany with a population of app. 83 million people, about 1.4 Million had recovered or finished quarantine and 33,071 died in association with COVID-19 (see RKI 2020a). After an initial period of significant growth from end of February to the end of March 2020 (first Covid-19 wave) when the rate of positively tested persons was highest (about 9 % in week 14), a substantial decline was registered to a quota of about 1 % by end of May. Since then, the quota has remained more or less stable until end of September when it progressively climbed again up to about 12 % end of December (second Covid-19 wave) as the highest level in 2020 (Statista 2020b).

Figure 8-1. Quota of SARS-CoV-2 Positive Persons in Germany (March-December 2020)



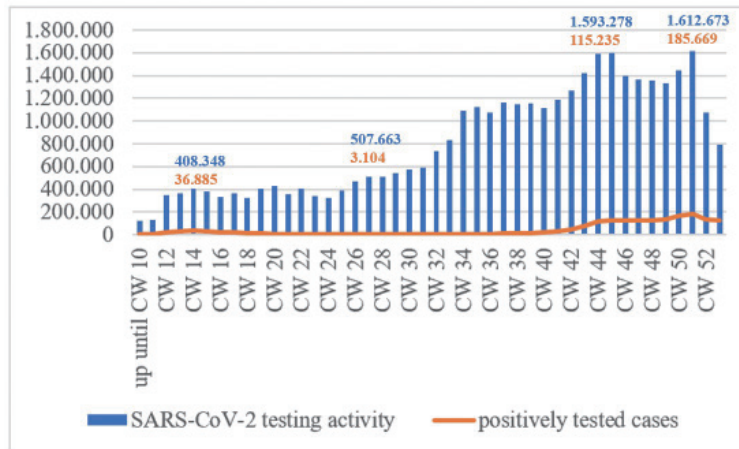
Source: Statista 2020b. CW short for Calendar week.

The testing capacity and policy have been changed significantly over time, in Germany. At the beginning of the pandemic, the testing frequency was limited to between 125,000 (March) and 400.000 (April) weekly tests (see Figure 8-2). These were predominantly concentrated on people with symptoms and those in contact with positively tested persons. The German testing policy was adapted quantitatively by expanding the testing capacity to about 1.6 million by November 2020. It was altered by increasingly including people without symptoms or contacts to positively tested (particularly travellers returning home) and shifting to a mass testing strategy. The extended testing activity was accompanied by increasing absolute case numbers, yet also a quite stable quota of positively tested

<sup>1</sup> We use the term “cases” for people with a positive PCR laboratory test result on SARS-CoV-2.

from July to September while since then the quote of positively tested climbed, too (see Figure 8-1). From an international comparative perspective, the German testing intensity was with about 400,000 tests per million inhabitants by end of 2020 at medium/lower level.

**Figure 8-2. SARS-CoV-2 Tests and Positive Cases in Germany (March-December 2020)**

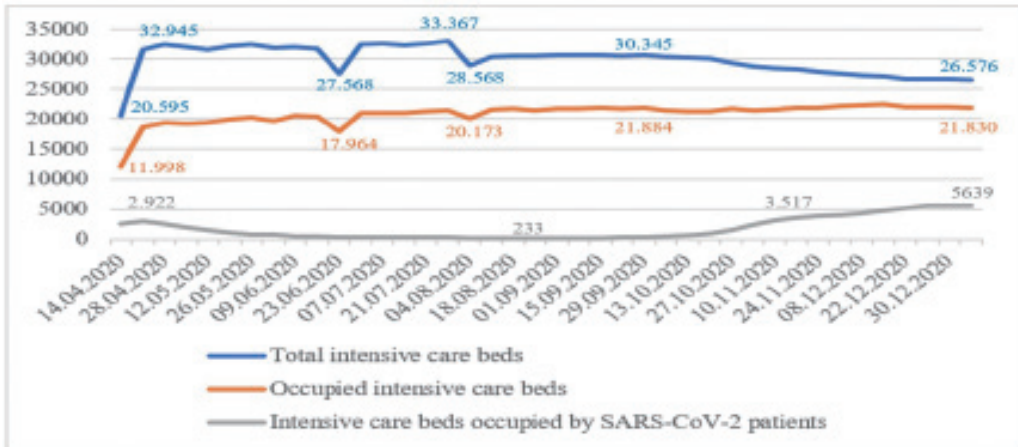


Source: Statista 2020a. CW short for Calendar week.

Regarding hospitalized cases (see Figure 8-4), a first peak was reached in April with a total of 6,064 patients which corresponds to a 20 % COVID-19 associated hospitalization rate (inpatient treatment). Since then, the number of hospitalized continuously shrank to about 244 in beginning of July (11 % hospitalization rate). From September to the end of the year, the number of hospitalized cases climbed again up to a second peak in December (8,899 cases in week 51) while the hospitalisation rate remained quite stable at about 6 % to 9 %. A first peak utilization of the intensive care units in Germany was reached on 18 April with 2,922 cases (75 % of them ventilated) based on a total capacity of about 30,077 places available in ICUs at that time (see DIVI 2020a; Deutsches Netzwerk Evidenzbasierte Medizin 2020). Since then, the number of cases in ICUs constantly shrank to reach a level of about 200 by September (DIVI 2020b). The total amount of hospitalized and ICU cases thus remaining below 400. Since June reveals that the increasing number of people positively tested on SARS-CoV-2 did not correspond to soaring numbers of seriously ill people at that time. However, with hospitalizations increasing from September onwards, the number of COVID-19 patients in need of ICU treatment jumped up to 5,639 cases by end of December which was the highest peak in 2020. At the same time the total ICU bed capacities had been reduced from 33,367 in July to 26,576 by December for still unclear reasons. However, German hospitals dispose of a so called “emergency reserve” of ICUs to be activated within 7 days (10,900 emergency ICUs in December). Thus, even at the peak of hospitalizations in December, still 15,646 ICUs were available, including the “emergency

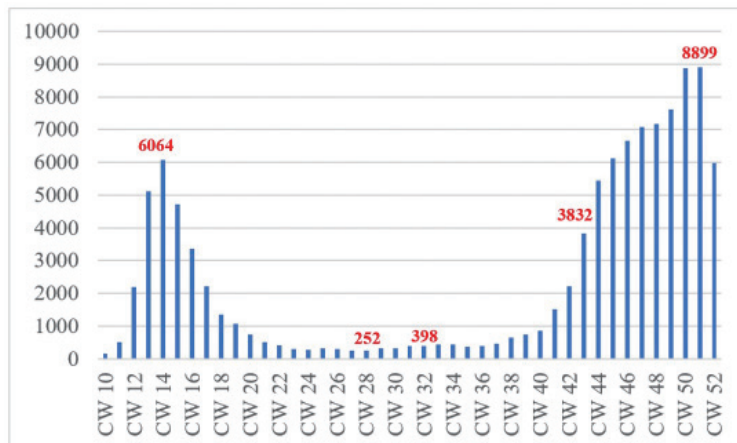
reserve”. About 15% of them were used by COVID-19 patients. The general occupancy of ICU beds in Germany remained quite stable at about 22,000 from September to December. In general, the much-feared overburdening of the German health system did not become apparent (see Deutsches Netzwerk Evidenzbasierte Medizin 2020: 2).

**Figure 8-3. Intensive Care Units (ICU), Occupation by COVID-19 Patients in Germany**



Source: DIVI 2020b. CW short for Calendar week.

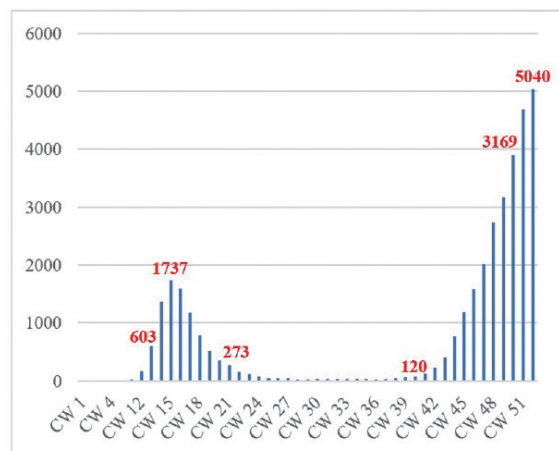
**Figure 8-4. Covid-19 Associated Hospitalisations in Germany in 2020**



Source: RKI 2020b. CW short for Calendar week.

First cases of death in association with COVID-19 were registered in Germany on 9 March 2020 to raise to a total of 33,071 until 31 December. Corona-associated weekly deaths reached a first climax from March (with 603 deaths in CW 13) to May (with 273 deaths in CW 21) with a peak in April (1,737 deaths in CW 15). There was also an excess mortality from March to May (see Figure 8-5 below). Over the summer, the number of deaths associated with COVID-19 decreased and stabilized at a level between 30 and 60 weekly cases from July to September (the average number of daily deaths in Germany is at about 2,600). In the subsequent time period, the number of COVID-19 associated weekly deaths progressively climbed from 120 beginning of October (CW 41) to a maximum of 3,169 in December (CW 49) (see RKI 2020c). The median death age remained stable at about 82 years which is above the average life expectancy for men in Germany (79 years; women: 84 years) (Statista 2020b). The share of COVID-19 related deaths which happened in care homes or other in outpatient care was specified with 50 % (see Streeck 2021) to 60 % (see Rothgang et al. 2020).

**Figure 8-5. Weekly Deaths Associated with COVID-19 in Germany in 2020**



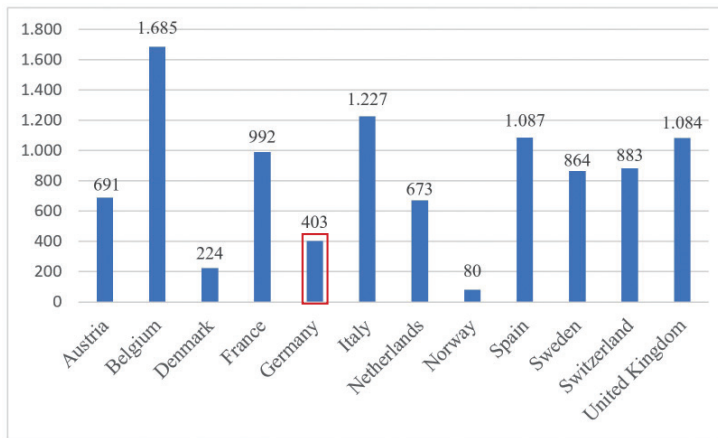
Source: RKI 2020c. CW short for Calendar week.

Regarding COVID-19 associated deaths per 1 million inhabitants, Germany ranks significantly lower by end of December, than other countries (particularly Belgium, UK, Italy, Spain, France, but also Sweden, Austria, Switzerland and the Netherlands), yet higher than Denmark and Norway (see Figure 8-6). There was registered an excess mortality in Germany compared to the 2016-2019 average specifically from March to May with a peak in week 15 (15 %), in August with a peak in week 33 (21 %) and December with a maximum of 25 % in week 50 (see Figure 8-7 below). Excess mortality was partly (especially in March/April and November/December) paralleled by an increase of COVID-19 associated deaths (see Destatis 2020a). In total, 39,201 deaths were indicated as being associated with COVID-19, by and of 2020 (which is about 4 % of all deaths). Overall, in 2020, about 48,100 deaths



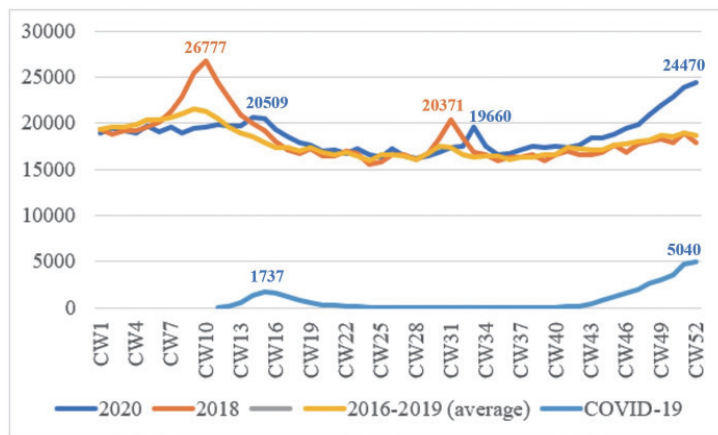
more were registered than the 2016-2019 average, which is just under a 5 % increase (see Destatis 2020b). However, this should not be interpreted as “excess mortality” because an increase in deaths by about 50,000 cases had been expected for 2020 in Germany anyway (compared to 2019), inter alia due to the changing age structure of the population which consists of an increasing proportion of inhabitants aged 80 years and beyond. Therefore, experts do not see a noticeable excess mortality in Germany for 2020 (see Der Spiegel 2021, FOCUS 2021a).

**Figure 8-6. Deaths Associated with COVID-19 per Mio. Inhabitants in Selected European Countries (as of December 31 2020)**



Source: Our World in Data 2021. Please note: The comparability of these numbers is limited due to different methods of registration and counting of COVID-19 associated deaths in European countries.

**Figure 8-7. Mortality in Germany (Deaths per Week in 2016-2019 average, 2018, 2020)**



Source: Destatis 2020c; Destatis 2020d. CW short for Calendar week.

## 3. National Context and Starting Conditions

### 3.1. Intergovernmental Set-up

In Germany, the pandemic encounters a politico-administrative system of “unitary federalism” (*unitarischer Föderalismus*), which is based on two potentially opposing principles. On the one hand, the 16 federal states (*Länder*) enjoy a powerful autonomy in having their own legislatives, executives, and judicative bodies as well as a high degree of discretion, specifically regarding the execution of federal, EU and its own laws. On the other hand, the unity of law, economy and living conditions are constitutionally protected. Multiple mechanisms provide for an enforcement of collaboration and joint decision-making across levels and jurisdictions in order to guarantee federal unity (see Fuhr et al. 2018; Kuhlmann 2020; Kuhlmann et al. 2021d).

Manifold intergovernmental collaboration mechanisms have been institutionalized, some of which involving the *Länder* only (horizontal collaboration), whereas others involve the federal and the *Länder* level (vertical collaboration). Within this setting the principle of an “executive federalism” is another important key feature, which also played out during the pandemic. According to this principle, the federal level is mainly responsible for policy formulation, whereas the *Länder* and the local governments as parts of *Länder* administration are mostly engaged in policy implementation (see Kuhlmann/Wollmann 2019). Under these circumstances, the federal level has no hierarchical control, no legal supervision, and also no financial appropriation over the *Länder* level. As a consequence, the federal executive has only very little direct involvement in implementation and service delivery, and thus does not operate with regional or local offices (exceptions include defence, customs, inland waterways, and the federal police).

As part of the *Länder* administration, the 10.790 municipalities<sup>2</sup> and the 294 counties (to a somewhat lesser degree) have the constitutional right “to regulate all matters relevant for the local community under their own responsibility within the limits set by the laws”. Their wide range of self-government and delegated functions makes up 70 to 80 % of all legal provisions (federal, Land and EU) applied and implemented by the local authorities (Fuhr et al. 2018). Within this multi-purpose profile, the local executive acts as a politically accountable local politician, rather than as ‘agent of the State’, even in the conduct of delegated state tasks. From a comparative perspective, the German local government system can be regarded as one of the functionally and politically strongest in Europe possessing a broad multi-purpose task profile, robust administrative structures and manifold competencies, inter alia in public health issues and implementing the protection measures of the federal and *Länder* governments.

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<sup>2</sup> As independent cities (*kreisfreie Städte*), 107 of them, also have the competencies of a county.

## 3.2. Health System

The German health service consists of three pillars: the public health service (*Öffentlicher Gesundheitsdienst*, ÖGD), the outpatient medical care (*Ambulante medizinische Versorgung*) and the inpatient medical care (*Stationäre medizinische Versorgung*). This corporate system is highly decentralized, involving a multitude of subnational and local institutional actors, self-governing bodies and sub-state authorities (see Kuhlmann et al. 2021c, 2021d). Whereas the federal level is basically limited within the system to monitoring, surveillance, research and legislative functions, the lion's share of health-related tasks is assigned to the *Länder* and local governments. This goes especially for health protection and aid, supervision of professions and health care facilities, based on specific *Länder* health service laws. These tasks are institutionally assigned to the *Länder* ministries of health, most of which have subordinated health authorities (mostly combined with other related tasks like social affairs). The management and financing of hospitals is assumed by the *Länder* and local governments. The *Länder* must ensure investments and elaborate hospital plans for their territory, which determine the number, the location, and the medical specializations of hospitals in different parts of the *Land* as well as the number of hospital beds. Local governments are responsible for the management of local hospitals, where roughly 30 % of all clinic doctors are employed (Vereinigung der kommunalen Arbeitgeberverbände 2020).

In quantitative terms Germany belongs to the top-scorer in the European Union, especially regarding health expenditures (see Bouckaert et al. 2020; Kuhlmann et al. 2021c). With 4,300 € per capita or 11.2 % of the GDP, they are the highest in Europe and approximately 50 % above the EU average (see European Commission 2019). Additionally, Germany has “some of the highest rates of beds, doctors and nurses per inhabitants in the EU” (OECD/European Observatory on Health Systems and Policies 2019: 3). Around 84.4 % of the total German health expenditure is financed by government programmes and compulsory insurance, including statutory and private health insurance, additionally private households contributing 12.5 %. Health care industry is one of the largest sectors of the German economy with 11.2 % of GDP. Around 85 % of the population is covered by statutory health insurance, the rest by private ones (European Commission 2019: 9). With eight hospital beds per 1.000 inhabitants, the number is the highest in Europe (see European Commission 2019). In March 2020, the roughly 2,000 public, private, and non-profit hospitals provided about 500,000 beds, 28,000 of which with intensive care equipment and 25,000 with respiratory devices. The occupancy quote of ICUs during the first year of the pandemic was never beyond 85%.

With regard to the qualitative indicators, by contrast, a number of deficits in the German health system have revealed, which have been criticized since many years without being resolved. These shortcomings have become acute and visible to the wider public during the pandemic. The major

problem lies with the severe staffing deficits in hospitals and nursing services as well as with their inadequate technical equipment. The OECD therefore valued the German health system as only “moderately effective” (OECD/European Observatory on Health Systems and Policies 2019: 22). Since the 1990s, the German hospital system is in the focus of New Public Management (NPM) driven privatization and marketization. Since 2009, the number of publicly owned hospitals is lower than the number of hospitals in private or profit-oriented ownership<sup>3</sup>. One consequence of this NPM-driven trend has been that efficiency and profitability concerns have become increasingly important in hospital management - partly at the expense of employees and patients, although, in total, the investment volume has increased as a result of more private investments (see Klenk/Reiter 2012: 410). Since 2003, treatments in German hospitals have been billed based on state-financed lump sums, which creates cost pressure without systematic consideration of quality and non-transparent redistribution effects in and between clinics<sup>4</sup> (Simon 2020: 12). Significant economic and financial malfunctions have resulted from this mode of financing. Another consequence has been staff reductions leading to shortages and bottlenecks in the care sector. Since long, German hospitals and especially the nursing services are understaffed, 12,000 full-time positions were vacant in the nursing sector (including 4,700 in intensive care) and about 3,300 for medical doctors (Blum et al. 2019). From a comparative perspective, Germany is one of the countries with the lowest number of care personnel per capita in Europe. This so called “state of emergency in the care sector” (*Pflegenotstand*) has been increasingly debated, however, without effective solutions so far.

Some critics see the causes for these dramatic deficits more deeply, in the inflexible corporatist structure of the German health care system, especially in the role of the Federal Joint Committee (*Gemeinsamer Bundesausschuss, G-BA*) as an organ of self-administration in the health care system, in which the general interests of society as a whole hardly play a role. (Reinhart et al. 2020). Like a legislator, the G-BA adopts guidelines and other standards that everyone in the healthcare system must adhere to.

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3 In 2017, 37 % of German hospitals were in private ownership, 29 % publicly owned and 34 % managed by non-profit providers (Statista 2020c).

4 In this context, additionally the dense network of health facilities throughout the country which guarantees for proximity and short distances was also criticized for reasons of efficiency by some health economists.

## 4. Crisis Governance

### 4.1. Pandemic Governance in the Multilevel System

In times of peace, the central state (federal level) has no legal means to impose pandemic emergency measures (such as shutdowns, lockdowns) to the subnational levels (see Franzke/Kuhlmann 2021; Kuhlmann 2020). Since the Federal Government did not make use of its constitutional emergency regulations on defence (Art. 91, 35 Basic law) but based its crisis strategy mainly on the Federal Infection Protection Act (*Infektionsschutzgesetz IfSG*) which is executed by the *Länder* and local governments, the intervention powers of the federal government in the pandemic remained rather limited. Based on the general clause (§ 28) of the IfSG, only the *Länder* can enact executive orders to temporarily suspend fundamental civil rights, such as the right to free assembly, free movement, free development of the individual, free exercise of religion and free exercise of profession. The Federal Government could only give recommendations to the *Länder* and push for coordinated measures. Consequently, the German containment policies were mainly based on executive orders by the *Länder* and local governments imposing lockdowns, contact-bans, shutdowns and closures of public facilities.

However, the predominance of sub-national actors does not mean disconnected and completely discretionary actions – quite on the contrary (see section above). According to the principles of a “unitary” and “cooperative federalism” (see Behnke/Kropp 2021) intense coordination and collaboration across levels and jurisdictions was extensively practiced during the pandemic, at times even tending to the peculiar and untypical feature of an informal executive centralism. Drawing on well-trained intergovernmental coordination mechanisms, horizontal and vertical coordination of the federal and 16 *Länder* governments (“*Bund-Länder Koordination*”) was used to achieve nationwide standards of pandemic containment, particularly in phases with rising case numbers (March/April; October onwards). Over the course of the crisis, phases of intense coordination and “unitarization” of decision-making, especially when the pandemic situation was perceived as aggravating, alternated with phases of looser intergovernmental collaboration and more discretionary regulatory powers of the *Länder* and local governments, particularly when the situation was perceived as more relaxed and a lifting of measures as justifiable. To put it exaggeratedly, the lockdown-yoyo was paralleled by a centralization-yoyo with subsequent phases and repeated re-balancing of localized/discretionary and centralized/uniform containment regulation. Interestingly, regulatory unitarization and negotiated alignment of measures were predominant in phases of perceived crisis aggravation whereas in times of perceived relief, subnational discretion and more regional variance of containment rules appeared to be appropriate. As a result, the regulatory landscape (lockdown rules etc.) looked quite homogeneous in different German regions, some criticism about an alleged federal mess in the *Länder*-specific details of containment notwithstanding.

So called “*Bund-Länder* Summits”, consisting of the Federal Chancellor and the 16 *Länder* Prime Ministers, have developed as the main mechanism of intergovernmental coordination in the pandemic. In 2020, 16 of these “Summits” have taken place between 12 March, and 13 December whereas in previous (non-crisis) periods, these conferences only took place twice a year. By far the majority of Germany’s key decisions in pandemic containment were adopted in these intergovernmental “Summits” by way of legally non-binding framework agreements. The latter were transposed later on into legally binding regulations by each *Land* individually. The intergovernmental Summits represent however only an informal coordination body without constitutional foundation, direct political accountability or the legal power of enacting binding decisions. As the relevance and importance of this body has increased immensely during the crisis, we can observe a new quality and intensity of intergovernmental coordination and executive federalism which we pointedly label here as “intergovernmental centralism”<sup>5</sup>.

While, initially, the *Länder* differed widely in their approaches regarding lockdowns, shutdowns, and school closures etc., later on, as a result of this coordination mechanism, but also following court decisions, the regulatory landscape of pandemic containment became more homogeneous, with however some remaining variance in degrees of strictness and details of execution. Hence, federal harmonization by way of intergovernmental coordination, with a conspicuous centralizing and unifying impetus became an ever-more crucial feature of pandemic management, specifically regarding high-stakes decisions on containment. At the same time, local governments remained the major implementation level of these decisions jointly taken by the *Länder* and Federal Government.

## 4.2. Phases of Pandemic Containment

Regarding the intergovernmental coordination of pandemic containment four phases can be distinguished from January until December 2020 (see Franzke/Kuhlmann 2021; see Figure 8-8):

- **First Phase:** From detection of the first COVID-19 case on the 28 January, 2020, in Bavaria until the 17 March, when the infection risk level was rated “high” by the Federal Authority for Disease Surveillance and Prevention (Robert-Koch-Institut, RKI), the logic of the pandemic management was predominantly local or at least decentralized. Besides the cancellation of mass events by the *Länder* governments, no countrywide measures of containment were considered necessary. During this first phase the sub-national administrations (*Länder*, local governments) managed the pandemic on their own discretion according to the pertinent provisions of the IfSG. When on 8 March the Federal Minister of Health recommended to cancel all public events with more than

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<sup>5</sup> All decisions of these intergovernmental Summits can be found in the appendix.

1,000 participants, all *Länder* governments followed. During this phase, local governments were key actors of pandemic mitigation and took responsibility for enacting containment measures tailored to the local necessities. Besides contact tracing and domestic quarantining, local health authorities enacted punctual containment regulations, such as school closures or shutdowns of facilities. The county of Heinsberg in North-Rhine Westphalia (NRW), for instance, where the first German COVID-19 hotspot was identified, was the first local government to enact the closure of all schools and kindergartens, on the 26 February.

- **Second Phase:** After the RKI adjusted the infection risk level from “low/medium” to “high” on 17 March (it remained “high” over the rest of the year), discretionary containment by the sub-national governments was not considered appropriate anymore. Instead, more intergovernmental coordination of measures and a uniform national strategy of containment was seen as necessary accompanied by centralizing attempts to allocate more powers to the federal executive. In this phase – the first peak of the pandemic in terms of case numbers – containment measures were intensely coordinated and streamlined in order to achieve uniform regulations across levels and to avoid a “federal patchwork” which was criticized by some. “Speaking with one voice” became the predominant narrative of an increasing and rapid tightening of containment measures and a (temporal) suspension of a number of fundamental rights. With the “joint guidelines to slow down the spread of the Coronavirus” adopted on the 16 March, the Federal and the *Länder* Governments attempted a harmonized proceeding in pandemic containment across the entire country. Nationwide shutdowns were enacted by all *Länder* and, step by step, all schools and kindergartens were closed, nationwide contact-bans (limited lockdowns) imposed and subsequently extended (see section 4). In general, this phase was a “race to the top” regarding the *Länder* responses to the pandemic (Eckhard/Lenz 2020: 7): after the lockdown was decided in Bavaria and Saarland on the 21 March, all other *Länder* followed suit only a day later. The same applies to the introduction of monetary fines for those people disregarding the regulations, which were first introduced in NRW on the 27 March, followed by all other *Länder* in April (ibid.). As a consequence of vertical and horizontal (self-) coordination, local governments’ discretion in deciding on mitigation measures in their territories tailored to their specific epidemic situation shrunk.
- **Third phase:** With the numbers of cases, hospitalizations and deaths decreasing and then remaining stable on a very low level over spring and summer, the pendulum swung back again, towards more sub-national discretion and variance. Thus, between the extremes of unity and variance within the “unitary federalism”, the features of variance and competition regained importance in this third phase. The debates and decisions regarding regulations on how to exit lockdown and how to deal with new cases in the long term became more diverse and less



coordinated (thus linking up to the first phase). NRW and Bavaria represented two extremes here, with the former standing for a more permissive approach and the latter supporting a stricter one during this time period. Although the *Länder* prime ministers and the Federal Government decided on the 15 April to extend most of the containment measures (apart from the re-opening of smaller shops and schools for higher classes in compliance with the Corona hygiene regulations), much discretion and leeway was granted to the *Länder*. Consequently, they could decide about possible deviations from the general rule, stipulate more relaxed or stricter rules for their respective territories and determine the concrete timing of school re-openings. As a result, increasing variation and complexity occurred in the concrete details of the “exit regulations” in the different *Länder* and cities, with some of them enacting stricter and some looser rules according to regional particularities and political preferences. Whereas in the second phase of the pandemic, the Federal Government had assumed a leading role in coordinating and moderating the intergovernmental agreements to ensure federal unity (see above), this position was largely given up from the 6 May onwards. The further process left up to the *Länder* and local governments, except for some basic rules which continued or newly started to apply nationwide (see section 4).

- **Fourth phase:** When from October 2020 onwards incidences raised again (see section 2) the intergovernmental coordination between the federal and the *Länder* governments intensified. Containment regulations were tightened step by step until the end of the year. Drawing on the experiences of the second phase (see above), the density and frequency of joint executive decision-making were even accelerated in the fourth phase. Thus, the heads of the *Länder* and federal governments met biweekly to reassess the situation and to deliberate on the further continuation and tightening of containment. This high meeting frequency might also be explained by the fact that, apart from the ‘incidence rule’<sup>6</sup>, no long-term strategy of pandemic mitigation was defined and thus all measures had to be adjusted ad hoc based on the just occurring incidence numbers. To put it pointedly, the intergovernmental body of federal and *Länder* executives tended to get the status of a ‘substitute government’ where all key pandemic decisions were taken to be ratified and formalized later on by the *Länder*. With the agreement of 14 October, the ‘hotspot-strategy’<sup>6</sup> introduced in May was concretized. Thus, the leeway for the *Länder* and local governments to autonomously decide about containment concepts in local hotspots of their

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<sup>6</sup> This strategy was agreed between the *Länder* and the federal governments on 6 May obliged the former to make sure that in counties or county-free cities with more than 50 new incidences per 100,000 inhabitants within 7 days strict containment concepts will be implemented (see Bundesregierung 2020b).



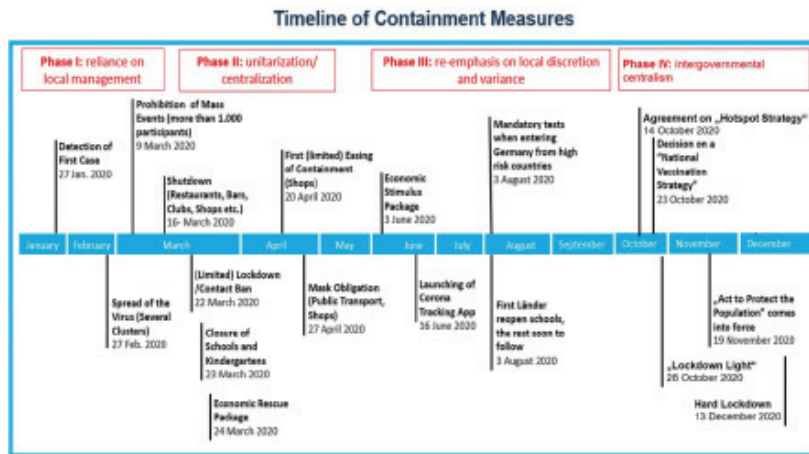
territories was trimmed, based on some standardized nationwide rules.<sup>7</sup> Arguing that only below a threshold of 50 new incidences per 100,000 inhabitants within one week contact tracing by the local health authorities would still be manageable which in turn was seen as a precondition to avoid a crash down of the health system, this ‘incidence rule’ continued to be the key indicator for all governmental decisions over the course of the pandemic.

When the fairly soft measures failed to stop case numbers climbing in the whole country and about 75 % of all cases were not traceable anymore, stricter measures were seen to be necessary by end of October. With the agreements of 28 October, 16 November, 25 November, and 13 December progressively tighter restrictions were jointly agreed upon by the *Länder* and federal governments, initially limited in time and then subsequently prolonged, with the aim of making case numbers shrink below the incidence margin of 50. These efforts climaxed in a ‘light’ and then ‘hard’ lockdown decided on 28 October and 13 December respectively (for details see section 4), including inter alia the re-closing of schools, kindergardens, shops, and restaurants. In contrast to the spring lockdown, the winter lockdown included even formal curfews in some *Länder* (e. g. Brandenburg), indicating stricter containment than in the first wave. Critics also labelled the repeated alternation of lockdown and relief as a kind of ‘Lockdown Yoyo’ severely questioning the long-term effectiveness of this approach (see FOCUS, 13.1.2021). Although according to the ‘hotspot strategy’, the *Länder* still could enact stricter or looser rules adapted to their regional circumstances and political preferences, the intergovernmental containment agreements have resulted in growing national uniformity, standardization and harmonization of pandemic measures whereas the local discretion and variance shrank considerably. ‘Normal’ subnational crisis governance was largely substituted by intergovernmental arrangements at central state level composed by the heads of the federal and the *Länder* governments. The peculiar pattern of an informal executive centralism thus became characteristic during the peaks of the pandemic with negotiations and agreements as predominant modes of governance formalized later on by the *Länder* as legally binding executive orders. Although within the model of unitary and executive federalism in Germany, various federal-*Länder* coordination bodies are well-known and multilevel agreements much practiced, the centralizing impetus of pandemic intergovernmental arrangements appears to be quite exceptional.

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7 They include inter alia an extended obligation for wearing face masks, the limitation of participants in events to 100, including 1.5 m physical distance, and the limit of public gatherings to a maximum of 10 persons as well as a closing hour for restaurants from 11 pm.

Figure 8-8. Timeline of Containment Measures



Source: Own compilation of the authors.

### 4.3. Establishing an Emergency Regime

As the Federal Government’s intervention options in managing emergencies and governing the pandemic are limited, the Federal Minister of Health strived to strengthen his institutional position by shifting powers in the institutional system and gaining additional competencies regarding sub-national pandemic management (see also Kuhlmann et al. 2021c). Based on a new law on “the protection of the population in the event of an epidemic emergency of national concern”, which was passed with a broad cross-party consensus in parliament, the Bundestag became empowered to declare (and stop) this kind of emergency. According to the amended § 5 of the IfSG (*Erstes Bevölkerungsschutzgesetz*), during an “emergency of national concern”, declared on the 27 March and further extended beyond 2020, the Federal Minister of Health gains considerable additional powers and discretion to decide measures unilaterally and to issue orders in the (otherwise decentralized) system of public health governance as long as the emergency legally persists. He is then authorized to enact exceptions from the federal law (IfSG) by way of statutory ordinances without parliamentary approval and without consulting the Länder and their parliamentary chamber (*Bundesrat*).<sup>8</sup> This is a highly controversial issue which some lawyers considered as unconstitutional (Thielbürger/Behlert 2020) or at least constitutionally questionable (see Deutscher Bundestag 2020b: 6).

8 The new intervention powers of the Minister of Health under this pandemic emergency rule include inter alia the right to order physical examinations for travellers, travel bans for specific countries, and to secure the purchase of medicaments and cures, medical products, and materials for disinfection and laboratory prognostics. This authorization is limited in time, but must be withdrawn on 31 March 2021 or 31 March 2022 (IfSG, version of November 2020) or when epidemic emergency does not persist anymore.

Drawing on the new pandemic “emergency rule”, the Ministry of Health made widely use of its upgraded regulatory competencies. A range of new ordinances were enacted which in a “non-emergency situation” would not fall under the regulatory competence of the Minister of Health, for instance new ordinances regarding stock increases of medicaments for intensive care, licensing regulations for doctors, dentists and pharmacists, securing training in the health professions, compensating financial burdens of dentists, drug providers and maternal health care facilities, procurement of medical products and personal protective equipment, ensuring the supply of the population with medical products as well as on international travel. The “carte blanche” authorization of the Ministry of Health concerns substantial parts of federal regulations that are actually or could potentially be affected<sup>9</sup>. Besides the upgrading of the operative powers of the Federal Ministry of Health regarding the pandemic management system and the national regulation of pandemic emergency issues, further centralizing steps were taken by upgrading the institutional position of the RKI to a “national authority for disease monitoring and prevention” charged with new intervention powers and capacities to coordinate mitigation strategies between the Länder and the federal level.

The second amendment of the IfSG (*Zweites Bevölkerungsschutzgesetz*) of 19 May referred to some practical issues of pandemic management, for example regarding support for the public health service, increasing testing, track and trace capacities and granting financial means to staff in care facilities. The third amendment of the IfSG was passed by the Bundestag on 18<sup>th</sup> of November with the third law on civil defence (*Drittes Bevölkerungsschutzgesetz*). This law was an important step to legally consolidate and secure the pandemic containment policies of the *Länder*. Given that the IfSG general clause § 28 was the sole legal basis for suspending civil liberties and that some executive orders had been repealed by the courts due to unconstitutionality (e.g., the “lodging ban”) a necessity was seen to create a more solid legal basis for pandemic containment. The new law was adopted with the votes of the parliamentary parties in government (CDU/CSU, SPD) and the Greens whereas the other opposition parties rejected the proposal. With this law, the legal foundation of the *Länder* executive orders, was enhanced based on a new §28a in the IfSG. By “listing” (or “copy and pasting”) (see Matuscheck 2020) the *Länder* executives’ containment measures (lockdowns, shutdowns, curfews, physical distancing rules, mask obligation etc.) explicitly in the IfSG, the federal parliament “certified” their lawfulness (see Kießling 2020: 4). The same applied to the “incidence rule” (50 cases per 100.000 inhabitants) of the *Bund-Länder* agreements defined in the law as the general threshold value for the suspension of civil rights (see above). With this, on the one hand, the parliament reacted to a major critique raised by lawyers according to which the “old” IfSG was not sufficient to justify

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<sup>9</sup> Data regarding the number of regulations concerned by the Minister’s “carte blanche” vary. According to the official information of the Federal Ministry of Health about 34 ordinances were concerned (Bundesministerium für Gesundheit 2021). The legal expertise of the FDP fraction identified however more than 1,000 regulations potentially affected by this authorization (Kingreen 2020: 7; experts’ hearing of the German Bundestag, committee for health, 9.9.2020).

comprehensive suspensions of civil rights enacted by the *Länder* executives. These interventions were regarded as requiring a direct parliamentary legitimation (see inter alia Papier 2020). Accordingly, the new law provided a solid statutory basis for the suspension of constitutional rights by the *Länder* executives.

As a consequence, the legal basis of pandemic containment was fortified and the position of the *Länder* executives to suspend constitutional rights during a pandemic legally consolidated while possibilities for citizens to successfully sue against the restrictions were reduced. The legislative proposal was heavily criticized by many experts in the parliamentary hearings and beyond. It was claimed that the legislator had failed to weight different constitutionally affected interests, to formulate the regulations clearly, precisely and unambiguously (*Bestimmtheitsgrundsatz*), to respect the principle of parliamentary reservation (*Parlamentsvorbehalt*), to specify the conditions under which mild, sever and highly restrictive containment measures must be adopted and to respect the administrative autonomy of the *Länder* when stipulating nationwide uniform measures under certain conditions (see Klafki 2020: 8; Kießling 2020: 2). Against this background the third civil defence law was regarded as “deficient in many respects” (Klafki 2020: 8) and criticized as one-sidedly legitimizing the pandemic policies of the *Länder* executives without balancing interests (see Kießling 2020: 2). Some experts in the parliamentary hearing therefore dissuaded from adopting the law and warned it would bring about more harm than benefit (Klafki 2020: 8). Many civil society groups, too, protested against the law e.g., “Mehr Demokratie”. (see Deutscher Bundestag 2020c).

In terms of checks and balances, the overall result of the various legal amendments was a weakening of the federal legislative (*Bundestag*) and (partly) the *Länder* in an “epidemic emergency of national concern” while the central-state executive, specifically the Minister of Health, was conspicuously upgraded. The balance between the legislative and the executive branches has clearly shifted towards the latter. The pandemic can therefore undoubtedly be referred to as the “moment of the executive” leading to what could be labelled as an (informal) executive centralism as a peculiar feature of crisis governance.

#### 4.4. Inter-Departmental Coordination

Although in times of peace hazard control and danger prevention are essentially subnational tasks assumed by the German *Länder* (see Art. 30 Basic Law), in risk situations of national concern the federal Government can grant support to the *Länder* (information, advice, provision of resources). Additionally, it has to make sure that a coordination between the *Länder* and the federal level is ensured regarding risk assessments and protective measures. In the case of national emergencies, the establishment of inter-ministerial emergency task forces on the federal level of government is provided

as a pertinent tool of coordination across departments. This type of cross-departmental organization represents an exception to the normal departmental principle (Ressortprinzip) which is constitutionally enshrined and otherwise predominant in German federal governmental coordination. The cross-departmental composition of the emergency task forces is meant to bundle various departmental interests and to guarantee horizontal coordination and a joint approach of central-level emergency management in cases of large-scale risk situations, such as a pandemic.

During the COVID-19 pandemic, this task was assumed, from February 27 onwards, collaboratively by the Federal Ministries of Health and of Interior as lead ministries of the task force which met twice a week. Furthermore, representatives of the Ministries of Economy, Finance and Social Affairs and other departments were included to take into account adequately the high risk of collateral damages for the economy and society. Apart from that, two - a small and a large one - federal-level 'Corona Cabinets' were established, which met twice a week, especially during the shutdowns<sup>10</sup>. Furthermore, the federal risk management procedures provide for an inter-ministerial coordination group (*Interministerielle Koordinierungsgruppe des Bundes und der Länder, IntMinKoGr*) meant to facilitate the coordination between the Federal and the *Länder* Governments in national risk situations with a high demand of intergovernmental consultancy. By mid-March 2020, all *Länder* governments, too, set up emergency task forces to cope with the pandemic crisis in their territories. These worked in close collaboration with *Länder*-level inter-ministerial coordination groups to ensure an intergovernmental and interdepartmental coordination.

## 4.5. The Role of Local Governments

The backbone of the German public health service is made up by the 375 local health authorities (*Kommunale Gesundheitsämter*) located in the counties and county free cities (see Franzke/Kuhlmann 2021). Quickly beefed up with additional money and manpower during the pandemic, they have become "one of the central pillars of Germany's crisis response" (Financial Times 2020). However, their most important task during the COVID-19 was to implement the IfSG on their own discretion and under the supervision of the *Länder*. Dealing with epidemic crises is nothing new to the local health authorities as they can draw on longstanding experiences in managing health threats and containing local outbreaks, e. g. of measles and other infectious diseases. They have proven to be institutionally resilient and viable in coping with major health crises. "Every public health officer of a county has

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10 The so-called small Corona Cabinet, headed by the Federal Chancellor, included the federal ministers of defence, finance, the interior, foreign affairs, health and the head of the Federal Chancellery. The so-called large Corona Cabinet additionally included all specialist federal ministers who are responsible for the topics on the agenda. If, for example, the matter of organizing enough harvest workers was on the table, the federal Minister of Agriculture was included (see Bundesregierung 2020a).

more powers than the Federal Minister of Health” stated a leading German newspaper (*Der Tagespiegel* 2020; see Franzke 2020a), illustrating the outstanding importance of the local public health service in initiating pandemic-related emergency measures.

Local governments assumed a number of key functions regarding local pandemic containment and health protection (see Franzke 2020a 2021b; Franzke/Kuhlmann 2021b). Within their broad multi-purpose task portfolio, local governments were not only responsible for health-related issues but, more generally, for pandemic crisis management within their territories, the horizontal coordination of various crisis-related administrative units at local level as well as for vertical coordination between the respective *Länder* authorities and the federal level (specifically the RKI). They made important decisions on crisis mitigation and pandemic containment and were also in charge of organizing related administrative processes and communication with the local public. For the cross-sectoral coordination of emergency management, on the local level, too, specific emergency task forces were established in all counties and county-free cities in mid-February 2020. They were meant to support the local executives in all crisis-related issues, internally coordinating mitigation measures and guaranteeing coherence of crisis management across administrative units and with other local jurisdictions. The composition of these Corona emergency task forces varied across jurisdictions, yet in general, they reflected the multi-functionality and the cross-cutting horizontal coordination capacities of local governments in Germany<sup>11</sup>.

The local Corona emergency task forces had to take over a couple of key functions in local pandemic management: (1) Bundling and coordinating all local activities on pandemic containment, drawing up process plans and developing scenarios for further crisis mitigation; (2) Collecting all available information on the local pandemic situation, evaluating and distributing it to the responsible local administrative units; (3) Organization of temporary staff transfers and resource reallocations within local administrations, mainly from various sectoral units to local health departments; (4) Providing information and communication about pandemic management to the local public; (5) Procurement of protective equipment for staff of local health authorities, such as high-quality respiratory masks, protective clothes, disposable suits and disinfectants.<sup>12</sup>

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11 In the county of Neuss (North-Rhine-Westphalia), for instance, the task force comprised the heads of the following departments: local health authority, local board for public safety and public order office (*Ordnungsamt*), school and youth offices, social welfare board, personnel office, municipal supervisory authority (*Kommunalaufsicht*), county press office, county fire brigade control centre (*Kreisleitstelle der Feuerwehr*) and county liaison command of the *Bundeswehr* (*Kreisverbindungskommando*) as well as the medical director of the rescue service and the county fire brigade chief (see Rhein-Kreis Neuss 2020). The crisis team is headed by the general representative of the head of the county. Depending on local circumstances, additional external experts were involved, e.g., from the police or from municipal hospitals.

12 This task originally not belonging to the local task portfolio shows the failure of the Federal and the *Länder* Governments in anticipating pandemic-related procurement functions and preparing for prospective health threats.

A major concern during the crisis was the precarious staff situation and the shortage of resources in the local health authorities criticized for a long time (see Bayer 2020)<sup>13</sup>. Against this background it comes as no surprise that many local health authorities were hardly able to fulfil their regular tasks even before the crisis and in urgent need of additional resources, manpower and subsidies when the pandemic began. Although these resources were partly been granted by the federal and *Länder* governments, the pure number of activities related to tracking and tracing of infection chains, quarantining persons and, in case of untraceable “infection chains”, closing facilities conspicuously overburdened the local health authorities. Not at least because of the amended testing strategy (see section 1) more cases (also without symptoms or clinical findings) were identified and thus the “infection chains” to be traced and tracked amounted to a magnitude hardly manageable anymore. As a result, many local health authorities reached their capacity limits in October 2020 at the latest. After the case numbers had soared again, in about 75 % of all cases the infections chains were not traceable anymore by the local health authorities, which was a major justification for the second lockdown in Germany enacted on 29 October. The federal army (*Bundeswehr*) was called by some overburdened local health authorities in April to support them in tracing “infection chains” and supervising quarantining, however with limited success only. The same applies to the Corona Warning App meant to support the local health authorities, yet failing in significantly relieving local health authorities from their trace and track burdens.

## 5. Government Responses and Crisis-Related Policies

### 5.1. Pandemic Plans and Risk Analyses

German health authorities can draw on longstanding experiences in managing health threats, such as SARS in 2003, bird and swine flu in the 2000s, belonging to their traditional portfolio of functions. They have proven to be institutionally resilient and viable in coping with them. Over the course of previous epidemics, the German local health authorities became more and more experienced in tracking infection chains, tracing contacts and containing virus spread, which proved to be particularly useful in the COVID-19 pandemic. This institutional legacy might be an important difference to unitary centralized countries (such as the UK) where subnational and local expertise and know-how in pandemic mitigation are less valued and trusted by central governments.

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<sup>13</sup> The number of doctors had fallen by about 1/3 between 2000 and 2018 due to staff cuts, a shortage of skilled doctors and long-time vacant positions (see Bundesverband der Ärztinnen und Ärzte des öffentlichen Gesundheitsdienstes 2020; Bayer 2020).



In Germany, the first national pandemic plan was published by the RKI in 2005. This plan was updated several times, most recently on 4 March 2020 (see RKI 2016, 2020g). It forms the general procedural framework for prospective pandemic preparation and containment measures, based on the on the global pandemic plan of the WHO and the still mentioned German pandemic experiences in the last few decades. Furthermore, all German *Länder* established pandemic plans for their territory based on the national plan, whereas many local authorities have not done so. In the crisis, these plans served as salient sources for national and sub-national policy-makers as well as for local professionals and managers to take concrete actions, establish necessary governance structures (e. g. crisis task forces), and to decide upon appropriate measures of crisis management during the various phases of the pandemic (like containment, protection, mitigation and recovery). However, crisis management practice has shown, that the various pandemic plans are not always compatible, but sometimes rather conflicting which has made coordinating containment measures across jurisdictions difficult.

Risk analyses have become important instruments to prepare German public organizations to disasters, specifically in the context of emergencies caused by floods. They have been implemented at all levels of government, however to varying degrees and with different impacts regarding the current COVID-19 pandemic. According to the Federal Law on Civil Protection and Emergency Aid (*Zivilschutz und Katastrophenhilfegesetz des Bundes, ZSKG*), the federal government is obliged to conduct risk analyses in the field of civil protection. On this basis, in 2012 a comprehensive risk analysis was conducted by the Federal Agency for Civil Protection and Disaster Assistance (*Bundesamt für Bevölkerungsschutz und Katastrophenhilfe, BBK*) and other federal offices, which was approved by the federal Parliament in 2013 (Deutscher Bundestag 2012). In this analysis, various scenarios of possible disasters were modelled (including pandemics) based on previous experiences with comparable emergencies.

Although this analysis included a scenario of a pandemic caused by virus SARS, the predicted damage for Germany (e. g. millions of deaths, similar affectedness of all age groups by the virus) does not correspond to the current pandemic. It turned out to be up to now much milder in its health-related effects than the modelled one, but some of the envisaged protective measures and the modelled collateral damages (e. g. economic and societal impacts) partly do reflect the situation during the actual pandemic. Interestingly, however, this risk analysis of a SARS virus pandemic has not explicitly been taken into account by decision-makers at all political-administrative levels, specifically to meet preparatory measures and establish appropriate governance arrangements in preparation of the predicted event. Therefore, Germany was not as well prepared for the Covid-19 pandemic as it could have been.



The poor functioning of risk analysis as a tool of emergency management does not only apply to the ex-ante and ongoing assessment of first-round crisis effects, that is the immediate health-related damages to be measured by numbers of infected, hospitalized and deaths. It even more applies to the so called “risk-risk trade-offs” (see Collins et al. 2020) of crisis management to be calculated in a comprehensive multi-dimensional risk assessment. This analysis is meant to explore the expected collateral damages of the crisis mitigation measures themselves. These so called “second-round effects” are related to any type of coping strategy and which can be economic, social, political, mental, environmental but also health-related on the longer run. Such an assessment which, by including unintended side-effects of pandemic containment measures, would be intended to lead to a more balanced multi-dimensional risk-analysis and correspond to the constitutionally required proportionality principle of crisis mitigation policies (especially when accompanied by a mid-/long-term suspension of fundamental rights on a nationwide scale). However, multi-dimensional risk-assessments, have been applied during the crisis only rudimentary if at all (see Leopoldina 2020a: 11) and not been taken into account systematically by governments when enacting and extending restrictions.

## 5.2. Key Measures of the Containment Approach

As already mentioned further above, the German COVID-19 containment strategy was mainly based on an execution of the general clause (§ 28) of the IfSG by the *Länder* and local governments. With their executive orders on lockdowns, contact-bans, shutdowns and closures of public facilities (for details see below), the *Länder* governments temporarily suspended a number of fundamental civil rights.

The following measures have been key to the COVID-19 strategy in Germany (see also appendix):

- *Lockdowns and contact-bans*: The first measure of pandemic mitigation in Germany was the cancellation of mass events with more than 1.000 participants recommended to the *Länder* governments by the Federal Minister of Health on 8 March 2020. All *Länder* followed this advice with varying delays. In the meantime, this ban was extended by 2021. From mid-March until June 2020 a considerably tighter containment strategy was pursued based on a Federal-*Länder*-Agreement adopted on 22 March. The most severe measures of this nation-wide containment approach were (limited) lockdowns (March to April), shutdowns, contact-bans and closures of public facilities, including schools and kindergartens (see below). On 22 March, all 16 *Länder* Prime Ministers and the Chancellor agreed upon a fairly coherent and uniform containment strategy with a number of common key measures to enforce physical distancing nation-wide. All agreed upon a limited lockdown and contact-ban (instead of a strict lockdown, such as in France, Italy, Spain etc.) which provided that people were generally allowed to leave their homes but they had to keep a distance of 1.5 meters minimum and must not appear in groups of more than 2

persons (except for families or domestic partnerships). Groups of people partying or assembling in the public were forbidden, any contacts to persons outside one's own household were to be minimized. Playing grounds for children were closed. Indoor private events and family gatherings clashing with these rules were prohibited, too. The compliance to these rules was supervised by the local authorities for public safety and order and by the police. Monetary fines were introduced by the *Länder* governments for punishing non-compliance.

In the first lockdown, on 20 March 2020, almost all German *Länder* closed restaurants and shops. Large parts of the economy were shut down on a nation-wide scale for roughly one month (first liftings on 15 April). The shutdown specifically affected the catering trade, shops, "body-related" services, cinemas, theatres, discotheques, bars, clubs, sports facilities. Furthermore museums, galleries, exhibitions, public memorials, zoos and botanic gardens were closed (first lifting of restrictions on 30 April). The assembly of people in churches, mosques and synagogues for worship was prohibited.

A second lockdown was decided on 28 October by the *Länder* prime ministers and the chancellor. It was expected to be a "breakwater lockdown" to stop virus spread, which actually did not work out by end of the year. The intention was to strictly limit social contacts outside one's own family. Therefore, from 2 November onwards, social contacts with other people outside the members of one's own household were meant to be reduced to a minimum. Staying in public was only permitted with members of one's own household + members of one additional household, yet not exceeding the maximum of 10 people in total. Later this was reduced to one household + one member of another household. Citizens were requested to refrain from unnecessary private trips and visits, including their own relatives. A court in Thuringia stating the unconstitutionality of this contact ban (see Amtsgericht Weimar<sup>14</sup>), which was however contradicted by other courts later on (see Thüringer Allgemeine 2021).

- *Closing intra-federal borders and internal travel restrictions:* Besides closing external borders as decided by the federal government on 15 March, some *Länder* also closed their internal borders for non-residents coming from other *Länder*. In Mecklenburg-Vorpommern, for instance, non-residents, including those with a secondary holiday homes, were not allowed to cross the border of the Land anymore. Only on 4 September this Land opened up its internal borders again for external day tourists and citizens from other German *Länder*. Per RKI countries/regions with more than 50 new cases on 100.000 inhabitants over a period of 7 days ("incidence rule") were defined as corona "risk zones". In October 2020, most of the *Länder* enacted travel restrictions for inhabitants coming from "risk zones". Citizens having their permanent residence in "risk

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14 See Az.: 6 OWi - 523 Js 202518/20.

zones” were not allowed there to be hosted in hotels or holiday apartments (so called “lodging ban”). This measure was highly controversial and the courts repealed it. However, with the second lockdown, hotels were closed again for tourist purposes.

- *Closure of schools and kindergartens*: From mid-March, some local governments enacted directives for single schools in the event of detected cases. This was followed by the Länder to debate school shutdowns for their entire jurisdiction and finally fairly homogeneous approaches of the Länder regarding country-wide school shutdowns and a general turn to home and remote. As schools are an exclusive competency of the Länder and kindergartens falling with the portfolio of local governments, joint federal-Länder guidelines did not include their shutdown. Despite some attempts at coordinating school policy during the pandemic across the Länder by the so called “conference of the Länder ministers for education” (*Kultusministerkonferenz*, KMK), a uniform agreement on school closures could not be reached. Although formally no harmonized solution was passed, after the 16 March, step by step, all Länder enacted ordinances regarding the closure of schools and kindergartens accompanied by specific regulations on emergency childcare. In September 2020, the federal and Länder governments agreed to avoid general school closings in the event of a second wave of corona infections. However, from December onwards kindergartens and schools closed were closed again combined with emergency care in day-care centres and online learning in schools.
- *“Incidence rule” as a national indicator and yard stick*: With the aim to ensure nationally uniform standards in pandemic containment, the so called “incidence rule” was agreed by the federal and Länder governments on 6 May 2020 which is monitored by the RKI. According to this rule counties and county-free cities with more than 50 new cases per 100,000 inhabitants registered within seven days, must elaborate a severe containment concept including contact-bans and possible local lockdowns. The limits of this regional hotspot approach became apparent in the second wave of infections, when at the end of 2020 all Länder were temporarily above the incidence of 50.
- *Mask obligations*: The wearing of face masks in public transport, shops and other public spaces were made obligatory – a measure which most Länder subsequently extended to other public spaces, such as restaurants, cultural and sports facilities, public buildings, stations, platforms, hotels, office buildings etc. The wearing of face masks in public was initially (on 15 April) only a joint recommendation (and not binding decision) by the *Länder* and the Federal Government based on the advice of the RKI. However, in the aftermath, Saxony, Mecklenburg-Vorpommern and Bavaria were the first three *Länder* to stipulate a general mask obligation in public transport and shops. All other *Länder* followed suit and from 27 April onwards, so this became a nation-

wide obligation. The City of Jena had been the first sub-national jurisdiction to introduce a mask obligation already on 3 April. This, again, shows the predominant trend of a “race to the top” and the diffusion of containment measures across the country without centrally steering it.

- *Testing, tracking, tracing, quarantining:* As still mentioned in Figure 8-2, testing was significantly extended from roughly 125,000 weekly tests in March to more than one million in September. For instance, Bavaria launched a comprehensive publicly financed mass testing strategy as part of its strict containment approach. Tightened quarantining rules were applied and controlled by the local health authorities, including all persons with a positive PCR test and his/her direct contacts to be identified by the authorities based on their track and trace system. The 14 days domestic quarantining did not only apply to all persons of an “infection chain” but also to returners from internal or external “risk areas” irrespective of symptoms. The comprehensive track and trace system increasingly faced the local health authorities with capacity problems, because they had to scrutinize each individual case (irrespective of symptoms) with the aim of tracing and quarantining all possible direct contact persons or, in case of major clusters or untraceable “infection chains”, closing the respective facilities. Because of the amended testing strategy more cases (also without clinical findings) were identified and thus the “infection chains” to be traced and tracked amounted to a magnitude only hardly manageable. As a result, many local health authorities reached their capacity limits. Since April 2020, the federal army (*Bundeswehr*) helped overburdened local health authorities in tracing “infection chains” and supervising quarantining. In mid-October, around 1,550 soldiers provided administrative assistance for local authorities in combating the pandemic, 1,100 soldiers supported 98 health authorities in tracking and tracing. Up to 5,000 soldiers were available at short notice (MDR 2020).

In Germany, patients were mostly tested and cared for outside the hospitals which relieved the latter from being overrun and saved capacities for critical cases. It is assumed that outpatient care structures play a key role when it comes to explaining varying degrees of crisis affectedness and severity (see Beerheide 2020). Lastly, yet importantly, there has never been a decision (as, for instance, in Italy, UK, US) to send infectious COVID-19 patients from hospitals to care homes.

The “Corona Warning App” launched by the federal government in June 2020 was meant to support the pandemic containment and specifically to relieve local health authorities from at least some burdens in tracing infections chains. The download was to be completely voluntary. The official Corona app of the RKI is based on a decentralized solution with data storage locally on the smartphones based on the Privacy-Preserving Contact Tracing Protocol (PPCP) from Apple and Google via Bluetooth and was developed by Telekom and SAP. Until the end of 2020, app. 24 million Germans (one third of the population) had downloaded the App, although not everyone actually uses it. The doubts about its effectiveness in pandemic mitigation are growing. Above

all, criticism is levelled at the app's overly strict data protection, which makes it impossible to effectively track the chains of infection. The German Ethics Council chair Alena Buyx assumes that data protection should be restricted in order to combat the pandemic (ZDF, 19.10.2020).

The severe containment approach, the comprehensive tracing system and the strong focus on the "incidence rule" were criticized by some public health experts (see also sections 6 and 7). These claimed that the overall emphasis on the "incidence rule" (counting of cases), the extensive contact tracing and mass quarantining of large parts of the population were not to be considered appropriate strategies anymore. They pointed to the fact that the disease mostly proceeds mild or even without symptoms for the largest majority of cases and that no excess mortality has been observed in Germany so far. Furthermore, the continued predominance of the containment approach instead of shifting to a more balanced protection and mitigation strategy, likewise provided by the RKI pandemic plan (e. g. giving the protection of vulnerable groups and targeted testing a higher priority), was criticized. The containment approach was also criticized for threatening the societal and economic structures of the country and the operational procedures in the local health authorities who were entirely absorbed by corona management and could not fulfil other obligations anymore, such as important prevention tasks.

- *Vaccination strategy*: When ordering vaccines, Germany, like the other EU member states, deliberately opted for a multilateral European approach. A race between the 27 member states for the scarce vaccine would have meant new explosives for the EU. If the financially strong Germany had bought the vaccine itself, conflicts, especially with less prosperous EU member states, would have been inevitable. In addition, there is the market power of the EU Commission, which was able to achieve better prices than single states because of the large quantities. Regarding vaccine approval, the decisions of the European Commission, which are based on the recommendations of the European Medicines Agency (EMA), apply for the EU and thus also for Germany. The EMA granted the first preliminary approval for the Pfizer-Biontech's vaccine on December 21, 2020. On 7 November, the federal and Länder health ministers decided on a joint German vaccination strategy. The resolution stipulates that the federal government procures and finances the vaccines and the Länder set up a total of 60 vaccination centres. The vaccination is voluntary. Risk groups were to be treated first. The distribution of the vaccine was based on recommendations of the Standing Vaccination Commission (*Ständige Impfkommission*, Stiko) at the RKI, the German Ethics Council and the National Academy of Sciences Leopoldina (see *Ständige Impfkommission et al.* 2020). The vaccinations in Germany started at 26 December 2020 with care homes residents.

### 5.3. Measures in the Health and Care Sector

At all levels of government, efforts were taken to increase hospital capacities and anticipate a crises-related overburdening of public health institutions. However, these efforts were mainly concentrated on financial compensations and material investments in facilities, beds, ICUs etc. without taking human resources and working conditions for the care and nursing personnel and particularly the poor preparedness of many care homes into account. On the one hand, the federal government passed a legislative proposal aimed at financially supporting hospitals and medical practitioners and reducing red-tape for special-care homes. The new federal law on “COVID-19 hospital relief” adopted on 25 March 2020 granted inter alia financial support to hospitals facing economic problems due to the postponement of regular operations (€2.8 billion) and for the purchase of protective equipment (financial supplement of €50 per patient). Furthermore, measures were enacted to increase the liquidity of hospitals, to compensate medical practitioners for income losses resulting from decreasing numbers of patients, and to temporarily abstain from strict quality assessments and site visits in special-care homes. Generous lump sums for each bed kept clear and additional financial support for newly created intensive care beds were meant to anticipate the expected inrush of COVID-19 patients. But, the effects of these financial aids turned out to be very unequal. While clinics focusing on corona patients hardly benefited from these grants, it was more lucrative for other clinics, for example psychiatric and psychosomatic clinics, to keep beds free.

Additionally, the *Länder* took various measures to enhance their hospital capacities in preparation of an expected increase in case numbers. Their strategies were based on an agreement of the Federal and the *Länder* chancelleries passed on 17 March 2020 stipulating an emergency plan for the German hospitals. The plan included a doubling of the 28,000 places in intensive care units (25,000 of which with ventilation) and the conversion of rehabilitation facilities, hotels and bigger halls into care centres for mild corona cases. The *Länder* were responsible to elaborate local plans with their clinics regarding the creation of provisional care capacities for expected corona patients, if necessary, with the support of the German Red Cross (*Deutsches Rotes Kreuz*, DRK) or the Technical Aid Organization (*Technisches Hilfswerk*, THW). Furthermore, local governments developed concepts together with their health authorities and corona task forces directed at converting local real estates into hospital-like structures or re-activating vacant or old clinic estates or even construct completely new corona care centre. Last but not least, the hospitals started to re-organize their internal processes in order to be prepared organizationally for the inrush of corona patients. These immediate reactions to increase hospital capacities notwithstanding, the long-term trend to close smaller hospitals has not stopped in the pandemic. Twenty hospitals with 2,144 beds and 4,000 jobs were closed in 2020, twice as many as on average in recent years. (Kusche 2020).

Two particularly critical problem areas must be emphasized at this point: ICU capacities and the role of care homes. The availability of sufficient ICUs for COVID-19 patients was a major concern from the beginning of the crisis (see figure 8-3 in section 2). Therefore, the Federal Government funded the creation of thousands of new ICUs with more than half a billion euros. An emergency ordinance was adopted in April 2020 providing for a daily notification of ICU's occupancy to allow the federal ministry of health to react quickly to impending bottlenecks. In general, the much-feared overburdening of the German health system, as measured by the nation-wide availability of ICU beds (leaving aside some regional bottlenecks), did not become apparent. However, as said before, this comparatively relaxed situation did not apply to care and nursing personnel which turned out to be a major shortage in the crisis.

Taking into account, that more than 10,000 new beds have been newly created since the beginning of the pandemic, there was a surplus in bed capacities for (expected) COVID-19 patients rather than a shortage. Against this background, the federal policy which obliged the hospitals to keep considerable parts of their capacities clear for expected corona patients became increasingly criticized by experts. Paired with the generally shrinking non-COVID surgery in hospitals during the pandemic and the compulsory postponement of plannable operations (agreed by the federal and *Länder* governments) this policy led to a situation in which hospital capacities became even (temporarily) under-utilized, at least in some clinic departments, and hospital employment sank below capacity in some medical fields. In general, the already existing economic problems of many clinics have been exacerbated by the pandemic (see Deutsche Krankenhausgesellschaft 2020).

According to their Hospital Barometer 2020, the clinics are experiencing the effects of health-related policy measures especially with regard to (postponed) operations and resulting financial income (losses). From the mid-March 2020, planned interventions and operations were temporarily postponed or suspended. More than 908,000 plannable operations were cancelled by May 2020 (Die Welt, 25.9.2020). Regarding inpatient care, the number of surgical interventions fell by 41 % on average, in outpatient care by 58 % (Deutsche Krankenhausgesellschaft 2020: 8). "On average, each clinic lost around 2.5 million euros due to the decline in inpatient interventions and 250,000 euros due to the lower number of outpatient measures" (ibid.: 14). After an interim "normalization" during the summer months, since beginning of October, German hospitals have restarted to postpone operations to keep ICUs clear for COVID-19 patients, thus similar effects can be expected. As a result, almost half of all German hospitals (47 %) expect an annual deficit in 2020. For 2021, only a quarter of all hospitals expect a positive development, while 40 percent expect their economic situation to deteriorate. Under these circumstances, hospitals are claiming government compensation for their financial losses in 2021 and beyond.



Another problematic area is care homes, where the protection of vulnerable groups, elderly people failed. About 40 % of COVID-19 related deaths in Germany (3,736 residents and 41 employees) have happened in various types of care facilities (see RKI 2020d: 5) and between 50% and 60 % in care homes for the elderly or other in outpatient care (see Rothgang et al. 2020; Beneker 2020) Because of the median death age of COVID-19 patients of 82 years in Germany (Statista 2020b), the focused protection of care homes is key to pandemic management. However, the situation in German care homes was from the beginning much worse than that of hospitals. Whereas a general containment approach for the population was in the centre of pandemic management, the focused protection of vulnerable groups, specifically elderly people with pre-existing illnesses, was less emphatically pursued by policy makers. This is all the more puzzling as the dramatic problems regarding the staff situation in care homes, the chronic underpayment, overburdening und poor qualification of the employees have been well-known since many years. Furthermore, serious hygiene problems in some homes have also been discussed publicly since decades. Care homes were conspicuously ill prepared, which dramatically popped up in the pandemic. In addition, there is the permanent overload situation of the nursing staff in the pandemic that has been going on for one year.

#### **5.4. Impacts on the Economy and Economic Stimulus Packages**

In the first half of 2020, the German economy found itself in the deepest recession in its post-war history. Following a decline of 2.0 % in the first quarter of 2020, the German GDP shrank by 9.7 % in the second quarter, which represents a historical quarterly decline never seen before. Three in four German companies were negatively affected by the COVID-19 pandemic (see KANTAR 2020a, 2020b). The economic sectors that have been hit mostly are hospitals, social services, vehicles and machinery, and food production. Companies were most frequently affected by a loss in demand and cash-flow problems. During the first shutdown approximately half of all German private companies had to shut down their operations temporarily, either partly or fully. In the third quarter of 2020, the GDP grew again by 8.5 %. Despite the second shutdown, the GDP grew by 0.3 % in the fourth quarter 2020. For the whole year 2020 the GDP declined by - 4,9 %. Germany is thus well above the decline in GDP in the euro zone (-7.5%) and significantly better than France and Italy (-9.1%) (OECD 2020).

Because of the intensive use of an extended short-term allowance, the unemployment rate rose from 5.1 % to the peak with 6.4 % in August, then falling down to 5.9 % in December 2020 (Bundesagentur für Arbeit 2020). Approximately 25 % of this increase was corona-related, mostly because unemployed people under the pandemic conditions have more difficulties to find a new job (Frankfurter Allgemeine Zeitung, 1.10.2020). Since July 2020, there has been “no corona-related increase in unemployment on the labour market” (Bundesministerium für Wirtschaft und Energie 2020b).



Several instruments, some of which already known from previous crisis periods (e. g. financial crisis 2008/09), have been applied to remedy the economic impacts of pandemic containment. The most important are:

- *Short-time allowance (Kurzarbeitergeld)* which is in Germany a ‘classical’ instrument of economic crisis mitigation played a decisive role in the pandemic in order to temporarily saving jobs and securing the existence of companies. Temporary regulations were introduced, on 1 March 2020 until the end of the year, to simplify and increase the receipt of short-time allowance, which have been extended until the end of 2021. Employees whose wages are reduced by at least half receive up to 70 % of the lost net wage from the fourth month of receipt (77 % for employees with at least one child) and from the seventh month on 80 % (87 % for employees with at least one child). The maximum duration of short-time allowance, paid by the Federal Employment Agency (*Bundesagentur für Arbeit*), is 24 months. So far, the federal government has approved a total of 25 billion euros for short-time working benefits during the pandemic. The number of short-time allowances peaked in April 2020 with 5.95 million recipients and then sank up until December 2020 around 2.2 million. This tool has proved to be quite effective because it relieves employers of the salary costs for their employees, which helps to avoid immediate dismissals and facilitates to keep employees in the companies (Pusch/Seifert 2021).
- *Economic rescue packages with multiple corona emergency funding schemes*: The economic rescue package (*Rettungspaket*) enacted by the federal government in March 2020 represents the most comprehensive state aid provided to the economy in German history so far. The package included a rescue fund of about 600 billion Euros for medium-sized and larger companies, which consisted of loan guarantees amounting to 400 billion Euros, 100 billion Euros for state holdings in companies and 100 billion Euro to finance easier access for bridging loans from the state-owned German reconstruction bank (*Kreditanstalt für Wiederaufbau*, KfW). Furthermore, aids for small businesses and solo entrepreneurs worth around €50 billion were enacted. The measures embraced a total value of around 750 billion Euros (Bundesministerium für Wirtschaft und Energie 2021). In addition, VAT was reduced from 1 July to 31 December 2020. The regular tax rate drops from 19 % to 16 %, the reduced tax rate from 7 % to 5 %.

With the second lockdown since end of October 2020, companies, businesses, self-employed persons, associations and institutions affected were supported by a specific “Package of measures to combat the impact of coronavirus on companies” (Bundesministerium für Wirtschaft und Energie 2021). Some examples of its instruments. A special economic assistance for November and December is granted in the form of a one-off grant covering the period of closure in this time. A specific Coronavirus Bridging Assistance III for small and medium-sized companies runs from November 2020 to the end of June 2021. The suspension of the obligation to file for

insolvency will be extended until 30 April 2021 for debtors who have filed applications for financial assistance under government assistance programs between 1 November 2020 and 28 February 2021 in order to mitigate the fallout/consequences of the COVID-19 pandemic. This support program was largely welcomed by the business community, but there is increasing criticism of the bureaucratic application process and the slow payment of the funds. This additional state corona aid for companies since October 2020 will cost at least ten billion euros.

The corona crisis has cost the German state according to the Federal Minister of Finance more than 1.4 trillion Euros so far. The size of the aid packages corresponds to 42 % of 2019 German GDP. This tremendous sum is made up of many expenditure points. In addition to the guarantees, which make up the largest part, this includes short-time working benefits, immediate and bridging aid for companies that had to close in lockdowns, but also the increased costs in the health system and international aid, such as the 750 billion Euro Corona aid fund the EU (FOCUS 2021c).

- *Social protection:* On March 23, 2020, the federal Ministries of Labor and Social Affairs and Health put forward the first package of social protection measures directed at absorbing situations of social hardship and existence threatening circumstances caused by the pandemic. The major aim of the social protection package was declared as follows “no one shall face a threat of existence due to the economic impacts of the crisis“ (Bundesministerium für Arbeit und Soziales 2021). For one, the access to basic security benefits for job seekers (so called Hartz IV) was simplified, in order to offer quick support to the employees which lost their jobs during the crises, many of whom coming from small businesses, freelancers or so called “solo-entrepreneurs”. These groups belong to the most seriously hit economic actors because in many cases the shutdown entailed a complete cancellation of all orders and a breakdown of all business activities. In addition, owners and employees of small businesses and solo-entrepreneurs usually have no access to unemployment benefits or other social security measures and do not have noteworthy financial reserves at their disposal to bridge income losses over longer periods of time. Furthermore, a moratorium for rents was enacted in aid of those tenants who were not in the position anymore to pay their rents as a result of income losses caused by crisis-related shutdowns and lockdowns. The moratorium was to be valid from 1 April until 30 September, 2020 and provided the deferred amount of rent to be paid back by the tenants later on. Finally, for parents of small children who face income losses because of the shutdowns of school and kinder gardens an entitlement for compensation was introduced. On May 28, the law on Law on social measures to combat the corona pandemic (Social Protection Package II) came into force. This package includes a number of individual measures, including, for example, improved conditions for drawing short-time work benefits, and extending the period of entitlement to unemployment benefits.

- *Paradigm shift in financial policy and new debts:* The pandemic has profound financial consequences for Germany (see Bundesministerium der Finanzen 2020a, 2020b, Gebhardt & Siemers 2020). To finance the economic crisis mitigation programmes, the federal government decided to run up new debts of app. 140 billion Euro which represents the biggest new indebtedness ever seen in this country. With the economic rescue package, the federal budget in 2020 will exceed the permitted credit limit of app. 83 billion euros. This clashes with the constitutionally enshrined debt brake and represents a fundamental paradigm shift in German financial policy. For the first time, the constitutional option was used of temporarily suspending the debt brake. This is possible in the event of natural disasters or exceptional emergency situations which are beyond the control of the state and have a significant negative impact on the state's financial position. To make the suspension of the debt brake legally possible, the Bundestag decided, in an urgent procedure on March 25, 2020, that the exceptional emergency situation according Article 115 Basic Law applied and that on this basis the constitutional debt brake was to be lifted for the 2020 budget year.

With the first and second supplementary budgets for 2020, the federal government was countering the effects of the pandemic, both in terms of health and economic challenges. The additional expenditure volume decided in the supplementary budgets amounts to around € 146.5 billion, including around € 28.9 billion for additional investments. To finance this, the BMF was authorized to take out loans amounting to around € 217.8 billion (Bundesministerium der Finanzen 2020a). With the federal budget 2021 with expenditures amounting to 498.62 billion euros, the federal government wants to create the financial prerequisites to powerfully overcome the effects of the corona crisis so that the acute pandemic is over. However, in this exceptional emergency situation, the upper limit for new borrowing permitted under the debt rule will be exceeded by around 164.2 billion euros. The federal government is thus continuing its two-pillar strategy in the pandemic: The first pillar is intended to stabilize the economy with emergency aid, liquidity aid, bridging measures and short-time work benefits. The second pillar is to combine overcoming the pandemic with modernizing the economy in the 2020s.

## 6. Policy-Advice, Knowledge Generation, and Scientific Controversy

### 6.1. Role and Organization of Policy Advice in the Pandemic

Given the severity and magnitude of mitigation measures in the pandemic and the fact that a firm support and broad acceptance by the population were key to implement them (see section 6), a major concern of politicians was to create legitimacy, ensure public trust in their strategies and to avoid contestation regarding their actions. Against this background government decisions were justified and legitimized first and foremost by referring to the recommendations of experts. Politicians at all governmental levels emphasized their decisions to be firmly based on the professional advice of scientists, even though – as usual in science – knowledge is uncertain, controversial, contested and initial assessments changed over time (see Van Dooren and Noordegraaf 2020). Science and experts' opinions were thus crucial sources of policy justification and legitimization. Typical headlines of newspapers even suggested that politics was in the backseat whereas the experts were assumed to govern the crisis.<sup>15</sup>

However, having a closer look, there can be some doubts as to whether this interpretation holds true. Especially from a comparative perspective (see Kuhlmann et al. 2021a, 2021b, 2021c) it becomes apparent that, in Germany, the political rationality was very crucial in the pandemic and executive politics was not – as in Sweden for instance – in the backseat but in the driver seat of decision-making. Although experts' recommendations were a key source for generating legitimacy and trust, political preferences and interests played a major role in pandemic management, too, and executive actor's power-seeking strategies provide important explanations for their crises' decisions. In addition, internal policy advisors (particularly the RKI as a directly subordinated authority of the Federal Ministry of Health) assumed an institutionally less independent position than national health authorities in some other countries, e. g. in Sweden (see Kuhlmann et al. 2021c; Franzke/Kuhlmann 2021a). Direct interventions by executive leaders (Minister of Health) into the internal advisors' work were potentially possible. However, so far, empirical evidence is lacking about whether and to what extent such interventions actually happened.

Regarding health-related policy advice, a distinction must be made between internal or institutionalized (governmental) advisers on the one hand (see Gerlinger 2019: 15) and external (non-governmental) advisers on the other. The former was provided by the federal authority for disease monitoring and prevention (RKI) which is a higher federal authority (*Bundesoberbehörde*) and directly subordinated to the Federal Ministry of Health. Due to its hierarchical integration in the federal ministerial

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<sup>15</sup> Examples are: "The virologists govern" (Der Spiegel 2020) or "The power of virologists" (Handelsblatt 2020).

administration, the RKI enjoys less autonomy and discretion than, for instance, the Swedish National Public Health Agency (see Kuhlmann et al. 2021c) and is legally bound to the ministry's directives. The advisory function of the RKI basically referred to three major fields: (1) Pre-crisis risk prognosis, including the elaboration of a national pandemic plan; (2) Monitoring and publication of infection cases (positively tested by a PCR test), number of hospitalized cases, recoveries, and deaths; (3) Epidemic risk assessment based on which measures of containment, protection, mitigation, and recovery were recommended to politics and communicated to the public.

During the corona crisis, the RKI has become the most important player in institutionalized policy expertise not only on the part of the federal government but also regarding containment strategies developed by the *Länder* and local governments. Although it could not impose decisions, its recommendations were followed thoroughly by the *Länder* and local governments, who transformed them into legally binding rules for their territories. Thus, internal policy advice in the pandemic was clearly dominated, in Germany, by the RKI as a federal authority and thus framed and practiced in a rather centralized manner.

In addition, some of the *Länder* also mobilized own policy advice for pandemic management in their jurisdictions, such as the interdisciplinary corona experts' council set up by the government of North Rhine-Westphalia on 1 April 2020, consisting of twelve experts from medicine, law, economics, philosophy, psychology, sociology and social work. The council is meant to develop a more holistic approach towards pandemic management, also taking economic and social consequences of Covid-19 crisis management into account, in addition to the usual short-term health-related and epidemiological aspects. Based on systematic and transparent criteria, the council aims to develop strategies for returning to social and public life<sup>16</sup>. Another example of sub-national pandemic policy advice is the Land of Thuringia, where on 26 May 2020, a scientific advisory board on corona management was formed composed of 12 members from different disciplines. Similar to NRW, this board is expected to approach the complexity of pandemic management from an interdisciplinary perspective and draw up a work program to address the broader consequences of pandemic management.<sup>17</sup> These efforts by some *Länder* governments notwithstanding, the executive orders enacted by the *Länder* (e.g. regarding the "incidence rule", the extension of lockdowns etc.) did not fundamentally diverge from the central-level provisions proclaimed by the RKI and agreed in the intergovernmental meetings.

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16 The expert advisory board submitted three statements by end of 2020 (see Staatskanzlei des Landes Nordrhein-Westfalen 2021, Viewed on March 10, 2021)

17 Until End of 2020, the board had submitted several statements, e.g., on pandemic management in schools and day-care centers and on risk communication (see Wissenschaftlicher Beirat Corona Landesregierung Thüringen 2020).

The RKI's internal policy advice was combined with external expertise, which the Federal Government on the one hand obtained from the well-known Charité virologist<sup>18</sup>, Christian Drosten, who has served as a direct advisor to the federal government from the beginning of the pandemic<sup>19</sup>. He reached considerable prominence during the COVID-19 pandemic as the “Corona educator of the nation” (*Süddeutsche Zeitung*, 13.3.2020). On the other hand, the Federal Government based its containment policy on public statements by the National Academy of Science *Leopoldina*<sup>20</sup>, which consists of renowned academics predominantly coming from natural sciences and medicine, but also including expertise in economics, history, and other fields. When the Leopoldina, in its seventh ad hoc statement of December 2020 (Leopoldina 2021b), recommended a hard lockdown to the Federal Government based on a four pages document and with this legitimized draconian measures and societal incisions from December onwards, the quality of the Academy's advisory role came however to be contested by some critics<sup>21</sup>.

Unlike other policy discourses in the German federal system (see Kuhlmann and Wollmann 2019: 139 et seq.), the scientific discourse about COVID-19 mitigation measures did not unfold in a vertically decentralized and fragmented manner which, in Germany, usually gears to slow and incremental change. Instead, the discourse was clearly dominated by few central-level internal and external advisors all of whom more or less favouring a quite incisive containment approach. According to their advice, from November 2020 onwards, ever stricter measures for the whole population were inevitable to slow down the spread of the virus, “flatten the curve”, (re)enable contact tracing by local health authorities and thereby avoid a crash down of the health system. Milder measures (e. g. recommendations and voluntariness instead of restrictions and sanctions) and alternative solutions (e. g. a focused protection of vulnerable groups instead of general lockdowns) to avoiding negative long-term societal impacts were not supported by the experts who had been selected to advise the Federal Government.

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18 The Berlin Charité is an association of university clinics with 290 professors and more than 8,000 students organized in the legal form of a public corporation owned by the Land Berlin.

19 Drosten is a German virologist heading the Institute of Virology at the Berlin university hospital Charité. He became known internationally when he was the first to decode the genome of the SARS virus from the group of corona viruses, which in early 2003 triggered several epidemics of atypical pneumonia, especially in Asia. He also became nationally famous during the Swine Flu pandemic of 2009. As an external advisor, Drosten is formally not affiliated to the federal government.

20 The Leopoldina was founded as a natural sciences academy in 1652 and appointed as the National Academy of Science by the federal and Länder governments in 2008. It officially represents German science in international bodies and provides advice to politics and society on various subjects, from climate change, energy provision, and digitalization to demographic challenges, natural resources, and health. During the pandemic, the Leopoldina published seven ad hoc statements (until January 2021).

21 The former member of the Academy of Science Mainz (Thomas Aigner), for instance, publicly resigned from his Academy position because of severe discontent with the Leopoldina's role and scientific statements he claimed to be seriously biased and qualitatively poor. He accused the Leopoldina's statement as being “unworthy of an honest and critically reflecting science in dedication of human well-being” (see *Schwäbisches Tagblatt* 2021).

## 6.2. Reporting and Transmission of Information

Germany disposes of a comprehensive system of health surveillance and reporting. Since many years, the RKI collects and publishes data on contagious infection diseases, including seasonal influenza, and surveils in particular the development of serious acute respiratory infections (SARI), including the seasonal influenza and most recently COVID-19. In particular, the RKI based “Working group on influenza” (Arbeitsgemeinschaft Influenza, AGI), founded in 1992, collects data on SARI using a so called “sentinel system” in which 689 doctors’ practices voluntarily report their clinical information about SARI to the AGI. It also collaborates with the health surveillance systems at the level of the *Länder* who collect data regionally and share it (voluntarily) with the AGI. The German National Reference Centre for Influenza Viruses (Nationales Referenzzentrum für Influenzaviren, NRZ) supports the examination of the SARI viruses by the AGI. Finally, there is the “Grippe-web” (“influenza web”), a data basis for SARI with about 8,000 participants which surveils the spread of SARI in the population, which was assessed as one of the best in Europe.

The obligation to report COVID-19 as an infectious disease was stipulated in the IfSG already end of January 2020. It includes not only all confirmed COVID-19 cases with a positive PCR test (irrespective of symptoms) but also suspected cases of COVID-19. Physicians, laboratories, care and nursing personnel as well as heads of various public institutions (schools, universities, kindergartens, hostels, lodging houses, mass dormitories) are obliged to report confirmed and suspected cases within 24 hours to their local health authorities. In the next step, they report their data (without personal information of patients) several times per day to the *Länder* health authorities which in turn is responsible to transmit the data to the RKI electronically. However, in some *Länder* (e. g. Brandenburg), the local health authorities are allowed to directly report their data to the RKI and in addition to the respective *Länder* health authority, thus a kind of double reporting. This led to some confusion because incidence data differed between the RKI and the *Länder* authority with the consequence that data about the correct number of corona hotspots and thus the containment measures (e. g. in hotspots) to be applied differed considerably. Furthermore, the RKI reporting procedures were criticized by some local health authorities as being rather complex, time consuming and bureaucratic which also contributed to some reluctance in completing the files and thus diverging data sets on incidences at *Länder* and federal levels.

Finally, a major issue of criticism concerned the missing digitalization in health administration which turned out to be a crucial bottleneck in the reporting of cases across jurisdictions and levels. Thus, particularly direct reporting from the local health authorities to the RKI was oftentimes proceeded by fax or telephone. Data transmission was impaired by many media discontinuities and not machine-readable, which led to delays and faults in data transfer (see Normenkontrollrat 2020: 12). Despite



several projects and initiatives aimed at modernizing and digitalizing public health related data sharing, a comprehensive nationwide digital reporting system has not been established yet, which led to a number of reporting failures from December onwards, when the reported data was officially declared to be unreliable (see RKI 2020e) yet continued to be the basis for (tightened) containment decisions. It can be assumed that these failures and inconsistencies have also negatively impacted on the population's trust regarding pandemic management.

On November 16, 2020, the federal and state governments had stipulated that the local health authorities should network with the SORMAS digital system in order to be able to more easily understand the contacts of corona infected people and to prevent hotspots from developing. The goal of connecting 90 % of the health authorities to this system by the end of 2020 has not been achieved. Many local health authorities refuse to change their self-developed digital reporting system in the middle of the pandemic and because of technical interface problems (Frankfurter Allgemeine Zeitung 2021).

The RKI publishes a huge amount of information and data on the pandemic over time, the regional spread of the disease, the development of cases and the capacity situation in hospitals. This information is based on locally collected data (see above) and published online in The RKI status reports (see RKI 2020f) provide a detailed picture on the pandemic situation in the country on a daily basis since March 2020. In addition, a new data resource was created in April 2020 with the DIVI-Registry for Intensive Care (see section 2). This registry captures the capacity situation regarding ICUs in about 1,300 German hospitals for acute surgery in real time and thus helps to identify regional shortfalls. It enables governments and hospital staff to react quickly to changing circumstances in order to avoid supply bottlenecks for patients and to early detect local overloads of hospitals. Besides the data generated at national scale (RKI, DIVI), the Länder produce their own information bases and status reports on the pandemic situation in their territories, which sometimes however differed from the RKI data due to reporting problems and deficiencies in data sharing.

The information provided by the RKI and other institutions notwithstanding, there was also criticism regarding the lack of representative studies on the nature of the COVID-19 pandemic (based on age groups, morbidity indicators, regions etc.). It was claimed that representative cohort studies would be necessary to understand the dangerousness of the virus for various groups in the society and thus to decide containment measures in a more differentiated manner and on an evidence base. However, these kinds of studies have not been conducted yet in Germany at time of writing which was criticized as a serious default of the government (see inter alia the interview with Hendrik Streeck (Streeck 2021)).



### 6.3. Scientific Controversies and Contestation

Over the course of the crisis, the scientific positions of how to deal with the pandemic have become more differentiated, but also controversial, partly polarized. In general, an increasing number of experts expressed their discontent with the governments' approach publicly<sup>22</sup>, while in the first phase of the pandemic these voices had been rather weak. Towards the second half of the year, there was more openness and controversy in the public debate regarding the appropriate assessment and handling of the crisis in the long run. It became visible that amongst specialists the opinions about the dangerousness of the virus and the effectiveness of measures were controversial and had also changed over time.

Leaving apart the extreme position of some experts who claimed a “non-COVID” or “zero-COVID” strategy (Expertengruppe No-Covid-Strategie 2021)<sup>23</sup> by way of tightening containment and reinforcing the stringency of lockdowns, the scientific opinions oscillated around various degrees of strictness or permeability of mitigation measures, with some experts more in line with the governmental approach in supporting a (modified) extension of containment and others claiming a profound change in strategy by inter alia demanding a more focused protection of vulnerable groups and criticizing the political neglect of (mid- and long term) societal and health effects of governmental response measures (see inter alia Schrappe et al. 2020b)<sup>24</sup>. In a joint experts' statement published by the Association of Statutory Health Insurance Physicians and renowned virologists with the support of about 30 professional associations, major criticism was raised regarding the general pandemic approach. The experts questioned the appropriateness and effectiveness of comprehensive contact tracing as well as the predominance of authoritative prohibitions, unspecific mass quarantining, and lacking evaluative knowledge about pandemic mitigation measures (see Kassenärztliche Bundesvereinigung 2020). Furthermore, the group of specialists appealed to the government to shift its pandemic approach from a rather unspecified mass containment to a more targeted protection of high-risk populations<sup>25</sup>, also preferring recommendations and encouragement of the population instead of bans, prohibitions and fear and putting more emphasis on evidence and evaluations. They also suggested to not only base

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22 For instance, the biochemist and director of the institute for medical microbiology of the university clinic Halle, Alexander Kekulé, the director of the institute for virology in Bonn, Hendrik Streeck, and the virologist of the Bernhard-Nocht Institute for tropical medicine at Hamburg University, Jonas Schmidt-Canasit.

23 The respective statement was published by a group of scientists, including inter alia the director of the university clinic in Cologne, Prof. Dr. Michael Hallek.

24 This applies inter alia to the virologist, Hendrik Streeck (university clinic Bonn), who criticised the drastic containment measures as overly rushed by politicians and claimed a broader evidence and evaluative knowledge regarding the various measures (see Streeck 2021).

25 Although the protection of vulnerable groups (care homes) without totally isolating people had been jointly decided by the federal and Länder governments on 15 April, this strategy played a less dominant role in the public debate as compared to the general containment approach.

political decisions on sheer case numbers and incidences (“incidence rule”), but to include additional key indicators when enacting measures, particularly the number of tests, hospital capacities, number of hospitalizations and intensive care treatments. Many other experts<sup>26</sup> shared this critique also pointing to the collateral damages, e.g. the fact that the containment measures would threaten the societal and economic structures of the country and cause additional health damages in the long run and increase some population group’s death risks, due to lost livelihoods, socio-economic downturn, the neglect of health authorities’ important prevention tasks, and postponed medical treatments and (elective) operations, the number of which accumulated to 851,000 in May 2020, including around 52,000 cancer operations (WELT 2020a; Berliner Zeitung, 17.4.2020).

On the other hand, increasing concerns were raised over the lacking interdisciplinary approach, the missing multi-dimensional (“risk-risk trade-off”) impact assessments and the fact that the containment policy appeared to be predominantly based on medical specialists’, particularly virologists’, recommendations, largely ignoring other aspects and second round effects of crisis mitigation. Experts from outside the narrow circle of governmental policy advice claimed that the protection of interests other than short term prevention of corona deaths must also be taken into account by policy-makers in order to ensure the proportionality of measures. They claimed an imperative of multi-dimensional/-disciplinary risk assessment and a plurality of disciplines in pandemic policy advice instead of a mono-thematic containment strategy<sup>27</sup>. Furthermore, they raised concerns about the overly narrowed discourse pointing to the necessity of a more balanced, rational, and enlightened deliberation and a more democratic competition of opinions when it comes to determine proportional measures (see Schrappe et al. 2020a: 7). Some also warned of a further politicization of the pandemic and the instrumentalization of science for political aims<sup>28</sup>; see also further above on the critique raised towards the *Leopoldina*).

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26 An interdisciplinary expert’s group, based in the universities of Berlin, Bremen and Cologne, composed by renowned German scientists, inter alia the former vice-president of the Experts’ Council for Health (Prof. Dr. Schrappe, University of Cologne), lawyers specialized in public health (e.g. Prof. Dr. Hart, University of Bremen), public health experts (e.g. Prof. Dr. Glaeske, University of Bremen), a specialist in forensic medicine (Prof. Dr. Püschel, University Clinic Bremen) and a political scientist (Prof. Dr. Manow, University of Bremen) is worth mentioning here. Until January 2021, this group published seven ad hoc statements (see Schrappe 2021) in which the experts challenged the governmental approach and outlining possible alternatives of pandemic management. In addition, various practitioners, e.g., the heads of the local health authorities in Frankfurt, in Aichach-Friedberg, and the head of the Charité institute for forensic medicine (see Berliner Zeitung 2020; BR24 2020; Landesärztekammer Hessen 2020) publicly questioned the appropriateness of the measures in managing the crisis.

27 One example is the third statement of the Leopoldina National Academy of Science, (see Leopoldina 2020a: 11 et seq.) which was also consulted by the German Federal government. Another example is the Berlin/Bremen/Cologne experts’ group, mentioned above, which was however not formally consulted by the government.

28 “The politicization and medialization of scientists is as problematic as substituting politics by virology – politics engrosses science for its decisions and scientists slip into the role of political decision-makers” (Schrappe et al. 2020a: 66)

As a consequence, in the public debate and in politics, the awareness of an overly narrowed discourse being detrimental for a multi-dimensional risk assessment and proportionate decision-making in the crisis increased. Besides virologists, epidemiologists and modellers representatives from other disciplines (economists, psychologists, pedagogues, social scientists etc.) publicly took the floor to address the non-virus-related long-term impacts of crisis management, particularly pointing to the societally and economically devastating effects of repeated lockdowns, but also of the insufficient focused protection of vulnerable groups. This partial shift in the public debate notwithstanding, the government apparently relied on the expertise of virologists, epidemiologists, but also physics, the latter particularly consulted for modelling and forecasting epidemic scenarios (see Streeck 2021). Key decisions were largely lacking a broader interdisciplinary discussion and controversy. Against this background, the Federal Government was also criticised of being “resistant against advice”<sup>29</sup> and of showing a kind of “bunker mentality”<sup>30</sup>. Alternative proposals, such as the establishment of an “independent scientific pandemic council” at the Federal Chancellery, which the Bundestag faction of Bündnis 90/Die Grünen (Deutscher Bundestag 2020d) had proposed in July 2020, have not yet been implemented. This also applies to the proposals to locate such a pandemic council at the RKI<sup>31</sup> or to strengthen the unsatisfactory interdisciplinary expertise of the RKI (see Deutsche Krankenhausgesellschaft 2020).

## **7. Institutional Trust, Acceptance of and Opposition to Containment Measures**

### **7.1. Institutional Trust and Citizens’ Satisfaction with Public Administration in the Pandemic**

Trust in government and in public authorities oscillated over the year with an initial peak followed by a decline from April to December. After a substantial increase at the beginning of the pandemic (see table below; Frankfurter Allgemeine Zeitung 2020a), trust levels progressively shrank towards the end of the year. Thus, the share of respondents with (rather) low trust in the Federal Government climbed from 25 % (in April) to 39 % (in December), while still a relative majority (44 %) had high

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29 Stated by the former vice-president of the Experts’ Council for Health, Matthias Schrappe, (see Welt, 19.11.2020).

30 Claimed by the president of the association of company health insurance funds and former head of department in the Ministry of Health, Franz Knieps (see Epoch Times 2021).

31 Stellungnahme der Bundesärztekammer zum Antrag der Fraktion BÜNDNIS 90/DIE GRÜNEN “Pandemierat jetzt gründen. Mit breiterer wissenschaftlicher Perspektive besser durch die Corona-Krise” (Deutscher Bundestag 2020d) anlässlich der öffentlichen Anhörung im Ausschuss für Gesundheit des Bundestages am 9.9.2020.

trust in the Federal Government by December (Cosmo 2021<sup>32</sup>). It is also striking that the trust in local public health authorities declined quite significantly since November, which also applies to the Federal Ministry of Health and to the Länder ministries of Health. While trust levels for the RKI were in general comparatively high over the course of the pandemic, it also registered a clear decline in trust until the end of the year, most significantly from April to June, and from November onwards. One reason for this could be that many citizens consider government's response to the increase in the number of infections since October 2020 to be too late and insufficient.

### Figure 8-9. Trust in Political Institutions (May 2020)

**Very high or high Trust regarding the following institutions (in brackets change since January 2020):**

Federal President 76 % (+3)	Chancellor 72 % (+22)
Federal Government 60 % (+26)	Mayors 58 % (+10)
Länder Governments 58 % (+11)	Municipal Councils 57 % (+9)
City Administrations 56 % (+9)	Bundestag 54 % (+13)
European Union 37 % (-3)	Political Parties 25 % (+9)

Source: forsa 2020 according to Frankfurter Allgemeine Zeitung, 16.5.2020. In brackets difference to forsa-survey as of January 2020.

A relative majority of citizens assessed German public administrations' responses to the COVID-19 pandemic as "very good" or "rather good" with the Länder authorities receiving highest support (45 % "good" or "rather good"), followed by the federal authorities (43 %), the local health authorities (40 %), and the municipal/county administrations in general (36 % (see Eckhard/Lenz 2020)<sup>33</sup>). By contrast, the European Commission was perceived rather critically with only 25 % positive ratings in March/April 2020. According to a more recent representative survey (Wagschal et al. 2020), by the end of the year (November 2020), German citizens were still very satisfied with the Federal Government in managing the pandemic, even more than with other levels of government, which could indicate an increasingly critical stance towards the performance of subnational administrations. The share of respondents who stated to be "very" or "rather satisfied" with the Federal Government's pandemic management amounted to about 56 % while other levels received lower satisfaction values (45 % for the Länder governments; 47 % for the mayors). Yet, these finding also imply that, by the end of the year, significant parts of the population were only partly or not satisfied with the with the governments' performance in handling the pandemic; thus, roughly one third indicated to be "very" or "rather

32 The survey was part of the bigger COSMO project within which since March 2020 about 1,000 citizens are contacted in weekly or bi-weekly cycles (see Cosmo 2021)

33 Data basis: representative survey from March/April 2020; N=2.336.

unsatisfied” (30 % with the Federal Government, 28% with the *Länder* governments, 28 % with the mayors).

In the March/April survey (see Eckhard/Lenz 2020) it was also asked whether citizens believe that the German federal system helps to cope with the COVID-19 pandemic. Interestingly more than 40 % negated this statement whereas only about 24 % supported it (24 % “partially agree/disagree”; 11 % answered “don’t know”). Citizen’s assessments regarding the functioning of public administration during the pandemic were rather critical as well. According to a survey conducted in July 2020 (see Next: Public 2020) about 41 % of the citizens evaluated the general functioning of public administration during the (first wave of) the pandemic as poor (“administration was functioning rather poorly” or “not functioning at all”) while 44 % perceived it as “well-functioning”.

## 7.2. Acceptance of Containment Measures

The acceptance of containment measures is an important indicator and precondition for implementation success and compliance with these rules. Regarding various types of measures, a longitudinal study of the University of Mannheim revealed in a representative survey that the degree of acceptance to these measures declined over time since the beginning of the pandemic until July (Blom et al. 2020: 7). Whereas the acceptance rate regarding the prohibition of mass events, the closure of public facilities and the closure of borders was at almost 100 % in March the support shrank to between 30 % (borders) and 20 % (public facilities) by July. Only the prohibition of mass events was still accepted by a clear majority of the German population (64 %). Other containment measures, too, which from the beginning did not receive extremely high acceptance rates, were increasingly rejected by the population. Thus, the acceptance of a general lockdown decreased from more than 50 % to around 10 %.

At the same time, the proportion of people who did not accept any of these measures increased from almost zero in March to roughly one quarter in July. In November 2020, only a few containment measures continued to receive support by a majority of the population (e. g. general mask obligation: 66 % in favour; closing off COVID-19 hot spots: 60 %; prohibition of religious festivities/services: 60 %) (see Wagschal et al. 2020)<sup>34</sup>. Most of the other measures were only supported by a minority of citizens. For all measures a clear decreasing trend in acceptance rates was noticeable from May to November<sup>35</sup>.

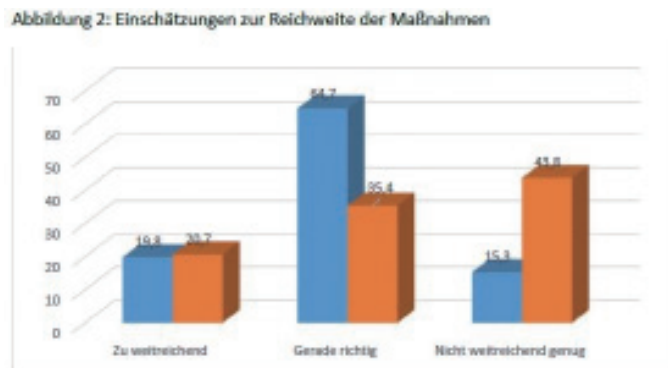
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34 The survey was conducted in two waves: May (N=7651-7693) and November 2020 (N=6563-6641); see Wagschal et al. 2020: 16.

35 This includes e. g. closing borders with decline from 65 % to 47 %; contact bans declining from 60 % to 46 %; closing shops declining from 55 % to 30 % and closing schools and kindergardens declining from 62% to 27%). With the only exception of tracing apps (“use of citizens’ mobile phone data to trace infections) which remained more or less stable (from 40.4% to 40.9 %).

Asked about the general appropriateness of containment measures, however, one third of the respondents considered them as exaggerated, whereas still a clear majority (54%) regarded them as appropriate (see Wagschal et al. 2020: 10). Nevertheless, at the beginning of January 2021, only one third trusted in the effectiveness of the containment measures, while more than half of the population believed that the measures would finally not succeed in reducing case numbers (see forsa survey of RTL. 7.1.2021). Furthermore, with the case numbers rising from October onwards the share of the population in favour of more restrictive containment measures regarding the pandemic rose substantially (see Kirsch et al. 2020)<sup>36</sup>. In November/December, almost half of respondents (44 %) believed the measures were far from enough, which marks a clear increase compared to June/July when only 15 % supported more stringent measures. At the same time, the proportion of those who regard the scope of the measures as appropriate dropped from 65 % to 35 %. Those who thought the scope being excessive have remained fairly unchanged over time at about 20 %. In general, the perceived severity of the pandemic situation appears to affect people’s acceptance of containment stringency (see also Cosmo 2021).

**Figure 8-10. Assessment of the Scope of the Measures**



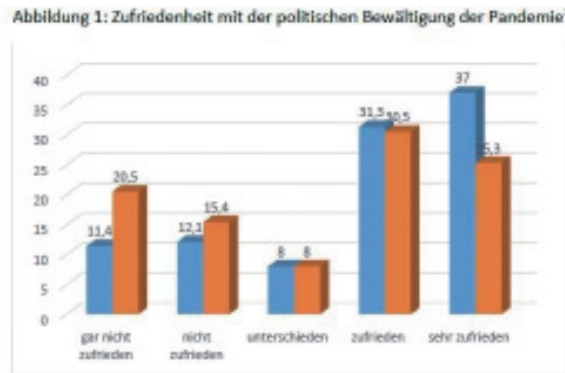
Source: Kirsch et al. 2020. Blue bars stand for the results from the first survey, orange bars the second.

Regarding the extension of Federal Government’s powers, there was on the one hand a clear decline in public support from March, when almost 80% were in favour of such an upgrade, to April when this support had almost halved and shrunk to roughly 40% (see Juhl et al. 2020: 6). On the other hand, from May to November people’s support of the government to enact laws without involving the parliament increased from 13% to 20% (Wagschal et al. 2020: 16). In general, the public satisfaction

<sup>36</sup> This trend was identified by a study of the University of Heidelberg, in which the public support of pandemic containment was measured in June/July (N=1,351) and November/December (N= 1,099). Participants were surveyed from an online access panel. See Kirch et al. 2020.

with pandemic management has decreased substantially over time (see Kirsch et al. 2020). Thus, in November/December only around 55% respondents were still satisfied with government efforts to fight the pandemic, 13% less than in summer, while dissatisfaction has risen substantially.

**Figure 8-11. Satisfaction with the Political Management of the Pandemic**



Source: Kirsch et al. 2020. Blue bars stand for the results from the first survey, orange bars the second.

### 7.3. Opposition to Containment

Whereas at the beginning of the crisis, there was no noticeable opposition to the measures taken and protests were very rare, over the course of the pandemic, an increasing number of platforms and social movements flourished directed at criticizing governments' response measures. The support of the party groups in parliament regarding the general containment approach of the government continued to be very high, with the only few exceptions. Against this background, more fundamental opposition to the governments' containment policies mainly formed outside government and parliament. The most prominent movement of extra-parliamentary "corona-opposition" in Germany are the so-called *Querdenker* ("lateral thinkers") which is an ideologically and socially rather heterogeneous movement of protest against the containment measures and for the re-establishment of suspended constitutional rights<sup>37</sup>. From the Easter weekend onwards, the *Querdenker* (and their predecessor organizations<sup>38</sup>) organized demonstrations against the containment measures in various German cities (Stuttgart, Leipzig,

37 According to a (non-representative) study of the University of Basel, 21 % of the "Querdenker" had voted for the Green party, 15 % for the Left party and 14 % for the (right wing) AfD in the last general elections (see WELT 2020b). Another study which analyzed the socio-economic and political composition of protests against the corona regulations in the City of Constance (N=138) found out that 55 % of the surveyed did not lean towards any political party, 14 % towards the Greens, 7 % CDU, 6 % the Left, 3 % FDP, 2 % SPD, 2 % AfD (Koos 2021: 8).

38 One of these predecessor organizations was "Widerstand 2020" which was dissolved by summer (see Deutschlandfunk Nova 2020).

Dresden, Munich) with a peak of about 38,000 participants, end of August in Berlin and 45,000 in November in Leipzig (see Wikipedia 2021b). After some bans at the end of 2020, their demonstrations in the meantime came to a halt. However, it seems likely that new protests will restart in 2021, so the future of this kind of new social movement, including its possible radicalization<sup>39</sup>, is still open.

Critical voices towards the governments' pandemic containment approach also came from some scientists<sup>40</sup>, health experts<sup>41</sup>, local government practitioners<sup>42</sup> (see also section 7), and politicians<sup>43</sup>. Their critique ranged from questioning the effectiveness of the governmental stop-and-go approach, the appropriateness of the "incidence rule" as key indicator for decisions (see section 5), the comprehensive contact tracing and the neglect of the vulnerable groups in pandemic mitigation to the lack of a clear policy strategy and reliable representative data to base mitigation measures on. Furthermore, the government's communication strategy was criticized as being too much focused on "incidences" (instead of health capacities and serious illness cases) and provoking people's fear. Some experts also claimed that scientific policy advice was biased or qualitatively poor<sup>44</sup>.

Resistance also came from the economy, predominantly from the associations of the gastronomy and hotel business and representatives of small and medium sized enterprises, some of whom (e.g., the former president of the professional association of medium-sized businesses, BVMV) announced to bring the occupational bans imposed on enterprises to the courts. Many entrepreneurs sued against the closure of their businesses to achieve their annulment, which was partially successful when in October the so-called "lodging prohibition" (for hotel guests coming from regions with high incidences) had to be repealed due to a lacking evidence-base of the respective executive orders. However, thousands of other lawsuits put forward from November onwards against the shutdown of businesses or against the suspension of the constitutional rights for free assembly and free movement were rejected (see Thorwarth 2021).

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39 The Constance-survey mentioned above revealed however that 75% of the surveyed participants rejected a further radicalization of corona-related protests (Koos 2021: 11).

40 Among them the chief virologist of the university clinic of Bonn Hendrik Streeck; see Frankfurter Rundschau 2020.

41 Among them the former vice-president of the experts' council on health, Matthias Schrappe; see Welt 2020c.

42 As example the local health authority head of Aichach-Friedberg, Friedrich Pürmer (see Süddeutsche Zeitung, 4.11.2020), and his colleague in the City of Frankfurt René Gottschalk (see Frankfurter Allgemeine Zeitung 2020b).

43 As example the Mayor of the City of Tübingen, Boris Palmer (see Frankfurter Rundschau 2021).

44 Against this background, the former member of the Academy of Science Mainz (Thomas Aigner), for instance, publicly resigned from his Academy position decrying its uncritical stance towards the National Academy of Science Leopoldina accused to be "unworthy of an honest and critically reflecting science in dedication of human well-being" (see section 6). A similar critique was raised by the Leopoldina member, Michael Esfeld (University of Lausanne), who, in a protest letter, accused the Leopoldina of accepting an "instrumentalization" by the Federal Government and thus causing damage the overall reputation of science (see MDR 2021). In its 7<sup>th</sup> statement, the Leopoldina had recommended a second (hard) lockdown and with this legitimized the government's decision (see Leopoldina 2020b)



Last but not least, the growing importance of social media channels must be mentioned as a platform of protests. Some scientists also criticized the official media to have partly failed in presenting pandemic related information soberly, un-emotionally, fact-based and in a well-balanced manner (see Schrappe et al. 2020a). It was criticized that an open and controversial debate about the crisis was not encouraged and relevant data not put in proportion but instead the corridor of opinions narrowed down and the broadcasting of alarming news and emotional pictures preferred to neutral reporting (ibid.). This might partially explain the growing relevance of “alternative media” channels during the pandemic. It has become apparent that over the course of the pandemic an open public debate, about possible alternatives to the governmental response measures and about future perspectives of crisis governance, including greater parliamentary participation and a more open (scientific) debate, is requested by growing parts of the population.

## 8. Conclusions

Our study has shown that the German approach of COVID-19 governance features, on the one hand, a number of strengths and assets which are closely related to the fairly comfortable starting conditions, for instance in terms of hospital capacities, economic prosperity, and an overall stable institutional set-up. Germany belongs to the top-scorers in the European Union regarding health expenditures, ICU equipment, medical specialization and quality of (public) health services. Even at the peak of hospitalizations in December 2020, there were still more than 15,000 ICUs available and its occupancy quote during the first year of the pandemic was never beyond 85 % and remained quite stable at about 22,000 from September onwards. In general, the much-feared overburdening of the German health system did not take place. Experts do not see a noticeable excess mortality in Germany for 2020.

On the other hand, some important weaknesses and shortcomings have become apparent. In particular, the precarious staff situation in the health and care sectors, the institutional overload of local health authorities and their ill digital readiness, the (disciplinary) narrowness of the scientific debate and policy advice, and the peculiar shifts in vertical and horizontal checks and balances during the pandemic. Criticism was also raised with respect to the containment approach as such, the back-and-forth logic (“lockdown-yoyo”) as well as the basis and consistency of decisions. Some of these problems originated in policy decisions of previous years, such as understaffed hospitals and care facilities, NPM-driven privatization and marketization in the hospital and care sector as well as the missed digital transformation in public administration. Others resulted from crisis-related decisions and political actors’ “opportunity management” (Kuhlmann et al. 2021a; Kuhlmann et al. 2021b), that is, the way actors used the crisis as an opportunity for more far-reaching changes in the institutional setting.

Institutionally, Germany's pandemic governance stands out for its highly decentralized and organizationally fragmented character which is enshrined in administrative federalism with the Länder and local governments as key actors of crisis management and epidemic mitigation. The lacking executive power of the centre to enact containment measures and impose crisis responses to the sub-national levels is a peculiar feature of the German approach. We have shown that these decentralized patterns of pandemic governance, with the local health authorities as key actors of pandemic management, have in many respects turned out to be supportive for crisis mitigation. They ensured institutional reactivity, agility, proximity, and territorial adequacy of the responses tailored to the specific local circumstances and varying degrees of crisis affectedness. Furthermore, local governments' comprehensive task portfolio and their mandate to execute all territorially relevant policies proved to be favourable for horizontal coordination across various policy sectors and task areas of crisis management. Yet, the missing digital readiness of (local) administration and resulting service constraints during the lockdown have revealed as salient shortcomings in crisis management. Lacking digital tools and channels to proceed transactions with citizens (see Kuhlmann/Bogumil 2021), many citizen-related services, (e.g., in local one-stop shops, building supervisory boards and other licensing authorities) could not be provided during the pandemic (see Franzke/Kuhlmann 2021b, Franzke 2021b). Furthermore, local health authorities became increasingly overloaded as a result of the general containment approach, particularly the comprehensive tracking and tracing obligations, seen by the Federal and Länder governments as an indispensable basis for containing the pandemic and preventing a crash of the health system. When many local health authorities reached their capacity limits in October 2020 and in about 75 % of all cases could not trace the infection chains anymore, this was interpreted by many as a major failure of (local) administration. However, some experts also questioned the appropriateness and effectiveness of the crisis responses (the "policy theory") as such, specifically the overemphasis of the "incidence rule" as major basis for containment decisions, the mass contact tracing, testing, and quarantining, all of which had to be executed by local health authorities. Therefore, this approach was also criticized as putting a wrong emphasis and thereby threatening the operational procedures in the local health authorities who were entirely absorbed by containment management while other duties, such as important prevention tasks or the protection of vulnerable groups by way of supporting care homes, could not be assumed by them.

Regarding intergovernmental relations, there was a clear trend towards more unitarization and centralization during the pandemic up to what we label here as "intergovernmental centralism", while at the same time major implementation and management functions remained with the – increasingly overburdened - local levels. As our analysis has shown, over the course of the crisis, phases of intense coordination and "unitarization" of decision-making alternated with phases of looser intergovernmental collaboration and more discretionary regulatory powers of the Länder and local governments, especially when the situation was considered as being more relaxed and a lifting of

measures justifiable. To put it exaggeratedly, the lockdown-yoyo was paralleled by a centralization-yoyo with subsequent phases and repeated re-balancing of localized/discretionary and centralized/uniform containment regulation. The increased relevance and importance of intergovernmental coordination is thus a key property of pandemic governance in Germany. Although, formally, no nation-wide containment was provided by the pertinent legislation, in fact it was achieved when the federal and *Länder* executives established a kind of informal “substitute government” (“Bund-Länder Summits”), also labelled by some critics as the German intergovernmental “conclave” or “super-corona-government” (Der Tagesspiegel 2021), which took all major decisions. The result was a quickly harmonized containment landscape in different German regions, while variation across *Länder* and local jurisdictions primarily concerned details and nuances of regulations, which some observers misinterpreted as a “federal mess”. It remains to be seen whether this new feature of intergovernmental centralization, which has also provoked many critical assessments, not only regarding its (lacking) constitutional basis, but also more general issues of legitimacy, accountability, transparency and checks and balances, will leave some longer lasting marks in Germany’s institutional system.

In terms of checks and balances, the overall result of the various legal amendments during the crisis was a weakening of the federal legislative (*Bundestag*) and (partly) the *Länder* during an “epidemic emergency of national concern” while the central-state executive, specifically the Minister of Health, was conspicuously upgraded. The balance between the legislative and the executive branches has clearly shifted towards the latter. The pandemic can therefore undoubtedly be referred to as the “moment of the executive”. This does not only apply to the federal executive, in particular the Minister of Health, but also to the *Länder* governments. Their power to enact containment measures by way of suspending civil liberties during a pandemic was clearly enhanced by the third pandemic law, which now provides a more solid statutory basis for *Länder* executive orders, while possibilities for citizens to successfully sue against them were reduced.

While the major emphasis of the German approach was on general containment, the focused protection of vulnerable groups and elderly people with pre-existing illnesses, particularly in care homes, has been considered by many as a failure. Whereas unspecified containment for the whole population was in the centre of pandemic management, the focused protection of vulnerable groups was less emphatically pursued by policy makers. This is all the more puzzling as the dramatic problems regarding the staff situation in care homes, the chronic underpayment, overburdening and poor qualification of the employees have been well-known since many years. These shortcomings dramatically popped up during the pandemic, especially when it became clear, early in 2020, that care homes would need focused protection.

From a comparative perspective (see Kuhlmann et al. 2021a, 2021b, 2021c; Bouckaert et al. 2020) it becomes apparent that, in Germany, the political rationality in crisis-related decision-making was very crucial in the pandemic. Executive politics was not in the backseat or only executing scientific recommendations but in the driver seat of decision-making. While experts' recommendations were key for generating legitimacy and trust in pandemic management, the major basis and source of crisis decisions were political preferences, interests, and executive actor's political choices. Unlike other policy discourses in the German federal system, the COVID-19 related discourse was clearly dominated by few central-level internal and external advisors who were more or less in favour of strict containment while milder measures and alternative solutions were much less prominently staged. Nevertheless, over the course of the crisis, the scientific positions of how to deal with the pandemic have become more differentiated, controversial, partly even polarized. An increasing number of experts expressed their discontent with the governments' approach publicly, while in the first phase of the pandemic these voices had been rather weak. Towards the second half of the year, there was also more openness in the public debate regarding the appropriate assessment and handling of the crisis in the long run. It became visible that amongst specialists the opinions about the dangerousness of the virus and the effectiveness of measures were controversial and had also changed over time. The scientific opinions oscillated around various degrees of strictness or permeability of mitigation measures, with some experts more in line with the governmental approach and others claiming a change in strategy inter alia demanding a more focused protection of vulnerable groups, a systematic assessment of "collateral damages" and of (mid- and long term) societal and health effects of the response measures ("second round effects"). Some also warned of a further politicization of the pandemic and the instrumentalization of science by politics.

The pandemic has meanwhile developed from an initial mainly health-related challenge to a universal presumably long-term societal and economic crisis. As this study has focused on the states and public administration's role in mitigating the crisis, it only addresses one – although we assume important – factor of the overall picture. For an interim assessment of Germany's "success" or "failure" in governing the crisis some empirical and conceptual questions remain open which cannot be resolved in this contribution. For one, we cannot isolate governments and administrations' influence on crisis mitigation from other (external, environmental, medical, demographic, epidemiological, societal etc.) variables. To what extent is the overall "pandemic outcome" a result of governments and administrations' actions or/and of other (potentially even more important?) factors which cannot not be controlled by governments? What actually constitutes the so called "pandemic outcome"? Second and closely related, what is "success" or "failure" in this pandemic, including the post-pandemic phase not yet reached at time of writing? It is a myth to believe that "indicators of success and failure are clear and outcomes can be well defined and objectively measured" (Jasanoff et al. 2021: 11). Outcome measures are always value-laden, contested, and erase important features of their context.

Performance measures are contradictory and experts disagree about which ones are appropriate and relevant: “Choosing indicators to evaluate policies is therefore a political decision” (Jasanoff et al. 2021: 11). Finally, to evaluate “success” or “failure”, multiple dimensions must be taken into account. For instance, the effects of health-related emergency measures (“first round effects”) must be set in a proportion to the (likewise public health-related) societal, economic etc. longer-term consequences of governments’ response measures (“second round effects”). What will be an appropriate time horizon to do so? And which (comparative) data and indicators can we draw on to conduct these kinds of (interdisciplinary) studies? Explanations of (partial) “failures” must also differentiate between “false theories” (e.g., political decisions on how to mitigate the crisis) and “bad implementation” (e.g., ill preparedness of administrations). Finally, from a normative perspective: is “success”/“failure” of a country in one area of assessment more important than in another? Obviously, it is up to future research to provide sufficient concepts, measures and empirical data on these multiple evaluative questions and to create a solid basis for comparative assessments of pandemic outcomes and governmental success. This chapter is meant to contribute to the establishment of such a comparative knowledge basis. The key issue of which concepts, indicators and measures to adopt for a comprehensive “corona evaluation” cannot be decided however solely from a technical or methodological point of view, but will remain, in the end, also a normative and political question.

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## References

- Bayer, S. 2020. *Intervention statt Prävention als politisches Paradigma? GID Statement 2/2020*. Hamburg: German Institute for Defense and Strategic Studies.
- Beerheide, R. 2020. Ambulante Versorgung: Systemvorteil in der Pandemie. *Deutsches Ärzteblatt*. 117(41): A-1903 / B-1621.
- Behnke, N. and S. Kropp. 2021. Administrative Federalism. In S. Kuhlmann, I. Proeller, D. Schimanke and J. Ziekow. *Public Administration in Germany*. 35-51. Houndmills Basingstoke: Palgrave Macmillan.
- Beneker, C. 2020. *COVID-19. Jedes zweite Corona-Opfer lebte im Heim*. <https://www.aerztezeitung.de/Politik/Jedes-zweite-Corona-Opfer-lebte-im-Heim-410389.html>. Accessed: 4 March 2021.
- Berliner Zeitung 2020. *Keine Übersterblichkeit durch Covid-19: Chef von Gesundheitsamt vergleicht Corona mit Grippe und Hitzewellen*, 1.10.2020. <https://www.berliner-zeitung.de/news/keine-uebersterblichkeit-trotz-corona-amtsarzt-fordert-diskussion-ueber-die-mittel-der-pandemie-bekaempfung-li.108672>. Accessed: 4 March 2021.
- Blom, A., C. Cornesse, S. Friedel, U. Krieger, M. Fikel, T. Rettig, A. Wenz, S. Juhl, R. Lehrer, K. Möhring, E. Naumann and M. Reifenscheid. 2020. High-Frequency and High-Quality Survey Data Collection: The Mannheim Corona Study. *Survey Research Methods*. 14(2): 171-178.
- Bouckaert, G., D. Galli, S. Kuhlmann, R. Reiter and S. van Hecke. 2020. European Coronationalism? A Hot Spot Governing a Pandemic Crisis. *Public Administration Review*. 80(5): 765-773.
- Blum, K., S. Löffert, M. Offermanns and P. Steffen. 2019. *Krankenhaus Barometer*. Düsseldorf: DKI.
- BR24. 2020. *Corona: Gesundheitsamtsleiter kritisiert Staatsregierung*, 5.10.2020. <https://www.br.de/nachrichten/bayern/corona-gesundheitsamtsleiter-kritisiert-staatsregierung,SCRLYkJ>. Accessed: 4 March 2021.
- Bündnis Klinikrettung. 2020. *Neues Bündnis Klinikrettung.de fordert sofortigen Stopp der Schließungen von Krankenhäusern*. <https://www.gemeingut.org/neues-buendnis-klinikrettung-de-fordert-sofortigen-stopp-der-schliessungen-von-krankenhaeusern/>. Accessed: 2 March 2021.

- Bundesagentur für Arbeit. 2020. *Monatsbericht zum Arbeits- und Ausbildungsmarkt. September 2020*. [https://www.arbeitsagentur.de/datei/arbeitsmarktbericht-september-2020-\\_ba146655.pdf](https://www.arbeitsagentur.de/datei/arbeitsmarktbericht-september-2020-_ba146655.pdf). Accessed: 4 March 2021.
- Bundesministerium der Finanzen. 2020a. *Nachtragshaushalt 2020 des Bundes (Sollbericht)*. [https://www.bundesfinanzministerium.de/Monatsberichte/2020/08/Inhalte/Kapitel-3-Analysen/3-1-nachtragshaushalte-2020-des-bundes-sollbericht-pdf.pdf?\\_\\_blob=publicationFile&v=2](https://www.bundesfinanzministerium.de/Monatsberichte/2020/08/Inhalte/Kapitel-3-Analysen/3-1-nachtragshaushalte-2020-des-bundes-sollbericht-pdf.pdf?__blob=publicationFile&v=2). Accessed: 2 March 2021.
- Bundesministerium der Finanzen 2020b. *Eckwerte: Bundshaushalt 2021 und Finanzplan bis 2024*. <https://www.bundesfinanzministerium.de/Content/DE/Bilderstrecken/Infografiken/2020-03-18-Eckwerte-Bundshaushalt-2021/2020-03-18-Eckwerte-Bundshaushalt-2021.html>. Accessed: 4 March 2021.
- Bundesministerium der Finanzen. 2020b. *Entwicklung des Bundshaushalts bis einschließlich August 2020. Monatsbericht September*. <https://www.bundesfinanzministerium.de/Monatsberichte/2020/09/Inhalte/Kapitel-4-Wirtschafts-und-Finanzlage/4-3-entwicklung-des-bundshaushalts.html>. Accessed: 4 March 2021.
- Bundesministerium für Arbeit und Soziales. 2020. *Sozialschutz-Pakete*. <https://www.bmas.de/DE/Corona/sozialschutz-paket.html>. Accessed: 4 March 2021.
- Bundesministerium für Gesundheit. 2021. *Gesetze und Verordnungen*. <https://www.bundesgesundheitsministerium.de/service/gesetze-und-verordnungen.html>. Accessed: 9 March 2021.
- Bundesministerium für Wirtschaft und Energie. 2020a. *Corona-Hilfen: Förderinstrumente auf einen Blick*. [https://www.bmwi.de/Redaktion/DE/Downloads/C-D/coronahilfen-foerderinstrumente-infografik.pdf?\\_\\_blob=publicationFile&v=12](https://www.bmwi.de/Redaktion/DE/Downloads/C-D/coronahilfen-foerderinstrumente-infografik.pdf?__blob=publicationFile&v=12). Accessed: 4 March 2021.
- Bundesministerium für Wirtschaft und Energie. 2020b. *Die wirtschaftliche Lage in Deutschland im September 2020*. <https://www.bmwi.de/Redaktion/DE/Pressemitteilungen/Wirtschaftliche-Lage/2020/20200914-die-wirtschaftliche-lage-in-deutschland-im-september-2020.html>. Accessed: 4 March 2021.
- Bundesministerium für Wirtschaft und Energie. 2021. *Package of measures to combat the impact of coronavirus on companies*. [https://www.bmwi.de/Redaktion/EN/Downloads/P/package-of-measures-to-combat-the-impact-of-coronavirus-on-companies.pdf?\\_\\_blob=publicationFile&v=29](https://www.bmwi.de/Redaktion/EN/Downloads/P/package-of-measures-to-combat-the-impact-of-coronavirus-on-companies.pdf?__blob=publicationFile&v=29). Accessed: 2 March 2021.

- Bundesregierung. 2020a. *Kanzlerin nach Corona-Kabinett. Jetzt nicht nachlassen*. <https://www.bundestkanzlerin.de/bkin-de/aktuelles/merkel-corona-kabinett-1742676>. Accessed: 4 March 2021.
- Bundesregierung. 2020b. *Telefonschaltkonferenz der Bundeskanzlerin mit den Regierungschefinnen und Regierungschefs der Länder am 6. Mai 2020*. <https://www.bundesregierung.de/resource/blob/975226/1750986/fc61b6eb1fc1d398d66cfea79b565129/2020-05-06-mpk-beschluss-data.pdf?download=1,%2012.1.2021>. Accessed: 2 March 2021.
- Bundesverband der Ärztinnen und Ärzte des Öffentlichen Gesundheitsdienstes. 2020. *Coronaviren in Deutschland – Gesundheitsämter in Bedrängnis wegen Ärztemangel*. Berlin: BVÖGD.
- Collins, A., M.V. Florin and O. Renn. 2020 COVID-19 risk governance: Drivers, responses and lessons to be learned. *Journal of Risk Research*. 23(7-8): 1073-1082.
- Cosmo. 2021. *Vertrauen in Institutionen*. <https://projekte.uni-erfurt.de/cosmo2020/web/topic/vertrauen-ablehnung-demos/10-vertrauen/>. Accessed: 2 March 2021.
- Der Spiegel (2021). Keine deutliche Übersterblichkeit in Deutschland, 1.2.2021, <https://www.spiegel.de/wissenschaft/mensch/corona-jahr-2020-keine-deutliche-uebersterblichkeit-in-deutschland-a-e4524a2e-cc59-44ff-b63a-86ed8bbcf81d>.
- Der Spiegel 2020. Plötzlich regieren und die Virologen, 23.3.2020. [www.spiegel.de/politik/deutschland/corona-krise-wie-virologen-ploetzlich-zu-einer-nebenregierung-werden-a-00000000-0002-0001-0000-000170114611](http://www.spiegel.de/politik/deutschland/corona-krise-wie-virologen-ploetzlich-zu-einer-nebenregierung-werden-a-00000000-0002-0001-0000-000170114611), Accessed: 15 March 2021.
- Der Tagesspiegel 2021. Vergeblicher Kampf gegen Corona: Merkels Superregierung, die es nicht bringt, 11.1.2021, [www.msn.com/de-de/nachrichten/politik/vergeblicher-kampf-gegen-corona-merkels-superregierung-die-es-nicht-bringt/ar-BB1cEFfQ](http://www.msn.com/de-de/nachrichten/politik/vergeblicher-kampf-gegen-corona-merkels-superregierung-die-es-nicht-bringt/ar-BB1cEFfQ), Accessed: 15 March 2021.
- Destatis. 2020a. *Sonderauswertung zu Sterbefallzahlen der Jahre 2020/2021*. <https://www.destatis.de/DE/Themen/Gesellschaft-Umwelt/Bevoelkerung/Sterbefaelle-Lebenserwartung/sterbefallzahlen.html>. Accessed: 2 March 2021.
- Destatis. 2020b. *Sterbefallzahlen in der 52. Kalenderwoche 2020: 31 % über dem Durchschnitt der Vorjahre*. [https://www.destatis.de/DE/Presse/Pressemitteilungen/2021/01/PD21\\_032\\_12621.html](https://www.destatis.de/DE/Presse/Pressemitteilungen/2021/01/PD21_032_12621.html). Accessed: 2 March 2021.
- Destatis. 2020c. *Sterbefälle – Fallzahlen nach Tagen, Wochen, Monaten, Altersgruppen, Geschlecht und Bundesländern für Deutschland 2016-2021*. [\*\*252\*\* KDI SCHOOL of Public Policy and Management](https://www.destatis.de/DE/Themen/Gesellschaft-</a></p></div><div data-bbox=)



Umwelt/Bevoelkerung/Sterbefaelle-Lebenserwartung/Tabellen/sonderauswertung-sterbefaelle.htm  
l;jsessionid=B22B394FDF54FE2196B3AABD5CCD1B8B.internet8711?nn=396932. Accessed: 2  
March 2021.

Destatis. 2020d. *Number of deaths and excess mortality*. [https://www.destatis.de/EN/Themes/Cross-Section/Corona/Society/population\\_death.html](https://www.destatis.de/EN/Themes/Cross-Section/Corona/Society/population_death.html). Accessed: 2 March 2021.

Deutsche Krankenhausgesellschaft. 2020. *Stellungnahme der Deutschen Krankenhausgesellschaft*.  
[https://www.bundestag.de/resource/blob/711300/aba64e39cb428b194bb2aabbecac7d8f/19\\_14\\_0197-6-\\_Deutsche-Krankenhausgesellschaft-e-V-\\_COVID19-data.pdf](https://www.bundestag.de/resource/blob/711300/aba64e39cb428b194bb2aabbecac7d8f/19_14_0197-6-_Deutsche-Krankenhausgesellschaft-e-V-_COVID19-data.pdf). Accessed: 9 March 2021.

Deutscher Bundestag. 2012. *Unterrichtung durch die Bundesregierung, Bericht zur Risikoanalyse im Bevölkerungsschutz 2012*. Drucksache 17/12051, 3.1.2013.

Deutscher Bundestag. 2020a. *Stenografischer Bericht. 156. Sitzung*. <https://dipbt.bundestag.de/dip21/btp/19/19156.pdf>. Accessed: 2 March 2021.

Deutscher Bundestag. 2020b. *Virtuelles Parlament. Verfassungsrechtliche Bewertung und mögliche Grundgesetzänderung*. <https://www.bundestag.de/resource/blob/690270/07e7b1aff547a62bbc7477281574de2c/WD-3-084-20-pdf-data.pdf>. Accessed: 2 March 2021.

Deutscher Bundestag. 2020c. *Gesetzesentwurf der Fraktionen der CDU/CSU und SPD. Entwurf eines Dritten Gesetzes zum Schutz der Bevölkerung bei einer epidemischen Lage von nationaler Tragweite*. <http://dip21.bundestag.de/dip21/btd/19/239/1923944.pdf>. Accessed: 9 March 2021.

Deutscher Bundestag. 2020d. *Pandemierat jetzt gründen – Mit breiterer wissenschaftlicher Perspektive besser durch die Corona-Krise*. <https://dip21.bundestag.de/dip21/btd/19/205/1920565.pdf>. Accessed: 9 March.

DIVI. 2020a. *DIVI-Intensivregister Tagesreport 20.04.2021*. <https://www.divi.de/divi-intensivregister-tagesreport-archiv/viewdocument/3824/divi-intensivregister-tagesreport-2020-04-20>. Accessed: 2 March 2021.

DIVI. 2020b. *Tagesreport 15.09.2020*. <https://www.divi.de/divi-intensivregister-tagesreport-archiv/viewdocument/5057/divi-intensivregister-tagesreport-2020-09-15>. Accessed: 9 March 2021.

Deutsches Netzwerk Evidenzbasierte Medizin. 2020. *COVID-19: Wo ist die Evidenz?* <https://www.ebm-netzwerk.de/de/veroeffentlichungen/pdf/stn-20200903-covid19-update.pdf>. Accessed: 2 March 2021.

- Deutschlandfunk Nova 2020. *Gruppierung offenbar aufgelöst. Corona-Pandemie: "Widerstand 2020" ist wohl abgesagt, 7.7.2020.* <https://www.deutschlandfunknova.de/beitrag/widerstand-2020-die-gruppierung-gegen-anti-corona-ma%C3%9Fnahmen-scheint-sich-aufzuloesen>. Accessed: 2 March 2021.
- Eckhard, S. and A. Lenz. 2020. *Die öffentliche Wahrnehmung des Krisenmanagements in der Covid-19 Pandemie*. Konstanz: Universität Konstanz.
- Epoch Times 2021. BKK-Chef Knieps kritisiert Corona-Politik von Bund und Ländern – "Bunkermentalität im Kanzleramt", 18.1.2021. [www.epochtimes.de/politik/deutschland/bkk-chef-knieps-kritisiert-corona-politik-von-bund-und-laendern-rasche-oeffnung-der-schulen-und-kitas-a3426494.html](http://www.epochtimes.de/politik/deutschland/bkk-chef-knieps-kritisiert-corona-politik-von-bund-und-laendern-rasche-oeffnung-der-schulen-und-kitas-a3426494.html). Accessed: 2 February 2021.
- European Commission. 2019. *State of Health in the EU. Companion Report 2019*. Luxembourg: Publications Office of the European Union.
- Expertengruppe No-Covid-Strategie. 2021. Eine neue proaktive Zielsetzung für Deutschland zur Bekämpfung von SARS-CoV-2 (Stand 18. Januar 2021, Version 1.0) See [www.zeit.de/wissen/gesundheit/2021-01/no-covid-strategie.pdf](http://www.zeit.de/wissen/gesundheit/2021-01/no-covid-strategie.pdf).
- FOCUS 2021a. Massive Kritik an Pandemie-Behörde. Statistiker holt zur RKI-Schelte aus: Corona-Daten "eine einzige Katastrophe", 1.2.2021, [https://m.focus.de/gesundheit/news/massive-kritik-an-pandemie-behoerde-statistiker-holt-zur-rki-schelte-aus-corona-daten-eine-einzige-katastrophe\\_id\\_12927819.html](https://m.focus.de/gesundheit/news/massive-kritik-an-pandemie-behoerde-statistiker-holt-zur-rki-schelte-aus-corona-daten-eine-einzige-katastrophe_id_12927819.html). Accessed: 15 March 2021.
- FOCUS 2021b. Medizinprofessor: Das ständige Lockdown-Jojo ist "völlig wirkungslos", 13.1.2021 [https://www.focus.de/gesundheit/coronavirus/aeltere-weiter-ungeschuetzt-scharfe-kritik-an-corona-politik-aneinanderreihung-von-lockdowns-voellig-wirkungslos\\_id\\_12856904.html](https://www.focus.de/gesundheit/coronavirus/aeltere-weiter-ungeschuetzt-scharfe-kritik-an-corona-politik-aneinanderreihung-von-lockdowns-voellig-wirkungslos_id_12856904.html), Accessed: 15 March 2021.
- FOCUS 2021c. IW: Corona-Verlust in Höhe von 250 Milliarden Euro, 22.1.2021, Accessed: 15 March 2021.
- Financial Times 2020. How Germany got coronavirus right, 4.6.2020, [www.ft.com/content/cc1f650a-91c0-4e1f-b990-ee8ceb5339ea?shareType=nongift](http://www.ft.com/content/cc1f650a-91c0-4e1f-b990-ee8ceb5339ea?shareType=nongift), Accessed: 15 March 2021.
- Frankfurter Allgemeine Zeitung 2020a. Vertrauen in deutsche Politik stark gewachsen, 16.5.2020, [www.faz.net/aktuell/politik/inland/umfrage-vertrauen-in-deutsche-politik-stark-gewachsen-16772693.html](http://www.faz.net/aktuell/politik/inland/umfrage-vertrauen-in-deutsche-politik-stark-gewachsen-16772693.html), Accessed: 15 March 2021.

- Frankfurter Allgemeine Zeitung. 2020b. *Frankfurter Gesundheitsamtsleiter: Corona-Strategie überdenken*. <https://www.faz.net/aktuell/rhein-main/frankfurt/frankfurter-gesundheitsamtsleiter-corona-strategie-ueberdenken-16981161.html>. Accessed: 2 March 2021.
- Frankfurter Allgemeine Zeitung 2021. Jeder kämpft für sich allein, 2.1.2021. [www.faz.net/aktuell/wirtschaft/gesundheitsaemter-in-der-krise-jeder-kaempft-fuer-sich-allein-17126600.html](http://www.faz.net/aktuell/wirtschaft/gesundheitsaemter-in-der-krise-jeder-kaempft-fuer-sich-allein-17126600.html).
- Frankfurter Rundschau 2020. *Virologe Hendrik Streeck übt scharfe Kritik an Corona-Politik: "Echte Strategie" fehlt*, 4.11.2020. <https://www.fr.de/politik/virologe-hendrik-streeck-corona-deutschland-interview-fr-impfstoff-covid19-coronavirus-pandemie-neuinfektionen-90082318.html>. Accessed: 16 March 2020.
- Frankfurter Rundschau 2021. Boris Palmer fordert Kursänderung im Corona-Lockdown: "Es reicht jetzt, wir müssen leben", 14.1.2021, [www.fr.de/politik/boris-palmer-lockdown-ende-corona-virus-lockerungen-covid19-inzidenz-50-karl-lauterbach-90165038.html](http://www.fr.de/politik/boris-palmer-lockdown-ende-corona-virus-lockerungen-covid19-inzidenz-50-karl-lauterbach-90165038.html), Accessed: 15 March 2021.
- Franzke, J. 2021a. Deutschlands Krisenmanagement in der CORONA-Pandemie. Herausforderungen eines föderalen politisch-administrativen Systems; in: *ROCZNIK INTEGRACJI EUROPEJSKIEJ* (Jahrbuch der Europäischen Integration), Poznań, Jahrgang 2021, Nr. 14, S. 321-339.
- Franzke, J. 2021b. German Local Authorities in the COVID-19 Pandemic. Challenges, impacts and adaptations, Paper angenommen für den 34. International Geographical Kongress in Istanbul (Türkei) vom 16-20. August 2021, Session "Local government response towards COVID-19 Pandemic".
- Franzke, J. 2020a. German Municipalities in the COVID-19 Pandemic Crisis. Challenges and Adjustments. A preliminary analysis, International Geographical Union, 30 April 2020.
- Franzke, J. 2020b. Антикризисное управление немецких муниципалитетов в условиях пандемии. COVID-19: промежуточные итоги 100 дней, In: Кафедра территориального развития им. В.Л. Глазычева, *ГОРОДСКИЕ ИССЛЕДОВАНИЯ: ТЕОРИЯ И ПРАКТИКА*, Москва Издательство «Проспект», с. 39-55.
- Franzke, J. and S. Kuhlmann. 2021a. *COVID-19 Governance in Germany*. Published as "Tyskland og covid-19-krisen. Bilag 5. Landerapport, pp. 630—676 in Folketinget: Håndteringen af covid-19 I foråret 2020. Rapport af givet af den af Folketingets Udvalg for Forretningsordenen nedsatte udredningsgruppe vedr. håndteringen af covid-19. Copenhagen: Folketinget.
- Franzke, J. and S. Kuhlmann. 2021b. Multi-Level responses to COVID-19: Crisis Coordination in Germany from an Intergovernmental Perspective. In M. Laffin, T. Bergström, S. Kuhlmann

and E. Wayenberg. *Local Government Studies. Special Issues: Comparative Intergovernmental Relations and the Pandemic. How European developed governments responded to a public health crisis.*

Fuhr, H., J. Fleischer and S. Kuhlmann. 2018. *Federalism and decentralization in Germany. Basic features and principles for German development cooperation.* Bonn/Eschborn: GIZ.

Gebhardt, H. and L.H. Siemers. 2020. Wirkung der Corona-Krise auf die Staatsfinanzen. *Wirtschaftsdienst.* 2020(7): 468-470.

Gerlinger, T. 2019. Wissenschaftliche Politikberatung im Gesundheitswesen. *Gesundheit und Gesellschaft – Wissenschaft*, 19(1): 15-22.

Handelsblatt 2020. *Die neue Macht der Virologen*, 26.3.2020. [amp2.handelsblatt.com/meinung/kommentar-die-neue-macht-der-virologen/25684390.html](https://amp2.handelsblatt.com/meinung/kommentar-die-neue-macht-der-virologen/25684390.html), Accessed: 15 March 2021.

Jasanoff, S., S. Hilgartner, J.B. Hurlbut, O. Özgöde and M. Rayzberg. 2021. *Comparative Covid Response: Crisis, Knowledge, Politics. Interim Report.* 12.1.2021. [https://assets.website-files.com/5fd9fca1c14b4b91eaa7196a5ffda00d50fca2e6f8782aed\\_Harvard-Cornell%20Report%202020.pdf](https://assets.website-files.com/5fd9fca1c14b4b91eaa7196a5ffda00d50fca2e6f8782aed_Harvard-Cornell%20Report%202020.pdf). Accessed: 16 March 2021.

Juhl, S., R. Lehrer, A. Blom, A. Wenz, T. Rettig, M. Reifenscheid, E. Naumann, K. Möhring, U. Krieger, S. Friedel, M. Fikel and C. Cornesse. 2020. *Die Mannheimer Corona-Stuide: Demokratiesche Kontrolle in der Corona-Krise.* Mannheim: MZES.

Kantar. 2020a. *Betroffenheit deutscher Unternehmen durch die Corona-Pandemie. Mai 2020.* Berlin: Bundesministerium für Wirtschaft und Energie.

Kantar. 2020b. *Betroffenheit deutscher Unternehmen durch die Corona-Pandemie. Zweite Erhebungswelle, Juli 2020.* Berlin: Bundesministerium für Wirtschaft und Energie.

Kassenärztliche Bundesvereinigung. 2020. *Gemeinsame Position von Wissenschaft und Ärzteschaft. Evidenz- und Erfahrungsgewinn im weiteren Management der covid-19-Pandemie berücksichtigen.* Berlin: KBV.

Kießling, A. 2020. *Stellungnahme als eingeladene Einzelsachverständige für die öffentliche Anhörung im Gesundheitsausschuss des Deutschen Bundestages am 12.11.2020.* Bochum: Ruhr-Universität Bochum.

- Kingreen, T. 2020. *Whatever it takes? Der demokratische Rechtsstaat in Zeiten von Corona*. <https://verfassungsblog.de/whatever-it-takes/>. Accessed: 4 March 2021.
- Kirsch, P., H. Kube and R. Zohlhöfer. 2020. *Gesellschaftliche Selbstermächtigung. Die Akzeptanz der Maßnahmen zur Eindämmung der Corona-Pandemie in der deutschen Bevölkerung im dezember 2020 – Zusammenfassung der Ergebnisse*. <https://www.marsilius-kolleg.uni-heidelberg.de/fellows/Publikationfellows2020.html>. Accessed: 2 March 2021.
- Klafki, A. 2020. *Stellungnahme als Einzelsachverständige zum Entwurf des Dritten Gesetzes zum Schutz der Bevölkerung bei einer epidemischen Lage von nationaler Tragweite*. <https://mitdenken.ur.de/wp-content/uploads/2020/11/Stellungnahme-Entwurf-Klafki-Anika-.pdf>. Accessed: 2 March 2021.
- Klenk, T. and R. Reiter. 2012. Öffentliche Daseinsvorsorge, privat organisiert? Ein deutsch-französischer Vergleich der Bereitstellung der Krankenhausinfrastruktur. *Zeitschrift für Sozialreform*. 58(4): 401-426.
- Koos, S. 2021. Die “Querdenker”. *Wer nimmt an Corona-Protesten teil und warum? Ergebnisse einer Befragung der “Corona-Proteste” am 4.10.2020 in Konstanz*. [https://kops.uni-konstanz.de/bitstream/handle/123456789/52497/Koos\\_2-bnrddxo8opad0.pdf?sequence=1](https://kops.uni-konstanz.de/bitstream/handle/123456789/52497/Koos_2-bnrddxo8opad0.pdf?sequence=1). Accessed: 4 March 2021.
- Kropp, S. 2020. *Zerreißprobe für den Flickenteppich?* <https://verfassungsblog.de/zerreissprobe-fuer-den-flickenteppich/>. Accessed: 2 March 2021.
- Kuhlmann, S. and H. Wollmann. 2019. *Introduction to Comparative Public Administration: Administrative Systems and Reforms in Europe*. Cheltenham/Northampton: Edward Elgar.
- Kuhlmann, S. 2020. Between Unity and Variety: Germany’s Responses to the COVID-19 Pandemic. In *Good Public Governance in a Global Pandemic. IIAS Public Governance Series*. M. Joyce, F. Maron and R. Purshottama Sivanarain (eds.): 291-304. Brussels: IAS-IISA.
- Kuhlmann, S. and J. Bogumil. 2021. The Digitalisation of Local Public Services. Evidence from the German Case. In T. Bergström, J. Franzke, S. Kuhlmann and E. Wayenberg (eds.). *The Future of Local Self-Government. European Trends in Autonomy, In-novations and Central-Local Relations*. Basingstoke: Palgrave Macmillan, pp. 101-113. <https://doi.org/10.1007/978-3-030-56059-1>.
- Kuhlmann, S., G. Bouckaert, D. Galli, R. Reiter and S. van Hecke. 2021a. Opportunity Management of the COVID-19 Pandemic: Testing the Crisis from a Global Perspective. *IRAS Special Issue*.

- Kuhlmann, S., G. Bouckaert, D. Galli, R. Reiter and S. van Hecke. 2021b. The Governance of the COVID-19 Pandemic Compared. *IRAS Special Issue*.
- Kuhlmann, S., M. Hellström, U. Ramberg and R. Reiter. 2021c. Tracing divergence in crisis governance: responses to the COVID-19 pandemic in France, Germany and Sweden compared. *International Review of Administrative Sciences. Special Issue*.
- Kuhlmann, S., I. Proeller, D. Schimanke and J. Ziekow. 2021d. *Public Administration in Germany: Institutions, Reforms, Governance*. Basingstoke: Palgrave Macmillan.
- Kuhlmann, S., Wayenberg, E., Bergström, T., Franzke, J. 2021e. The Essence and Transformation of Local Self-Government in Western Europe. In T. Bergström, J. Franzke, S. Kuhlmann and E. Wayenberg, E (eds.). *The Future of Local Self-Government. European Trends in Autonomy, Innovations and Central-Local Relations*. Basingstoke: Palgrave Macmillan, pp. 1-14. <https://doi.org/10.1007/978-3-030-56059-1ss>
- Landesärztekammer Hessen. 2020. Schwerpunkt Schlafmedizin. *Hessisches Ärzteblatt*. 2020(10).
- Leopoldina 2020a. *Coronavirus-Pandemie. Die Krise nachhaltig überwinden*, 3. Ad-hoc-Stellungnahme zur Coronavirus-Pandemie, 13.4.2020.
- Leopoldina. 2020b. *Coronavirus-Pandemie: Die Feriertage und den Jahreswechsel für einen harten Lockdown nutzen*. [https://www.leopoldina.org/uploads/tx\\_leopublication/2020\\_12\\_08\\_Stellungnahme\\_Corona\\_Feiertage\\_final.pdf](https://www.leopoldina.org/uploads/tx_leopublication/2020_12_08_Stellungnahme_Corona_Feiertage_final.pdf). Accessed: 2 March 2021.
- MDR. 2021. *Wird die Leopoldina politisch instrumentalisiert?* <https://www.mdr.de/wissen/leopoldina-politisch-instrumentalisiert-100.html>. Accessed: 14 March 2021.
- MDR 2020. *Bundeswehr unterstützt immer mehr Gesundheitsämter*, 18.10.2020. <https://www.mdr.de/nachrichten/deutschland/gesellschaft/akk-bundeswehr-unterstuetzung-gesundheitsaemter-corona-100.html>. Accessed: 16 March 2021.
- MDR 2021. *WIRD DIE LEOPOLDINA POLITISCH INSTRUMENTALISIERT?*, 19.2.2021, [www.mdr.de/wissen/leopoldina-politisch-instrumentalisiert-100.html](http://www.mdr.de/wissen/leopoldina-politisch-instrumentalisiert-100.html) Accessed: 14 March 2021.
- Neue Osnabrücker Zeitung 2020. *Corona-Forscher Streeck sieht App, Masken und Massentests skeptisch*, 10.6.2020, [www.noz.de/deutschland-welt/politik/artikel/2065630/corona-forscher-streeck-sieht-app-masken-und-massentests-skeptisch](http://www.noz.de/deutschland-welt/politik/artikel/2065630/corona-forscher-streeck-sieht-app-masken-und-massentests-skeptisch), Accessed: 14 March 2021.

- Next:Public (2020). *Verwaltung in Krisenzeiten. Eine Bestandsaufnahme der Auswirkungen der Corona-Pandemie auf den Öffentlichen Dienst*. Berlin.
- Nationaler Normenkontrollrat. 2020. *Krise als Weckruf: Verwaltung modernisieren, Digitalisierungsschub nutzen, Gesetze praxistauglich machen*. Berlin: NKR.
- OECD and European Observatory on Health Systems and Policies. 2019. *Germany: Country Health Profile 2019. State of Health in the EU*. Brussels: OECD Publishing.
- OECD. 2020. Turning hope into reality. *OECD Economic Outlook, December 2020*. <http://www.oecd.org/economic-outlook/december-2020/>. Accessed: 4 March.
- Our World in Data. 2021. *Cumulative COVID-19 tests, confirmed cases and deaths per million people*. <https://ourworldindata.org/grapher/covid-tests-cases-deaths-per-million?tab=chart&stackMode=absolute&time=2020-02-16..latest&region=World>. Accessed: 2 March 2021.
- Papier, H.J. 2020. Umgang mit der Corona-Pandemie: Verfassungsrechtliche Perspektiven. *Aus Politik und Zeitgeschichte*. 70(35): 7.
- Pusch, T. and S. Seifert. 2021. Stabilisierende Wirkungen durch Kurzarbeit. *Analysen und Berichte Arbeitsmarkt*. Wirtschaftsdienst. 2021(2): 99-105.
- Reinhart, K., A. von Butler and J. Graf. *Darum ist Deutschlands Gesundheitssystem nur Mittelmaß*. <https://www.faz.net/aktuell/wissen/medizin-ernaehrung/darum-ist-deutschlands-gesundheitssystem-nur-mittelmass-16786078.html>. Accessed: 9 March 2021.
- Rhein-Kreis Neuss. 2020. *Krisenstab des Kreises unermüdlich im Einsatz Landrat: "Höchstmöglicher Schutz der Bevölkerung ist unsere zentrale Aufgabe"*. <https://www.rhein-kreis-neuss.de/de/verwaltung-politik/nachrichten/2020/krisenstab-des-kreises-unermuedlich-im-einsatz-landrat>. Accessed: 4 March 2021.
- RKI. 2016. *Wissenschaftliche Grundlagen. Nationaler Pandemieplan. Teil II*. Berlin: Robert Koch-Institut.
- RKI. 2020a. *Daily Situation Report of the Robert Koch Institute. 31/12/2020 – Updated Status for Germany*. [https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Situationsberichte/Dez\\_2020/2020-12-31-en.pdf?\\_\\_blob=publicationFile](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Situationsberichte/Dez_2020/2020-12-31-en.pdf?__blob=publicationFile). Accessed: 2 March 2021.



- RKI. 2020b. *COVID-19-Fälle nach Meldewoche und Geschlecht sowie Anteile mit für COVID-19 relevanten Symptomen, Anteile Hospitalisierter und Verstorbener*. [https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Daten/Klinische\\_Aspekte.html](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Daten/Klinische_Aspekte.html). Accessed: 2 March 2021.
- RKI. 2020c. *Todesfälle nach Sterbedatum*. [https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Projekte\\_RKI/COVID-19\\_Todesfaelle.html](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Projekte_RKI/COVID-19_Todesfaelle.html). Accessed: 2 March 2021.
- RKI. 2020d. *Daily Situation Report of the Robert Koch Institute 07/10/2020 – Updated status for Germany*. [https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Situationsberichte/Okt\\_2020/2020-10-07-en.pdf?\\_\\_blob=publicationFile](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Situationsberichte/Okt_2020/2020-10-07-en.pdf?__blob=publicationFile). Accessed: 2 March 2021.
- RKI. 2020e. *Daily Situation Report of the Robert Koch Institute 23/12/2020 – Updated Status for Germany*. [https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Situationsberichte/Dez\\_2020/2020-12-23-en.pdf?\\_\\_blob=publicationFile](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Situationsberichte/Dez_2020/2020-12-23-en.pdf?__blob=publicationFile). Accessed: 2 February 2021.
- RKI. 2020f. *Dezember 2020: Archiv der Situationsberichte des Robert-Koch-Instituts zu COVID-19*. [https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Situationsberichte/Dez\\_2020/Archiv\\_Dezember.html](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Situationsberichte/Dez_2020/Archiv_Dezember.html). Accessed: 2 February 2021.
- RKI. 2020g. *Vorbereitungen auf Maßnahmen in Deutschland. Version 1.0. Ergänzung zum Nationalen Pandemieplan – COVID-19 – neuartige Coronaviruserkrankung*. [https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\\_Coronavirus/Ergaenzung\\_Pandemieplan\\_Covid.pdf?\\_\\_blob=publicationFile](https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Ergaenzung_Pandemieplan_Covid.pdf?__blob=publicationFile). Accessed: 9 March 2021.
- Rothgang, H., D. Domhoff, A.C. Friedrich, F. Heinze, B. Preuss, A. Schmidt, K. Seibert, C. Stolle and K. Wolf-Ostermann. 2020. *Pflege in Zeiten von Corona: Zentrale Ergebnisse einer deutschlandweiten Querschnittsbefragung vollstationärer Pflegeheime*. *Pflege*. 33(5): 265-275.
- RTL. 2021. *Das denken die Deutschen über die Lockdown-Verlängerung. Forsa-Umfrage: Mehrheit glaubt nicht an den Erfolg der neuen Corona-Maßnahmen*. <https://www.rtl.de/cms/impfung-schulen-lockdown-das-denken-die-deutschen-ueber-corona-massnahmen-4679607.html>. Accessed: 2 March 2021.
- Schrappe, M., H. Francois-Kettner, M. Gruhl, D. Hart, F. Knieps, P. Manow, H. Pfaff, K. Püschel and G. Glaeske. 2020a. *Die Pandemie durch SARS-CoV-2/Covid-19 - der Übergang zur chronischen Phase - Verbesserung der Outcomes in Sicht Stabile Kontrolle: Würde und Humanität wahren Diskursverengung vermeiden: Corona nicht politisieren*. <https://www.ndr.de/nachrichten/hamburg/thesenpapier102.pdf>. Accessed: 4 March 2021.



- Schrappe, M., H.F. Francois-Kettner, M. Gruhl, D. Hart, F. Knieps, P. Manow, H. Pfaff, K. Püschel and G. Glaeske. 2020b. *Die Pandemie durch SARS-CoV-2/CoViD-19 - Zur Notwendigkeit eines Strategiewechsels*. <https://www.ndr.de/nachrichten/hamburg/thesenpapier104.pdf>. Accessed: 9 March 2021.
- Schwäbisches Tagblatt 2021. Thomas Aigner: “Als Ausdruck meines Protestes”, 6.1.2021, [www.tagblatt.de/Nachrichten/Thomas-Aigner-Als-Ausdruck-meines-Protestes-485149.html](http://www.tagblatt.de/Nachrichten/Thomas-Aigner-Als-Ausdruck-meines-Protestes-485149.html), Accessed: 15 March 2021.
- Simon, M. 2020. *Das ERG-Fallpauschalsystem für Krankenhäuser. Kritische Bestandaufnahme und Eckpunkte für eine Reform der Krankenhausfinanzierung jenseits des DRG-Systems*. Working Paper Forschungsförderung der Hans-Böckler-Stiftung. Nr. 196.
- Staatskanzlei des Landes Nordrhein-Westfalen. 2021. *Expertenrat Corona. Ministerpräsident Armin Laschet beruft “Expertenrat Corona”*. <https://www.land.nrw.de/expertenrat-corona>. Accessed: 2 February 2021.
- Ständige Impfkommission, Deutscher Ethikrat, Nationale Akademie der Wissenschaften and Leopoldina. 2020. *Wie soll der Zugang zu einem COVID-19-Impfstoff geregelt werden?* Positionspapier einer gemeinsamen Arbeitsgruppe, Berlin, 9. November 2020.
- Statista. 2020a. *Anzahl durchgeführter Tests für das Coronavirus (COVID-19) in Deutschland nach Kalenderwoche*. <https://de.statista.com/statistik/daten/studie/1107749/umfrage/labortest-fuer-das-coronavirus-covid-19-in-deutschland/>. Accessed: 1 March 2021. Accessed: 2 March 2021.
- Statista. 2020b. *Todesfälle mit Coronavirus (COVID-19) in Deutschland nach Alter und Geschlecht*. <https://de.statista.com/statistik/daten/studie/1104173/umfrage/todesfaelle-aufgrund-des-coronavirus-in-deutschland-nach-geschlecht/>. Accessed: 2 March 2021.
- Statista. 2020c. *Share of hospitals in Germany in 2018, by sponsorship and state*. <https://www.statista.com/statistics/578451/hospital-share-germany-by-sponsorship-state/>. Accessed: 4 March 2021.
- Streeck, W. 2021. *Welchen Wissenschaftlern folgen wir in der Pandemie?* <https://www.faz.net/aktuell/feuilleton/debatten/corona-beitrag-der-soziologie-zur-bewaeltigung-der-krise-17138966.html>. Accessed: 2 March 2021.
- Süddeutsche Zeitung 2020. *Amtsarzt legt sich mit dem Freistaat an*, 4.11.2020, [www.sueddeutsche.de/bayern/aichach-amtsarzt-puerner-kritik-versetzung-1.5104412](http://www.sueddeutsche.de/bayern/aichach-amtsarzt-puerner-kritik-versetzung-1.5104412), Accessed: 15 March 2021.

- Thielbörger, P. and B. Behlert. 2020. *COVID-19 und das Grundgesetz: Neue Gedanken vor dem Hintergrund neuer Gesetze*. <https://verfassungsblog.de/covid-19-und-das-grundgesetz-neue-gedanken-vor-dem-hintergrund-neuer-gesetze/>. Accessed: 2 March 2021.
- Thüringer Allgemeine. 2021. *Bayerischer Verwaltungsgerichtshof widerspricht Corona-Urteil des Amtsgerichts Weimar*. <https://www.thueringer-allgemeine.de/leben/recht-justiz/bayerischer-verwaltungsgerichtshof-widerspricht-dem-corona-urteil-des-amtsgerichts-weimar-id231408135.html>. Accessed: 2 March 2021.
- Van Dooren, W. and M. Noordegraf. 2020. Staging Science: Authoritativeness and Fragility of Models and Measurement in the COVID-19 Crisis. *Public Administration Review*. 80(4): 610-615.
- Vereinigung der kommunalen Arbeitgeberverbände. 2020. Bedeutung kommunaler Krankenhäuser.
- Wagschal, U., S. Jäckle, A. Hildebrandt and E.M. Trüdinger. 2020. *Ausgewählte Ergebnisse einer Bevölkerungsumfrage zu den Auswirkungen des Corona-Virus*. [https://www.politikpanel.uni-freiburg.de/docs/Auswertung\\_PPD\\_Corona\\_Umfrage\\_Mai2020.pdf](https://www.politikpanel.uni-freiburg.de/docs/Auswertung_PPD_Corona_Umfrage_Mai2020.pdf). Accessed: 9 March 2021.
- WELT 2020a. *In Deutschland wurden fast eine Million Operationen abgesagt, 29.5.2020*. <https://www.welt.de/wirtschaft/article208557665/Wegen-Corona-In-Deutschland-wurden-908-000-OPs-aufgeschoben.html>. Accessed: 16 March 2021.
- WELT 2020b. *21 Prozent der "Querdenker" wählten die Grünen, 4.12.2020*. <https://www.welt.de/politik/deutschland/article221812060/Corona-21-Prozent-der-Querdenker-waehlen-die-Gruenen.html>. Accessed: 2 February 2021.
- WELT 2020c. *Die Pandemie ist kein Geschehen mehr, das man mit Beschränkungen ausbremsen könnte, 19.11.2020*. <https://www.welt.de/politik/deutschland/plus220506980/Kritik-an-Corona-Politik-Die-Pandemie-kein-Geschehen-das-man-mit-Beschraenkungen-ausbremsen-koennte.html>. Accessed: 2 March 2021.
- Wikipedia. 2021a. *Liste der infolge der COVID-19-Pandemie erlassenen deutschen Gesetze und Verordnungen*. [https://de.wikipedia.org/wiki/Liste\\_der\\_infolge\\_der\\_COVID-19-Pandemie\\_erlassenen\\_deutschen\\_Gesetze\\_und\\_Verordnungen#Gesetze](https://de.wikipedia.org/wiki/Liste_der_infolge_der_COVID-19-Pandemie_erlassenen_deutschen_Gesetze_und_Verordnungen#Gesetze). Accessed: 2 March 2021.
- Wikipedia. 2021b. *Proteste in Deutschland während der COVID-19-Pandemie*. [https://de.wikipedia.org/wiki/Proteste\\_in\\_Deutschland\\_w%C3%A4hrend\\_der\\_COVID-19-Pandemie](https://de.wikipedia.org/wiki/Proteste_in_Deutschland_w%C3%A4hrend_der_COVID-19-Pandemie). Accessed: 9 March 2021.

Wissenschaftlicher Beirat Corona Landesregierung Thüringen. 2020. Impulspapier 5: Pandemiemanagement in Schulen und Kindertageseinrichtungen, 27. September 2020.

ZDF 2020. *Buyx zur Corona-Warn-App. Ethikrat: Weniger Datenschutz wäre vertretbar*, 29.10.2020. <https://www.zdf.de/nachrichten/digitales/coronavirus-warnapp-datenschutz--kritik-100.html>. Accessed: 16 March 2021.

### **Pertinent Laws and Regulations**

Gesetz zum Schutz der Bevölkerung bei einer epidemischen Lage von nationaler Tragweite (Erstes Bevölkerungsschutzgesetz), 27. März 2020, BGBl. Teil I Nr. 14, 27.03.2020, S. 587.

Zweites Gesetz zum Schutz der Bevölkerung bei einer epidemischen Lage von nationaler Tragweite (Zweites Bevölkerungsschutzgesetz), 19. Mai 2020, BGBl. Teil I Nr. 23, 22.05.2020, S. 1018.

Drittes Gesetz zum Schutz der Bevölkerung bei einer epidemischen Lage von nationaler Tragweite (Drittes Bevölkerungsschutzgesetz), 18. November 2020, BGBl. Teil I Nr. 52, 18. November 2020, S. 2397.

### **German-Language Weblinks**

AGI. Arbeitsgemeinschaft Influenza, [influenza.rki.de](http://influenza.rki.de)

DIVI. Deutsche Interdisziplinäre Vereinigung für Intensiv- und Notfallmedizin, [www.divi.de](http://www.divi.de).

Expertenrat Corona, NRW, [www.land.nrw/de/expertenrat-corona](http://www.land.nrw/de/expertenrat-corona)

Grippe-web, [grippeweb.rki.de](http://grippeweb.rki.de)

Leopoldina. Nationale Akademie der Wissenschaften, [www.leopoldina.org/leopoldina-home/](http://www.leopoldina.org/leopoldina-home/).

NRZ. Nationales Referenzzentrum für Influenzaviren, [www.rki.de/DE/Content/Infekt/NRZ/Influenza/influenza\\_node.html](http://www.rki.de/DE/Content/Infekt/NRZ/Influenza/influenza_node.html).

Wissenschaftlicher Beirat Corona-Management Landesregierung Thüringen, [www.landesregierung-thueringen.de/regierung/wissenschaftlicher-beirat](http://www.landesregierung-thueringen.de/regierung/wissenschaftlicher-beirat).

## Annex

No.	Date of Meeting	Strategic Decisions
(1)	12.03.2020	<ul style="list-style-type: none"> <li>• Ban of events with more than 1,000 participants</li> <li>• Optional (falls to the Länder)               <ul style="list-style-type: none"> <li>- Postponement of the beginning of semester</li> <li>- Closing of kindergartens and schools</li> </ul> </li> </ul>
(2)	16.03.2020	<ul style="list-style-type: none"> <li>• Closing of               <ul style="list-style-type: none"> <li>- Bars, clubs, discos</li> <li>- Theaters, operas, concert halls, cinemas</li> <li>- Public/ private sports facilities (fitness centers, pools etc.), playgrounds etc.</li> <li>- Ban of gatherings in churches, mosques, synagogues etc.</li> </ul> </li> </ul>
(3)	22.03.2020	<p><b>First nation-wide lockdown</b></p> <ul style="list-style-type: none"> <li>• Demand by the government to maintain social distancing</li> <li>• Ban of meeting more than one person from another household in public</li> <li>• Closing of               <ul style="list-style-type: none"> <li>- Gastronomy (restaurants, cafés etc.)</li> <li>- Certain services (hairdressers, tattoo-studios etc.)</li> </ul> </li> </ul>
(4)	01.04.2020	<ul style="list-style-type: none"> <li>• Demand by the government to cancel private trips</li> </ul>
(5)	15.04.2020	<ul style="list-style-type: none"> <li>• Recommendation (by the Robert-Koch-Institute) to wear masks</li> <li>• Reopening of               <ul style="list-style-type: none"> <li>- Shops that are smaller than 800m<sup>2</sup></li> <li>- Certain other shops (e.g., bookstores)</li> </ul> </li> </ul>
(6)	30.04.2020	<ul style="list-style-type: none"> <li>• Permission of gatherings in churches, mosques, synagogues etc.</li> <li>• Reopening of cultural facilities (museums, zoos etc.) and playgrounds</li> </ul>
(7)	06.05.2020	<p><b>End of first nation-wide lockdown</b></p> <ul style="list-style-type: none"> <li>• Reopening of all shops</li> <li>• Optional (falls to the Länder): Reopening of               <ul style="list-style-type: none"> <li>- Gastronomy (restaurants, cafés etc.)</li> <li>- Theaters, operas, concert halls, cinemas</li> <li>- Bars, clubs, discos</li> <li>- Sports facilities (e.g. fitness centers, pools) etc.</li> </ul> </li> </ul>
(8)	17.06.2020	<ul style="list-style-type: none"> <li>• Reduction of the sales tax</li> </ul>
(9)	27.08.2020	<ul style="list-style-type: none"> <li>• Obligation to wear a mask wherever a distance of 1,5m from other people cannot be guaranteed</li> </ul>
(10)	29.09.2020	<ul style="list-style-type: none"> <li>• Introduction of the Hotspot-Strategy</li> </ul>
(11)	14.10.2020	<ul style="list-style-type: none"> <li>• Hotspot-Strategy               <ul style="list-style-type: none"> <li>- Incidence of 30: Obligation to wear a mask in public, curfews etc.</li> <li>- Incidence of 50: Restriction of contacts, earlier curfews etc.</li> </ul> </li> </ul>

No.	Date of Meeting	Strategic Decisions
(12)	28.10.2020	<b>Lockdown 'light'</b> <ul style="list-style-type: none"> <li>• Closing of <ul style="list-style-type: none"> <li>- Theaters, museums, operas, concert halls, exhibitions, cinemas</li> <li>- Sports facilities (including fitness centers and pools)</li> <li>- Gastronomy (restaurants, cafés etc.)</li> <li>- Certain services (e.g., hairdressers, tattoo-studios) etc.</li> </ul> </li> </ul>
(13)	16.11.2020	<ul style="list-style-type: none"> <li>• Hand-over of 15 FFP2-masks to vulnerable people</li> </ul>
(14)	25.11.2020	<ul style="list-style-type: none"> <li>• Extension of the measures</li> </ul>
(15)	02.12.2020	<ul style="list-style-type: none"> <li>• Extension of the measures</li> </ul>
(16)	13.12.2020	<b>Second nation-wide 'hard' lockdown</b> <ul style="list-style-type: none"> <li>• Exceptions of the constraints over Christmas</li> <li>• Restrictions on New Year's Eve</li> <li>• Assembly ban</li> <li>• Ban of selling pyrotechnics</li> </ul>

Source: Own compilation based on the decision documents and the information from the press conferences and media reports.



Chapter

09

International Comparative Analysis of COVID-19 Responses

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## Sweden and the COVID-19 Crisis

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of the Quality of Government Institute at the University of Gothenburg*

*Johannes Lindvall, Professor of Political Science at the University of Gothenburg*

## Chapter 9. Sweden and the COVID-19 Crisis

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### Abstract

This chapter examines Sweden's public-health policies in the twelve-month period between January 2020, when Swedish authorities took the first steps to prepare the country for the new epidemic, and December 2020, when Sweden found itself in the middle of the epidemic's second wave and new, more restrictive policies were being prepared and enacted. The chapter sets out to answer why Sweden adopted public-health policies that were markedly different from those of most other Western European states. It begins with a brief overview of the spread of the new coronavirus within Sweden. It then describes the public-health policies Sweden put in place during the COVID-19 crisis in 2020, before turning to an analysis of the social and political factors that explain Sweden's distinctive approach to public-health policy during the pandemic. We reject a few common interpretations of Sweden's distinctive policies. Our own analysis emphasizes continuity, not change, and suggests that long-standing views within the public-health community were allowed to prevail due to the autonomy Swedish civil servants typically enjoy as long as they act within their remits.

### 1. Introduction

When the new coronavirus SARS-CoV-2 began to spread across Europe in early 2020, Sweden adopted public-health policies that were markedly different from those of most other Western European states. Sweden's government, parliament, and public-health authorities refrained from the sorts of coercive policies that other countries put in place and did little to restrict the freedom of movement or the freedom of assembly. Preschools, elementary schools, and lower-secondary schools remained open throughout the spring, as did most restaurants and shops. Instead of resorting to coercion, in the spring Swedish authorities issued voluntary recommendations that were meant to limit the spread of the virus by persuading citizens to reduce their social interactions and protect themselves and others from the disease.



A few months later, in the autumn of 2020, Sweden, like most of Western Europe, was struck by a second wave of the COVID-19 epidemic, which proved to be even deadlier than the first. During this period, Sweden's government, parliament, and public-health authorities put in place policies that were more restrictive and that made the Swedish approach to the COVID-19 crisis more similar to that of other countries. By January 2021, the parliament had adopted new legislation that authorized the government to impose new restrictions on shopping centers and other businesses, and children in lower secondary schools were taught in their homes in many parts of the country.

This chapter examines Sweden's public-health policies in the twelve-month period between January 2020, when Swedish authorities took the first steps to prepare the country for the new epidemic, and December 2020, when Sweden found itself in the middle of the epidemic's second wave and new, more restrictive policies were being prepared and enacted.<sup>1</sup> We begin with a brief overview of the spread of the new coronavirus in Sweden, examining the number of known infected, the number of fatalities, and the pressures on the health-care system. In the section that follows, we describe the public-health policies Sweden put in place during the COVID-19 crisis in 2020. We then turn to an analysis of the social and political factors that explain Sweden's distinctive approach to public-health policy during the pandemic.

## 2. The COVID-19 Epidemic in Sweden

On January 16, 2020, the Public Health Agency of Sweden published the first news about COVID-19 on its website.<sup>2</sup> The agency informed the public about the discovery of a new coronavirus in Wuhan, China, but assessed the risk of the disease spreading to Sweden as "very low."<sup>3</sup> On January 31, however, the first COVID-19 case was detected in Sweden.<sup>4</sup> In February, the agency informed the Swedish public of new COVID-19 outbreaks in South Korea, Iran and Italy. At the end of the month, on February 25, the Public Health Agency changed its assessment of the risk of more cases in Sweden to "high" but the risk of community transmission of the disease within Sweden was still seen as

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1 The findings for the first six months of 2020 are reported and discussed in Dahlström and Lindvall (2021). This chapter covers all of 2020 and therefore both the first and the second wave of the pandemic.

2 The Public Health Agency of Sweden, January 16, 2020: <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/januari/nytt-coronavirus-upptackt-i-kina/>. For the sake of simplicity, we use the names coronavirus, SARS-CoV-2 and COVID-19 throughout, although other terms were used before the virus and the disease got their current official names.

3 The Public Health Agency of Sweden makes risk assessments on a five-point scale with the risk levels *very low*, *low*, *moderate*, *high* and *very high*.

4 The Public Health Agency of Sweden, January 31, 2020, <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/januari/folkhalsomyndigheten-foreslar-att-nytt-coronavirus-tas-upp-i-smittskyddslagen/>.

“low.”<sup>5</sup> The next day, the second Swedish COVID-19 case was confirmed, and in the following days further cases were reported. In the beginning of March, the agency changed its risk assessment again. It now suggested that there was a “very high” risk of more cases and a “moderate” risk of community transmission within Sweden. On March 10, finally, the risk assessment for community transmission of the new coronavirus within Sweden was raised to the highest level, “very high.”<sup>6</sup>

Since the rate of testing has varied greatly over time -- with many more tests being performed in the autumn than in the spring -- it is difficult to compare the infection rates during different phases of the COVID-19 crisis in Sweden. One must keep this in mind when considering Figure 9-1, which shows how many new coronavirus infections were reported to the Public Health Agency of Sweden in that year, beginning with the first case and ending on December 31, 2020: the figure underestimates the number of infected in the spring, since so few tests were performed then compared with the autumn (see Figure 9-2, which plots the number of tests that were performed per week between late January and the end of December). Nevertheless, the figure shows clearly that there were two distinct waves of the epidemic, one beginning in late March and the other beginning in the middle of October. The two waves are even more clearly visible in Figure 9-3, which describes the number of new COVID-19 patients that were admitted to Swedish intensive-care units per day during 2020, and in Figure 9-4, which describes the number of individuals who died with COVID-19 each day.<sup>7</sup> Taken together, these figures show that the virus spread quickly in the month of March 2020, resulting in high morbidity and high mortality at the end of March and in April; the infection rates and the death rates then fell slowly but surely during the spring, summer, and early autumn of 2020, until the rate of infection picked up again in the middle of October, resulting once more in high morbidity and high mortality in November and December. By the end of 2020, more than 10,000 individuals had died with COVID-19. Since Sweden has a population of just over 10 million, this meant that the total number of deaths exceeded 0.1 percent of Sweden’s population.

The death rate in Sweden was significantly higher both in the spring and in the autumn of 2020 than in Sweden's closest neighbors, Denmark, Finland, and Norway. Starting in the spring and summer of 2020, these differences between the death rate in Sweden and the death rates in the neighboring countries were at the center of a major political debate within Sweden. This political debate was preceded by an intense debate among doctors and public-health experts, where some scholars at

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5 The Public Health Agency of Sweden, February 24, 2020, <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/februari/information-till-resenarer-om-det-nya-coronaviruset/>.

6 The Public Health Agency of Sweden, March 10, 2020, <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/mars/flera-tecken-pa-samhallsspridning-av-covid-19-i-sverige/>.

7 Note that the information in Figure 4 refers to people who were ill with COVID-19 when they died, which does not necessarily mean they died *of* COVID-19.

Swedish universities were very critical of the Public Health Agency of Sweden and of the methods it relied on. The critics wanted the government and the state authorities to put in place more coercive and stringent policies to halt the spread of the new coronavirus.<sup>8</sup>

As we will discuss in more detail in the next section, it is instructive to distinguish among four phases of the COVID-19 epidemic in 2020: a phase with no (detected) community transmission between January and mid-March, a phase with high community transmission from mid-March until early June, a phase with low community transmission between early June and the middle of October, and, finally, a phase with high community transmission from late October through December. We will now proceed to examine the policies Sweden's government, parliament, and public authorities put in place during these different phases of the pandemic.<sup>9</sup>

### 3. Public-Health Policies in Sweden During the COVID-19 Pandemic

Sweden's epidemic-control policy during the COVID-19 crisis has been markedly different from that of other Western European countries. With a few important exceptions, Sweden's government, parliament, and administrative authorities have refrained from introducing coercive policy measures that interfere with the lives of individuals and the activities of private-sector companies and other organizations. The Public Health Agency of Sweden emphasized early on during the crisis that their policy for epidemic control was based on voluntarism and on the idea that a well-informed and motivated public can and will take responsible decisions. In the view of the agency, a policy based on voluntarism is generally more effective than coercive measures.<sup>10</sup> The Swedish epidemic-control policy is therefore based on recommendations and general advice from the relevant authorities.<sup>11</sup> It is

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8 See, for example, Marcus Carlsson et al., "Folkhälsomyndigheten har misslyckats – nu måste politikerna gripa in", DN Debatt, 14 April 2020.

9 Throughout the pandemic, the official goals of the Swedish epidemic-control policy were to (1) limit the spread of infection in the country; (2) secure resources for health care; (3) limit the impact on socially important activities; (4) mitigate the consequences for citizens and businesses; (5) mitigate people's concerns, among other things through information, and (6) take the right actions at the right time. See <https://www.regeringen.se/regeringens-politik/regeringens-arbete-med-anledning-av-nya-coronaviruset/>.

10 The Public Health Agency of Sweden, February 5, 2020, <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/februari/information-om-karantan/>.

11 The Public Health Agency of Sweden differs between *general advice* and *recommendations*. A general advice is a specification of what the public and various organizations can do to comply with laws, executive orders and regulations. A general advice is not binding in itself but is linked to a binding rule. A recommendation is based on existing knowledge without being linked to binding regulations. For a discussion about this distinction from constitutional and administrative law perspectives, see Wenander (2020).

also primarily such recommendations and general advice that have affected people's lives during the COVID-19 epidemic, not strict rules and regulations.<sup>12</sup>

As we have already mentioned, Swedish crisis management during the COVID-19 epidemic in 2020 can be divided into four different phases: (1) a phase with no (detected) community transmission, from January to mid-March; (2) a phase with high community transmission, from mid-March until early June; (3) a phase with low community transmission, from early June to late October; (4) and a phase with high community transmission, from late October through December.<sup>13</sup>

From January to mid-March, the goal of Swedish public-health policy was to identify all cases of COVID-19 in Sweden. COVID-19 cases were identified by testing individuals who showed symptoms after traveling in areas with documented outbreaks of the disease and people who had been in contact with individuals with confirmed COVID-19. However, there was no quarantine of individuals who had been in areas with documented community transmission of COVID-19. People who returned from affected areas were instead asked to pay attention to symptoms themselves, contact the health-care advice platform *1177 Vårdguiden* for further assessment and stay in their homes if they had symptoms.<sup>14</sup> The strategy was based on the assumption that individuals without symptoms were not infectious and that there was no community transmission of COVID-19 in Sweden. Until mid-March, preparations were also made for the possibility that more drastic measures might be required. In early February, COVID-19 was added to the list of dangerous diseases in the Swedish Communicable Diseases Act (*Smittskyddslagen*, SFS 2004:168), which made it possible for the coercive measures that law allows to be used in COVID-19 cases.<sup>15</sup> The Public Health Agency of Sweden turned to the government with this proposal on January 31, 2020, and the government took the decision at a special meeting of the cabinet on February 1. In the beginning of March, travel restrictions were also

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12 "Folkhälsomyndighetens föreskrifter och allmänna råd om allas ansvar att förhindra smitta av covid-19 m.m.", in *Gemensamma författningssamlingen avseende hälso- och sjukvård, socialtjänst, läkemedel, folkhälsa m.m.* HSLF-FS 2020:12. the National Board of Health and Welfare, April 16, 2020.

13 The official goals of the Swedish epidemic control policy have the entire period, according to the government, been to (1) limit the spread of infection in the country; (2) securing resources for health care; (3) limit the impact on socially important activities; (4) mitigate the consequences for citizens and businesses; (5) mitigate people's concerns, among other things through information, and (6) take the right action at the right time. See <https://www.regeringen.se/regeringens-politik/regeringens-arbete-med-anledning-av-nya-coronaviruset/>.

14 The Public Health Agency of Sweden February 5; the Public Health Agency of Sweden February 24; the Public Health Agency of Sweden, March 9, 2020, see <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/mars/folkhalsomyndigheten-rekommenderar-provtagning-av-sjuka-som-varit-i-tyrolen/>. *1177 Vårdguiden* is a platform for information and advice on health and care in Sweden. Individuals can, among other things, use digital services or call for health care advice. *1177 Vårdguiden* is a collaboration between Sweden's 21 regions.

15 The ordinance (2020:20) says that the provisions of the Communicable Diseases Act (2004: 168) on generally dangerous and socially dangerous diseases shall be applied to 2019-nCoV infections.

introduced for certain countries.<sup>16</sup> On March 10, the Public Health Agency of Sweden announced that they saw signs of community transmission of the COVID-19 infection in the Stockholm and Västra Götaland regions and that there was now a “very high” risk of an outbreak with endemic community transmission of the disease within Sweden. Two days later, public gatherings were limited to a maximum of 500 people.

On 13 March, the day after restrictions on public gatherings were introduced, the Public Health Agency of Sweden announced that the epidemic-control policy had entered a new phase.<sup>17</sup> From mid-March -- when infection rates in Sweden were already very high -- the government, the Public Health Agency of Sweden and the National Board of Health and Welfare (*Socialstyrelsen*) took a number of new decisions and issued recommendations and general advice that had a strong impact on people's lives as well as on the activities of private companies and other organizations. In the report “Folkhälsomyndighetens föreskrifter och allmänna råd om allas ansvar att förhindra smitta av covid-19 m.m.” from the Public Health Agency of Sweden, there were for example several pieces of general advice that severely limited the activities of agencies, companies, municipalities, regions, associations and religious organizations. The general advice included restrictions on the number of people on the premises to avoid crowds, the suspension of physical meetings, calls to to work from home and to refrain from social events and travel.<sup>18</sup> Moreover, universities, university colleges and upper secondary schools (*gymnasier*) were advised to introduce online teaching, and there were more restrictions on public gatherings (a maximum of 50 people), and on restaurants, bars and cafés. It is from this point that one could reasonably speak of a “lockdown” of Swedish society, although most of the measures that were taken remained voluntary.<sup>19</sup>

With a declining number of new patients and falling numbers of deaths with COVID-19 (Figures 9-3 and 9-4), some of the restrictions were eased during the summer and in the first half of the autumn of 2020. In this period, we saw the third phase of the Swedish policy response. The recommendation of online teaching for upper secondary schools, for example, was lifted in June, and though things didn't

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16 The Public Health Agency of Sweden, March 6, 2020, <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/mars/folkhalsomyndigheten-har-rekommenderat-avradan-fran-resor-till-norra-italien/>; The Public Health Agency of Sweden, March 9, 2020, <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/mars/folkhalsomyndigheten-rekommenderar-provtagning-av-sjuka-som-varit-i-tyrolen/>.

17 The Public Health Agency of Sweden, March 13, 2020, <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/mars/ny-fas-kraver-nya-insatser-mot-covid-19/>. Unlike the authorities in Norway, the Public Health Agency of Sweden did not at this time report on the various strategies the agency may have considered, which has been criticized in the public discussion. Concerning Norway see Utbrudsgruppen ved Folkehelseinstituttet, COVID-19-epidemien: risikovurdering og respons i Norge, version 3, March 12, 2020. For example of criticism in the Swedish public debate see Olle Häggström, Olof Johansson Stenman, Joacim Rocklöv, Stefan Schubert och Markus Stoor, ”Alternativ coronastrategi för Sverige kan rädda liv”, DN Debatt, Dagens Nyheter, April 30, 2020.

18 “Folkhälsomyndighetens föreskrifter och allmänna råd om allas ansvar att förhindra smitta av covid-19 m.m.”

19 For a good overview of Sweden's early response see Ludvigsson (2020).

quite go back to normal, most students and university students started the autumn semester on site in their schools.<sup>20</sup> The recommendation against non-necessary travel was also lifted in June. Moreover, the authorities withdrew the recommendation that people over the age of 70 should avoid social gatherings, as well as the ban on visits to all nursing homes in the country, in the autumn of 2020.<sup>21</sup>

The Public Health Agency prepared for an autumn with locally concentrated outbursts of COVID-19, with testing, tracing, monitoring and communication as the main measures taken against such local transmission (individual responsibility, social distancing, and hand hygiene were, however, always the backbone of the Swedish strategy).<sup>22</sup> In line with this type of reasoning, the agency opened up for the possibility of making stricter recommendations locally during a limited time.<sup>23</sup> When the cases started increasing in October (see Figures 9-1, 9-3, and 9-4), the Public Health Agency of Sweden, in collaboration with regional-level authorities, started implementing this strategy, first in Uppsala on October 20, then in Skåne on October 27, followed by Stockholm, Västra Götaland, and Östergötland on October 29.<sup>24</sup> Within just over a week in late October 2020, the most populated areas in Sweden were again covered by strict recommendations, sometimes even stricter than during the spring.

These regional actions took the Swedish policy response into its fourth phase. The government and the authorities responded to the high and increasing transmission of the virus that causes COVID-19 with more restrictions, also on the national level. In the beginning of December, the Public Health Agency again recommended online teaching for upper secondary schools (gymnasium), and in mid-December the agency made recommendations restricting traveling, social contacts outside the household, sports, shopping, and social contacts with elder people. In November and December, new and stricter recommendations and regulations for restaurants, bars and cafés were implemented. For example, the Public Health Agency of Sweden advised against seating more than four guests per table, and the government issued an ordinance banning alcohol after a certain hour (at first, alcohol was not allowed in restaurants, bars, and cafés between 10 pm and 11 am, later the rule was changed to 8

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20 See <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/maj/gymnasieskolorna-kan-oppna-till-hostterminen/>.

21 See <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/september/alla-har-ett-stort-ansvar-for-att-minimera-smittspridning-nar-besoksforbudet-upphor/> and <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/oktober/viktigt-att-alla-tar-ansvar-nar-allmanna-rad-andras-for-personer-som-ar-70-ar-och-aldre/>.

22 See <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/september/insatser-mot-nya-utbrott-av-covid-19/>.

23 See <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/oktober/lokala-allmanna-rad-vid-utbrott-av-covid-19/>.

24 See <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/oktober/beslut-om-skarpta-allmanna-rad-i-uppsala-lan/>. <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/oktober/beslut-om-skarpta-allmanna-rad-i-skane-lan/>. <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/oktober/beslut-om-skarpta-allmanna-rad-i-stockholms-lan-vastra-gotalands-lan-och-ostergotlands-lan/>.

pm--11 am).<sup>25</sup> In the autumn of 2020, the government, its agencies and the regions also prepared for vaccinations against COVID-19 to start in January of 2021. This process started already in late August but intensified later in the autumn.<sup>26</sup>

Since the Swedish authorities emphasized voluntarism throughout all four phases of the COVID-19 crisis, it is important to know if the general public was aware of and followed the recommendations and advice of the authorities. The Swedish Civil Contingencies Agency conducted surveys from 21 March onward to assess behavioral changes among the general public. During the first half of 2020, virtually all respondents (99 percent) stated that they had changed their behavior in some way. For example, the vast majority stated that they followed the Public Health Agency's advice to wash their hands more thoroughly (86 per cent) and to keep a greater distance from others (85 per cent).<sup>27</sup> After 20 August 2020, the Swedish Civil Contingencies Agency also used a new survey item to assess whether the general public had enough information to comply with recommendations. The vast majority of the respondents answered that they were knowledgeable enough. In August and September about 80 percent answered that they were well-informed about how to behave in public and private gatherings. About 70 percent said the same thing concerning testing and vaccinations, and about 60 percent stated they knew enough to make informed choices in their working lives, in educational contexts, and when they used public transportation.<sup>28</sup> During the fourth phase of the crisis, when specific local and regional actions were taken, the Swedish Civil Contingencies Agency asked respondents if they had enough information about local restrictions and recommendations, and 86 percent answered that they were fairly or very well-informed.<sup>29</sup> Finally, the Swedish company Telia has made available aggregate cell-phone data on traveling patterns within Sweden, and the data show a decline of 20 percent of daily trips within Sweden.<sup>30</sup> Taken together, these pieces of evidence suggest that the Swedish general public was aware of and followed recommendations and advice from the authorities, but it is difficult to

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25 Förordning (2020:956) om tillfälligt förbud mot servering av alkohol, <https://www.folkhalsomyndigheten.se/smittykydd-beredskap/utbrott/aktuella-utbrott/covid-19/skydda-dig-och-andra/rekommendationer-for-att-minska-spridningen-av-covid-19/>, <https://www.folkhalsomyndigheten.se/contentassets/ea9f45d2562d42d9957b8bf08e2bc3e6/hslf-fs-202091.pdf>, and <https://www.regeringen.se/pressmeddelanden/2020/11/forbud-mot-alkoholforsaljning-fran-klockan-22/>.

26 See <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/augusti/delredovisning-for-nationell-plan-for-vaccinationer-mot-covid-19/> and <https://www.folkhalsomyndigheten.se/nyheter-och-press/nyhetsarkiv/2020/november/start-for-vaccinationer-mot-covid-19-tidigast-i-januari-2021/>.

27 Kantar Sifo, *Rapport om förtroende, oro och beteende under coronakrisen, 21 mars–31 maj, Rapport till MSB, 2020-05-31*. Concerning public trust during the COVID-19 epidemic, see also Esaiasson et al. (2020).

28 Kantar Sifo, *Rapport om förtroende, oro och beteende under coronakrisen, 21 mars–24 augusti, Rapport till MSB, 2020-08-24*; Kantar Sifo, *Rapport om förtroende, oro och beteende under coronakrisen, 21 mars–28 september, Rapport till MSB, 2020-09-28*.

29 Kantar Sifo, *Rapport om förtroende, oro och beteende under coronakrisen. December, Rapport till MSB, 2021-01-10*.

30 See <https://www.telia.se/privat/aktuellt/hemma-i-folkknatet/covid-19-mobilitetsanalys>.



determine what effects these behavioral changes had, and how much effect more stringent rules would have had in comparison.

It is also worth mentioning a few things that didn't happen in Sweden in 2020. Preschools and primary schools did not close, nor did lower secondary schools (although they were closed in January 2021 in many parts of the country). No general recommendations regarding face masks on public transports or in public places were issued. And although both the Ministry for Foreign Affairs and the Public Health Agency of Sweden issued travel advice recommending Swedes to limit travel, no bans on traveling within the country, or on leaving the country, were introduced. In addition, neither health checks nor quarantine were required when entering Sweden, and no policy of confinement was implemented.

Meanwhile, the Swedish parliament and the Swedish government have taken a number of steps to mitigate the economic damage that is caused by the COVID-19 epidemic.<sup>31</sup> The single most costly measure was the new support program for “short-term work” that was introduced in the spring of 2020. Through a government decree and then a new law that applied retroactively from mid-March 2020 (SFS 2020: 375), it became possible for companies during the COVID crisis to apply for funding for short-term leave for their staff amounting to up to 60 percent of working hours, a percentage that was later increased to 80 percent during the months of May, June and July. Although firms have had this possibility to lay off their staff temporarily, with funding from the government, unemployment has increased. Both the average benefit level in the unemployment insurance system and the cap on high benefits have been raised, and it has become easier for individual employees to qualify for unemployment insurance. Meanwhile, the qualifying day in the health insurance system – a rule that says there is no sick pay for the first day away from work – has been removed. One reason for that rule change was that the government wanted to give employees incentives to stay at home if they had mild symptoms of illness. In addition, the government and the parliament have taken a number of steps to protect Swedish companies directly from the consequences of the economic downturn. The second most costly new measure in 2020, after the short-term work program, was a form of direct support to Swedish companies, which was based on the estimated reductions in their turnover. The third most costly measure was a temporary reduction in social security contributions (which are paid by employers in Sweden). The government has also temporarily taken over the responsibility for sick pay, which is normally paid by the employer in the beginning of a period of illness for an employee.

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31 This overview is based on Finanspolitiska rådet (2020).



## 4. Explaining Sweden's Response to the COVID-19 Crisis

In this section, we will discuss the social and political context in which Sweden's distinctive public-health policies during the COVID-19 crisis were adopted and implemented. We concentrate on those characteristics of Swedish society and the Swedish political system that other scholars and political commentators in Sweden and abroad have pointed to when they have sought to explain the choices Sweden's government, parliament, and public-health authorities made during the pandemic.

### 4.1. Experts and Politicians

One important difference between Sweden's approach to the COVID-19 pandemic and that of other, comparable countries in Western Europe is that at least in the beginning of the crisis, many of the operative decisions were made by experts and bureaucrats in public agencies, not by elected political leaders in the government and in parliament. The willingness of Sweden's political leadership to delegate public-health policymaking to administrative authorities -- particularly in the beginning of the crisis -- has been highlighted by Andersson and Aylott (2020), among others, and it was quite clear to anyone who followed Swedish politics in the spring of 2020: the Swedish government trusted the judgment of the public-health authorities and waited for advice from the bureaucracy before introducing new legislation or government decrees (Andersson and Aylott 2020).

For foreign observers, the relationship between the government and the bureaucracy in Sweden may seem peculiar. It is, for example, different from the relationship between the government and the bureaucracy in Sweden's neighbors Denmark, Norway, and Germany. The Swedish Government Offices, which comprise all ministries, are small and have limited investigative resources compared with government ministries in these other neighboring countries. Swedish administrative authorities also enjoy more operational independence than public agencies in most other democracies, and their independence is protected by the constitution (Ahlbäck Öberg and Wockelberg 2016 and Pierre 2004). In 2020, the Government Offices consisted of the Prime Minister's Office, the Office for Administrative Affairs, and eleven ministries. The Prime Minister's Office is headed by the Prime Minister and each ministry is headed by a minister. Numerous agencies, such as the Public Health Agency, the National Board of Health and Welfare and the Swedish Civil Contingencies Agency (*Myndigheten för samhällsskydd och beredskap*), sort under each ministry. In January 2020, there were a total of 341 such agencies. Swedish agencies are quite different from each other, and they include everything from relatively small committees with narrow and specific remits to county administrative boards, large administrative agencies, and universities (Dahlström and Holmgren 2019). In 2020, there were approximately 229,000 annual full-time equivalents employed at these authorities, which can be compared with the approximately 4,600 people that are employed within the Government Offices

(i.e. at the ministries themselves). The majority of the resources of the administrative state are thus allocated to the public agencies.<sup>32</sup>

According to Swedish administrative law and traditions, bureaucratic agencies make independent assessments that are based on the best available knowledge and the government listens to the experts at the agencies. In international comparison, what is perhaps the most striking is that Swedish ministers are prohibited by the constitution, the Instrument of Government, from giving instructions to agencies in individual cases (Chapter 12, Section 2). A commission of inquiry, *Styrtredningen*, summarized the Swedish administrative model as follows: “On the one hand, politicians decide and the administration executes, on the other hand, the administration must talk back with a clear voice” (SOU 2007:75, p. 13).

But bureaucratic agencies in Sweden can nevertheless be controlled indirectly, through legislation, executive orders, and written directives. The government's most important formal control instruments are the instructions that authorize each agency's operations, budgets, and yearly spending decisions. For each agency, the government writes a formal instruction that describes the agency's mission and organization. The government is free to change these instructions. The government can also change the budgets of individual agencies, even if it is the Swedish parliament that decides on the state budget. In the yearly spending instructions, written in connection with the budget, the government also gives detailed instructions to each agency on how the funds are to be used. In these spending instructions and in other government decisions, special assignments can be given to an agency (for example, to increase testing, or coordinate the purchase of protective equipment). Moreover, the government can steer agencies by appointing heads of agencies, although it is constrained by the Instrument of Government's provisions on meritocratic recruitment (Chapter 12, Section 5), and Swedish agency heads have employment contracts with strong employment security for a fixed term. In addition to these formal control instruments, there are informal contacts between the Government Offices and the agencies (Jacobsson 1984, Niemann 2013). These informal contacts are an important part of the governance structure. Ministers and officials at the Government Offices are not prohibited from having informal contacts with agencies under their own ministry for the purpose of obtaining information or achieving certain results -- as long as this does not affect decisions in individual cases, which would be a violation of constitutional law. Such informal contacts are made often, and they enhance the ability of the government to steer public authorities, even in a situation such as the COVID-19 crisis (Jacobsson and Sundström 2016, Pierre 2020).

The constitutionally protected independence of administrative agencies means specifically that the parliament or the government may not “decide how an administrative agency should decide in

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<sup>32</sup> The Government Offices, *Regeringskansliets årsbok 2019*. Stockholm: Regeringskansliet 2019. The Swedish Agency for Public Management, *Statsförvaltningen i korthet*. Stockholm: Statskontoret 2020.

a particular case concerning the exercise of authority vis-à-vis an individual or a municipality or concerning the application of law” (Chapter 12, Section 2). But as we’ve just discussed, this doesn’t mean that the government cannot control public agencies at all: it has several instruments that they can use to this end. It would therefore have been entirely possible for the government and the parliament to adopt policies that were more similar to those adopted in other democracies even if the public-health authorities favored a voluntarist approach. Most importantly, and as we will discuss in more detail below, it would have been constitutionally possible for the parliament to enact new laws, and it would have been legally possible for the government to introduce more far-reaching coercive policies within current legislation since the parliament authorized the government to do so via temporary enabling legislation.

But even if these things would have been formally possible, Sweden’s long tradition of administrative autonomy nevertheless helps to explain the Swedish response to COVID-19, especially in the early stages of the pandemic in the spring of 2020. Since the Swedish government usually lets administrative agencies act autonomously within the framework of existing legislation and regulations, the prevailing views within the public-health authorities, especially in the Public Health Agency, did much to shape policy in 2020.

## 4.2. Planning for a Pandemic

Since many of the operative decisions during the COVID-19 pandemic were made by experts and bureaucrats in public agencies, particularly the Public Health Agency of Sweden, it is important to consider the contingency plans that the Public Health Agency had drawn up for a possible global outbreak of a new infectious disease. In 2019 -- just before the outbreak of the COVID-19 epidemic -- the Public Health Agency published a report called “Pandemic Preparedness,” which described the agency’s views on appropriate policy during a pandemic (especially an influenza pandemic) and the demands such an event would place on Swedish society. According to that report, the main goals of Swedish policy during a pandemic should be both to “minimize mortality and morbidity in the population” and to “minimize other negative consequences for the individual and society.” The report emphasizes in particular the importance of “trying to reduce the spread of infection and delaying the course of the pandemic” so that “the curve is flattened” to reduce “the burden on the healthcare system and society” and to increase “preparation time” before a vaccine becomes available. Social distancing is listed as one possible measure that can be used to achieve these goals. The idea of curbing the spread of a disease in order to “flatten the curve” was thus an integral part of Swedish policy.<sup>33</sup>

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33 “Pandemiberedskap. Hur vi förbereder oss – ett kunskapsunderlag.” Stockholm: Folkhälsomyndigheten 2019 (19074-1).

But already before the crisis, one notes a certain skepticism on the part of the Public Health Agency concerning the appropriateness of far-reaching “non-medical” measures during a pandemic. On the one hand, the 2019 report emphasizes that in the early stages of a pandemic, there are few opportunities to limit the spread of infection and care for the sick medically, which means that the only “measures that exist to reduce a pandemic’s impact on society are so-called non-medical measures,” including “hand hygiene, coughing and sneezing etiquette, voluntary isolation in case of illness, avoiding public gatherings and public events, and closing schools.” On the other hand, the report emphasizes that the scholarly literature doesn’t show conclusively that such policies work. Among other things, the report cites a WHO study suggesting that the evidence for the effectiveness of non-medical measures is low. In addition, the report emphasizes that non-medical measures “may have a negative impact on the functionality of society,” so the political response to a pandemic must be “balanced.” The Public Health Agency’s assessment in 2019 was that the suitability of non-medical measures depended on “the severity, spread and societal context of a pandemic.”

When the Public Health Agency and the Swedish government explained the premises of Sweden’s COVID-19 strategy in the spring of 2020, they typically referred to this balancing act, taking into account both the expected effect of restrictive measures on the spread of infection and the broader social and economic costs associated with lockdowns. The decision to keep elementary, primary, and lower secondary schools open was justified in two ways, for example. On the one hand, the government emphasized that the spread of infection among children was low. On the other hand, the government noted that the social costs would be high if schools were closed, especially since the healthcare system would suffer if many employees were forced to stay home to take care of small children.<sup>34</sup> In June, Sweden’s state epidemiologist, Anders Tegnell, said on the radio that in the beginning of the COVID-19 epidemic, he had assumed that other countries would do much as Sweden did, since he believed that Sweden’s strategy was consistent with the prevailing ideas in the international public-health community.<sup>35</sup> These prevailing views within the public-health bureaucracy, combined with the deference that the government in Sweden typically extends to bureaucratic expertise, help to explain the Swedish policy response.

With regard to organizational and administrative issues during a pandemic, the Public Health Agency distinguished in its planning before the COVID-19 crisis among the roles played by international organizations, the government, state authorities, the regions, and the municipalities. Judging from the

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34 See Sveriges Television, “Därför vill Folkhälsomyndigheten inte stänga grundskolor”, 18 March 2020 (<https://www.svt.se/nyheter/vetenskap/darfor-vill-folkhalsomyndigheten-inte-stanga-grundskolor>) and Skolvärlden, “Beskedet: Anna Ekström stänger inga skolor”, 12 March 2020 (<https://skolvärlden.se/artiklar/beskedet-anna-ekstrom-st%C3%A4nger-inga-skolor>).

35 See <https://sverigesradio.se/avsnitt/1518764>.

2019 report, the assumption was that the government would have a limited role, namely to “ensure access to vaccines and antivirals,” to decide whether a disease should be “classified as dangerous” for the purposes of the provisions of the Communicable Diseases Act, and to decide on an “antiviral storage strategy.” The Public Health Agency itself was assumed to have many different tasks, including the coordination of pandemic preparedness at the national level. The National Board of Health and Welfare was expected to oversee and coordinate emergency health-care measures regionally and locally and issue regulations on the use of pharmaceuticals. The Swedish Civil Contingencies Agency was expected to coordinate various actors at the national level and to monitor the impact of a pandemic on society as a whole. Municipalities, regions, and regional infection-control physicians were expected to have a number of more operational tasks.

The Swedish approach to COVID-19 was thus in most respects consistent with the ideas that informed prior planning for a pandemic outbreak of a new communicable disease. In other words, what needs to be explained concerning Sweden’s distinctive approach is not a change in policy, but the fact that Swedish public authorities -- as well as the government and parliament -- did *not* change policies, even if other countries did.

Toward the end of 2020, in what we have referred to as the fourth phase of the Swedish policy response to COVID-19, both the government, parliament, the national public-health authorities, and regional decision-makers put in place more restrictions than in the spring, affecting, for instance, lower secondary school students, restaurants and bars, and shops (which were instructed to limit the number of customers they admitted and to take other precautions). It is difficult to assess whether the change in policy came at the initiative of the government or if the views of the government, the national public-health authorities, and local decision-makers co-evolved, but it seems clear that the consequence of this reorientation was to bring Swedish COVID-19 policies closer to the Western European mainstream.

### **4.3. Laws and Lawmaking**

One proximate cause of Sweden’s choice to refrain from introducing new coercive measures in 2020, in addition to the prevailing views within the public-health bureaucracy and the deference that is usually afforded to administrative agencies in the Swedish political system, is that existing public-health legislation was based on a voluntarist approach. Moreover, there was little legal basis, at least in the early stages of the pandemic, for a nationwide lockdown, for restrictions of the freedom of movement, or for other sorts of new restrictions on private individuals and organizations.

Swedish policies concerning the spread of infectious diseases are primarily governed by the Swedish Communicable Diseases Act. The 2004 Communicable Diseases Act, like previous public-

health legislation, affords regional infection-control physicians with far-reaching powers when it comes to local coercive measures, such as quarantine, isolation, and restrictions on travel.<sup>36</sup> But the Communicable Diseases Act is also based on the idea that individual citizens bear a great deal of personal responsibility for what happens during an epidemic. The second chapter of the Act begins, for example, by stating that “Everyone shall, by paying attention and taking reasonable precautions, contribute to preventing the spread of communicable diseases.” The emphasis on voluntariness in Sweden's COVID-19 policies in the spring of 2020 was thus nothing new -- Swedish legislation in the public-health domain has long been based on similar principles.<sup>37</sup> It is interesting to note that the provisions of the Communicable Diseases Act on extraordinary disease-control measures at the local and regional levels were not in fact applied during the COVID-19 crisis in 2020: since the government declared early on that COVID-19 is a socially dangerous disease, these more coercive provisions of the Communicable Diseases Act could in principle have been applied, but they were not.<sup>38</sup>

Most of the coercive policies that were adopted and implemented during the COVID-19 epidemic were based on other pieces of legislation, primarily the Public Order Act, which regulates order and safety at public gatherings and public events (SFS 1993:1617). Most importantly, a ban on public gatherings and public events with more than fifty participants was announced in the spring of 2020 (SFS 2020:114). The fact that the Public Order Act is only applicable at public gatherings and public events is an important part of the explanation for the often-noted discrepancy between how different domains of Swedish society were affected by the restrictions that were introduced during the COVID-19 epidemic. For example, more than fifty people could gather in a shop, but not at a theater or at a sports event.<sup>39</sup> There were also a few that were introduced during the COVID-19 epidemic that were based on laws other than the Public Order Act. For example, in late March, a national ban on visits to elderly-care homes was announced, which was in turn based on a provision of the Social Services Act (SFS 2001:453).<sup>40</sup> Entirely new legislation was also adopted in the spring of 2020, including a new law on temporary infection-control measures at restaurants. But most of the new laws that were adopted during this period dealt with the economic and social fallout of the COVID-19 epidemic, not with preventing the spread of the infection. For example, amendments were introduced in the Swedish Companies Act and in other laws on organizations and associations that made it possible to conduct

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36 See especially 8–12 § in Chapter 3 in the Communicable Diseases Act.

37 See Olof Pettersson, “Sverige valde coronastrategi med 2004 års smittskyddslag”, *DN Debatt* 9 June 2020.

38 See SFS 2020:20, later approved by parliament.

39 “Förordning om förbud mot att hålla allmänna sammankomster och offentliga tillställningar” (2020:114). For a discussion, see Wenander (2020).

40 Förordning (2020:163) om tillfälligt förbud mot besök i särskilda boendeformer för äldre för att förhindra spridningen av sjukdomen covid-19.

meetings in a safe manner. Some of the economic policy measures that were introduced during the crisis also resulted in new legislation.<sup>41</sup>

It would be wrong to explain Sweden's distinctive policies during the COVID-19 pandemic with the absence of legislation that authorized the government and the public-health authorities to introduce more coercive and stringent measures. It would have been entirely possible for the government to introduce new legislation that provided a legal basis for such a strategy. Indeed, the rapid adoption of legislation that allowed private companies and other organizations to adapt to the pandemic demonstrates that the capacity for immediate political action existed. Perhaps even more importantly, in April 2020, the parliament passed a new law that temporarily gave the cabinet the authority to adopt more drastic policies by government decree in connection with the COVID-19 epidemic. To be more specific, a temporary addition was made to Chapter 9 of the Communicable Diseases Act, which applied until July 2020 (SFS 2020:241) and which enabled the Government to "issue special regulations on the relationship between individuals and the government that place demands for individuals or otherwise relate to interventions in their personal or financial circumstances, if it is necessary to prevent the spread of the virus that causes COVID-19 and it is not possible to wait for the Riksdag's approval." The measures that the government was authorized to implement included "temporary closures of shopping centers," "temporary closures of social and cultural meeting places, such as bars, nightclubs, restaurants, cafeterias, gyms and sports facilities, libraries, museums and public meeting places" and "temporary closures or other restrictions of ... ports, airports, or bus stations or railway stations." But even if this temporary law existed, the government did not take the opportunity that it afforded to put in place more restrictive disease-control measures in 2020 (Jonsson Cornell 2020). In the beginning of 2021, however, during the fourth phase of the pandemic, the Swedish parliament adopted a similar law, which again authorized the government to regulate private companies and other organizations, and this time the government did put in place more stringent rules.

The work of parliament continued uninterrupted during 2020. On March 16, 2020, the group leaders of Sweden's eight parliamentary parties entered into an agreement on reducing the number of parliamentarians who participated in the votes in parliament, the Riksdag, to 55, in order to "ensure that the Riksdag can fulfill its tasks even in the event of a large number of members of the Riksdag being prevented from participating in the work of the Riksdag." It is worth noting that this institutional change had the form of a voluntary, reciprocal agreement among the group leaders of the parliamentary parties; it was thus not a question of a formal change in the parliament's rules or in other

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41 Lag (2020:526) om tillfälliga smittskyddsåtgärder på serveringsställen. Lag (2020:198) om tillfälliga undantag för att underlätta genomförandet av bolags- och föreningsstämmor. Sveriges kommuner och regioner, "Sammanträden med fullmäktige, nämnder och styrelser m.m.i kommun, region och kommunalförbund under spridningen av det virus som orsakar sjukdomen covid-19", memo, Version 6, 4 May 2020. Lag (2020:548) om omställningsstöd.



laws. This is not unusual, however, for there are other important rules about parliamentary procedure in Sweden that have the form of agreements among the parties (notably the rules for adjusting the number of voting members when some members are absent). With the new informal rules in place, the parliament remained operational and was highly active throughout 2020, as is evident from our review of the legislative measures that were taken to reduce the spread of infection and the economic policy measures that were taken to mitigate the economic effects of the crisis.<sup>42</sup>

In the beginning of the COVID-19 epidemic, political decision-making was fairly consensual, as we discussed earlier, but the level of conflict increased gradually in the spring of 2020 as it became clear that the death toll in Sweden was much higher than in neighboring countries. The parties on the right have criticized the center-left government for pursuing an overly cautious policy, and they have called for an expansion of more systematic testing and, in the case of the populist-far-right Sweden Democrats, school closings. In the televised party leader debate on 7 June 2020, the differences among the parties were already considerable. The Christian Democrat leader Ebba Busch said, for example, that the Social Democratic-led government had “deliberately allowed the infection to spread.” The leader of the Sweden Democrats, Jimmie Åkesson, referred back to the consensual political style in Swedish politics earlier in the spring and declared that the opposition parties must now confront the government on its public-health policies.<sup>43</sup>

#### 4.4. Constitutional Considerations

On the basis of the arguments we made in the previous section, we conclude that the government could have adopted more stringent measures if it had wanted to do so: since a temporary law authorizing the government to take more drastic measures was adopted in April 2020, it seems highly likely that the government would have been able to win the Riksdag’s support for a different approach. Some observers, such as the economist Lars Jonung (2020), have argued, however, that Sweden’s policies during the COVID-19 epidemic are best explained by provisions of the Swedish constitution -- the 1974 Instrument of Government -- that make it difficult for both the government and parliament to

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42 “Överenskommelse om kammarens och utskottens arbete med anledning av spridningen av covid-19.” Sveriges Riksdag, Stockholm, 16 March 2020.

43 When it comes to economic policy, as opposed to public-health policies, the political parties have had different views concerning some of the measures taken during the crisis, especially with regard to the timing. For obvious reasons, the government, led by the Social Democrats, has been particularly keen to protect wage earners, for example through changes in unemployment insurance, while the center-right opposition has been more keen to protect business. On the whole, however, economic policymaking during the COVID-19 crisis were consensual. Particularly in the beginning of the epidemic, it was clear that Sweden was moving from a phase of political polarization (which was noticeable during the protracted government formation process of 2018–2019) to a phase where the willingness to compromise was higher. On the 2018–2019 government formation process and the political situation in Sweden after the 2018 election, see Teorell et al. (2020).



enact laws that suspend individual rights. Jonung refers, among other things, to the protection of civil liberties and rights in Chapter 2 of the Instrument of Government, the principle of municipal self-government, and the independence of Sweden's administrative agencies, which we have already discussed.

Our view is that this interpretation of the Swedish constitution goes too far. When it comes to the protection of civil liberties in Chapter 2 of the Instrument of Government, we begin by noting that the freedom of assembly, which is otherwise highly protected, may be restricted if the purpose is to “counteract an epidemic” (Chapter 2, Section 8). Jonung states that this exception only applies to the freedom of assembly and not, for example, the right to move freely within Sweden. However, the protection of the right of free movement is not absolute either. Like many other freedoms, the freedom of movement may be restricted (Chapter 2, Section 20) if the purpose is “acceptable in a democratic society” and as long as the restrictions do not go “beyond what is necessary with regard to the purpose that has caused them” (Chapter 2, Section 21). It is true that a qualified majority is required to adopt laws that restrict people's freedoms right away -- and not with a twelve-month delay -- but it seems likely that a big majority in parliament would have been supportive of new, restrictive laws, for in April, as we have noted, the parliament did support a far-reaching, albeit temporary, law authorizing the government to take measures designed to limit the spread of COVID-19. When it comes to municipal self-government, the Instrument of Government allows the parliament to adopt laws that assign new tasks to municipalities, or regulate their services, as long as the restrictions of self-government do not go “beyond what is necessary” (Chapter 14, Section 3).

#### **4.5. The Operational Capacity of Public Authorities and Local Governments**

The political capacity of the government and parliament, which we have discussed in the two previous sections, is one thing. Another, related factor that was much discussed in Sweden in 2020 is the *operational* capacity of the public-health authorities and, especially, of regional and local governments. Regional and local governments have played a very important part in the implementation of the national response to COVID-19, since Sweden's regions are responsible for the healthcare system and since the local governments, the municipalities, are responsible for the elder-care sector, which was hit hard by COVID-19. The need to coordinate the response to a pandemic was anticipated in the 2019 report on pandemic preparedness that we cited earlier: it emphasizes that a pandemic requires “collaboration among all actors at all levels” (p. 9). One such structure is the National Pandemic Group, the main task of which is “to promote the coordination of measures planned and implemented to deal with a pandemic”; it includes representatives of the Public Health Agency, the Swedish Civil Contingencies Agency, the Medical Products Agency, the National Board of Health and Welfare, and an organization that represents Sweden's municipalities and regions.

The COVID-19 outbreak was a major challenge for healthcare in Sweden, as in many other countries. The efforts to limit the negative consequences of the pandemic for Swedish health care have been focused on reducing the spread of infection, so that the available health care capacity is not exceeded, and on increasing capacity in certain areas.<sup>44</sup> The government, the regions, the municipalities, and other authorities have, among other things, worked to increase the test capacity, the number hospital- and intensive care units available for COVID-19 patients, and the availability of protective equipment. The Public Health Agency of Sweden and the National Board of Health and Welfare have been responsible for monitoring and coordinating various parts of Sweden's health care system, while the 21 regions and the 290 municipalities have been responsible for implementing new policies within the health-care and social-care systems during the pandemic.

In mid-March, the Director-General of the World Health Organization, Dr. Tedros Adhanom Ghebreyesus, called on the countries of the world to “test, test, test.”<sup>45</sup> Sweden has been able to perform so-called Polymerase Chain Reaction tests (PCR) since January 17, and all university hospitals had the capacity to perform PCR tests from February 28, 2020 (Ludvigsson 2020, 11). PCR testing is an established method for identifying an ongoing COVID-19 infection. PCR tests detect the presence of genetic materials from the virus that causes the infection. But the number of PCR tests performed in Sweden was relatively small, due to lack of access to test equipment and because of ambiguities about who was responsible for performing and financing the tests (Ludvigsson 2020, 12). In February 2020, fewer than 1,000 individuals were tested. By mid-March, the number had risen to about 10,000 per week. On March 30, the Public Health Agency of Sweden was commissioned by the government to urgently increase the number of tests.<sup>46</sup>

The test capacity has since expanded gradually. The Public Health Agency took measures to increase the analytical capacity of the country's laboratories, with the goal of having a capacity for approximately 150,000 tests per week, a goal that was reached in mid-July. In mid-April, the government and the Public Health Agency announced that 50,000–100,000 tests a week would be carried out.<sup>47</sup> The goal of 50,000 tests during one week was reached in June (week 24). During the autumn of 2020, the capacity continued to increase and toward the end of the year almost 300,000

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44 “Securing resources for health care” is one of the government's goals with their COVID-19 response.

45 Dagens Nyheter, March 16.

46 “Uppdrag om att skyndsamt utöka antalet tester för covid-19”, S2020 / 02681 / FS. On May 8, the government also announced that they had commissioned Harriet Wallberg as test coordinator. She was placed at the Public Health Agency of Sweden. (<https://www.regeringen.se/pressmeddelanden/2020/05/harriet-wallberg-ny-testkoordinator-for-coronatester/>). However, Harriet Wallberg announced that she wanted to end the assignment already after about three weeks (Dagens Nyheter, June 2). In the media it was stated that the reason was that she had not a large enough mandate (Dagens Nyheter, June 3).

47 <https://www.svtplay.se/klipp/26448670/antalet-coronatester-ska-utokas-kraftigt>

tests were done each week. Figure 9-4 shows the number of individuals who have taken PCR tests in Sweden per week (data from the Public Health Agency). The number of individuals who took PCR tests has varied between 11 (week 4) and just under 300,000 (week 51).

The Public Health Agency has argued that the goals of PCR testing are different during the different phases of a pandemic.<sup>48</sup> In the first phase, which Sweden was in until mid-March, the focus was on testing everyone with symptoms and then conducting a thorough infection tracing. After the first phase, priorities were made. The Public Health Agency of Sweden suggested that the most prioritized group are people who have an ongoing illness; the second group is health care staff; the third group are staff in other socially important activities and the fourth group are everyone else. The Public Health Agency argued further that when the phase of acute community transmission was over, everyone that needed a test could be tested. It should however be noted that representatives of the Public Health Agency have later said that the low number of tests during the spring of 2020 was not a result of strategic planning but of low capacity.<sup>49</sup>

Like many other countries, Sweden experienced a shortage of protective equipment in the early spring of 2020, and during both waves of the epidemic, the capacity of intensive care in Swedish hospitals was put to the test. On March 16, the government commissioned the National Board of Health and Welfare to ensure access to protective equipment and other protective materials, and on March 19, the National Board of Health and Welfare was commissioned to set up a coordination function for intensive care units.<sup>50</sup> Figure 9-3 shows the number of new intensive care patients per day in Sweden over the year (data from the Public Health Agency, January 26, 2021). There was a sharp increase in the number of patients in intensive care during March and April, and then again from mid-October to the end of the year. Based on information from the National Board of Health and Welfare, between 65 and 70 percent of the full capacity of Sweden's intensive-care units was utilized during the spring. As a national average, capacity utilization never exceeded 75 percent during the first six months of the year. However, some individual regions were under more pressure.<sup>51</sup>

The National Board of Health and Welfare cooperates with the Swedish Civil Contingencies Agency and the County Administrative Boards to monitor hospital and intensive-care capacity in the regions, as well as the need for medical and protective equipment in the regions and municipalities. The National Board of Health and Welfare has a five-point measure of stress on these systems that ranges

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48 The Public Health Agency of Sweden, "Nationell strategi för utökad provtagning och laboratorieanalys av covid-19", version 4, 2020-06-10.

49 Public hearing on the corona crisis, Swedish Television, January 10 2021.

50 Regeringsbeslut S2020/011558/FS, S2020/011594/FS samt S2020/01849/FS. Se även S2020/02443/FS.

51 Data from the National Board of Health and Welfare (email September 25, 2020).

from no impact to critical impact.<sup>52</sup> Severe or critical impacts have been reported from a large number of regions for consumables; in other areas, only a few regions have been seriously or critically impacted. Some of Sweden's 290 municipalities also reported that they experienced a serious or critical impact regarding consumables, personnel, home care services, management functions, or the supply of medicines. The strain on the Swedish health-care and elderly-care systems was thus great in some parts of the country. The situation was particularly serious in April. The National Board of Health and Welfare wrote in its status report to the Swedish Civil Contingencies Agency on April 16 that the impact within the remit of the National Board of Health and Welfare varied from moderate to critical and that it was expected to increase in the coming weeks. The National Board of Health and Welfare stated that "consequences in two weeks' time include the risk of serious or critical impact in several regions regarding IVA [intensive care] units, protective equipment and medical equipment." The National Board of Health and Welfare also emphasized that there was a risk of "increased impact on municipal health and medical care and social services."<sup>53</sup>

#### **4.6. The Case of Elder Care**

The Swedish elder-care system was hit hard by COVID-19. It can be divided into two different types of care: home care and special housing (including residential nursing homes). In Sweden, elder care is the responsibility of the 290 municipalities (which in passing means that it falls under the social services and thus does not primarily belong to health care), but in both home care and special housing there are both public and private providers (Szebehely 2011). In January 2020, 191,910 people over the age of 70 had home care and 79,410 people over the age of 70 lived in special housing. These groups have been very vulnerable. By April 28, 90 percent of those who had died with COVID-19 were over 70 years old. Half of those individuals lived in special housing while just over a quarter had home care.<sup>54</sup>

The vulnerable situation of older Swedes has been common knowledge, and measures have been taken to protect those groups, but many observers within Sweden have claimed that not enough was done in this regard. One measure that has already been mentioned was the government's decision on March 30 on a national ban on visits to nursing homes.<sup>55</sup> Other issues that seem to have been important were staff turnover at the nursing homes, protective measures for the staff, and the medical care that was

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52 The five scale steps are: "None", "Moderate", "Significant", "Serious" and "Critical" impact. Information from the National Board of Health and Welfare, e-mail 2020-10-22.

53 The National Board of Health and Welfare 2020-04-16, dnr. 10.2.5075/2020, p. 1.

54 The National Board of Health and Welfare, "Statistik om smittade och avlidna med covid-19 bland äldre efter boendeform", dnr. 6.7-15552/2020, 2020-05-06.

55 "Förordning om tillfälligt förbud mot besök i särskilda boendeformer för äldre för att förhindra spridningen av sjukdomen covid-19", SFS 2020:163.

available to residents of the nursing homes. The media has reported major problems when it comes to recruiting personnel and securing protective equipment for both home care and nursing homes.<sup>56</sup> There have also been media reports claiming that qualified care for fragile elder individuals was not prioritized in certain regions.<sup>57</sup> However, these reports have been disputed by the responsible officials.<sup>58</sup>

In mid-April, the Government commissioned the Swedish Health and Social Care Inspectorate to investigate how the work against COVID-19 in the elder care was conducted in the municipalities. The Swedish Health and Social Care Inspectorate's reports from late autumn 2020 revealed that there were examples in all regions of infected individuals in nursing homes who did not get individual medical assessments and who were not prioritized for hospital care.<sup>59</sup>

A large evaluation has already been conducted of the measures that were taken to protect individuals within the elder care system from the infection. By the end of the spring of 2020, a majority of the political parties in parliament demanded a government commission of inquiry into how Sweden handled the COVID-19 epidemic. The government initially wanted to delay forming such a commission, but on June 30, it decided to appoint a committee that was tasked with "evaluating the measures taken by the government, the relevant administrative agencies, the regions, and the municipalities to limit the spread of the virus that causes COVID-19." The assignment included the elder care system. The committee consists mainly of scholars of social science, although a former director of the organization representing Sweden's municipalities and regions and a member of the clergy are also included as members.<sup>60</sup>

The Corona Commission published its first report in December 2020, and made several very critical observations concerning the Swedish elder care system in general and the protective measures that were taken by the authorities in particular. The overall conclusion was that the Swedish strategy for protecting old and fragile, individuals within the elder care system had failed. The report identified structural weaknesses in Swedish elder care as one of the main explanations of the failure to protect older Swedes. These weaknesses included the organization of the care (too many actors and not enough coordination), the fact that there was too much staff turnover, and shortcomings with respect to the training, the medical skills, and the working environment of the staff within the elder care

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56 Dagens Nyheter 2020-04-08, Dagens Nyheter 2020-05-21.

57 Dagens Nyheter 2020-10-13, Eskilstuna Kuriren 2020-05-12.

58 See the discussion in Dagens Nyheter 2020-10-19.

59 <https://www.ivo.se/tillsyn/tillsyn-aldreomsorgen-covid-pandemin/>

60 Kommittédirektiv, dir. 2020:74, "Utvärdering av åtgärderna för att hantera utbrottet av det virus som orsakar sjukdomen covid-19", 2020. See also: <https://www.regeringen.se/pressmeddelanden/2020/07/coronakommissionens-ledamoter-utsedda/>.

system. Moreover, when evaluating the specific responses within the elder care during the pandemic, the Commission's conclusion (2020) was that they were often late and insufficient. An international comparison showed that the Swedish response was slower than in the neighbouring Nordic countries. According to this report, these delays may have contributed to the high Swedish death toll in Swedish nursing homes (Szebehely 2020).

## **5. Conclusions**

The Swedish approach to COVID-19 differed from that of most other comparable democracies in Western Europe. Rather than putting in place coercive policies that would have restricted the freedom of movement or the freedom of assembly, closing schools, or requiring mask-wearing, the Swedish government and Swedish public authorities chose to issue voluntary recommendations that were meant to limit the spread of the virus by persuading citizens to reduce their social interactions and to protect themselves and others from the new disease.

This was not nothing. The general public did change its behavior during the COVID-19 epidemic. Nevertheless, there is now broad agreement within Sweden that the high death rates, especially among older Swedes, represent a failure of the Swedish political system. But there is less agreement on what explains this failure. According to one view -- which is held, for instance, by the prime minister, Stefan Löfven -- the main failure isn't that there was anything wrong with the overall strategy; the main failure is that the strategy would have required more effective testing in the first stage of the pandemic and more effective protections for the vulnerable old-age population, especially those living in care homes.<sup>61</sup> According to a different view, the overall strategy itself, not failures of implementation, was the problem. In this view, Sweden should have put in place stronger restrictions from the start -- restrictions similar to those that were adopted in neighboring countries such as Denmark and Norway. Public-health experts and medical experts remain divided. So do the political parties: the more conservative parties in the Swedish parliament have favored more restrictive policies; the governing center-left parties and the centrist opposition parties have been less critical of the approach that Sweden took in 2020.

The main goal of this chapter has been to discuss some of the potential explanations for Sweden's distinctive policy choices in the COVID-19 pandemic that have been suggested in the scholarly literature and in political commentary in Sweden and abroad. We have found little support for some of the explanations that have been suggested, especially the idea that the Swedish government and the Swedish public-health authorities were prevented from responding more aggressively to the

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61 In a recent interview, Prime Minister Löfven identified those as the two main failures of the Swedish policy response to COVID-19; see <https://www.dn.se/sverige/stefan-lofven-testningen-borde-ha-kommit-igang-tidigare/>.

COVID-19 crisis because they were bound by prior legislation or by the Swedish constitution. Our view is that the government and the parliament could have put new policies in place if they had wanted to: Sweden's approach was a political choice, not a legal or constitutional necessity. But there are other political explanations that we have not been able to dismiss. We would especially like to mention three interrelated factors that we believe played an important role. The first is that Swedish contingency planning for new global infectious disease such as COVID-19 placed little emphasis on lockdowns, school closures, or other coercive "non-medical" measures since the responsible authorities believed that the social costs were likely to exceed the health benefits of such an approach. The second factor is that Swedish governments typically defer to the expertise of public administrative agencies, as long as those agencies act within their remit, as defined by legislation and the government's general instructions to the bureaucracy. The third factor concerns implementation failures at the regional level (testing) and the municipal level (elder care), which, if they had been anticipated beforehand, might have caused the public-health authorities and the government to reconsider their voluntarist approach, since that approach depended on the availability of information that would have allowed citizens to make informed decisions (testing) and on special protections for particularly vulnerable groups (elder care). Sweden has often been well-served by its centuries-old administrative structures, which afford public agencies a great deal of autonomy, but when it comes to the COVID-19 crisis, one wonders if elected officials, with their broader political experience, would perhaps have been better able than trained public-health experts to predict the difficulty of implementing the regional- and local level public-health policies that were necessary to make Sweden's ambitious national strategy work.

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## References

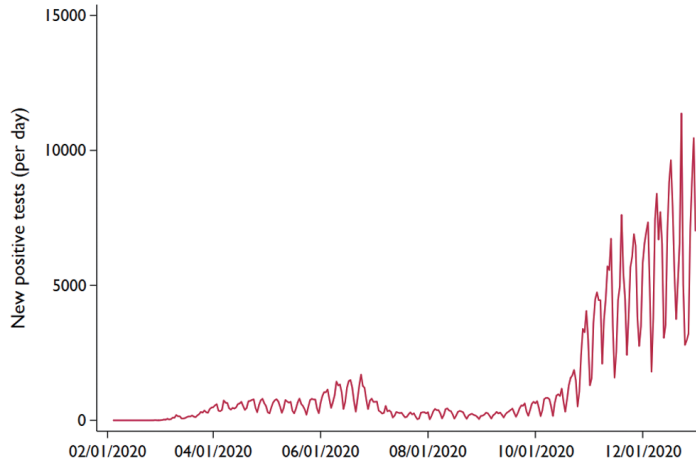
- Ahlbäck Öberg, Shirin, and Helena Wockelberg. 2016. "The Public Sector and the Courts." In Pierre, Jon (ed.). *The Oxford Handbook of Swedish Politics*. Oxford: Oxford University Press.
- Andersson, Staffan, and Nicholas Aylott. 2020. "Sweden and Coronavirus: Unexceptional Exceptionalism." *Social Sciences* 9(12).
- Corona Commission, The. 2020. *Äldreomsorgen under pandemin*. Stockholm: Norstedts Juridik. SOU 2020:80.
- Dahlström, Carl, and Johannes Lindvall. 2021. "Sverige og covid-19-krisen". In the report to the Danish Parliament *Håndteringen af covid-19 i foråret 2020. Rapport afgivet af den af Folketingets Udvalg for Forretningsordenen nedsatte udredningsgruppe vedr. håndteringen af covid-19*. Folketinget, January 2021.
- Dahlström, Carl, and Mikael Holmgren. 2019. "The Political Dynamics of Bureaucratic Turnover." *British Journal of Political Science* 49(3): 823-836.
- Esaiasson, Peter, Jacob Sohlberg, Marina Ghersetti, and Bengt Johansson. 2020. "How the coronavirus crisis affects citizen trust in institutions and in unknown others: Evidence from 'the Swedish experiment'". Forthcoming in *European Journal of Political Research*.
- Finanspolitiska rådet. 2020. *Svensk finanspolitik 2020*. Stockholm: Finanspolitiska rådet.
- Jacobsson, Bengt. 1984. *Hur styrs förvaltningen? Myt och verklighet kring departementens styrning av ämbetsverken*, Lund: Studentlitteratur.
- Jacobsson, Bengt, and Göran Sundström. 2016. "Governing the State." In Pierre, Jon (ed.). *The Oxford Handbook of Swedish Politics*. Oxford: Oxford University Press.
- Jonsson Cornell, Anna. 2020. "Författningsberedskap i praktiken – en kommentar med anledning av lagen om ändring i smittskyddslagen." *Svensk juristtidning* 5–6.
- Jonung, Lars. "Sweden's Constitution Decides Its COVID-19 Exceptionalism." Working Paper 2020:11, Department of Economics, Lund University.



- Ludvigsson, Jonas. 2020. "The first eight months of Sweden's COVID-19 strategy and the key actions and actors that were involved." Forthcoming in *Acta Paediatrica*. Published online on September 20, 2020.
- Niemann, Cajsa. 2013. *Villkorat förtroende: Normer och rollförväntningar i relationen mellan politiker och tjänstemän i Regeringskansliet*. Stockholm University: Department of Political Science.
- Pierre, Jon. 2004. "Central Agencies in Sweden: A Report from Utopia." In Pollitt, Christopher and Colin Talbot (eds.), *Unbundled Government*. London: Taylor and Francis.
- Pierre, Jon. 2020. "Nudges Against Pandemics: Sweden's COVID-19 Containment Strategy in Perspective." *Policy and Society* 39(3): 478–493.
- SOU 2007:75. *Att styra staten – regeringens styrning av sin förvaltning*. Stockholm: Fritzes.
- Szebehely, Marta. 2011. "Insatser för äldre och funktionshindrade i privat regi. In Hartman, Laura (ed.). *Konkurrensens konsekvenser. Vad händer med svensk välfärd?* Stockholm: SNS.
- Szebehely, Marta. 2020. *Internationella erfarenheter av covid-19 i äldreboenden*. Report to the Corona Commission (SOU 2020:80).
- Teorell, Jan, Hanna Bäck, Johan Hellström, and Johannes Lindvall. 2020. *134 dagar*. Gothenburg: Makadam Förlag.
- Wenander, Henrik. 2020. "Sweden: Non-binding Rules against the Pandemic – Formalism, Pragmatism and Legal Realism." Unpublished manuscript, Lund University.

## Figures

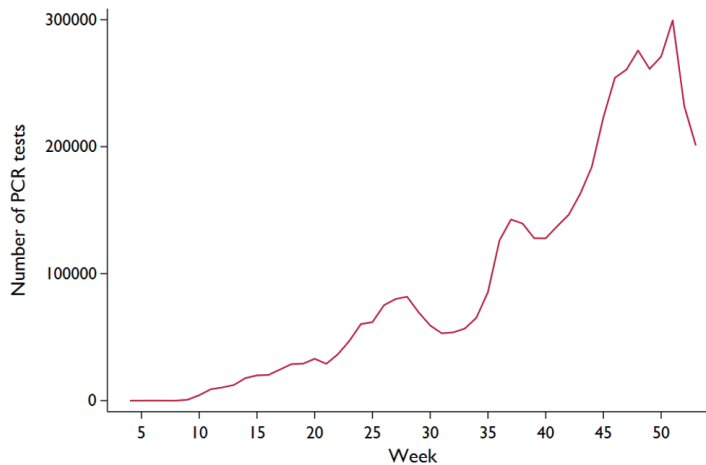
Figure 9-1. New COVID-19 Cases Reported to the Authorities (per day).



Note that the figure does not accurately describe the actual number of infected since the rate of testing has changed greatly over the period examined.

Source: Folkhälsomyndigheten (accessed 26 January 2021)

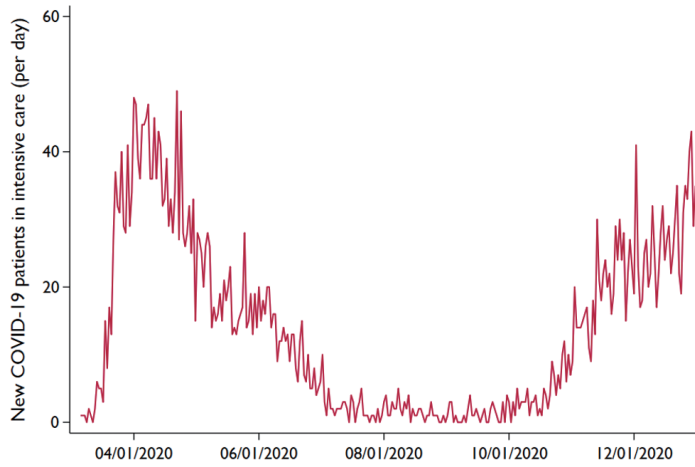
Figure 9-2. COVID-19 Tests Per Week, January to December 2020.



The data are incomplete since not all laboratories report figures to the Public Health Agency of Sweden, Folkhälsomyndigheten.

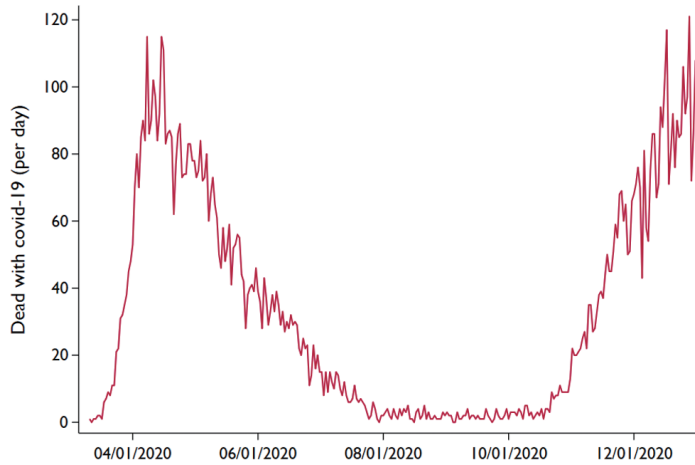
Source: Folkhälsomyndigheten (e-mail message 11 January 2021)

**Figure 9-3. New Patients with COVID-19 in Intensive Care (per day).**



Source: Folkhälsomyndigheten (accessed 26 January 2021)

**Figure 9-4. Dead with COVID-19 (per day).**



Source: Folkhälsomyndigheten (accessed 26 January 2021)



Chapter

# 10

International Comparative Analysis of COVID-19 Responses

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## **Science, Uncertainty, and Partisanship: The United States' Response to COVID-19**

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## Chapter 10. Science, Uncertainty, and Partisanship: The United States' Response to COVID-19

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### Abstract

The United States represents an anomaly among the nations of the world in its response to the novel coronavirus, SARS-CoV-2, that ravaged the world in 2020. Month after month, documentation of the losses by multiple research centers showed the United States to be the nation with the highest number of confirmed cases and the highest number of deaths. There is no lack of basic capacity. The United States is the world's largest economy and has a previous record of successful experience in managing infectious disease. Yet, the grim toll of infections and deaths escalated over the months of 2020 with no clear national policy guiding operations, until two vaccines were approved for distribution in December, offering a change of course in public response to the disease. This paper examines three primary factors that contributed both to the initial failures in managing the crisis and the hard-won arrival of vaccines as an effective strategy of containment. The intersection among science, uncertainty, and partisanship exacerbated the challenges confronting public managers at national, state, and local administrative levels in coping with the crisis, altering established policy and practice in unanticipated ways.

Using a theoretical framework of complex adaptive systems, this paper traces the interactions among decision processes at federal, state, and local levels that led to fragmented perceptions of threat, partisan rhetoric advancing uncertain science, and responsibilities for action shifted from the national to sub-national governments that enacted scattered and disparate policies. The challenge of managing an unknown, deadly virus during a presidential election year significantly affected the social and political dynamics that altered the capacity of the nation to achieve a coherent consensus for collective action to suppress the virus.

The outcome of the November 2020 election produced a change in presidential leadership, management strategy, and evidence-based reporting on the status of the pandemic to the public. The scientific discovery of two vaccines reversed the trajectory of failed, uncoordinated management to the threat of COVID-19 over the preceding months of 2020 and placed the United States in a leading

position among nations of the world in the production of vaccines and in vaccinating its population.

The experience of the United States shows that three factors are essential in developing the capacity for global cooperation and collaboration in addressing problems, like the pandemic, that one country alone cannot solve. These factors include the *role of science*, the *power of information technologies*, and the development of *national information infrastructures* that can be linked together to form a *global knowledge base* to develop an interdisciplinary, international program of continuous learning and adaptation for the global community of nations. The goal of sustaining a healthy, humane world is clear; the means are available; the challenge is building the level of understanding and commitment to enact the goal in practice.

## **1. Introduction: An Evolving Risk at Multiple Scales**

As the novel coronavirus, SARS-CoV-2, moved silently across the world during the months of 2020, a sobering documentation of the losses shows the United States to be the nation with the highest number of confirmed cases and the highest number of deaths. With 4% of the world's population, the United States accounted for nearly 25% of the world's confirmed cases and over 20% of the world's deaths (Johns Hopkins University Coronavirus Resource Center, 2021). There is no lack of basic capacity. The United States is the world's largest economy and has a previous record of successful experience in managing infectious disease. It has a premier medical research community, experienced public health managers, and an internationally recognized research center in the Centers for Disease Control. The grim toll of infections and deaths escalated over the months of 2020 with no clear national policy guiding operations, until two vaccines were approved for distribution in December, offering a change of course in public response to the disease.

What factors could explain the extraordinary trajectory of this lethal disease in a nation that has previously taken a leading role in mitigating public health risks? What resources finally produced a workable strategy for bringing a runaway pandemic under control in early 2021? This chapter will examine three primary factors that contributed both to the initial failures in managing the crisis and the hard-won arrival of vaccines as an effective strategy of containment. The intersection among science, uncertainty, and partisanship exacerbated the challenges confronting public managers at national, state, and local administrative levels in coping with the crisis, altering established policy and practice in unanticipated ways.

## **1.1. Science and the Role of Expertise**

The first challenge confronting public managers was to determine what exactly was causing the sudden surge in illnesses and deaths, first identified in Wuhan, China, but that quickly escalated to become a global pandemic. On December 31, 2019, the cause was identified as a novel virus, but the symptoms were difficult to diagnose and distinguish from lesser ailments. Further, the novel virus had markedly different effects on people, ranging from mild symptoms to death. Scientists and medical experts had little knowledge of this virus and were literally discovering the mechanisms of transmission and possible treatments by direct observation of cases in real time. Weeks of delay in determining the characteristics of the disease allowed the virus to spread, unchecked, through populations via multiple modes of travel within and between countries in the early months of 2020. Standard public health methods of testing, tracing, and isolating cases of infected persons were implemented, but these methods proved inadequate to control the spread. Every minute of delay led to further infections which multiplied again.

Once community transmission was confirmed, there was no vaccine, no known treatment, no means of control other than stopping transmission through physical measures of distancing from other people, deep cleaning all surfaces, and wearing masks. This confirmation shifted the problem of potential infection to a different level, requiring a social response rather than medical. The methods of science require slow, systematic, rigorous testing and documenting results, acknowledging the limits of knowledge. Different experts proposed alternative explanations, generating substantial controversy over the role of expertise and the insistence of various persons who claimed expertise, but had no evidence to uphold their radical recommendations. This situation fostered an uneasy climate of anxiety and uncertainty over the extent of the threat and actions to counter it, given unknown characteristics of the virus.

## **1.2. Uncertainty in Policy and Practice in the U.S.**

In the absence of a clear, scientific characterization of the virus, credible evidence, and a widely accepted strategy to reduce the risk, there was a broad reliance on heuristics and biases for decision making at the national level in the U.S., rather than science (Kahneman, Slovic, and Tversky, 1982). The biases were evident in decisions made by national policy makers, as some accepted single cases of infection as ‘representative’ of a larger group. Others would take whatever case was ‘available’ as the basis for judgment, either for or against a certain practice. Still others would ‘anchor’ their judgment on an early experience and use that experience as the justification for a much wider set of activities that had no basis in fact. Since there was no national policy, different states in the U.S. and different counties and cities within states struggled to define policies that fit their particular understanding of the



risk. The result was a wide variance in performance across the country, allowing the virus to spread at exponential rates.

As people tried valiantly to follow different guidelines, the shifting policies led to confusion and division in the society. The inability to control the spreading virus destabilized performance in every aspect of public life: business, education, culture, and sports. Businesses asked employees to work from home; others, unable to do so, closed. Applications for unemployment assistance skyrocketed, as workers were furloughed or eventually dismissed. Schools moved classes largely to online instruction, creating a special hardship for students without access to the internet. Museums closed, and sought innovative ways of giving virtual ‘tours’ to keep clients interested and to raise modest revenue for the arts. Even sports teams canceled their games when outbreaks during training sessions, despite extensive preparations to minimize exposure, could not prevent contagion. The economic impact of the lockdowns led to a dramatic decline in GDP for 2020 (Casselmann, 2020).

The disproportionate impact of economic losses fell hardest on those with low incomes, on minorities and people of color. Often working in low-paying jobs with high exposure to the virus, but little access to health care, blacks and Hispanics were consistently over-represented in the numbers of infections and deaths. The inequalities in power and authority between low-income groups, minorities, and the dominant decision-making groups were laid bare by the pandemic. Cascading crises of race, police brutality, social inequality, economic losses, wildfire, floods, hurricanes and COVID-19 exacerbated the level of social anxiety.

### **1.3. Partisanship**

The year, 2020, marked the quadrennial presidential election that presents an opportunity for change in national leadership. The incumbent president, deeply unpopular with the majority of the population, but protected by an intensely loyal base of supporters and a small coterie of officials who, if not sufficiently loyal, were readily dismissed, sought re-election by any means. The incumbent president took a sharply partisan view of the public health risk, downplaying the threat of COVID-19 as a minor, temporary event, refusing to wear a mask, branding the rise in cases as a partisan issue, and delaying federal resources to governors in Democratic states. Republican governors largely followed the president’s lead, until the rampant spread of the virus in their states required different actions. Democratic governors largely followed the science, and built alliances among their states to share resources and to establish common protocols for travel and trade. Mayors of large cities made their own decisions, often conflicting with their respective state governors. The nation was deeply divided, pitting coastal states with densely populated urban regions against inland states with sparsely populated rural areas. To some, change in national leadership was urgent. To others, anxious and defiant at new

restrictions imposed to thwart an unseen virus, the president's false promises offered a preferable alternate reality, no matter the lack of evidence. The resulting patchwork of policies failed to stop transmission of the virus across the nation.

## **2. The United States as a Complex, Adaptive System**

The interaction of science, uncertainty, and partisanship, as outlined above, affirms the characterization of the United States as a complex, adaptive system. These three factors, operating under the intense pressure of a sudden, unexpectedly severe, public health crisis, created negative feedback loops that seriously damaged the performance of public agencies in coping with COVID-19 across all levels of government: federal, state, county, and municipal. The established programs for disaster management in the U.S. were forged in response to natural and technological hazards (FEMA, 2006), and since 2001, terrorist attacks, operating under the Department of Homeland Security and the Federal Emergency Management Agency. Public health crises, instead, were managed by the Department of Health and Human Services, with the lead agency designated as the Centers for Disease Control. Both major agencies had undergone changes in personnel, with secretaries appointed by a president insistent on loyalty to his agenda. The Department of Homeland Security, for example, had seven different secretaries in four years, two confirmed by the Senate and five as acting directors who did not go through a Senate confirmation process (DHS, 2021). The Department of Health and Human Services had three secretaries within a four-year presidential term (HHS, 2021). The high rate of turnover in leadership positions in key federal agencies with designated responsibilities for managing extreme events underscored the inability to forge a national policy to meet a once-in-a-century health crisis.

The lack of a national policy to respond to the size, scale, and urgency of the public health threat from COVID-19 meant that 50 different states recognized the risk at 50 different stages and times. The complexity of this response was exacerbated by the federal administrative structure of the U.S. which created multiple points of decision, presumably intended to check excessively authoritarian policies. As the virus spread at different rates across the country, interdependent systems of trade, transportation, education, and health care slowed, at enormous cost to the functioning society. The situation created significant strain on the performance of the overall system as negative interactions among interdependent systems led to conflict and distrust. This inquiry into the evolution of the U.S. response to COVID-19 draws on three interrelated streams of research to set the problem in the context in administrative theory: 1) complex adaptive systems; 2) collective cognition and action; and 3) complex time.

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## 2.1. Complex Adaptive Systems

The theoretical framework of complex adaptive systems of systems (CASoS) provides a systematic approach for identifying the interdependencies and uncertainties that characterize the occurrence of extreme events (Glass et al., 2011; Carlson et al., 2014; Comfort, 2019). CASoS reflect the interconnectedness among the physical, technical, ecological, social, and economic systems that characterize a dynamic society. The challenge is to identify the interdependent conditions that lead to crises and to model the types of actions (or inactions) that escalate destructive forces to initiate a cascade of crises as well as the organizations and institutions that would reverse the flow of negative energy to achieve positive interactions among human actors, technology, and ecological conditions.

In the social world, information serves as the catalyst that activates change among people and organizations. Bridging the natural and the social worlds are hazards such as infectious diseases, wildfires, hurricanes, and floods. Understanding hazards as a transition in forms of energy from the natural to the social world (Smith and Morowitz, 2016) allows the human community at risk to identify, redesign, and reorder its actions and resources to adapt to a novel threat in more timely, constructive ways. The process of self-organizing criticality, as defined by Bak (1996), is driven by information in both the natural and social worlds.

## 2.2. Collective Cognition

The gap between cognition and action has posed a long-standing dilemma in public affairs. Officials inform people regarding risk and provide detailed instructions regarding the reduction of risk; individuals listen, understand intellectually what actions would reduce risk, but fail to act in the context of obvious risk. This lack of action despite public warning is repeated again and again in reference to known hazards like earthquakes, floods, and wildfire. If risk reduction is understood as a learning process, the first step is cognition, or that flash of comprehension that frames a risk situation for action (Comfort, 2007). It derives from both social and cultural conditions.

Importantly, for shared risk, or risk that affects the whole community, cognition includes empathy, or the capacity to understand the impact of one's actions, or inactions on others. This understanding of risk is shared with others through communication to mobilize collective action to reduce risk for the benefit of the whole community (Comfort et al., 2020). Acting collectively, the community at risk is able to coordinate a range of separate, but interrelated activities to achieve the shared goal of bringing the risk under control. Developing collective cognition is especially critical in reference to novel or infrequent risks. Cognition initiates a learning process among actors but depends upon the available communication processes to circulate information through the community. The extent of learning depends upon the time available for action and the rate of change in conditions that generate risk; it is

further confounded by the conditions of complex time.

## **2.3. Complex Time**

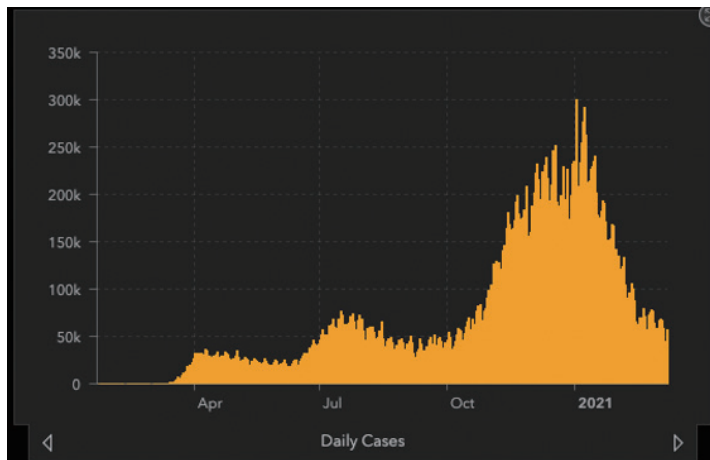
Underlying the conceptual framework of complex adaptive systems is a conceptual measure of time that acknowledges varying sets of activities occurring in different physical locations at different rates of change (Krakauer, 2018). This measure of time differs from the classic concept of time as a unidirectional, asymmetrical ‘arrow’ that moves only forward, never back (Layzer, 1975; Coveney and Highfield, 1993). Although activities in different locations proceed ever forward and do not go back, the ‘arrows’ move at different rates; time is perceived as adaptive (Krakauer, 2018). This difference in performance among the sub-systems creates a strain on the macro system that requires internal adaptation among the sub-systems for the macro system to continue to function productively.

The concept of complex time enables analysts to identify a set of events as interconnected via a common, underlying dimension of information flow that reveals a shared goal. Complex time anticipates that successive events in a system under strain are likely to generate either further disruption of existing response actions or activation of new patterns of adaptation within the larger macro system. To the extent that disparate activities relate to the same shared goal, complex time allows the analysis of concurrent processes of learning within the macro system that evolve toward coherent behavior. To the extent that disparate activities reflect different goals, the processes of communication and learning in the sub-systems fracture and strain the overall performance of the macro system. Under strain, the weakened system is vulnerable to cascading crises.

## **3. Main Trends of Observable Outcomes in the United States**

The primary trend in infections has been a rolling wave across all 50 states, with peaks increasing and decreasing at different times in different states, reflecting the lack of coherence in policies and practice, and leading to a sobering toll in lives and lost opportunities for the entire country. Figure 10-1, below, shows the profile of infections and broad outline of the progression of the disease in the U.S. over fourteen-plus months, January 1, 2020 to March 10, 2021.

**Figure 10-1. Cumulative Profile of Confirmed Cases of COVID-19 Infections by Month, January 2020 to March, 2021.**



Source: Johns Hopkins University Coronavirus Resource Center.3-10-2021.

### 3.1. Rapid Escalation of Infections

The World Health Organization (WHO) reported the discovery of a novel coronavirus infection in Wuhan, China on December 31, 2019 (WHO Situation Reports, 2020). Figure 10-1 shows that few infections were reported in the U.S. during the months of January and February, 2020, with cases beginning to rise during March and leading to a rapid escalation to nearly 50,000 cases in April, 2020. The increase in infections in March led to a series of nonpharmaceutical measures to curb infection rates adopted by different states at different times that slowed the spread slightly in June, but the number of cases spiked again after the July 4<sup>th</sup> national holiday. The number of cases dipped slightly in August and early September, but began to spike again in late September/October as some states allowed reopening measures, but others did not. The continuing escalation of cases across the country revealed dramatic increases in November and December with the Thanksgiving and Christmas/New Year's holidays. These spikes drove the number of cases to more than double that of India, the country with the next highest number of cases, 11,262,707 and 158,063 deaths, as reported on the JHU Coronavirus Resource site, but with four times the population at 1.37 billion people in comparison to 330 million in the U.S.

The U.S. earned the unenviable status of having the highest numbers of reported infections and deaths in the world, with these numbers only beginning to drop in late January, 2021. As of March 13, 2021, the total number of confirmed cases stands at 29,384,489 and the total number of deaths at 533,671, reported by the Johns Hopkins University Coronavirus Resource Center. The figure shows the number

of infections and deaths reaching an extraordinary peak of nearly 300,000 new cases reported per day in early January, 2021, but declining markedly to just over 50,000 new infections per day by mid-March, 2021.

How did this jagged trajectory evolve in the U.S., and what factors continued the progression of new cases month after month, even as more information about the structure of the virus and its modes of attachment to humans became more widely known? What factors finally contributed to the decline in new cases beginning in late January, 2021? This inquiry will explore the evolution of this national profile through dynamic interactions among different actors in complex time.

### **3.2. Overall Assessment of the United States' Response to COVID-19.**

Searching for the principal factors to explain the United States' performance in public health policy and management will undoubtedly engage many analysts over a period of many years. There is no easy, simple answer to explain the management strategies that have, in practice, led to nearly 534,000 deaths in 14 months, and have disrupted economic, social, and cultural activities across all 50 states. Efforts to combat the virus essentially put the nation 'on hold' as public agencies, businesses, medical, educational, and cultural institutions grappled unevenly with policies and procedures to bring the infection under control. From a macro perspective, it appears that the intersection of science, uncertainty, and political partisanship created a dysfunctional process of decision making at the national scale, leaving management of response operations to sub-national levels of government that enacted scattered and disparate policies.

### **3.3. Comparison of the United States' Response to Selected Other Countries.**

To put the U.S. response in global perspective, it is useful to compare the trends in the U.S. with a select set of nations who were coping the threat of COVID-19 at the same time. Table 1 shows a comparison of the numbers of infections and deaths against their respective populations for six selected nations by their ranking among the 192 United Nations' member states, as of March 13, 2021.

**Table 10-1. Selected Nations Ranked by Number of Confirmed Cases, Deaths from COVID-19, with Population Figures, from a total of 192 UN Member Nations.**

**United States in comparison to selected countries**

- **Global pandemic:** Confirmed cases: **119,958,400** Deaths: **2,644,428<sup>1</sup>**

Country:	Rank:	Cases:	Deaths	Population
• <b>United States:</b>	<b>1</b>	<b>29,096,048</b>	<b>527,699</b>	<b>330, 227,055</b>
• India	2	11,262,707	158,063	1,380,004,385
• Germany	10	2,569,726	75,362	83,970,413
• Sweden	29	712,527	13,146	10,142,867
• S. Korea	85	95,176	1,667	51,269,185
• Australia	115	29,112	909	25,705,034

- **What were the key factors that led to this outcome for the United States?**

<sup>1</sup> Johns Hopkins Coronavirus Research Center, 3/13/2021



Source: Johns Hopkins University Coronavirus Research Center, 3/13/2021.

The figures in Table 10-1 show the remarkable discrepancy between the U.S. and all other nations. Even India, with more than four times the population of the U.S., has less than 39% of the reported confirmed cases and less than 30% of the deaths reported for the U.S. While accuracy in reporting cases and deaths may vary by nation, these figures show an extraordinary gap in the U.S. in managing the same threat that afflicted all nations.

## 4. Key Phases in the U.S. Response

The data shown in Figure 10-1 indicate five distinct phases in the U.S. response, with the first four phases becoming progressively worse, until finally, the fifth phase reports a decline in new infections and deaths accompanied by the roll-out of three vaccines. These phases will be discussed briefly in turn.

### 4.1. Early Discovery and Denial: January 1 – February 29, 2020.

The months of January and February were essentially months of scattered discovery of single cases of COVID-19 in coastal states and largely denial of a major public health threat by the incumbent president. The first case in the U.S. was reported in Washington state on January 20, 2020, of a man who had recently traveled from Wuhan, China. That case led to efforts to implement classic public health methods of testing, tracing, and isolating infected cases, Public health experts called for a wide program of testing and tracing to monitor the spread of the disease in the country, but needed test

kits to do so. The Centers for Disease Control sought to develop its own test kits for COVID19, but in fact failed in the first attempt, losing critical weeks for implementing a widespread testing regime. As an increasing number of confirmed cases were reported in several countries, the World Health Organization declared COVID-19 to be a Public Health Epidemic of International Concern on January 30, 2020. One day later, President Trump declared a public health emergency for the U.S. on January 31, 2020, and imposed a ban on travelers entering the country from China.

After initially denying requests from international scientists to learn more about the origin and characteristics of the virus, China hosted a visit of international scientists, including U.S. scientists, to Beijing and Wuhan in mid-February, 2020. The visit, while graciously managed by the Chinese, yielded little new information. In the U.S., the number of cases steadily increased from state to state, and governors of multiple states called for federal assistance. In response, President Trump established a National Coronavirus Task Force on February 26, 2020, to be chaired by the Vice President, Mike Pence, not the Director of the Centers for Disease Control, as was previous practice. While some actions were taken during this two-month period, they were scattered and directed more toward building a public relations campaign against the virus than coordinating a rigorous program of stopping the spread of the virus.

## **4.2. Uneven Recognition of Threat: March 1 – May 27, 2020**

By early March, community transmission had been verified in California, Washington, and New York, and calls for testing and tracing were matched by calls for personal protective equipment and ventilators as patients were beginning to fill the hospitals in New York, Chicago, and Seattle. Six counties in the San Francisco Bay Area declared a shutdown of

public gatherings, and asked residents to wear masks and observe social distancing rules. The count of confirmed cases increased particularly in coastal states that were entry points for travelers. Assuming that most infections were arriving in the U.S. from other countries, President Trump imposed a travel ban on European nations on March 11, in addition to his earlier ban on travel from, to China. Noting the increasing rate of infections, President Trump declared a national emergency for COVID-19 on March 13, 2020, invoking the Stafford Act that provided federal funds to be used for emergencies and the National Emergencies Act that provided authority for the use of emergency powers to waive restrictions and allow mobilization of services to meet a national emergency. States began to follow, as California declared a state emergency to release state funds for response operations on March 19.

In effect, most states, not all, implemented lockdown measures. Schools closed, and moved instruction – from kindergarten to university classes – online. This created a massive dislocation for education



and revealed the stark gap in access to internet connections and electronic devices for children of rural and low-income families. Businesses moved operations online, encouraging those who could, to work from home. Again, the lockdown revealed significant disparities between upper income, white-collar workers who could work from home and agricultural workers, restaurant personnel, or delivery workers who could not. This meant that low-income and minority workers were more exposed to the virus, and more susceptible to infection; unemployment rose to 14.7% in April. The consequences were severe: economic costs, job losses, high numbers of applications for unemployment assistance, and businesses cutting back employees or closing altogether. Against this background of economic loss, the numbers of confirmed cases, hospitalizations, and deaths increased steadily, with the centers of escalating cases moving around the country, from New York to Chicago to Florida.

The most consequential step taken by the federal government in response to the burgeoning challenges of COVID-19 was the passage of a \$2.2 trillion relief bill, the CARES Act, that was signed into law by President Trump on March 27, 2020. This bill provided immediate relief in payment of \$600 checks that were sent directly to the bank accounts of people with incomes under \$75,000 and extended unemployment assistance and rental assistance to keep people in their homes. The President further announced, on May 15, Operation Warp Speed, a program of public support for pharmaceutical companies and scientists to find a vaccine that would prevent illness and death from COVID-19, with luck, before the end of 2020. Despite these very positive steps, communications from the White House continued the false assurances that the virus would disappear with warmer weather and dubious recommendations for treatment with hydroxychloroquine and bleach.

### **4.3 Mixed Signals Across Jurisdictional Levels: May 28 – October 14, 2020**

The trends in infections, deaths, and operational response varied significantly across the 50 states throughout the summer months of 2020. The Trump Administration did not develop a national policy, but essentially shifted the responsibility for managing pandemic actions to the governors of the 50 states. This led to a patchwork of policy responses, with some governors enacting strict mandates for wearing masks, limiting travel, closing public venues, reducing the size of meetings, followed by cities, counties, and school districts enacting their own policies and practices, and other governors rejecting public health guidelines presumably to protect economic activity. Ironically, the evidence showed that the primary means to protect the economy was to protect public health. Instead, President Trump and his followers viewed requirements to protect public health as an infringement on personal freedom, leading to a partisan interpretation of public health guidelines. The result was a rolling wave of infections across the country as one state's practices to slow the virus was limited by the neighboring state's refusal to do so.

The increasing polarization of views toward public health restrictions was sharply exacerbated by a white police officer's actions that deliberately led to the death of a black man in Minneapolis on May 25, 2020. The actions were captured on a cell phone video that went viral after the killing, and led to widespread protests against police brutality in city after city across the country. The protest events compounded the concern for COVID-19, and although the protests were outdoors, largely peaceful, and multiracial with participants wearing masks, they served as a flashpoint for far-right militant groups who asserted their own right to bear arms in states that permitted open-carry gun laws. President Trump exacerbated the situation in an election year by sending federal troops to Portland, Oregon ostensibly as a show of law and order, but effectively as an act of intimidation to the protesters. These events created even more unrest and anxiety in a nation already straining under economic and social pressures from exposure to the virus.

Despite CDC guidelines asking people to stay home, many gathered to celebrate the national holiday, July 4<sup>th</sup>, and the number of cases spiked again in July. These spikes were further exacerbated by a severe set of natural hazards striking different parts of the country – wildfires in the western states of California, Oregon, and Washington; hurricanes in the Gulf Coast states of Texas, Louisiana, and Mississippi, and flooding in the midwestern states of Iowa, Illinois, and Missouri. States, already burdened with expenses related to managing COVID-19, struggled to provide operational response to these extreme hazard events, while they were coping with cascading crises, each contributing to cumulative strain on the society. The stock market tumbled; unemployment was rising; trust in government was eroded by partisan rivalry and lack of substantive action to cope with the increasing burden. In the absence of substantive policy at the national level, governors of neighboring states formed alliances to share stocks of personal protective equipment (PPE) and to coordinate policies on testing, tracing of cases, and interstate travel and commerce.

#### **4.4. Rampant Escalation of Cases and Deaths, October 15, 2020 – January 19, 2021**

The months between mid-October, 2020 and mid-January, 2021, as shown in Figure 10-1 above, brought the worst escalation of cases and deaths over the entire year of 2020. These months coincided with the tentative decision of some schools and universities to reopen classes on campus, consequent flare-ups of infections, followed by shutting down in-person instruction and closing campuses again. Most critical were the Thanksgiving and Christmas holidays, when people who had been largely staying home for a year, defied CDC guidelines and traveled to be with family and friends whom they had not seen in person for months. The spikes in the numbers of confirmed cases, hospitalizations, and deaths increased exponentially over the numbers from March and April, and each day reported a new breach of the previous day's total of infections and deaths for the nation, with the virus spreading to rural states as well as urban coastal states.

At this point, benefits provided by the CARES Act were due to expire. Unemployment assistance under the CARES was scheduled to expire on December 31, 2020, bringing further economic hardship for low-income and minority groups. The House had passed a second relief bill, but the Republican majority leader refused to bring the HEROES Act, as it was named, to the Senate floor for a vote. The national Coronavirus Task Force stopped giving briefings, as they had been transformed essentially to campaign rallies for the president. Governors, mayors, health personnel were taking the actions available to them at their respective levels of authority, but the overall approach was mixed, with no consistent action or policy followed across the nation. Throughout these months, the presidential campaign continued, with efforts to dismiss or downplay the pandemic by the incumbent administration (Woodward, 2020), but with the opposing Democratic candidates making a major issue of the failed management of the pandemic and the unnecessary losses in lives and livelihoods as a result (C-SPAN, Oct. 23, 2020).

During this time of runaway escalation in the numbers of confirmed cases, hospitalizations, and deaths, two events fundamentally changed the trajectory of managing the pandemic in the U.S. On November 3, 2020, the presidential election produced a record-high turn-out of voters across the country in the midst of the pandemic. The Democratic candidate, Joe Biden, won a resounding majority of the popular vote, and narrow majorities in key swing states to win a sizeable majority, 306 to 232, in the electoral college, securing the election. The electoral college is an anachronistic legal mechanism that favors rural states with lesser populations; in 2016, large numbers of voters disenchanted with both candidates stayed home, and narrow majorities in swing states returned a majority of electoral votes for Donald Trump. Given his unexpected victory in 2016, Donald Trump refused to concede his loss to Joe Biden in 2020, and continued a false narrative that he won the election, filing more than 60 law suits to challenge the results, but losing virtually every case, including two cases filed before the Supreme Court. Despite Trump's determined efforts to overturn the election, the election results were verified by all 50 states, and Joe Biden was certified the winner of the 2020 election, poised to assume leadership of the country, and importantly, to manage pandemic response operations on January 20, 2021 when he would be formally sworn in as president.

The second major event was transformative in a quiet, profoundly hopeful way. In December, 2020, the U.S. Food and Drug Administration authorized two vaccines for emergency use ([www.fda.gov](http://www.fda.gov)), bringing long-awaited access to a pharmaceutical means to halt the spread of the disease. The Pfizer vaccine, shown in trials to be 95% effective against COVID-19, was approved for distribution to the population on December 11, 2020. It was followed one week later on December 18, 2020, by approval for the Moderna vaccine, shown in trials to be 94.1% effective in preventing infection by COVID-19. The two vaccines bring a practical solution to stopping rampant transmission of the virus, but the task of vaccinating at least 270 million people to achieve a state of collective immunity where the virus

no longer propagates quickly through the U.S. population of 330 million requires a massive, complex mobilization of both transport and personnel for implementation. Complicating the task further is the emergence of new mutations of the virus with still unknown characteristics in transmissibility and severity of infection. The policy task is enormous, even as the solution becomes clearer in practice. Yet, these two events, taken together, offered the potential for major change in managing the pandemic response in the United States.

#### **4.5. Change in Presidential Leadership; Vaccination Policies, Practice, January 20-March 15, 2021**

The change in presidential leadership led to a marked change in managing the response to the pandemic, as President Biden had made controlling the pandemic the first priority of his new administration. With two approved vaccines available, the task now turned to producing sufficient vaccine to vaccinate the estimated 80% of the population that would be necessary to stop reproduction of the virus within the U.S. This task is not easy. It requires a major logistical operation to ship vaccines, which must be kept frozen at sub-zero temperatures until they are ready for use, to every state, county, city, and hamlet in the country. It means recruiting medical personnel who can give the vaccinations safely to the wide range of demographic groups in the country. It also means setting priorities for vaccination by greatest need: elderly, essential workers, those with pre-existing medical conditions who are most vulnerable; establishing vaccination sites, and scheduling appointments for people in terms of the priorities set. This task was made more difficult by the lapse in transition planning from the Trump Administration to the Biden Administration, and the discovery that little planning for distribution of vaccines had actually been done by the previous administration.

With a new strategy of vaccination against COVID-19 available and responsible for the production and distribution of the vaccines, President Biden moved quickly to set a new course of action for the U.S. in terms of managing the pandemic. He developed a rigorous plan to deliver vaccines to all 50 states and territories. To do so, he mobilized the Defense Production Act to produce sufficient vaccine for 300 million people, going beyond the target of 80% of the population needed for ‘herd immunity.’ He authorized use of the National Guard to assist with vaccinations, agreeing to reimburse the states for deploying their National Guard troops for this purpose. He called for volunteers and contributions of space and personnel to carry out this massive effort, indeed, a ‘whole of nation’ response.

The changes in presidential leadership, management strategy, and the scientific discovery of the vaccines reversed the trajectory of failed, uncoordinated management to the threat of COVID19 over the preceding months of 2020, and placed the United States in a leading position among nations of the world in vaccinating its population. A third, single-dose vaccine, produced by Johnson & Johnson,

was approved for distribution on February 28, 2021. As of March 11, 2021, fully 10% of the U.S. population, 33 million, have been fully vaccinated, another 64 million persons have received at least one dose of the vaccine (Smith-Schoenwalder, 2021). The U.S. set a new record of vaccinating over 4 million people in one day on March 14, 2020, and the nation is now on track to have sufficient vaccine and capacity to vaccinate every person in the U.S. by the end of May, 2021. When asked at a news conference what he would do if the U.S. had surplus vaccines, Biden's response was immediate: "the U.S. would share the vaccines with the rest of the world" (MSNBC, 2021).

## **5. Interacting, Dynamic Conditions in Policy and Practice**

At least five interacting, dynamic conditions contributed to the sobering record of response operations to COVID-19 in the United States. These conditions reflect the three factors initially laid out in this analysis – science, uncertainty, and partisanship – but the impact of the pandemic altered the social and economic contexts of the nation in lasting ways. Further, the decision processes were constrained by the administrative context of a federal system that assumes the slow process of building consensus over time. Time proved to be a critical factor in the progression of the virus that did not wait for adaptation at different scales of operation. Although identified in the earlier discussion of the phases of response, five conditions shaped the operational context in the U.S. and are summarized briefly below.

### **5.1. Scientific Context**

The novelty of the coronavirus and the uncertainty surrounding its mode of transmission and capacity to infect humans were primary factors in shaping the decision processes in reference to COVID-19. Scientists and medical personnel had little knowledge of the virus when it first emerged. Instead, they discovered its mechanisms of transmission and treatment by direct observation and experience. Conflict existed between scientific standards of evidence and uncertainty regarding the characteristics of the novel virus. The search for established evidence to meet scientific rigor takes time, but the virus was highly transmissible. The gap in time between date at which virus was first detected and date at which practical measures were taken to stop transmission led to an exponential escalation of infections across the world.

In the U.S. and globally, the Centers for Disease Control (CDC) had a reputation for professional excellence, but the Trump Administration pressured the leadership to downplay the virus and weaken public health guidance to give false assurance to the U.S. public that the virus was under control (Maddow, 2020; Woodward, 2020). The president made misleading claims; professional staff at the CDC left the agency in disagreement, and the CDC lost credibility both in the U.S. and the world. The

limits of the scientific method in highly uncertain contexts exacerbated the public's vulnerability to false narratives that were intended to create political certainty where none existed.

## **5.2. Political Context**

The pandemic occurred in an election year with a minority president intent on minimizing the virus as harmful to his chances of re-election. There was a virtual absence of leadership to counter COVID-19 at the national level, leaving governors of the fifty states to navigate the situation largely on their own. The result led to conflicting policies and practices among the states, and widespread escalation of infections as people and trade traveled among the states. Further, there was a continuing battle over access to health care; even during the pandemic, the incumbent administration pursued a case before the Supreme Court to limit access to health care at the very time when people needed it most (NYT, 2020). Missteps in managing the pandemic became a major factor in the electoral defeat of Donald Trump, but led to a change in national leadership that placed control of COVID-19 as the first priority for the incoming Biden Administration.

## **5.3. Economic Context**

As businesses closed, transportation stalled, schools and universities moved to online instruction, unemployment rose to 14.7% in April and still hovered around 8.4% in August. The cost was and still is enormous. Congress passed, and President Trump signed into law a \$2.2 billion program of benefits to cope with COVID-19 called the CARES Act on March 27, 2020, but the initial federal stimulus payments ended in July, and the follow-up HEROES bill, passed by the House, was never placed on the floor of the Senate by the Republican majority leader. During the months of 2020, by any measure, the economy suffered as the pandemic spread across the country. Federal borrowing reached new highs; the stock market was volatile; small business owners had to close. Workers suffered the largest job losses since the Depression of the 1930's. The incoming Biden Administration brought a focused perspective on controlling the virus, and used new tools through three approved vaccines to do so. The new Administration signed into law a major American Rescue Plan on March 11, 2021 that provides \$1.9 trillion in assistance not only for COVID-19 relief and implementation of vaccinations, but also provides much needed assistance to families with children, addressing some of the most critical gaps in social inequality.

## **5.4. Social Context**

The cascade of interdependent effects from COVID-19 fell most heavily on minorities. People of color were most vulnerable to the virus and suffered disproportionately serious consequences and

death from infection. People of color often worked in front-line jobs, were more exposed to contagion, yet the first to be laid off as businesses closed. This cumulative economic burden exposed the latent racial inequality in the U.S. economic system that was accentuated by long-standing police brutality against African-Americans in some cities. Brutal acts by the police against blacks, captured on social media, led to massive demonstrations against racial injustice that crossed race, age, income, education, and gender lines across the country through the summer months of 2020. The incumbent president responded with threats, insults, questionable use of federal forces, further escalating tensions and compounding social and economic losses with the virus threat. The pandemic exposed long-standing weaknesses and disparities in racial justice, income, access to health care, and police brutality that initiated a cascade of crises that affected low-income people. These crises were exaggerated further by intense natural hazard events: wildfires in California, Oregon, and Washington; hurricanes in Texas and Louisiana; flooding in Illinois and the Carolinas. Measures taken by the incoming Administration to address these long-standing disparities worsened by COVID-19 provide a positive step toward healing the social inequalities laid bare by the pandemic.

## **5.5. Administrative Context**

The federal administrative structure in the U.S. allows different decision processes across the fifty states and within the fifty states. Absent leadership at the federal level, states and cities were left to manage the public health risk on their own, leading to fragmented policies, escalating transmission of the virus across state, city, and regional lines. Intensely partisan divisions turned a public health threat into a political/cultural war.

The federal system of administrative government creates multiple points of decision that makes it more difficult to reach consensus in a large, complex society with a population characterized by diverse demographic and ethnographic groups. The underlying assumption is that people will learn and will eventually reach consensus that all can support, but this assumption is valid only when there is candid, factual communication of the current state of operations. The incumbent administration, rather, produced its own set of facts that were repeatedly at odds with reality (NYT, 2020).

## **5.6 Cumulative Uncertainty Across Policy Spheres**

Each of these five conditions contributed to building a cumulative uncertainty regarding the most appropriate, timely, practical way of coping with the virus. The sobering fact was that peoples' lives were at stake, and that any delay in responding to public health requirements worsened the economic consequences, which in turn, exacerbated the political tensions in the nation and accelerated the protests over social inequality. These cascading crises left the nation vulnerable to the severe natural

hazards that have increased in scale and scope with the major threat of climate change that was largely ignored by the Trump Administration. As the cascading crises increased the pressure for change, the nation shifted, in the November, 2020 presidential election, to a tested, experienced political leader who could frame the issues for action with empathy, allowing at least the majority of the nation to forge a common strategy. The new Biden Administration has focused on a consistent national strategy to bring COVID-19 under control through a program of rapid, mass vaccination backed by the full authority of the federal government. This strategy will begin the slow, deliberate process of healing a divided nation, but achieving that goal rests on the nation's capacity to learn from the serious missteps in coping with a global pandemic. The challenge is to forge a more informed, constructive model for dealing with future complex global risks that surely will come.

## **6. Designing a Collective Learning Process**

The critical question is how will the U.S. correct the massive missteps observed in response to the global threat of COVID-19, and importantly, who will mobilize the change? There are indeed corrective steps in motion, but are they moving in a consistent, coherent direction? The challenge is to integrate a collective learning process that is strong, consistent, and constructive and enables the society to learn and adapt to dynamically changing conditions in a timely, informed, socially responsible mode. Returning to the theoretical concepts used to frame this analysis -- complex adaptive systems, collective cognition and action, and complex time -- these basic concepts have been affirmed through the narrative analysis of the five phases of response operations from January 1, 2020 through March 15, 2021.

### **6.1. Collective Learning in Complex, Adaptive Systems Under Stress**

Collective learning is not a simple process under normal operating conditions, but it becomes especially challenging when the whole system is under life-threatening stress. There are no shortcuts. It is essential, first, to identify, understand, and assess the operating components of the system, before it is possible to forge a reasoned strategy to manage threats to a changing system. Given the size, complexity, and scale of operations in the U.S., this is no easy task. It likely exceeds the capacity of current administrative practices that rely on informed consent. The time and effort required to explain, encourage, and coach 330 million people to adopt new behaviors to protect themselves and others, as well as to avoid old behaviors that put themselves at others at risk under present modes of administrative action clearly was not wholly effective as shown through phases one through four above. What proved effective in scattered instances of unplanned collective action were the symbols and signals of others taking constructive action in informed, positive ways, modeling constructive



behavior like wearing masks, keeping six feet apart, and offering assistance to others in need. For example, people did learn to wear masks in most parts of the country, but modeling the practice and engaging them in a shared effort to protect themselves and one another appeared more effective than legal mandates that provoked defiance and anger (examples from S.D., TX).

The models, however, need to be based on sound evidence and current assessment of the state of risk. Current information technologies can be used to great advantage to monitor changing patterns among demographic groups, types of exposure, notifications of exposure, and conditions of vulnerability. Using the full power of information technologies to track cases of infection and the movement of infections within different population groups proved effective in other countries like South Korea and Taiwan. While such methods need to be consistent with privacy concerns, carefully designed and executed, the data produced could model different strategies to control the contagion. Importantly, understanding who is most at risk, and modeling different modes of transmission among vulnerable groups is critical. The devastating impact of COVID-19 on elderly patients in long-term care homes is only one example of losses that could be avoided with careful monitoring, reporting, and analysis of results.

## **6.2. Collective Cognition**

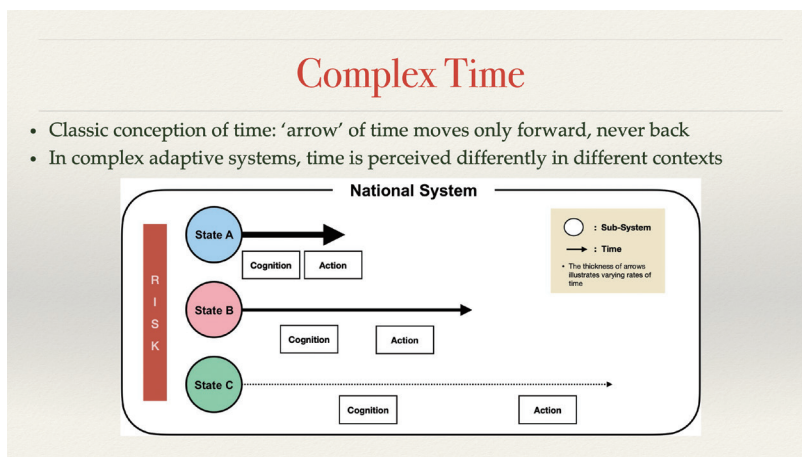
Building collective cognition of risk includes the crucial capacity for empathy essential to build social coherence (Fligstein and McAdam, 2012). It is the capacity to understand the conditions that others are experiencing, and to recognize the impact of one's actions – or inactions – on the larger community that creates a sense of commitment to action. This critical factor was missing in national leadership for the months of 2020, and, in practice, was left to governors, mayors of cities, leaders in private and philanthropic organizations to build a commitment to action at their separate levels of responsibility. This task requires clear, timely, evidence-based information that updates the status of operations in a dynamically changing environment. Patterns of public communication that repeatedly denied facts and distorted scientific findings at the national level misled public understanding of the risks of COVID-19 and hampered efforts by public health experts to build collective cognition of the serious threat posed by the virus. Such distortions can only be countered by valid information and openness to inquiry in public discourse. Establishing valid practice in communicating clearly regarding what is known and what is not known, and demonstrating the capacity to correct mistakes are essential skills needed to rebuild public trust in government.

### 6.3. Complex Time

The dynamic effects of complex time were verified in undeniable ways by the progression of COVID-19 across the U.S., as different states recognized the risk of the novel virus at different times, responded to the threat to varying degrees. Some states, such as California and Illinois, acted quickly to stop transmission by multiple means while others, such as Texas and Arizona, chose to deny the risk, only to impose lockdown measures after the number of cases spiraled upward and their hospitals filled. The concept of complex time shows the compelling influence of the gap between cognition and action that characterized this dynamic period of virus transmission and efforts at control within the U.S. society as a complex system.

Figure 10-2, below, provides a simple model of the differential rate of cognition and action in response to the virus at different times, and the impact of the variance in rates of change on slowing down the overall response the whole system. The model shows only the differential rates among the states, but within each state, there were similar differences among the counties and between the cities and the small towns. As the months progressed in 2020, escalating rates of infections, hospitalizations, and deaths ricocheted back and forth among the 50 states, as actions taken by one state affected the rates of exposure and infections in neighboring states, slowing down the capacity of the whole national system to bring the virus under control.

**Figure 10-2. Complex Time in Differential Response Operations to COVID-19 at the State Level**



Source: Figure by Sae Mi Chang.

Control of the virus is a macro level problem, as different states, counties, and cities have different rates of exposure to risk, different levels of resources and knowledge, and consequently muster

different levels of organization and management to cope with the disease. Only by adapting their respective performances on testing, tracing, social distancing, travel, and exchange of goods, could the 50 states achieve a nation-wide level of control for the country. Such an effort requires national level leadership and the articulation of a shared goal for the nation, accompanied by the resources and trained personnel to achieve a national standard of reporting and action. Building the capacity for self organization and risk management at different scales of operation in a large, complex, dynamic nation requires flexibility, adaptation and iterative learning under continuing conditions of uncertainty.

## 7. Conclusion

The United States will recover, chastened by its performance during the months of 2020 on the global scale, and heartened by its recent discovery of vaccines and strong mobilization of vaccine distribution in early 2021. Three areas are likely to be fundamental in moving this recovery forward. The *role of science*, essential to policy decisions regarding public health, will regain public influence and credibility as new discoveries are supported by governmental agencies practicing their legal responsibilities of inquiry and oversight. The CDC, under new leadership, is resuming its former professional status and again providing rigorous guidance for managing infectious diseases, including COVID-19. Gone are the efforts to mold CDC guidance to fit an incumbent president's preferred position. In authority again are senior scientists who had resisted political pressures to report the actual status of the infections. Important will be establishing the organizational policies and procedures to ensure that such politicization does not happen again, and that the full rigor of the medical and public health research community be allocated the financial and professional support to explore and anticipate other infectious diseases that are likely to emerge in the future.

Secondly, the *power of information technologies* will need to be harnessed to increase the capacity for collective learning at multiple scales of operation. The pervasiveness with which the SARSCoV2 virus was transmitted throughout the nation meant that no state, county, city or small town in the nation escaped exposure. The size and scale of the risk exceeded the capacity of standard administrative processes to manage it, and the tasks of monitoring and modeling alternative strategies to cope with an unknown virus require sophisticated data collection, analysis, and modeling techniques. Building the organizational capacity to collect data on changing performance of multiple systems simultaneously and the further capacity to analyze the data to anticipate potential strategies of action becomes an essential investment to reduce emerging risk. This capacity needs to be developed at every level – small towns, big cities, county, state, and federal agencies – to enable communities to address large-scale, dynamic threats like infectious diseases.

Thirdly, investing in a *national information infrastructure* with equal access to all groups will be fundamental to support responsible, self-organizing management of risk within the U.S. in an ever-changing world. People will learn, they can adapt and change, but to do so, they need the basic infrastructure to search, exchange, store, and update information on the status of their respective communities. Such an information infrastructure is as essential to developing the capacity for societal learning as the interstate highway system is to commercial trade and economic development. The basic institutions for such a national information infrastructure are already in place, with land-grant universities in all 50 states. The land-grant universities were founded with a public mission to serve the educational and research needs of the residents of each state. Linking these universities together through the power of current information technologies is the next step toward building this capacity at a national scale.

Importantly, achieving capacity for continuous learning in one country, even a large, complex, dynamic country like the United States, is only one part of the larger global arena. It will be imperative to build on the lessons learned in all countries from this global pandemic (see, for example, Moon, 2020), and use these insights to develop the capacity for global cooperation and collaboration in addressing major problems like infectious diseases that one country alone cannot solve. Other issues require global attention: climate change, energy use, clean water and the continuing problems of health, education, and welfare for the nearly 7.7 billion people on this planet. Only through developing an interdisciplinary, international program of continuous learning and adaptation will the global community of nations be able to sustain a healthy, humane world.

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## References

- Bak, P. 1996. *How Nature Works: The Science of Self-Organised Criticality*. New York, NY: Copernicus Press.
- Casselman, Ben. 2020. A Collapse That Wiped Out 5 Years of Growth, With No Bounce in Sight. *The New York Times*. July 30. <https://www.nytimes.com/2020/07/30/business/economy/q2-gdp-coronavirus-economy.html>
- C-SPAN. 2020. Joe Biden Remarks on the Pandemic Response. Campaign 2020. October 23, 2020. <https://www.c-span.org/video/?477287-1/joe-biden-unveils-coronavirus-pandemic-recovery-plan>
- Carlson, J.M., Alderson, D.L., Stromberg, D.S., Bassett, E.M., Craparo, Guitierrez-Villareal, F. and Otani, T. 2014. Measuring and modeling behavioral decision dynamics in collective evacuation. *PLOS ONE*, 9 (2): e87380.
- Comfort, L. K. 2007. “Crisis management in hindsight: Cognition, communication, coordination, and control.” *Public Administration Review* 67: 189-197.
- Comfort, L.K. 2019. *The Dynamics of Risk: Changing Technologies and Collective Action in Seismic Events*. Princeton: Princeton University Press, Studies in Complexity.
- Comfort, L.K., N. Kapucu, K. Ko, S. Menoni, and M. Siciliano. 2020. Crisis Decision-Making on a Global Scale: Transition from Cognition to Collective Action under Threat of COVID-19. *Public Administration Review*, Vol. 80, Iss. 4, pp. 616–622.
- DHS (Department of Homeland Security). 2020. <https://www.dhs.gov/secretaries-homeland-security>
- FEMA (Federal Emergency Management Agency). 2006. <https://www.fema.gov/emergency-managers/national-preparedness/frameworks/response>
- FDA (Food and Drug Administration). 2020. Pfizer vaccine. Pfizer, Dec. 11, 2020, USFDA [https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/moderna-covid-19-vaccine#:~:text=On%20December%202018%2C%202020%2C%20the,SARS%2DCoV%2D2D2\).](https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/moderna-covid-19-vaccine#:~:text=On%20December%202018%2C%202020%2C%20the,SARS%2DCoV%2D2D2).)

- FDA (Food and Drug Administration). 2020. Moderna vaccine. Dec. 18, 2020. [https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/moderna-covid-19-vaccine#:~:text=On%20December%2018%2C%202020%2C%20the,SARS%2DCoV%2D2\).](https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/moderna-covid-19-vaccine#:~:text=On%20December%2018%2C%202020%2C%20the,SARS%2DCoV%2D2).)
- Fligstein, N. and McAdam, D. 2012. *A Theory of Fields*. New York: Oxford University Press.
- Glass, R.J., A.L. Ames, T.J. Brown, S.L. Maffitt, W.E. Beyeler, P.D. Finley, T.W. Moore, J. M Linebarger, N.S. Brodsky, S.J. Verzi, A.V. Outkin, and A.A. Zagonel. 2011. Complex Adaptive Systems of Systems (CASoS) Engineering: Mapping Aspirations to Problem Solutions. Albuquerque: Sandia National Laboratories. June (SAND 2011-3354C).
- NIH (National Institutes of Health). 2021. Department of Health and Human Services. <https://www.nih.gov/about-nih/what-we-do/nih-almanac/department-health-human-services-secretaries>
- Coveney, Peter and Roger Highfield. 1991. *The Arrow of Time: A Voyage through Science to Solve Time's Greatest Mystery*, New York: Ballantine Books
- Johns Hopkins University Coronavirus Resource Center. 2021. Johns Hopkins University, Baltimore, MD.
- Kahneman, D. Slovic, P. and Tversky, A. 2013. *Judgment under Uncertainty: Heuristics and Biases*. Cambridge, UK: Cambridge University Press. (First printing, 1982).
- KHN. 2020. White House Task Force Directed CDC To Weaken COVID Testing Guidelines. <https://khn.org/morning-breakout/white-house-task-force-directed-cdc-to-weaken-covid-testing-guidelines/>
- Krakauer, D. 2020. *Complex Time*, Santa Fe: Santa Fe Institute Seminar Series. July 31. <https://www.santafe.edu/research/themes/complex-time>
- Layzer, D. 1975. The Arrow of Time. *Scientific American*. 233, (6): 56-69.
- Moon, M.J. 2020. Fighting COVID-19 with Agility, Transparency, and Participation: Wicked Policy Problems and New Governance Challenges. *Public Administration Review*. Covid Viewpoint Symposium. Vol. 80, Iss. 4: 651-656.
- Smith, Eric and Harold J. Morowitz, 2018. *The Origin and Nature of Life on Earth: The Emergence of the 4<sup>th</sup> Geosphere*. Cambridge, UK: Cambridge University Press.

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WHO (World Health Organization). 2020. Situation Reports, 2020. <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports>

Woodward, B. 2020. *Rage*. New York: Simon & Schuster.





**Chapter**

# 11

International Comparative Analysis of COVID-19 Responses

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## **Summary and Discussions for Policy Implications**

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## Chapter 11. Summary and Discussions for Policy Implications

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### 1. Summary of Chapters

This book compares major issues and policy responses of nine countries in mitigating COVID-19. Nine countries are carefully selected based on two criteria: regional representation and unique characteristics of COVID-19 policies. Geographically speaking, there are three from Europe (Sweden, Finland, Germany), one from North America (U.S.), one Oceania (New Zealand), four from Asia (Japan, Korea, Thailand, and Vietnam). In terms of political system, five countries (Japan, Thailand, Finland, Germany, Sweden, New Zealand) are parliamentary systems while Korea and the U.S. are presidential systems. Only Vietnam is a socialist republic system. Five Asian-Pacific countries (South Korea, Japan, Thailand, Vietnam, and New Zealand) are basically unitary systems while others are federal systems.

**Table 11-1. Selected Countries**

Region	Country	Political System	Centralization	Total Confirmed Cases (per Mill)	Total Death per Million
Asia	Korea	PRS	Unitary	2,720	38
	Japan	PAL	Unitary	5,842	101
	Thailand	PAL	Unitary	2,106	13.7
	Vietnam	SOC	Unitary	66	0.5
Oceania	New Zealand	PAL	Unitary	554	5.4
Europe	Finland	PAL	Federal	16,648	171
	Germany	PAL	Federal	43,924	1,054.7
	Sweden	PAL	Federal	10,5797	1,430.9
N. America	USA	PRS	Federal	100,422	1,794.4

\*PRS: Presidential System; PAL: Parliamentary System; SOC: Socialist Republic System

Source: ourworldindata.org

As the table indicates, there are wide variations in the total number of confirmed cases and death per million. As of May 28, 2021, for example, The total number of confirmed cases per million ranges from 66 in Vietnam to 100,422 in the U.S. while the total death per million ranges from 0.5 in Vietnam to 1,794 in the US.

In Chapter 2, Kilkon Ko investigates Korean government's policy responses to COVID-19. He first reviews the response of South Korea to COVID-19 focusing on adaption and learning framework. Although South Korea was heavily hit by COVID-19 in February, 2020, the Korean government and citizens showed the remarkably successful control of COVID-19. The success was not because of a heavy lockdown as China adopted in response to Wuhan crisis. Rather, the libertarian approach relying on the citizens' compliance, technologies, and systematic test, tracking and treatment is a key success factor. The accumulated disaster response experiences have enabled the Korean government to realize the importance of shared information, risk cognition, and collaboration needs. The series of revisions of laws and guidelines can be seen as attempts to find a more effective way to communicate and coordinate actors in the disaster response network. The Korea's whole community approach casts light on communication and coordination rather than command and control capacity. Therefore, the most important lesson learned from Korea is that no single factor or actor can explain or underpin disaster responses' success or failure. The whole-community approach should be valued over the myth of the effectiveness of the strong command and control of the government-driven approach.

In Chapter 2, Sakuwa and Suzuki explore how Japan responded to and mitigated the spread of COVID-19. Despite several unfavorable conditions controlling the pandemic, Japan seems to have managed the pandemic more effectively than several other industrialized democratic countries in terms of its numbers of coronavirus infection cases and fatalities. However, Japan does not seem to have been as successful in containing the disease as other Asia Pacific countries. Japan's pandemic measures appear relatively loose, based on citizens' self-restraint behaviors and without a clear legal basis, when compared to other industrialized democracies and several Asia-Pacific countries. We argue that Japan's approach is characterized as a cautious and self-restraint-based approach that relies on citizens' self-restraint behavior and personal hygiene practices rather than on enforcing strict, legally-binding measures and proactively testing and tracing potentially infected individuals. Unlike many other industrialized democratic countries, Japan never implemented a strict lockdown, a process which requires enforced mobility and activity restrictions and mandatory quarantines with financial penalties for violations. Instead, Japan implemented "mild lockdowns" using non-binding request-based approaches to reduce mobility and certain types of public activities and relying on citizens' self-restraint behaviors to control the pandemic. In this chapter, we show several performance indicators of governments' responses to the pandemic and examine Japan's response to the pandemic from a broader comparative perspective. Then, we explain three institutional factors which may have been associated

with the distinctive characteristics of Japan's pandemic approach. These factors include 1) institutional constraints on the prime minister's leadership, 2) limited administrative capacity and pandemic unpreparedness, and 3) bureaucratic professionalism and closedness. The institutional and political settings in Japan with respect to the COVID-19 response are characterized by stronger restrictions upon the administration and prime minister's leadership. Finally, we outline the Japan's Covid-19 containment policy by looking at several phases of Japan's response from January 2020 to early 2021.

In Chapter 4, Poocharoen provides the description and analysis of policy responses to COVID-19 in Thailand from March 2020 to February 2021. The current military junta-linked government used a combination of strict and innovative responses during COVID-19 pandemic with the twin goals to curb the virus and the swelling of political protests around the country throughout the year 2020. The author offers four features of the Thai context that explains the policy results – the 4Cs. They are culture of greeting and respecting doctors; centralized government; community health workers; and consensus on health science. First, the culture in Thailand is such that there is very little physical contact when greeting and interacting. People normally do not shake hands, kiss, nor hug as a way of greeting. Thais have healthy respect for doctors and their advices. Second, the government, which was already highly centralized, responded in a swift and coordinated manner from the beginning. There were no competing narratives or instructions. The Prime Minister setup a central coordinating body from early on to give advice, make decisions, and communicate. Thirdly, Thailand has a strong and long history of 1 million community health workers on the ground. These semi-volunteers play crucial roles to do contact tracing, provide accurate information, observe community members, and initial diagnoses. Fourth is the consensus in the Thai society on the health issue. There were very little debates related to freedom of movement or freedom of choice, which was observed in other countries. There are two lessons for other countries. First centralized response is key but could be long term obstruction for democratic development. Second, community-level health volunteers is a model worth exploring for countries with inadequate health professionals. They can disseminate health information and provide necessary services on the ground.

In Chapter 5, Nguyen examines how Vietnam, a nondemocratic regime and a developing country, effectively mitigate COVID-19. Vietnam's single-party state was, by 2020, the second safest place on earth when it comes to the pandemic, just behind Taiwan, and about 3,000 times less deadly than either the United States or the United Kingdom. Vietnam's effective pandemic response was in fact a surprise to many. It has been reported that its success to a host of factors, including the government's early actions to close schools and borders, extensive contact tracing and mass quarantine, past experience with SARS and MERS, and coercive and surveillance measures. In this chapter she argues that Vietnam's effective response is enabled by the country's ongoing efforts to improve governance and central-local government policy coordination. The strength of its state capacity was not born overnight

but resulted from decades-long efforts to improve governance and responsiveness at local levels. Vietnam's story thus moves beyond the simple distinction of regime type to challenge us to think deeper about bureaucratic capacity and responsiveness within all forms of government.

With respect to New Zealand's comparatively successful management of the pandemic, Henderson and Withers in Chapter 6 examine how distinctive situational and institutional factors combined to produce a policy environment conducive to staunch public health interventions. New Zealand was, in many ways, the most striking performer among OECD countries. As of January 2021, there had been only 460 confirmed cases per million people and 26 fatalities. Having acted relatively swiftly, decisively and with a clear prioritisation of public health over economic concerns or the preservation of civil liberties, New Zealand was able to 'flatten the curve' of COVID-19 infections during the early stages of the pandemic and thereafter pursue a strategy of elimination that few others have been able to emulate. The chapter prefaces its analysis with an overview of aspects of New Zealand's geographic, political and demographic context relevant to the pandemic, emphasising policymaking propensities associated with being a small and remote island nation with a unitary system of governance and a history of regional stewardship. We then provide an in-depth assessment of the government's public health and economic policy responses during critical phases of the COVID-19 timeline – assessing how key policies were informed, formulated, communicated and implemented – before linking these interventions to an underlying matrix of political, analytical and operational capacities informed by the current and previous governments. Importantly, we identify that these capacities (or lack thereof) not only enabled New Zealand's highly restrictive response, but constrained the ability to pursue alternative measures that may have attained similar outcomes with fewer shortcomings. Finally, we consider these drawbacks with respect to ongoing social and economic challenges arising from unilateral border closures and periodic lockdowns, noting that disadvantaged Māori and Pasifika populations are disproportionately affected by associated hardship and identifying sector specific impacts for industries of national importance.

In Chapter 7, Pertti Ahonen examines how the Finnish government handles the pandemic crisis by focusing on the roles of local governments and health communities. He also discusses Finnish politics of COVID-19. Health care in Finland is essentially a responsibility of the self-governing municipalities drawing the bulk of their revenue from the local income tax, although there is also statutory occupational health care, a system of health care for students of university and polytechnic higher education, and commercial health care providers. During the pandemic, the capacity of Finland's health care sufficed reasonably well both as concerns COVID-19 testing, COVID-19 care at homes, COVID-19 care in the in-patient clinics of municipal health centers, analogous care in the central hospitals and university hospitals both run by associations of municipalities, and as concerns intensive COVID-19 hospital care and COVID-19 vaccinations. In the combat against the pandemic,

the Finnish municipal sector including its clinical professionals and its health care managers were working remarkably independently, enabled by major government funding paid to the municipal sector in the capacity of a major extraordinary grant. The pandemic has also revealed important fault lines in Finnish politics and society. Socially isolated people have been hit hard, as have many of those working in such vulnerable sectors as hotels, restaurants, and the transportation of people. Lately, one of Finland's four parties with most seats in Parliament has comprised the right-wing populist party called the Finns. Generally, those who indicate they support the Finns also indicate the lowest willingness to obey COVID-19 related restrictions and follow COVID-19 related recommendations. However, as concerns reluctance to take a COVID-19 vaccination, the supporters of Finns, typically males, have been trailed by supporters of Greens, typically females.

In Chapter 8, Franzke and Kuhlmann analyse how German public administration has coped with the COVID-19 intergovernmental coordination, federal, Länder and local policy responses to the pandemic as well as the issues of scientific policy advice, institutional trust and the population's support of the containment measures. After presenting some basic statistical information about COVID-19 in Germany, the institutional set-up of crisis management in the German federal system is introduced and the preparedness and capacities of the health system for a pandemic assessed. Focusing on the developments in the year 2020, four major phases of German pandemic governance can be differentiated: Phase I: reliance on local management; Phase II: unitarization and centralization; Phase III: reemphasis on local discretion and variance; Phase IV: intergovernmental centralism. For these phases the responses and measures adopted by the federal, Länder and local governments were outlined and the (changing) coordination mechanisms at play characterized. The chapter also shows that while being well-prepared in terms of health capacities (ICUs, hospitals etc.) and (local) public health services, a number of shortcomings and deficits have become apparent during the crisis, some of which originate in policy decision of previous years, such as understaffed hospitals and care facilities. Furthermore, the analysis has revealed multiple problems, which have occurred over the course of the crisis, such as insufficient interdisciplinary policy advice, weakened parliamentary control mechanisms, poor digital preparedness of local health authorities, shortcomings in data transmission, and (partially) shrinking support levels of German government's crisis management by the population. Regarding intergovernmental coordination, a general trend towards more unitarization and centralization in pandemic-related decision-making up to what we label "intergovernmental centralism" worked out, while at the same time major implementation and management functions remained with the – increasingly overburdened - local levels.

In Chapter 9, Dahlström and Lindvall examine Sweden's public-health policies in the twelve-month period between January 2020, when Swedish authorities took the first steps to prepare the country for the new epidemic, and December 2020, when Sweden found itself in the middle of the epidemic's

second wave and new, more restrictive policies were being prepared and enacted. The chapter sets out to answer is why Sweden adopted public-health policies that were markedly different from those of most other Western European states. It begins with a brief overview of the spread of the new coronavirus within Sweden. It then describes the public-health policies Sweden put in place during the COVID-19 crisis in 2020, before turning to an analysis of the social and political factors that explain Sweden's distinctive approach to public-health policy during the pandemic. We reject a few common interpretations of Sweden's distinctive policies. Our own analysis emphasizes continuity, not change, and suggests that long-standing views within the public-health community were allowed to prevail due to the autonomy Swedish civil servants typically enjoy as long as they act within their remits.

Using a theoretical framework of complex adaptive systems, in Chapter 10, Comfort traces the interactions among decision processes at federal, state, and local levels that led to fragmented perceptions of threat, partisan rhetoric advancing uncertain science, and responsibilities for action shifted from the national to sub-national governments that enacted scattered and disparate policies. The challenge of managing an unknown, deadly virus during a presidential election year significantly affected the social and political dynamics that altered the capacity of the nation to achieve a coherent consensus for collective action to suppress the virus. The outcome of the November 2020 election produced a change in presidential leadership, management strategy, and evidence-based reporting on the status of the pandemic to the public. The scientific discovery of two vaccines reversed the trajectory of failed, uncoordinated management to the threat of COVID19 over the preceding months of 2020 and placed the United States in a leading position among nations of the world in the production of vaccines and in vaccinating its population. The experience of the United States shows that three factors are essential in developing the capacity for global cooperation and collaboration in addressing problems, like the pandemic, that one country alone cannot solve. These factors include the *role of science*, the *power of information technologies*, and the development of *national information infrastructures* that can be linked together to form a *global knowledge base* to develop an interdisciplinary, international program of continuous learning and adaptation for the global community of nations. The goal of sustaining a healthy, humane world is clear; the means are available; the challenge is building the level of understanding and commitment to enact the goal in practice.

The final chapter summarizes the core findings and policy lessons by integrating policy responses and outcomes of selected countries from a comparative perspective. This chapter also discusses directions for future comparative policy studies in the post-COVID 19 era when governments are expected to face with similar but more wicked policy problems in future.

## **2. Discussions and Policy Implications**

The COVID-19 has been one of the most compelling and challenging wicked problems which pushed all the governments nearly equally to an edge of cliff. Arguably, no other social and economic problems put the same level of challenges to governments in terms of the geographical and chronological scope. Since the first confirmed case was identified in the end of 2019 in Wuhan, the COVID-19 quickly spread globally and reached the pandemic stage which was officially confirmed on March 11, 2020. As of March 6 of 2021, the numbers of infected patients and deaths reached 117 millions and 2.6 millions, respectively.

While the epidemiological challenges were similar across different countries, there is a wide discrepancy in terms of the contents, processes, and outcomes of policy responses of different nations to the pandemic. Why did some countries such as New Zealand and Vietnam quickly decided to refer strong and restrictive border controls while others did not? Why did some countries like South Korea introduce proactively centralized and coordinated policy responses to the COVID-19 while other countries such as Japan and Sweden did take somewhat cautious and decentralized responses? Why did some countries effectively mitigate the COVID-19 while others mitigated somewhat in an ineffective way?

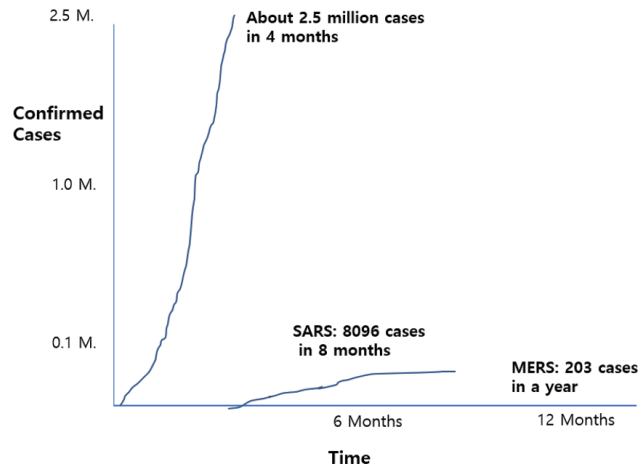
Observing variations of outcomes of government responses to the COVID-19, the same kind of globally external shock and risk, we aim to examine why and how different countries ended up with different policy positions and responses by surveying a sample of countries which are geographically, politically, and culturally diverse. This study includes 9 different countries including Finland, Germany, U.S., Japan, New Zealand, South Korea, Sweden, Thailand, and Vietnam then carefully reviews the developments of policy responses of each country then investigates how the policy responses led to different outcomes in terms of spread of the virus and fatalities. Based on the survey of policy responses and outcomes of selected countries, we will have a comparative assessment and draw lessons from those experiences (success or failure) that can be shared with many other countries.

### **2.1. The Spread of the COVID-19 as a Pandemic**

Despite the continuing debate on the origin of the COVID-19, a recent research by Beyer and his colleagues (2021) suggests that the emergence of the virus is closely related to the change of bat diversity ultimately caused by the climate change. After the first confirmed patient reported in Wuhan, China in the end of 2019, the virus swiftly spread over different parts of the world, which ultimately led to the announcement of the global pandemic by the World Health Organization on March 11, 2020. In particular, the initial exponential surge in Europe beyond Asia shocked the world and sent strong and serious signals of the danger and potential public health as well as economic and social impacts to the global community.



**Figure 11-1. Comparison of SARS, MERS, and COVID-19**

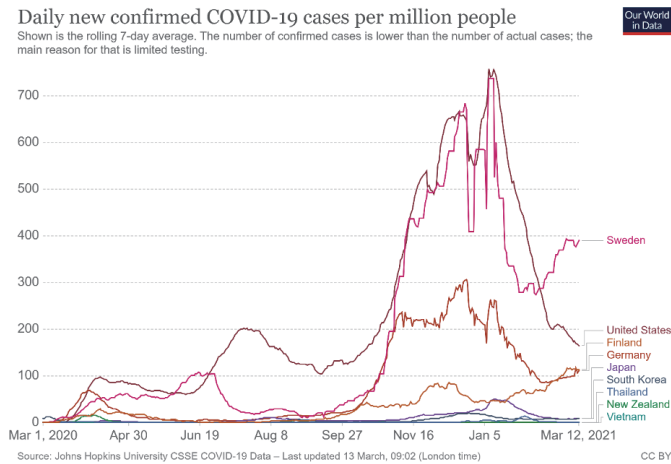


Source: Moon (2020), Modified from Wu and Chow (2020).

COVID-19 was reportedly originated in Wuhan, Hubei, China. Initially, COVID-19 appeared to be similar to the Middle East Respiratory Syndrome (MERS) and particularly the Severe Acute Respiratory Syndrome (SARS). However, the new virus is more contagious and impactful in provoking economic and social instability and igniting more psychological fears of individuals than previous infectious diseases. For example, as Figure 11-1 suggests, the number of infected patients grew much faster than previous diseases, reaching more than 234,000 (with 9,840 deaths) as of March 20, 2020<sup>1</sup>; by comparison, SARS and MERS caused 8,437 infections (with 813 deaths) and 2,499 infections (with 861 deaths), respectively (Wu and Chow, 2020). In addition to the number of infected patients, COVID-19 spread much faster and wider, reaching the pandemic stage in nearly all the countries compared to SARS and MERS, which limitedly affected 26 and 27 countries, respectively.

<sup>1</sup> WHO data from the situation report by WHO. [https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200320-sitrep-60-covid-19.pdf?sfvrsn=8894045a\\_2](https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200320-sitrep-60-covid-19.pdf?sfvrsn=8894045a_2) (accessed on March 20, 2020)

**Figure 11-2. Changes in the Number of COVID-19 Confirmed Cases Per Million for Selected Countries as of March 12, 2021**



Source: ourworldinthe data.org.

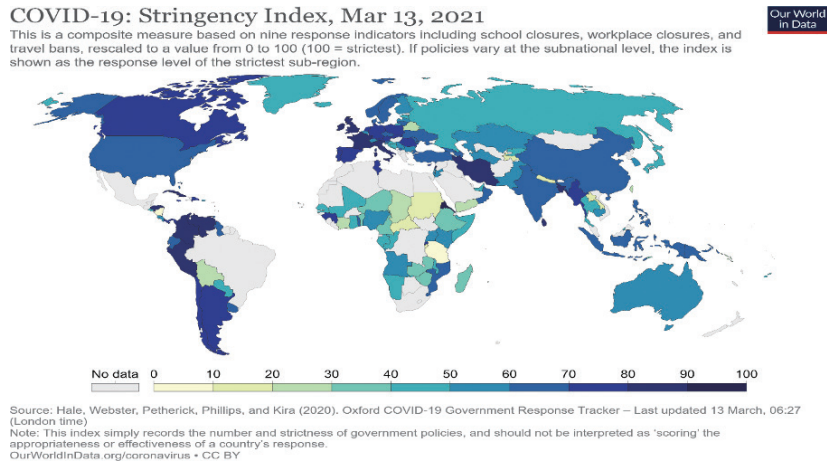
Though many countries often share similar epidemiological challenges and policy problems as they follow similar waves of COVID-19 spreads, there are some variations in the spread of COVID-19 among different countries. The variations might be caused by different policy responses of countries such as coercive tools (border control, school closure, movement constraints), incentive tools (emergency assistance, economic boosting assistance), and informative and facilitative tools (public information campaigns for social distancing, mask wearing). In addition to policy responses, there are many other contributing factors including national healthcare systems, applications of digital technology, institutional arrangements and governance systems, political and civic culture, etc. As Figure 11-2 shows daily new confirmed cases (per million) of selected nine countries including five Asian Pacific countries, three European countries, and the U.S. The figure suggests that the numbers of daily new confirmed cases of five Asia-Pacific countries (Japan, New Zealand, South Korea, Thailand, and Vietnam) are contrastingly much smaller than those of the other countries.

## 2.2. Policy Responses to COVID-19: Does Policy Matter?

Despite the same goal of mitigating and containing the COVID-19, there is a wide range of policy responses of different countries. The variation of policy responses among countries are attributed to various factors such as leadership styles, risk assessment and risk perception on COVID-19, policy learnings and policy styles, political culture, etc. In the course of mitigating COVID-19, each country has developed its own policy positions and introduced policy actions in terms of introducing alternative policy tools including coercive, remunerative, and informative measures. Policy positions and policy

actions are somehow a product of various variables at different levels including policymakers at the individual level, healthcare systems and government systems at the institutional level as well as the domestic and global spread of the virus at the national and global level.

**Figure 11-3. A Global Map on Policy Stringency Index**

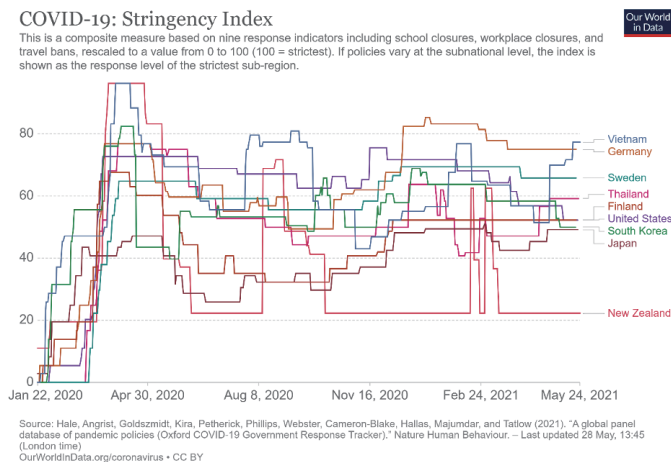


Source: ourworldinthe data.org.

As a common policy response, coercive policy tools have been widely adopted by governments as direct and immediate forceful public actions to reduce mobility of the public and to contain the virus through different policy instruments including school closing, workplace closing, cancellation of public events, restrictions on gathering size, public transportation closure, home stay requirement, and restrictions of domestic and international travels. Remunerative policy instruments have been also introduced to provide public assistances to those who suffer from negative economic impacts (i.e., unemployment, reduced incomes) caused by the pandemic. In addition to coercive and remunerative policy measures, governments have employed public information campaigns and other alternative technology-based and public health-related instruments such as contact-tracing, testing policy, vaccination policy, etc. According to the COVID-19 policy stringency index provided by the Oxford COVID-19 Government Response Tracker (OxCGRT), as Figure 11-3 suggests, there is a wide variation in terms of the degree of stringency of policy responses by countries. Some countries Of course, governments are likely to take more stringent policy responses when the pandemic situation gets worse with increasing number of confirmed cases and death. In fact, there is positive correlation between the spread of the virus and policy stringency simply because of growing societal and political pressure for aggressive and often restrictive policy measures. Of course, political systems and citizens' acceptance for restrictive measures affect the extent to which governments can stretch their policy arms in choosing own policies among different policy options of different degree of restriction.

Though Vietnam is relatively a low-income country, it could mitigate the pandemic effectively from the early stage particularly with its immediate restrictive actions like border closure and school closure as well as close central-local policy coordination, which is characterized as a low-cost model (Nguyen, 2021). Similarly, the Thailand case also suggests how strong Junta-linked government could introduce proactive and highly restrictive measures to mitigate the COVID-19 (Pooharoen, 2021). While the centralized policy responses might lead to effective mitigation of the pandemic, they often constrain individual freedom and fringe democratic values as noted in Thailand where some restrictive measure like prohibition of mass gatherings are often used to suppress political protests (Pooharoen, 2021).

**Figure 11-4. Policy Stringency Index of Nine Selected Countries by Time**



Source: ourworldinthedata.org

Contrastingly, it took so long for Sweden to take restrictive measure even in the course of rapid spread of virus and growing number of deaths among elder and fragile individuals in elder care centers (Dahlström and Lindvall, 2021). The failure in coordinating restrictive policies in a decentralized and democratic political system often leads to detrimental policy failure particularly in managing non-routine crisis like the pandemic. Among the western countries, New Zealand took very restrictive measure earlier than other western countries (Henderson and Withers, 2021). For example, the stringency index for New Zealand was 96.3 while those of other western countries were much lower like Germany (79.6), U.S. (72.7), Finland (64.8), and Sweden (37.9) as of March 23, 2020. Among the Asian countries, Japan has least restrictive policy measure as it refers to loose and self-restraint policies rather than proactive policy responses (Suzuki and Sakuwa, 2021).

Policy response to COVID-19 is not solely determined by the epidemiological reasons. Policymakers often consider political, economic, social, and international factors in considering various policy

alternatives. Policymakers often lift coercive policy tools like school closure, workplace closure, or travel restrictions because of growing political pressure from citizens and businesses who want to have a high level of mobility among people. Policymakers often make policy response decisions based on the severity and prediction of the pandemic, voices of citizens and businesses, domestic and international factors.

Figure 11-4 actually shows possible variations of policy responses of different countries by time. As the figure suggests, a government makes a different set of policy actions as a response to its own COVID-19 situation. For example, Sweden's stringency index began to rise from October, 2020 then to drop and rise again in January and March, respectively. That of the U.S. had three peaks in March, August, and December of 2020 in response to three waves of the pandemic then began to drop from the beginning of 2021 when the national vaccine program for the COVID-19 got accelerated (Comfort, 2021). Contrastingly, four Asian-pacific countries including Japan, Korea, Thailand, Vietnam, and New Zealand are overall much lower than other three western countries (Germany, U.S., and Sweden) except Finland in the early of 2021. Since the beginning of 2021, the policy stringency of the US began to substantially drop particularly because of the effect of wide vaccination while those of some Asian countries like Vietnam and Thailand began to sharply rise.<sup>2</sup>

### **2.3. Policy Coordination and Quality of Governance: Does Governance Matter?**

There is a wide range of government performance in mitigating the COVID-19 among countries as the pandemic opened up a series of tests for governance quality and performance in fighting against the COVID-19. Poor quality of governance and leadership tend to cause rapid spread of the virus as well as high fatality rate. Many believe that policy failure is largely attributed by incompetent public leadership and poor policy capacity which is closely associated with ineffective policy coordination among related policy actors. Many attempt to identify political and institutional factors as primary explanatory variables for successes and failures of COVID-19 policies of countries. Those factors include public leadership, intra-governmental relationship, inter-governmental relationship, inter-sectoral relationship and others.

There was an uncommon editorial entitled "Dying in a Leadership Vacuum" which was written collectively by editors of the New England Journal of Medicine in October 2020. The editorial argues that tardy, irresponsible, and inconsistent policy actions taken by incompetent government and poor leadership led to a fatal failure in mitigating the COVID-19. Failures of policy actions could be at such

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<sup>2</sup> The stringency indices are Germany (75.0), Vietnam (69.1), Sweden (65.7), Thailand (59.3), South Korea (58.3), US (56.9), Finland (52.3), Japan (49.1), and New Zealand (22.2).

various stages as of disseminating warning and public health information, conducting tests, tracing infection paths and networks, treating infected patients, providing financial assistances, and recovering resilience capacity of the society. Public leadership failure is not only caused by poor judgment and inability of individual political leaders like president but also caused by ineffective policy coordination and over-politicization of policy issues which are often expected to be managed based on scientific evidences.

While some countries took immediate and agile responses to initial outbreak of COVID-19, others failed in making initial responsive actions because of decentralized political systems and politicization of the pandemic issue. For example, Sweden could not handle the COVID-19 through centralized and highly coordinated policy packages but by decentralized and voluntary mechanisms because of its decentralized administrative system for inter-governmental relations, which bestows only limited administrative and policy power to the central government particular when it restrains individual rights (Dahlström and Lindvall, 2021). Germany also experienced initial delay because government responses often should go through administrative procedures and long-standing scrutiny of the legislative body though it has shifted from local government responses toward intergovernmental centralism for effective policy coordination between federal government, Länder, and local governments (Franzke and Kuhlmann, 2021). Contrastingly, Finland responded to the pandemic without much delay though its administrative system is also decentralized (Ahonen, 2021).

Countries with unitary government systems like Korea, Thailand, Vietnam, and New Zealand were able to take relatively agile and centralized policies to combat the pandemic. Demonstrating a low-cost model, Vietnam and Thailand suggest how highly centralized political systems could introduce highly restrictive measures in an earlier stage, which helps them to mitigate the pandemic in a cost-efficient way though some restrictive actions could be misused and abused as they limit individual freedom and democratic values in an excessive way. For example, Vietnam often puts the violation of COVID-19 regulation subject to criminal law (Nguyen, 2021) whereas Thai military government use strong and restrictive measures both for mitigating COVID-19 as well as curbing political protests again the regime (Pooharoen, 2021).

In fact, this is closely related to the centralization thesis which is a long-standing debate with respect to crisis management. The centralization thesis is a question concerning whether centralized governance structure is more effective than decentralized governance structure. As Hart, Rosenthal, and Kouzmin (1993) point out, there are three major elements of a crisis: severe threat, time pressure, and high uncertainty. In other words, a crisis can be worsened if it occurs in an uncertain, dynamic, and complex environment. Hart et al. (1993) suggest that the role of the government and centralized crisis management based on a small group with strong decision-making power, a central institution with

embedded and highly concentrated decision-making power, and powerful leadership than decentralized decision-making mechanisms.

The centralization thesis can be divided into four dimensions of centralization schemes including social, political, administrative, and structural decentralizations. As seen in Table 11-2, social centralization represents the transfer of leadership roles from the market to the government based on social demand for an active governmental role and social involvement. Second, political centralization is a synonym for executive centralization which is related to a centralization dynamics among three different branches. Under politically centralized circumstances, the decision-making power often shifts toward the executive branch, centered on the president, rather than the legislative branch particularly under emergency circumstances which often require immediate actions. Third, administrative centralization implies the shift toward the central government and the top decision-makers within the executive branch. In other words, the key agencies and top decision-makers play a significant role in administrative centralization. Lastly, structural centralization represents the shift of decision-making power toward a small policy group. In this type, the major key player is a small, informal decision-making group.

**Table 11-2. Key Issues of Centralization Thesis**

Dimension of Centralization	Nature of the Centralization	Key Players
Social centralization	From market to government	Social demand for an active governmental role, social involvement
Political centralization (executive centralization)	Shifting toward the executive branch and the top executives (e.g., president)	Executive branch plays the major role rather than the legislative branch
Administrative centralization	Shifting toward the central government and the top decision-makers	Key agencies and top decision-makers play a significant role
Structural centralization	Shifting toward a small policy group	Small decision-making group for timely policymaking

Source: Moon (2019)

A centralized governance system is effective particularly when agile policy decisions are critical just like in the COVID-19 crisis. However, it might face with some challenges when the crisis is complicated, uncertain, and changing, which requires the governance system to become an adaptive system (Comfort, 2021). It should be noted that a decentralized system is not necessarily an adaptive system either. As experienced in the U.S., Sweden, and Germany, the decentralized system often has hard time to reach policy coordination not only among different units of the government but also between central and local governments. The strong political leadership and sense of urgency based on

scientific evidence are essential to make the decentralized system agile, adaptive, and effective (Moon, 2020).

## **2.4. Science and Politics: Does Politics Matter?**

Evidence-based decision is critical particularly when governments make policy decisions to handle wicked problems which are often characterized as uncertain, borderless, complex, multiplicative. Theoretically it is easy and normative to make decisions based on evidence. However, it is not challenging and often difficult particularly when scientific evidence is not clear. For example, there were intense debates on whether wearing facial mask is necessary or not in the early pandemic stage in 2020.

Crisis management is often doomed to fail when governments put politics/policy over science (Comfort, 2007; 2021). A great policy problem like COVID-19 easily becomes a salient policy issue then often naturally politicized. For example, initial policy failure of U.S. is partially because of hyper partisanship on the issue in the course of presidential election. The politicization of COVID-19 was often intensified thanks to uncertainty of the issue, limited influence of scientific evidences, lack of experts' involvement among others, which eventually led to poor evidence-based policy (Comfort, 2021). COVID-19 issue was also somehow politically handled in Japan with some concerns about the possibility that the spread of COVID-19 might affect the schedule of the Tokyo Summer Olympic Games (Moon et al., forthcoming). The politicization of crisis management often widens the gap between cognition/interpretation of the crisis and policy actions. The over-politicization of the pandemic with excessive partisanship caused the public's frustration with policy failures which eventually led to power changes from the Abe administration to Suga administration in Japan and the Trump administration to the Biden administration in the U.S.

As Dahlström and Lindvall argue in their chapter, interestingly, lack of politicization might cause timely response to the pandemic particularly when scientific evidence is not available and still controversial. In order to make an agenda salient and shape out timely policies, a certain level of politicization is inevitable and necessary. Excessive deference to scientific evidence might delay timely actions under uncertain policy environment while so does simple delegation of political leadership to administrative authorities as indicated in the Sweden's case (Dahlström and Lindvall, 2021). This suggests that active role of political leadership with open and flexible position over scientific evidence are quite challenging but clearly necessary in handling wicked problems like COVID-19.



## 2.5. Policy Learning and Experiences: Does Policy Learning Matter?

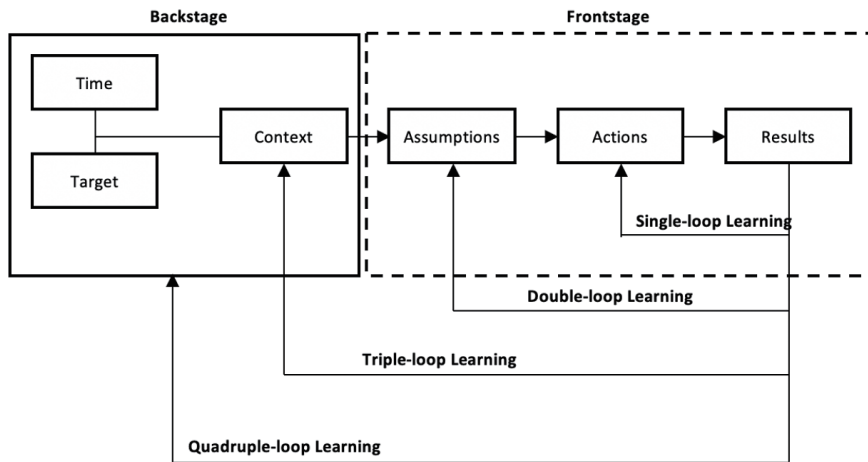
While COVID-19 was novel to every country, some countries were more exposed to similar infectious disease like SARS or MERS than other countries. For example, many Asia-Pacific countries including Japan, Korea, Thailand, Vietnam and New Zealand experienced SARS frequently so that both governments and citizens have a higher level of awareness than other western countries, which might make some differences in government's initial responses. SARS experiences and societal acceptance of mask-wearing have helped to mitigate the pandemic in Asian countries.

In particular, MERS experience in South Korea is noteworthy in its preparedness for handling the pandemic in terms of separating confirmed patients in hospitals from other patients, developing testing kits, contact tracing, preparing negative pressure rooms, transparent information sharing to citizens, etc. In fact, many civil servants in the Korean CDC were those who experienced the MERS case with pains and developed institutional memories and policy learnings (Ko, 2021; Moon, 2020). As noted in the MERS Whitepaper (MSWH, 2016), the following key lessons and policy recommendations from the MERS experience were applied to handling COVID-19.<sup>3</sup>

Based on these policy recommendations, the South Korean government upgraded the KCDC to a deputy ministerial-level agency and strengthened its autonomy and professional specialties by increasing the number of epidemiological surveyors. The MERS experience was costly but a great learning experience for the South Korean government, as it led to reevaluation and reform that enhanced the KCDC's autonomy and capacity as well as established procedural protocols to control and prevent new infectious diseases like COVID-19.

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- 3
1. Strengthening the capacity of the Korea Centers for Disease Control and Prevention (KCDC)
  2. Building the capacity of local governments for infection control and securing organizational capacity
  3. Strengthening the capacity of medical institutions for infection control and establishing the government's management system
  4. Building infection control networks among central government, local governments, and medical institutions
  5. Establishing a monitoring system for infectious diseases and upgrading infection disease information systems
  6. Preparing for new infectious diseases and stocking necessary resources with strategic national stockpiles
  7. Creating isolated areas for treatment and establishing test and treatment protocols
  8. Promoting R&D for new infectious diseases
  9. Securing national budget for responding to public health crises
  10. Strengthening risk communication capacity in the new infectious diseases era
  11. Improving the ethics of infectious diseases and strengthening psychological support for infected patients

Figure 11.5. Quadruple-loop Learning Mechanism



Source: Lee, Hwang, and Moon (2020)

Of course, it should be also noted that past experiences are not enough since we experience new challenges. Despite many benefits from policy learnings from the MERS experiences in South Korea, the South Korean government had many unexpected difficulties because COVID-19 had different characteristics such as asymptomatic patients, emergence of variants, high scale and speed of spread among others. These require governments to be a much smarter, more flexible and open learner. As Lee, Hwang, and Moon (2020) argue in their study on policy learning, governments need to be equipped with quadruple-loop learnings which include traditional learning as well as context-based learnings and continued learnings in dealing with uncertainty and complexity of wicked problems.

## 2.6. Citizen Participation and COVID-19: Does Communitarian Citizenship Matter?<sup>4</sup>

Considering the significance of non-pharmaceutical interventions (NPIs) such as social distancing, mask-wearing among other, citizen participation is critical to coping with the pandemic (Ko, 2021; Moon, 2020; Moon et al., 2021). It has been argued that many communitarian countries are handling the pandemic better than most individualistic countries (Etzioni, 2020). While this statement has not necessarily been empirically proven, scholars and practitioners need to revisit the roles of socially responsible citizens and their social duties from a communitarian and civic perspective rather than considering only traditional rights-bearing individualism.

4 This part of the chapter is partially an excerpt of the author's unpublished manuscript (Moon and Cho, 2021).

The public health literature has often stressed that to fight against infectious diseases, in fact, selfish individualism needs to be shifted to responsible and communitarian citizenship simply because no one can be fully free from a highly infectious disease and mutual concerns for community members and social benefits are critical for the safety of the community (Wiseman, 1998). Similarly, public interest and mutual concerns are the fundamental basis of social citizenship (i.e., the provision of merit goods such as health services), which highlights the rationale for providing minimum social support and security to protect individual members and ensure the stability and prosperity of the whole community (Mustgrave, 1957; Wiseman, 1998).

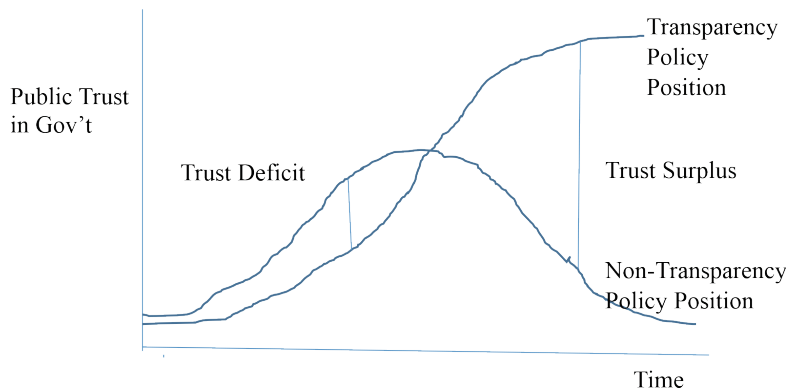
Communitarianism is somehow located in the middle ground where individual and communal concerns intersect and individual rights and the common good overlap. For example, wearing mask is important to individual health but also to public health because of the contagious nature of the infectious diseases. The communitarian citizenship is different from individualistic libertarian citizenship in which liberty is an absolute and unnegotiable value.

Those countries with a high-level communitarianism somehow under the influence of Confucian values like group-conscious and face-saving seem to easily promote citizen participation in social distancing and other NPI's measure. The nature of citizenship is different among countries. It is closely related with cultural background (Confucian versus Western), political systems (socialist versus democratic), and sense of community and urgency. The pandemic experience at least reminds the people of the significance of communitarian values. Communitarian citizenship and citizen participation for co-production is inevitable to solve future wicked problems like various public health issues and environmental issues like climate change.

## **2.7. Transparency and Public Trust: Does Transparency Matter?**

Transparency seems to be an important factor to effective management of the pandemic particularly because citizens tend to be fearful and uncertain about the pandemic. They often rely on governments' official announcements and other related information obtained from both legacy and new media. The 2020 Global E-government Survey of the United Nations suggests that most countries appear to provide citizens COVID-19 related information such as daily confirmed cases and death as well as public campaigns on public health through their own e-government systems such as dashboards, mobile apps in addition to the legacy media. The literature on risk communication emphasizes timeliness, credibility and transparency of information. The quality of risk communication often affects public trust in government actions.

**Figure 11-6. Impacts of Transparency and Non-Transparency Positions on Public Trust**



Source: Moon (2020)

Transparency policy and non-transparency policy might affect public trust in government and public perception on policy responses to COVID-19 from the short-term and long-term perspectives. Some citizens might have unnecessary fear concerns about COVID-19 when governments provide any COVID-19 related information to citizens, which often tempts government to provide information selectively to avoid or minimize unnecessary fear. As Figure 6 suggests, for example, a transparency policy position might have a trust deficit from a short-term perspective because the growing number of new infected patients or death might cause citizens' frustration with poor government performance on the pandemic and lead to decrease public trust in government. However, a policy of transparency eventually leads to a trust surplus from the long-term perspective because it helps make governments reliable and trustworthy (Moon, 2020). The transparency policy position helps to gain public trust not only in developing countries like Vietnam (Nguyen, 2021) but also developed countries. Intended or unintended non-transparency practices often cause growing public anger and distrust in government even in developed and democratic countries like the U.S. where numbers of nursing home deaths were reportedly undercounted in the New York (Siemaszko, 2021). This later forced Cuomo, governor of New York announced public apology for the non-transparency practice.

This report offers a comprehensive review of policy responses to COVID-19 of different countries. This enhances our understanding of both similarities and differences of policy responses then offers comparative analysis of various factors that determine differences in policy responses and outcomes. Since COVID-19 still continues to evolve, we do not know how different governments respond to the pandemic in future. Of course, vaccination and economic recovery are expected to be a focal policy attention. Some of the dimensions like political system, science and evidence-based policymaking, public participation, transparency policy will remain as key determining factors to future policy choices.

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## References

- Ahonen, P. 2021. COVID-19 responses in Finland: Uneven, fairly effective, and crating to return to the normal. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Comfort, Louise. 2007. Crisis management in hindsight: Cognition, communication, coordination, and control. *Public Administration Review*, 67 (special issue). s1 pp189–97.
- Comfort, L. 2021. The United States’ response to COVID-19: Sciences, uncertainty, and partisanship. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Comfort, L., Waugh, William, and Cigler, Beverly. 2012. Emergency management research and practice in public administration: Emergency, evolution, expansion, and future directions. *Public Administration Review*. 72(4). 539-547.
- Dahlström, D. and Lindvall, J. 2021. Sweden and the COVID-19 crisis. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Etizioni, A. (2020). COVID-19 Tests Communitarian Values. *The Diplomacy*. July 14. 2020. <https://thediplomat.com/2020/07/covid-19-tests-communitarian-values/>
- Franzke, J. and Kuhlmann, S. 2021. Crisis governance in a multilevel system: German public administration coping with the COVID-19 pandemic. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Hart, P., Rosenthal, U., & Kouzmin, A. 1993. Crisis decision making: The centralization thesis revisited. *Administration & Society*, 25(1), 12-45.
- Henderson and Withers. 2021. Aotearoa New Zealand’s policy responses to the COVID-19 pandemic. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Ko.K. 2021. The evolution of COVID-19 and policy responses of Korea: Adaptation and learning perspective. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Lee, S., Hwang, C. and Moon. M.J. 2020. “Policy Learning and Crisis Policy-making: Quadruple-loop Learning and COVID-19 Responses in South Korea.” *Policy and Society*. 39(3). 363-381. <https://www.tandfonline.com/doi/full/10.1080/14494035.2020.1785195>

- Ministry of Social Welfare and Health. 2016. *MERS Whitepaper: Learning from MERS Experiences*.
- Moon, M. J. 2020. "Fighting COVID-19 with Agility, Transparency, and Participation: Wicked Policy Problems and New Governance Challenges." *Public Administration Review*. 80(4). 651-656. <https://doi.org/10.1111/puar.13214>.
- Moon, M.J. and Cho, B. 2021. Bring citizens back-in for wicked policy problems. Unpublished manuscript.
- Moon, M.J., Suzuki, K., Park, T.I, and Sakuwa, K. 2021. A comparative study of COVID-19 responses in South Korea and Japan: political nexus triad and policy responses. *International Review of Administrative Sciences*.
- Musgrave, R. (1957). A Multiple theory of Budget Determination. *FianzArchiv, New Series*. 25(1). 33-43.
- Nguyen, T. 2021. Beyond regime types: Local governance, bureaucratic coordination, and COVID-19 responses in Vietnam. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Poocharoen, O. 2021. Thailand's Responses to COVID-19. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Seimaszko, C. 2021. New York Gov. Cuomo facing calls to apologize for undercounting Covid-19 nursing home death. NBC News. <https://www.nbcnews.com/news/us-news/new-york-gov-cuomo-facing-calls-apologize-undercounting-covid-19-n1258053> (Feb. 17, 2021)
- Suzuki, K. and Sakuwa, K. 2021. Japan's response to the COVID-19 pandemic: A cautious and self-restraint-based approach. *International Comparative Analysis of COVID-19 Responses*. KDI School.
- Wiseman, V. (1998). From Selfish Individualism to Citizenship: Avoiding Health Economics' Reputed 'Dead End' *Health Care Analysis*. 6. 113-122. <https://link.springer.com/article/10.1007/BF02678117>