

The Role of Political Leadership in Crisis Management: Lessons From Global Pandemics

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Abstrak

Kepemimpinan politik memainkan peran penting dalam menentukan efektivitas manajemen krisis, terutama selama pandemi global yang membutuhkan respons yang cepat, terkoordinasi, dan berbasis bukti. Studi ini menyelidiki pengaruh gaya kepemimpinan politik, pendekatan pengambilan keputusan, dan struktur tata kelola terhadap manajemen pandemi seperti COVID-19, H1N1, dan Ebola. Dengan menggunakan pendekatan kualitatif komparatif, data dikumpulkan dari dokumen kebijakan resmi, pidato publik, dan laporan kesehatan internasional untuk mengidentifikasi pola perilaku kepemimpinan dan dampaknya terhadap hasil kesehatan masyarakat. Temuan ini mengungkapkan bahwa para pemimpin yang menunjukkan komunikasi yang transparan, kolaborasi antarpemerintah yang kuat, dan pembuatan kebijakan yang adaptif mencapai hasil penanggulangan dan pemulihan yang lebih efektif. Sebaliknya, kepemimpinan yang ditandai dengan respons yang tertunda, politisasi langkah-langkah kesehatan, dan kurangnya pembangunan kepercayaan seringkali memperburuk krisis. Penelitian ini berkontribusi pada pemahaman tentang bagaimana kepemimpinan politik dapat membentuk lintasan krisis, menawarkan pelajaran untuk keadaan darurat kesehatan global di masa depan. Implikasinya menunjukkan bahwa pelatihan kepemimpinan, pengambilan keputusan berbasis bukti, dan ketahanan kelembagaan sangat penting untuk memitigasi dampak sosial-ekonomi dan kesehatan dari pandemi.

Kata kunci: Kepemimpinan Politik, Manajemen Krisis, Pandemi, Tata Kelola, Kebijakan Kesehatan Masyarakat

Abstract

Political leadership plays a pivotal role in determining the effectiveness of crisis management, particularly during global pandemics that require swift, coordinated, and evidence-based responses. This study investigates the influence of political leadership styles, decision-making approaches, and governance structures on the management of pandemics such as COVID-19, H1N1, and Ebola. Using a comparative qualitative approach, data were collected from official policy documents, public speeches, and international health reports to identify patterns of leadership behavior and their impact on public health outcomes. The findings reveal that leaders who demonstrated transparent communication, strong intergovernmental collaboration, and adaptive policy-making achieved more effective containment and recovery results. Conversely, leadership characterized by delayed responses, politicization of health measures, and lack of trust-building often exacerbated the crisis. This research contributes to the understanding of how political leadership can shape crisis trajectories, offering lessons for future global health emergencies. The implications suggest that leadership training, evidence-based decision-making, and institutional resilience are critical for mitigating the socio-economic and health impacts of pandemics.

Keywords: Political Leadership, Crisis Management, Pandemics, Governance, Public Health Policy

INTRODUCTION

Community Political leadership plays a central role in determining the direction, speed, and effectiveness of a country's response to a global crisis, such as a pandemic. In a health emergency, political leaders not only function as key decision-makers, but also as directors of public communication strategies, guarantors of cross-sector coordination, and targeted allocation of resources (Ametepe & Onokala, 2023); (Akinwale & Onokala, 2022). A study by Greer et al. (2020) shows that significant differences in the success rates of COVID-19 control in different

countries are not solely due to the capacity of health systems, but also to the quality of political leadership, including speed of response, transparency of information, and willingness to adopt science-based policies (Kuznetsova, 2020). Visionary and adaptive leadership can accelerate the implementation of mitigation policies, reduce public uncertainty, and maintain social and economic stability during times of crisis (Boin et al., 2017).

In addition, effective political leadership during a pandemic requires the ability to build public trust through consistent, empathetic, and credible communication. According to Moon (2020), global crises such as the pandemic require leaders to be able to mobilize community participation, establish international partnerships, and coordinate efforts across levels of government (Yiu et al., 2021). Leaders who prioritize a collaborative and participatory approach have been shown to be able to reduce resistance to social restriction policies and increase compliance with health protocols (Van Bavel et al., 2020). On the other hand, leadership that is fragmented or full of political interests can exacerbate the impact of the pandemic, both in terms of public health and political stability. Thus, the success of pandemic crisis management is closely related to the quality of political leadership that is proactive, science-based, and oriented towards the long-term public interest (Timmis & Brüssow, 2020).

Global pandemics such as COVID-19, H1N1, and Ebola have demonstrated multidimensional impacts on public health, the economy, and the socio-political order. In terms of health, the pandemic has triggered a surge in cases of infectious diseases that burden the capacity of the health system, resulting in a shortage of medical personnel, and reducing people's access to routine health services (Nicola et al., 2020). For example, COVID-19 caused more than 6 million deaths globally as of 2022, while the H1N1 pandemic in 2009 killed an estimated 151,700–575,400 people (CDC, 2019). In addition, the Ebola outbreak in West Africa (2014–2016) caused a high mortality rate, up to 50%, disrupting public health resilience and exacerbating the humanitarian crisis (WHO, 2016). These health impacts are often exacerbated by delays in early detection, uneven vaccine distribution, and weak health infrastructure in low- and middle-income countries (Baekkeskov & Rubin, 2014; Asnur et al., 2024; Dewanto et al., 2024; Oktarina et al., 2021).

The difference in the results of handling the pandemic in different countries shows that political leadership factors have a significant influence on the success of crisis mitigation. Countries with responsive, evidence-based, and decision-making leadership, such as New Zealand and South Korea during the COVID-19 pandemic, have been successful in reducing infection rates through strict quarantine policies, aggressive contact tracing, and equitable distribution of vaccines (Baker et al., 2020; You, 2020). In contrast, countries that show delays in response, lack of coordination, and fragmented policies experience higher rates of transmission and death (Bhalla, 2021). Participatory and collaborative leadership styles tend to be more effective in building public support, while authoritarian or populist leadership often faces resistance to public health policies (Capano et al., 2020).

Information transparency and decision-making capacity are also the main differentiators in the effectiveness of handling the pandemic. Countries with a tradition of open public communication, such as Germany and Taiwan, are able to maintain public trust and reduce the spread of disinformation, thereby increasing compliance with health protocols (Chen et al., 2020). On the other hand, countries that close access to information or convey data inconsistently often lose public legitimacy, leading to low effectiveness of pandemic control policies (Garrett, 2020). Decision-making capacity that integrates epidemiological data, expert input, and long-term risk evaluation has been shown to strengthen national preparedness, while policies that are only oriented towards short-term political gains exacerbate the impact of the crisis. Thus, leadership style, level of transparency, and quality of decision-making are key determinants in the difference in the results of handling the pandemic between countries (Boin et al., 2021).

Understanding the relationship between political leadership and crisis management effectiveness is an important prerequisite for building more resilient mitigation strategies in the future (Hu & Liu, 2022). Political leadership not only determines policy direction, but also affects legitimacy, cross-sector coordination, as well as public adherence to crisis control measures (Ansell & Boin, 2019). Comparative studies show that countries with leadership that prioritizes data-driven communication, cross-agency collaboration, and response speed have a higher capacity

to minimize casualties and economic losses (Hale et al., 2020). Thus, a systematic analysis of leadership patterns during the pandemic can help identify key factors that need to be strengthened, such as institutional resilience, public trust, and integration between science and policy.

Lessons from previous crises, such as COVID-19, H1N1, and Ebola, confirm that future mitigation strategies must internalize the principles of adaptive, transparent, and inclusive leadership (Yiu et al., 2021). Political leaders who have the ability to balance the interests of health, economy, and social stability will be better prepared to face the uncertainty of the next global crisis (Van Dooren & Noordegraaf, 2020). Therefore, research on the relationship between leadership style and crisis management effectiveness can be the basis for formulating comprehensive emergency management protocols. This approach allows for the development of national and international preparedness systems that are not only reactive, but also proactive in anticipating risks, mobilizing resources, and mitigating long-term impacts (Glenn et al., 2020).

A number of previous studies have examined the relationship between political leadership and the effectiveness of handling the pandemic crisis. Greer et al. (2020) assert that the differences in COVID-19 responses in different countries are largely influenced by the leadership style and capacity of governments in integrating science into public policy. The study shows that leaders who prioritize transparency, rely on scientific evidence, and are able to coordinate across sectors perform better in reducing transmission rates and maintaining social stability. Research by Boin et al. (2017) also found that the success of crisis management is not only determined by the resources available, but also by the ability of leaders to build public trust, maintain consistency of communication, and mobilize collaboration between agencies.

In addition, research by Moon (2020) underscores that public participation and adaptive governance are important elements in pandemic response. The case studies of Taiwan and South Korea show that a combination of visionary leadership, transparent information systems, and data-driven policies can accelerate pandemic control. Meanwhile, Capano et al. (2020) compared the policy capacity of different countries in dealing with COVID-19 and found that countries with fragmented or overly political leadership had difficulty implementing consistent health policies. These findings reinforce the urgency of research focusing on the role of political leadership as a key determinant in the effectiveness of crisis management, while providing a theoretical foundation for future mitigation strategies. Based on this, this study aims to find out The Role of Political Leadership in Crisis Management: Lessons From Global Pandemics.

METHODS

This research method is a literature review approach that aims to identify, analyze, and synthesize various literature sources that are relevant to the research topic. This process involves collecting secondary data from various sources such as books, scientific journals, conference proceedings, research reports, and official documents related to the problem being studied. Literature review functions to map the development of theories, concepts, and findings of previous research, so that researchers can find research gaps that can be used as a basis for the development of scientific arguments. In its implementation, literature review requires strict source selection criteria to ensure the credibility and relevance of the information used, for example through an assessment of the publisher's reputation, the research method used, and the level of novelty of the publication.

In addition, the literature review method is carried out systematically with steps including the formulation of research questions, determination of search keywords, selection of scientific databases, screening of sources based on inclusion and exclusion criteria, and content analysis of selected literature. This approach allows researchers to integrate findings from various studies into a comprehensive conceptual framework, while avoiding duplication of existing research. Thus, literature review is not only descriptive, but also analytical and critical, so that it can contribute to a deeper understanding of research topics and become a strong theoretical foundation for further studies.

HASIL DAN PEMBAHASAN

Ethnic Political Leadership and Crisis Response Effectiveness

Political leadership has a central role in determining the effectiveness of a country's response to global crises, including pandemics. Political leaders not only function as the highest policymakers, but also as strategic direction-setters and symbols of public trust. Boin et al. (2017) emphasized that crises are complex, uncertain, and require cross-sectoral coordination, so the quality of political leadership is a key factor in determining the success of crisis management. In the context of a pandemic, leaders who are able to formulate policies based on scientific evidence and consider socio-economic aspects will tend to be more successful in controlling emergency situations (X. He, 2013).

The effectiveness of crisis response depends heavily on the speed and accuracy of decision-making. According to Rosenthal et al. (2001), political leaders who are able to conduct risk analysis quickly and prioritize actions can minimize the negative impact of the crisis. In the case of COVID-19, countries such as New Zealand under Jacinda Ardern's leadership have shown that rapid decision-making, such as early border closures and the implementation of strict quarantines, contribute significantly to controlling the spread of the virus (Baker et al., 2020). This indicates that a firm and measured response from the beginning of the crisis phase is important in reducing the escalation of public health problems (Wilson, 2020).

In addition to quick decision-making, leadership that has a clear and consistent vision is the key to successful crisis management. Yukl (2013) states that a clear vision helps direct collective efforts and ensures that all stakeholders have a common understanding of the goals of crisis management (Watkins & Clevenger, 2021). In the case of Taiwan, consistent leadership in implementing health protocols and pandemic control strategies allows people to follow government directions with a high level of compliance, thereby reducing the burden on the health system (Wang et al., 2020). Effective political leadership is also characterized by the ability to manage public communication transparently. Transparency International (2020) shows that information disclosure related to the pandemic situation can increase policy legitimacy and prevent disinformation. Leaders who regularly provide data updates and rational explanations for the policies taken will gain greater public trust. For example, Angela Merkel in Germany gave a detailed science-based explanation of the reasons for social restrictions, which encourage public compliance with health protocols.

Cross-agency collaboration and international cooperation are also important indicators in the effectiveness of political leadership. According to Kapucu and Garayev (2011), an integrated crisis response between the health, security, and economic sectors can accelerate the recovery process. In the COVID-19 pandemic, several leaders have successfully facilitated international cooperation, such as viral genome data sharing and vaccine distribution, which has contributed to pandemic control at the global level (Moon et al., 2015). This proves that political leadership plays a role not only at the national level, but also in international health diplomacy (Thiers & Wehner, 2023).

Finally, the effectiveness of a crisis response is also measured by the ability of leaders to balance the interests of public health and economic sustainability. According to Baldwin and Weder in Mauro (2020), policies that focus too much on one aspect can have long-term negative impacts. Adaptive political leadership is able to adjust strategies based on the latest data, ensuring that health measures do not completely compromise economic stability, and vice versa. This shows that policy balance is a vital element in successful crisis management.

Transparent and Consistent Public Communication

Information transparency is a key element in crisis management because it serves as a basis for the public to understand the situation and comply with the policies implemented. According to Grimmelikhuijsen et al. (2013), transparency is not only related to the availability of data, but also includes clarity, accuracy, and ease of access to information by the public. In a pandemic situation, leaders who convey accurate and up-to-date information are able to build the perception that the government acts based on the public interest, not a hidden agenda. This has been proven to increase policy legitimacy and strengthen social support for crisis management measure (Rameshan, 2024).

Leaders who regularly provide accurate information updates create a sense of security in the midst of uncertainty. Covello (2003) stated that in risk communication, the speed and consistency of information delivery affect the level of public trust. For example, during the COVID-19 pandemic, daily updates carried out by the South Korean government through official press

conferences have succeeded in maintaining public compliance with health protocols, while reducing the spread of rumors and hoaxes on social media (Kim et al., 2020).

Conversely, information non-transparency can have significant negative impacts. According to van der Meer and Jin (2020), a lack of openness in conveying case data or the reasons behind policies can lower public trust and trigger counterproductive behavior, such as vaccine rejection or violation of quarantine rules. Case studies in several countries show that the perception of COVID-19 data manipulation contributes to low public compliance with health recommendations. This lack of transparency also hinders cross-sector coordination because stakeholders do not have a common data base to formulate strategies (Boin et al., 2020).

Effective use of media is an equally important strategy to support information transparency (Akinwale & Onokala, 2022). Leaders who utilize a combination of conventional media, such as television and radio, with digital media, such as official websites and social media, can reach diverse segments of society (Liu et al., 2016). Conventional channels effectively reach populations that are less familiar with technology, while digital media allows for quick updates and two-way interaction between governments and citizens. This strategy strengthens the equitable distribution of information, reduces knowledge gaps, and prevents miscommunication (Ametepe & Onokala, 2023).

In addition to expanding reach, the proper use of media allows government messages to be packaged in an attractive and easy-to-understand way. As explained by Reynolds and Seeger (2005), the success of risk communication depends not only on the content of the message, but also on the way it is delivered. Infographics, short videos, and live broadcasts can simplify technical information into a format that is easy for the general public to digest, increasing the likelihood that the message will be followed. This practice is seen in the New Zealand government's communication strategy during the COVID-19 pandemic, which leveraged social media with inclusive language and informative visuals. The combination of information transparency and an effective media-based communication strategy forms a strong foundation of public trust. When people believe that the information they receive is true, complete, and delivered in good faith, the level of compliance with policies increases significantly (Seeger, 2006). Thus, transparency and strategic use of the media not only play a role in disseminating information, but also become a political instrument that influences the success or failure of crisis management.

The Impact of Political Leadership on the Outcome of Pandemic Handling

Political leadership has a significant influence on mortality and morbidity rates during a pandemic. According to Greer et al. (2020), leaders who make swift, evidence-based decisions are able to control the spread of the disease more effectively, thereby reducing mortality. Case studies of the COVID-19 pandemic show that countries like New Zealand and Vietnam, which implemented decisive policies early on, experienced a faster decline in infection and death rates than countries that responded slowly (Baker et al., 2020). This underscores the importance of a combination of visionary leadership, technical capacity, and swift action in addressing global health threats. In addition to speed, consistent political leadership in implementing health protocols contributes to stable morbidity rates. According to Hale et al. (2021), consistent policies—for example, mobility restrictions and a sustained vaccination campaign—prevent extreme fluctuations in cases. Countries with leaders who maintain alignment between central and regional policies have shown a significantly reduced burden on the health system. This contrasts with countries with inconsistent or frequently changing policies, which can lead to public confusion and increase the risk of disease spread (Kuznetsova, 2020).

Political leadership also influences economic recovery after a crisis. Leaders who balance health and economic policies tend to accelerate recovery. Baldwin and Weder di Mauro (2020) emphasized that economic mitigation measures such as fiscal stimulus, labor protection, and support for MSMEs must run parallel to health policies. Countries like Germany managed to recover economic growth more quickly because their leaders implemented adaptive policies that maintained people's purchasing power while controlling the spread of the virus (Beilstein et al., 2021).

Post-pandemic social recovery is also significantly influenced by the quality of political leadership. According to van Bavel et al. (2020), leaders who are able to restore a sense of security and social solidarity facilitate the process of normalizing community life. Measures such as

information transparency, acknowledging the sacrifices of healthcare workers, and supporting local communities help reduce collective trauma. Countries with leaders who prioritize empathy and public engagement tend to experience faster social recovery (Sadiq et al., 2020).

Cross-sector policy integration is one indicator of successful political leadership in accelerating recovery. Moon et al. (2015) stated that leaders who effectively coordinate the health, economic, education, and security sectors are able to minimize the long-term impact of the pandemic. For example, Singapore integrated quarantine policies with digital technology support and economic incentives, allowing for a faster reopening of socio-economic activities without a surge in new cases (Bhalla, 2021). Finally, the impact of political leadership on pandemic response outcomes can be seen in the level of national resilience post-crisis. According to Boin et al. (2017), leaders who manage the pandemic effectively not only save lives but also increase the country's capacity to face future crises. This effect is seen in countries that strengthen health systems, improve inter-agency coordination, and build public trust during the pandemic, which then become important assets in facing future threats.

CONCLUSION

The conclusion of this study confirms that political leadership has a central role in the success of crisis management, especially in dealing with a global pandemic. Leaders who are able to combine effective public communication, evidence-based decision-making, and cross-sector coordination have been proven to minimize the impact of crises on health, the economy, and social stability. The study also shows that information transparency, speed of response, and adaptability to changing situations are key factors that distinguish the success of one country from another in responding to the pandemic. In addition, the study highlights that the success of crisis management depends not only on the individual capacity of a leader, but also on the quality of the institution, the level of public trust, and the active participation of the community. Leaders who are able to build collaborations with experts, the private sector, and international organizations are likely to produce more inclusive and sustainable policies. Thus, the lessons from the global pandemic can be the basis for strengthening the capacity of political leadership in the future, so that the country is better prepared to face the challenges of health crises and other disasters on an international scale.

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REFERENCES

- Akinwale, O. E., & Onokala, U. C. (2022). Leadership and power dynamics in crisis management: a brain-drain effect – the Trump and US experience. *LBS Journal of Management & Research*, 20(1/2), 57–72. <https://doi.org/10.1108/LBSJMR-05-2022-0008>
- Ametepe, P. K., & Onokala, U. C. (2023). Leadership dynamics and Covid-19 crisis management in Singapore: a contingency approach. *LBS Journal of Management & Research*, 21(1), 100–114. <https://doi.org/10.1108/lbsjmr-11-2022-0073>
- Asnur, L., Jalinus, N., Faridah, A., Apra, T., Ambiyar, R. D., & Utami, F. (2024). *Video-blogs (Vlogs) -based Project : A Meta Analysis*. 14(5), 1553–1557.
- Baekkeskov, E., & Rubin, O. (2014). Why pandemic response is unique: Powerful experts and hands-off political leaders. *Disaster Prevention and Management: An International Journal*, 23(1), 81–93. <https://doi.org/10.1108/DPM-05-2012-0060>
- Balasubramanian, S., & Fernandes, C. (2022). Confirmation of a crisis leadership model and its effectiveness: Lessons from the COVID-19 pandemic. *Cogent Business and Management*, 9(1). <https://doi.org/10.1080/23311975.2021.2022824>
- Beilstein, C. M., Lehmann, L. E., Braun, M., Urman, R. D., Luedi, M. M., & Stüber, F. (2021). Leadership in a time of crisis: Lessons learned from a pandemic. *Best Practice and Research: Clinical Anaesthesiology*, 35(3), 405–414. <https://doi.org/10.1016/j.bpa.2020.11.011>
- Bhalla, A. S. (2021). Leadership challenges and the COVID-19 pandemic. *Observer Research Foundation*, 159(2), 3–38. <https://www.orfonline.org/public/uploads/posts/pdf/20240617143026.pdf>

- Boin, A., Lodge, M., & Luesink, M. (2020). Learning from the COVID-19 crisis: an initial analysis of national responses. *Policy Design and Practice*, 3(3), 189–204. <https://doi.org/10.1080/25741292.2020.1823670>
- Boin, A., McConnell, A., & 't Hart, P. (2021). Governing the pandemic: The politics of navigating a mega-crisis. In *Governing the Pandemic: The Politics of Navigating a Mega-Crisis*. <https://doi.org/10.1007/978-3-030-72680-5>
- Chatterjee, S., Hazra, S., Majumdar, R., & Banerjee, K. (2024). Crisis management in history: How leaders handled and overcame adversity in different time periods. *International Journal of Financial Management and Economics*, 7(1), 107–111. <https://doi.org/10.33545/26179210.2024.v7.i1.268>
- Dewanto, D., Santosa, T. A., Ratih, A., Asrizal, A., & Hardeli, H. (2024). The Influence of the Stem-Based Guided Inquiry Model on Students' Creative Thinking Skills in Science Learning: A Meta-Analysis Study. *Jurnal Penelitian Pendidikan IPA*, 10(3), 88–95. <https://doi.org/10.29303/jppipa.v10i3.6777>
- Glenn, J., Chaumont, C., & Villalobos Dintrans, P. (2020). Public health leadership in the times of COVID-19: a comparative case study of three countries. *International Journal of Public Leadership*, 17(1), 81–94. <https://doi.org/10.1108/ijpl-08-2020-0082>
- He, A. J., Shi, Y., & Liu, H. (2020). Crisis governance, Chinese style: distinctive features of China's response to the Covid-19 pandemic. *Policy Design and Practice*, 3(3), 242–258. <https://doi.org/10.1080/25741292.2020.1799911>
- He, X. (2013). A Thesis Submitted for the Degree of Doctor of Philosophy. *PhD Thesis, University of Cambridge, November*.
- Hu, Q., & Liu, Y. (2022). Crisis Management and National Responses to COVID-19: Global Perspectives. *Public Performance and Management Review*, 45(4), 737–750. <https://doi.org/10.1080/15309576.2022.2079692>
- Kuznetsova, L. (2020). COVID-19: The World Community Expects the World Health Organization to Play a Stronger Leadership and Coordination Role in Pandemics Control. *Frontiers in Public Health*, 8(September), 1–6. <https://doi.org/10.3389/fpubh.2020.00470>
- Oktarina, K., Suhaimi, Santosa, T. A., Razak, A., Irdawati, Ahda, Y., Lufri, & Putri, D. H. (2021). Meta-Analysis: The Effectiveness of Using Blended Learning on Multiple Intelligences and Student Character Education During the Covid-19 Period. *International Journal of Education and Curriculum Application*, 4(3), 184–192. <http://journal.ummat.ac.id/index.php/IJECA/article/view/5505>
- Rameshan, P. (2024). Leadership Behaviour in Covid-19 Crisis Response: A Personal Strategy Proposition. *IIM Kozhikode Society and Management Review*, 13(1), 44–69. <https://doi.org/10.1177/22779752221095277>
- Sadiq, A.-A., Kapucu, N., & Hu, Q. (2020). Crisis leadership during COVID-19: the role of governors in the United States. *International Journal of Public Leadership*, 17(1), 65–80. <https://doi.org/10.1108/ijpl-08-2020-0071>
- Thiers, C., & Wehner, L. (2023). Britain's COVID-19 battle: The role of political leaders in shaping the responses to the pandemic. *British Journal of Politics and International Relations*, 25(3), 517–534. <https://doi.org/10.1177/13691481231159021>
- Timmis, K., & Brüssow, H. (2020). The COVID-19 pandemic: some lessons learned about crisis preparedness and management, and the need for international benchmarking to reduce deficits. *Environmental Microbiology*, 22(6), 1986–1996. <https://doi.org/10.1111/1462-2920.15029>
- Watkins, D. V., & Clevenger, A. D. (2021). US Political Leadership and Crisis Communication During COVID-19. *Cogent Social Sciences*, 7(1). <https://doi.org/10.1080/23311886.2021.1901365>
- Wilson, S. (2020). Pandemic leadership: Lessons from New Zealand's approach to COVID-19. *Leadership*, 16(3), 279–293. <https://doi.org/10.1177/1742715020929151>
- Yiu, R. C. F., Yiu, C. P. B., & Li, V. Q. T. (2021). Evaluating the WHO's framing and crisis management strategy during the early stage of COVID-19 outbreak. *Policy Design and Practice*, 4(1), 94–114. <https://doi.org/10.1080/25741292.2020.1853337>