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Community Engagement in Urban Areas of South Tangerang Regency, Indonesia: A Study on COVID-19 Response

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Article Info	Abstract					
Article History:	In Indonesia, particularly in South Tangerang, Banten Province, high COVID-19 cases					
Submitted September 2023	are intensified by urban density. A comprehensive study was initiated by 106 students					
Accepted March 2024	from UIN Syarif Hidayatullah Jakarta. Employing a cross-sectional design with purpo-					
Published July 2024	sive sampling, they surveyed 5,326 households across 13 Community Health Centers.					
<i>Keywords:</i>	The Chi-Square tested data uncovered that 79% consistently wore masks, 74% prac-					
parc-19; behavior change;	ticed hand hygiene, 59% followed social distancing, and 37% regularly disinfected. In-					
covid-19; health protocol;	triguingly, there's a substantial correlation between protocol adherence and factors like					
health promotion	knowledge, attitude, and proactive community leadership. These factors amplified ad-					
DOI https://doi.org/10.15294/ kemas.v20i1.47573	the Community-Based Fighting Initiatives Against COVID-19 (PARC-19) approach, stressing grassroots engagement. Implementing PARC-19 successfully mandates fos- tering community autonomy in health management. Such autonomy flourishes when forged through a collaboration net comprising academia, government agencies, social organizations, influential community and religious leaders, and business stakeholders. This synergized effort paves the way for a holistic and efficient health management strat- egy during these pandemic times.					

Introduction

COVID-19 is the most frightening disease since the 1918 Spanish flu pandemic, killing 260,000 Spaniards and 50 million people worldwide (Ferguson et al., 2020; Short et al., 2018; Trilla et al., 2008). The Pandemic, officially announced on March 11, 2020, has hit many countries world (World Health Organization, 2020). Until October 4, 2021, in Indonesia, the number of victims who died had reached 142,560, while the number of recorded cases was 422,587. The incident number reached 1,384, and the coverage vaccinated was 53,993,753 people (World Health Organization, 2023). The second wave of the pandemic in India has frightened the world; on April 22, 2021, India reported an additional 273,810 cases per day, with a death toll of around 1,761; the government's occurred with lack of health

facilities and facilities for cremation, mainly carried out in the open field (Pandey, 2021).

The escalation of this situation begins with a public disregard for health protocols. Even though the government and nongovernmental organizations have been working to prevent the Pandemic, these efforts failed to lower the curve, particularly in Indonesia. Many critics have shouted about Indonesia's postponement in response to this Pandemic (Lindsey and Mann, 2020). China's three-month experience controlling the virus has caught the attention of many experts worldwide. Some experts concluded the success was mainly due to Wuhan's complete lockdown and the state machinery's extreme power. The brilliant method to control the Pandemic is through a network of community-based organizations working with the state (Cheng et al., 2020).

The Chinese government's ability to trust experts and voluntary groups quickly restored public confidence after the initial outbreak of COVID-19 in Wuhan (Li, 2020).

There is a significant effort in flattening the epidemiologic curve, especially in avoiding crowds through social distancing programs that impacted economic activity. The program, which aims to reduce the frequency and social distancing among the community, is implemented by closing public places such as schools, entertainment places, and workplaces, limiting working hours in markets and other places where people gather (Lestari and Dewi, 2022). This regulation is carried out by restricting community groups such as schools and child care centers with a size of 2-5m2 / child, offices with 18 m2 / person, and houses of 35-44m2 / person (Ebrahim *et al.*, 2020).

However, the restriction was only successful by limiting working hours, so the "Transitional Social Distancing" was implemented from April 10 to July 30, 2020. The evidence showed that the incidence of COVID-19 had increased compared to strictly social distancing by implementing a local lockdown program at the settlement or village level (Saputra and Salma, 2020). The Transitional Social Distancing program was eventually implemented throughout Indonesia, which resulted in uncontrolled morbidity and mortality. At the beginning of 2021, the Indonesian government started a vaccination program for 181 million people; the nation needed 426 million vaccine doses. The government already has a vaccine stock of 325 million doses, which will soon be distributed to the public (Fitria Chusna, 2021). Even though this program is implemented, the government should also consider supporting this program with promotive and preventive actions at the grassroots level.

Method

In November 2020, we conducted a crosssectional household survey with a purposive method in South Tangerang. One hundred six trained public health university students distributed simple random method for online and offline questionnaires to be completed by a household member in 13 Public Health Service (PHS) areas proportionally (5,326 households included in this study, with 350 to 420 sample households per Puskesmas). Cadres help students distribute the questionnaires to the households for offline questionnaires. Only one questionnaire per household was requested. The same surveys were identified and removed if the name, address, and phone number were identical. We built the questionnaire and used Green and Kreuter's (2005) theory, where we asked about the characteristics of respondents, predisposing, enabling, reinforcing, and Behaviour of the households about their behaviour in preventing Covid 19 in thirteen public health services (Puskesmas) areas (see Figure 1). We asked about 62 questions, and the average duration of filling out the questionnaire was 30 minutes.

Primary data was obtained from Google Forms and then analyzed with a statistical program. Before the questionnaire was applied, we examined the questionnaire outside of the district with 30 respondents to identify the validity and reliability and see if the respondents understood the question well. We also include data from observations in the field study. In this study, a systematic data analysis was undertaken utilizing univariate and bivariate methods, accompanied by the Chi-Square test, with a significance level set at p < 0.05 and a 95% confidence interval. These quantitative techniques provided a robust mechanism for deciphering patterns and relationships embedded within the dataset. To augment the robustness and comprehensiveness of our findings, we meticulously integrated qualitative insights derived from targeted field observations. This eclectic approach, harmonizing quantitative rigor with qualitative depth, offers a multifaceted perspective, nuanced engendering richer, more а understanding of the research problem.

Result and Discussion

The study offered an exhaustive examination of the respondents' adherence to prescribed health protocols. Upon meticulous analysis of the collated data, it was discernible that a significant proportion, albeit not monumental, of participants were compliant with the stipulated health guidelines: precisely,

THE PREDISPOSING FACTORS

"The questions about knowledge on predisposing factors, numbered from 20 to 34, consist of the following: (20) What are the symptoms or signs of a person suffering from COVID-19?; (21) Can a clean and healthy lifestyle prevent the transmission of the COVID-19 virus?; (22) How is the COVID-19 virus transmitted from one patient to another?; (23) When should we wash our hands with soap to prevent COVID-19?; (24) Can wearing a mask prevent the transmission of COVID-19?; (25) When should we wear masks to avoid COVID-19?; (26) How should the mask be worn correctly?; (27) What is a safe distance for interaction with others outside the home during the pandemic?; (28) If you have flu or cold symptoms, should you self-isolate and avoid contact with other people?; (29) How should hands be washed effectively?; (30) Can hand sanitizer kill viruses?; (31) Do you engage in at least 20 minutes of physical activity every day?; (32) What is the recommended dietary pattern for adults?; (33) If not wearing a mask, should you cover your mouth and nose with a handkerchief, tissue, or arm when sneezing or coughing?; (34) Is regular disinfection necessary?"

THE ENABLING FACTORS

"Enabling questions begin at number 45 and are as follows: (45) Are you provided with a public handwashing facility? (46) Where is the handwashing facility located in your neighborhood? (47) Have you received information on preventing COVID-19 transmission in your area? (48) Through what media was this information provided?; (49) Has disinfection spraying been conducted in your area?"

THE REINFORCING FACTORS

"Questions regarding reinforcement measures are as follows: (53) Are there any social sanctions or fines imposed on individuals who do not wear masks outside their homes? (54) Have there been any instances of the police or authorities enforcing mask-wearing for COVID-19 by seizing masks? (57-61) These questions pertain to the support for health protocols for families and others."

THE BEHAVIOUR FACTORS

"Questions concerning behaviors in implementing health protocols to prevent the spread of pandemics start from number 36, which includes 8 items regarding health protocols: (a) Do you habitually wear masks when outside the home?; (b) Do your family members (spouse, children, others) wear masks when leaving the house?; Do you wash your hands with soap and running water before entering the home or after returning from public places like markets or food stalls?; (d) Do you maintain a distance of 1-2 meters from other people in crowded places?; (e) Do you practice correct etiquette when coughing and sneezing, such as covering your mouth or avoiding others?; (f) Have you increased your consumption of vegetables and fruits?; (g) Do you engage in at least 20 minutes of physical activity daily?; (h) Do you regularly disinfect commonly touched objects like door handles. cell phones, and carpets?"

Figure 1. Conceptual Framework, and the Question of Behavior in Implementing Health protocols in preventing COVID-19

79% were assiduous in donning masks, 74% were meticulous in observing hand hygiene, and a somewhat diminished 59% were diligent in upholding social distancing norms, as illustrated incisively in Figure 2. The scrutiny of adherence levels revealed tangible impediments to the efficacious enforcement of social distancing norms within the community. This situation is also observed in many other parts of the world (Gonzalez et al., 2021; Sadjadi et al., 2021). A salient exacerbator of this quandary emanated from the recurrent congregations associated with religious and cultural ceremonies. These assemblies intrinsically engender intimate social interactions, rendering the implementation of distancing protocols particularly intricate (Sisti et al., 2023; Tan et al., 2021).

Concurrently, 37% of respondents affirmed an unwavering adherence to systematic disinfection practices. This unveils a conspicuous lacuna in the populace's compliance with the stringent health directives promulgated by the government. Such a revelation accentuates the exigency for augmented public awareness initiatives, stringent enforcement mechanisms, and the inculcation of a pervasive culture of health consciousness and communal solidarity in combatting the pathogenic adversary (Hu *et al.*, 2020; Kaushik *et al.*, 2021).

The vital role of regular disinfection in mitigating COVID-19's impact cannot be overstated (Beggs and Avital, 2020; Wang et al., 2020). Yet, a concerning gap exists in public adherence to this and other health protocols, despite ongoing governmental warnings. Local governments' strategies are pivotal in enhancing compliance, necessitating contextspecific, adaptive, and responsive approaches (Ayouni et al., 2021; S. Talabis et al., 2021). The varied adherence patterns across communities point to the need for tailored interventions that consider sociocultural, economic, and demographic factors. In this intricate situation, reinforcing the healthcare system through collaboration among policymakers, public awareness campaigns, community engagement, and enforcement is pivotal for a comprehensive and effective response to the pandemic (Haldane et al., 2021; Loewenson et al., 2021). As an illustration, the decision by Chinese authorities to promptly impose a lockdown policy was found to be efficacious in managing the outbreak (Baloch et al., 2020). In stark contrast, the Indonesian government's tactic centered on imposing broad-scale movement restrictions coupled with prioritized vaccinations in regions recording the peak incidences of the COVID-19 pandemic (Thorik, 2020).



Figure 2. Percentage of Behavior Description of Health Protocols in South Tangerang (n = 5326 respondents)

One of the barriers to the weaknesses of Large-Scale Restrictions (PSBB) and their ineffectiveness is primarily attributed to the ongoing paradigm shift from treating the sick to improving overall health (Boyce et al., 2022; Seale et al., 2022). Given this ongoing paradigm shift, implementing preventive and promotive measures in the context of the pandemic has proven to be quite challenging. The active and engaged involvement of community guards (Linmas) and local village leaders (Lurah) within the COVID-19 Task Force has played a pivotal role in enhancing the management and coordination of local resources amidst a health crisis. Their participation is vital in not only streamlining the distribution and utilization of these resources but also in ensuring that critical information and directives are effectively communicated and implemented at the grassroots level. This collaborative approach is instrumental in fortifying the community's response to the pandemic, thereby significantly contributing to the overall efficiency and success of the health crisis management efforts (Haim et al., 2021). Public disappointment with the success of health promotion becomes evident when a significant portion of the population not only ignores health protocols but also fails to participate in vaccination programs (Feleszko et al., 2021; Islam et al., 2021).

The current study underscores the influence of knowledge, attitude, enabling, and reinforcing factors on community adherence to health protocols. Nevertheless, the potency of these elements in driving the effective implementation of health protocols is relatively modest, increasing the likelihood by merely 2.0-3.5 times, with a statistically significant p-value of less than 0.05 (as delineated in Table 1). It aligns with multiple research endeavors identifying correlations between these variables and behavioral shifts toward adopting healthier practices (Lee *et al.*, 2021; Zhi-Hao Li *et al.*, 2020).

Enhancing the effectiveness of behavioral modifications necessitates strategic interventions at the community level, specifically through active community engagement in managing COVID-19 (Miao et al., 2021). As exemplified by PARC-19 (Community-Based Fighting Initiatives COVID-19), communitybased approaches have emerged as pivotal strategies, encompassing five primary functions in comprehensive and regional public health efforts. These functions, originally developed from the five-level prevention method by Leavell and Clark, include (1) health promotion, (2) specific protection, (3) early diagnosis and immediate treatment, (4) disability limitation, and (5) rehabilitation. In this context, these

Predisposing, Enabling & Reinforcing	Behavior Toward Health Protocols						_			
	Not Good		Good		Total		P value	OR (95%		
	n	%	n	%	n	%		CI)		
Respondent's knowledge about COVID-19										
Poor knowledge	1159	21,8	1233	23,1	2392	44,9		2,008		
Good knowledge	936	17,6	1886	37,5	2934	55,1	0,01	(1,796-		
Total	2095	39,4	3119	60,6	5326	100		2,245)		
Respondent's attitude about COVID-19										
Poor attitudes	1448	27,2	944	17,1	2392	44,9		2,219		
Good attitudes	1067	20,2	1867	35,1	2934	55,1	0,01	(1,988-		
Total	2515	47,4	2811	52,8	5326	100		2,478)		
Respondent's enabling about COVID-19										
Poor enabling	1412	26,5	980	18,4	2392	44,9		2,684		
Good enabling	1155	21,7	1778	33,4	2934	55,1	0,01	(2,401-		
Total	2567	48,2	2758	51,8	5326	100		3,000)		
Respondent's reinforcing about COVID-19										
Poor reinforcing	1678	31,5	714	13,4	2392	44,9		2,917		
Good reinforcing	1308	24,6	1625	30,5	2934	55,1	0,01	(2,603-		
Total	2986	56,1	2339	43,9	5326	100		3,269)		

Table 1. The relationship between Health Protocols Respondents and Knowledge, Attitude, and Reinforcing

Source: Primary Data, 2020

five functions are integrated into essential field interventions for COVID-19 mitigation, which entail (a) mobilizing volunteers for the identification and monitoring of COVID-19 patients and individuals closely associated with them, (b) collection of donations and essential supplies to help the patient or suspected COVID 19, and (c) providing critical community services to ensure that those in home-based confinement have access to life-sustaining resources (Siregar *et al.*, 2022). Such community health initiatives are pivotal in enhancing resilience during prolonged pandemics (Cheng *et al.*, 2020).

emphasis The on communitylevel health development by Community Health Centers (Puskesmas) necessitates strengthening through the involvement of the Pentahelix network, comprising Government, the Business World, Academics, Media, and Non-Governmental Organizations, in every public health intervention (Ardiansyah et al., 2023; Upe et al., 2021). This intervention should encompass the five levels of prevention or action, aligning with the Community Health Center framework, and adopting a systemic approach while emphasizing prevention strategies to address the challenges posed by the pandemic (Siregar et al., 2022). An important advantage of this comprehensive approach is its potential to expedite community development efforts upstream (Schulz et al., 2020). This achievement is realized through the enhancement of government institutions and related stakeholders' capacity to effectively respond to the pandemic situation (Djalante et al., 2020).

The interventions carried out during field observations were found to be incomplete due to a lack of coordination between community health centers, sub-districts, and community leaders. This issue became particularly significant when COVID-19 cases were identified in sub-district areas. The unpreparedness of government officials to establish effective communication and community assistance exacerbated the situation. Consequently, the dissemination of information about COVID-19 became biased, and in certain instances, residents even refused to permit COVID-19 patients to reside in their neighborhoods out of fear of contracting the virus. Additionally, there were instances of community groups refusing COVID-19 vaccination.

Therefore, strategic interventions to address the COVID-19 crisis should prioritize a community-level approach (Owoyemi et al., 2021), particularly within the jurisdiction of the lowest government units, such as the Puskesmas area. Collaborative efforts involving various stakeholders, including the Police, Babinsa, and volunteers, have been initiated to trace and manage COVID-19 cases. Despite the ongoing efforts, coordination challenges remain a significant hurdle, underscoring the complexities and nuances inherent in multiagency collaboration. This situation calls for a more nuanced understanding and strategic approach to ensure effective communication and synergy among the various involved parties (Abdeen et al., 2021; Coccia and Robertson, 2009). Simultaneously, community-driven initiatives to assist COVID-19 patients in self-isolation at their residences have been commendable, characterized by generous donations that cater to the daily needs of those affected. However, these noble efforts appear to be geographically limited, with operations predominantly concentrated in specific pockets of the village (Isnainy et al., 2022; Putri and Rahmah, 2020; Suwandi et al., 2022).

Conclusion

Our research findings reveal a clear relationship between knowledge, attitudes, supporting factors, reinforcing elements, and community compliance with established health protocols. However, despite this correlation, it is evident that the influence of these factors in realizing the implementation of strict health protocols is moderately effective, resulting in an increase in compliance rates by only 2.0-3.5 times. These results highlight a concerning trend: people's commitment to health protocols falls short of expectations. Addressing this gap requires critical re-stratification and innovation in our approach. There is a need to prioritize localized strategies within the community environment, particularly within the purview of the Community Health Center. An integrated system involving PARC-19 and utilizing the Pentahelix network model,

which leverages synergies among Government, Business, Academia, Media, and Non-Governmental Organizations, along with a five-level prevention approach, is imperative. This collaborative effort presents a multifaceted and holistic strategy to tackle the challenges of the COVID-19 Pandemic. These community engagement or endeavor methods are designed to enhance community participation, cultivate an understanding of the significance of health protocols, and seamlessly integrate them into daily routines. The objective is to transition from a paradigm of illness to one of health, thereby equipping the community with the capacity to endure the prolonged pandemic, both in the present and future.

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References

- Abdeen, F.N., Fernando, T., Kulatunga, U., Hettige, S., & Ranasinghe, K.A., 2021. Challenges in Multi-Agency Collaboration in Disaster Management: A Sri Lankan Perspective. *Int. J. Disaster Risk Reduct*, 62, pp.102399.
- Ardiansyah, A., Suparto, S., Hajri, W.A., Rafi, M., & Amri, P., 2023. Analysis of the Synergy of the Penta Helix Model in Handling COVID-19 at the Pekanbaru City Level. *J. Contemp. Gov. Public Policy*, 4, pp.1–22.
- Ayouni, I., Maatoug, J., Dhouib, W., Zammit, N., Fredj, S.B., Ghammam, R., & Ghannem, H., 2021. Effective Public Health Measures to Mitigate the Spread of COVID-19: A Systematic Review. *Bmc Public Health*, 21, pp.1015.
- Baloch, S., Baloch, M.A., Zheng, T., & Pei, X., 2020.
 The Coronavirus Disease 2019 (COVID-19)
 Pandemic. *Tohoku J. Exp. Med*, 250, pp.271–278.
- Beggs, C.B., & Avital, E.J., 2020. Upper-room Ultraviolet Air Disinfection Might Help to Reduce COVID-19 Transmission in Buildings: A Feasibility Study. *PeerJ*, 8, pp.e10196.
- Boyce, M.R., Asprilla, M.C., van Loenen, B., McClelland, A., & Rojhani, A., 2022. How do

Local-Level Authorities Engage in Epidemic and Pandemic Preparedness Activities and Coordinate with Higher Levels of Government? Survey Results from 33 Cities. *PLOS Glob. Public Health*, 2, pp.e0000650.

- Cheng, Y., Daniel., Yu, J., Shen, Y., & Huang, B., 2020. Coproducing Responses to COVID-19 with Community-Based Organizations: Lessons from Zhejiang Province, China. *Public Adm. Rev*, 80, pp.866–873.
- Coccia, F., & Robertson, K., 2009. Multi-Agency Working: Challenges in Getting It Right. *Psychiatr. Bull.*, 33, pp.124–126.
- Djalante, R., Lassa, J., Setiamarga, D., Sudjatma, A., Indrawan, M., Haryanto, B., Mahfud, C., Sinapoy, M.S., Djalante, S., Rafliana, I., Gunawan, L.A., Surtiari, G.A.K., & Warsilah, H., 2020. Review and Analysis of Current Responses to COVID-19 in Indonesia: Period of January to March 2020. *Prog. Disaster Sci*, 6, pp.100091.
- Ebrahim, S.H., Ahmed, Q.A., Gozzer, E., Schlagenhauf, P., & Memish, Z.A., 2020. Covid-19 and Community Mitigation Strategies in A Pandemic. *British Medical Journal Publishing Group*, 2020.
- Feleszko, W., Lewulis, P., Czarnecki, A., & Waszkiewicz, P., 2021. Flattening the Curve of COVID-19 Vaccine Rejection—An International Overview. Vaccines, 9, pp.44.
- Ferguson, N., Laydon, D., Nedjati Gilani, G., Imai, N., Ainslie, K., Baguelin, M., Bhatia, S., Boonyasiri, A., Cucunuba Perez, Z., & Cuomo-Dannenburg, G., 2020. Report 9: Impact of Non-Pharmaceutical Interventions (NPIs) to Reduce COVID19 Mortality and Healthcare Demand.
- Fitria Chusna., 2021. Jumlah Vaksin Terbatas, Pemerintah Tak Prioritaskan Penyintas Covid-19 dalam Vaksinasi. https://nasional. kompas.com/read/2021/01/24/19211291/ jumlah-vaksin-terbatas-pemerintah-takprioritaskan-penyintas-covid-19-dalam.
- Gonzalez, C.J., Aristega Almeida, B., Corpuz, G.S., Mora, H.A., Aladesuru, O., Shapiro, M.F., & Sterling, M.R., 2021. Challenges with Social Distancing During the COVID-19 Pandemic Among Hispanics in New York City: A Qualitative Study. *BMC Public Health*, 21, pp.1946.
- Haim, D., Ravanilla, N., & Sexton, R., 2021. Sustained Government Engagement Improves Subsequent Pandemic Risk Reporting in Conflict Zones. *Am. Polit. Sci. Rev*, 115, pp.717–724.
- Haldane, V., De Foo, C., Abdalla, S.M., Jung, A.-

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S., Tan, M., Wu, S., Chua, A., Verma, M., Shrestha, P., & Singh, S., 2021. Health Systems Resilience in Managing the COVID-19 Pandemic: Lessons from 28 Countries. *Nat. Med*, 27, pp.964–980.

- Hu, D., Lou, X., Xu, Z., Meng, N., Xie, Q., Zhang, M., Zou, Y., Liu, J., Sun, G., & Wang, F., 2020.
 More Effective Strategies are Required to Strengthen Public Awareness of COVID-19: Evidence from Google Trends. J. Glob. Health, 10, pp.011003.
- Islam, M.S., Kamal, A.-H.M., Kabir, A., Southern, D.L., Khan, S.H., Hasan, S.M., Sarkar, T., Sharmin, S., Das, S., & Roy, T., 2021. COVID-19 Vaccine Rumors and Conspiracy Theories: The Need for Cognitive Inoculation Against Misinformation to Improve Vaccine Adherence. *PloS One*, 16, pp.e0251605.
- Isnainy, U.C.A.S., Zainaro, M.A., & Prayoga, S.E., 2022. Pendidikan Kesehatan Tentang Isolasi Mandiri Dalam Upaya Penanganan Covid-19 Di RT 007 Kelurahan Segalamider Kota Bandar Lampung. J. Kreat. Pengabdi. Kpd. Masy. PKM, 5, pp.939–943.
- Kaushik, M., Agarwal, D., Gupta, A.K., 2021. Cross-sectional study on the role of public awareness in preventing the spread of COVID-19 outbreak in India. Postgrad. Med. J. 97, 777–781. https://doi.org/10.1136/ postgradmedj-2020-138349
- Lee, M., Kang, B.-A., You, M., 2021. Knowledge, attitudes, and practices (KAP) toward COVID-19: a cross-sectional study in South Korea. BMC Public Health 21, 295. https:// doi.org/10.1186/s12889-021-10285-y
- Lestari, P.W., Dewi, G.K., 2022. Availability of Infrastructure and Covid-19 Prevention Behavior in Public Place. KEMAS J. Kesehat. Masy. 18.
- Li, H., 2020. Communication for coproduction: Increasing information credibility to fight the coronavirus. Am. Rev. Public Adm. 50, 692–697.
- Lindsey, T., Mann, T., 2020. Indonesia was in denial over coronavirus. Now it may be facing a looming disaster. Jkt. Post.
- Loewenson, R., Colvin, C.J., Szabzon, F., Das, S., Khanna, R., Coelho, V.S.P., Gansane, Z., Yao, S., Asibu, W.D., Rome, N., Nolan, E., 2021. Beyond command and control: A rapid review of meaningful community-engaged responses to COVID-19. Glob. Public Health 16, 1439–1453. https://doi.org/10.1080/1744 1692.2021.1900316
- Miao, Q., Schwarz, S., Schwarz, G., 2021. Responding to COVID-19: Community volunteerism

and coproduction in China. World Dev. 137, 105128. https://doi.org/10.1016/j. worlddev.2020.105128

- Owoyemi, A., Okolie, E.A., Omitiran, K., Amaechi, U.A., Sodipo, B.O., Ajumobi, O., Nnaji, C.E., Okedo-Alex, I.N., 2021. Importance of community-level interventions during the COVID-19 pandemic: lessons from Sub-Saharan Africa. Am. J. Trop. Med. Hyg. 105, 879.
- Pandey, V., Shadab, 2021. Covid-19 in India: Why second coronavirus wave is devastating. BBC News.
- Putri, N.W., Rahmah, S.P., 2020. Edukasi kesehatan untuk isolasi mandiri dalam upaya penanganan COVID-19 di Kanagarian Koto Baru, Kabupaten Solok. J. Abdidas 1, 547– 553.
- S. Talabis, D.A., Babierra, A.L., H. Buhat, C.A., Lutero, D.S., Quindala, K.M., Rabajante, J.F., 2021. Local government responses for COVID-19 management in the Philippines. BMC Public Health 21, 1711. https://doi. org/10.1186/s12889-021-11746-0
- Sadjadi, M., Mörschel, K.S., Petticrew, M., 2021. Social distancing measures: barriers to their implementation and how they can be overcome – a systematic review. Eur. J. Public Health ckab103. https://doi.org/10.1093/ eurpub/ckab103
- Saputra, H., Salma, N., 2020. Dampak PSBB dan PSBB Transisi di DKI Jakarta dalam Pengendalian COVID-19. Media Kesehat. Masy. Indones. 16, 282–292.
- Schulz, A.J., Mehdipanah, R., Chatters, L.M., Reyes, A.G., Neblett, E.W., Israel, B.A., 2020. Moving Health Education and Behavior Upstream: Lessons From COVID-19 for Addressing Structural Drivers of Health Inequities. Health Educ. Behav. 47, 519–524. https://doi. org/10.1177/1090198120929985
- Seale, H., Harris-Roxas, B., Heywood, A., Abdi, I., Mahimbo, A., Chauhan, A., Woodland, L., 2022. The role of community leaders and other information intermediaries during the COVID-19 pandemic: insights from the multicultural sector in Australia. Humanit. Soc. Sci. Commun. 9.
- Short, K.R., Kedzierska, K., van de Sandt, C.E., 2018. Back to the future: lessons learned from the 1918 influenza pandemic. Front. Cell. Infect. Microbiol. 8, 343.
- Siregar, K.N., Nasir, N.M., Baequni, Darmawan, D., Kurniawan, R., Retnowati, Prabawa, A., Darmawan, E.S., Ariyanti, F., Daniah, 2022. Increasing Community Awareness on

Covid-19 Prevention in Jakarta, Indonesia: An Outreach Program for Urban Poor. Asia Pac. J. Public Health 34, 443–445.

- Sisti, L.G., Buonsenso, D., Moscato, U., Costanzo, G., Malorni, W., 2023. The Role of Religions in the COVID-19 Pandemic: A Narrative Review. Int. J. Environ. Res. Public. Health 20, 1691. https://doi.org/10.3390/ijerph20031691
- Suwandi, S., Lestari, W.J., Asfi, M., 2022. Humanitarian Rice (Healthy Rice for Self-Isolating Covid-19 Patients). J. Pemberdaya. Umat 1, 9–19.
- Tan, M.M., Musa, A.F., Su, T.T., 2021. The role of religion in mitigating the COVID-19 pandemic: the Malaysian multi-faith perspectives. Health Promot. Int. https://doi. org/10.1093/heapro/daab041
- Thorik, S.H., 2020. The Effectiveness of Large-Scale Social Restrictions in Indonesia in Overcoming the Covid-19 Pandemic 4.
- Trilla, A., Trilla, G., Daer, C., 2008. The 1918 "Spanish Flu" in Spain. Clin. Infect. Dis. 47, 668–673. https://doi.org/10.1086/590567
- Upe, A., Ibrahim, Z., Arsyad, M., Sumandiyar, A., Jabar, A.S., 2021. Strengthening of Social Capital through Penta Helix Model in

Handling Covid-19 Pandemic. Int. J. Pharm. Res. 09752366 13.

- Wang, Jiao, Shen, J., Ye, D., Yan, X., Zhang, Y., Yang,
 W., Li, X., Wang, Junqi, Zhang, L., Pan, L.,
 2020. Disinfection technology of hospital wastes and wastewater: Suggestions for disinfection strategy during coronavirus Disease 2019 (COVID-19) pandemic in China. Environ. Pollut. 262, 114665. https://doi.org/10.1016/j.envpol.2020.114665
- World Health Organization, 2023. WHO Coronavirus Disease (COVID-19)
 Dashboard [WWW Document]. URL https://covid19.who.int (accessed 2.19.22).
- World Health Organization, 2020. World Health Organization coronavirus disease 2019 (COVID-19) situation report.
- Zhi-Hao Li, Xi-Ru Zhang, Wen-Fang Zhong, Wei-Qi Song, Zheng-He Wang, Chen, Q., Liu, D., Huang, Q.-M., Shen, D., Chen, P.-L., 2020. Knowledge, attitudes, and practices related to Coronavirus disease 2019 during the outbreak among workers in China: A large cross-sectional study. PLoS Negl. Trop. Dis. 14, e0008584.