(Jurnal Administrasi Kesehatan Indonesia) p-ISSN 2303-3592, e-ISSN 2540-9301 @10.20473/jaki.v11j2.2023.212-220

DIFFERENCES IN PARENTS' READINESS TO ACCEPT CHILDREN'S COVID-19 VACCINATION IN PATI REGENCY

Perbedaan Kesiapan Orang Tua Terkait Vaksinasi COVID-19 Untuk Anak di Kabupaten Pati

Margaretha Inadyas Verganza¹, Ayun Sriatmi¹, *Nurhasmadiar Nandini¹

¹Health Administration and Policy, Faculty of Public Health, Diponegoro University, Semarang, Indonesia Correspondence*:
Address: Jln. Prof Sudarto S.H., Tembalang, Semarang, Indonesia | e-mail: nurhasmadiar.nandini@live.undip.ac.id

Abstract

Background: The coverage of COVID-19 vaccination for children in Pati Regency was still low at 37% in February 2022 compared to the 75% target. Some preliminary studies in Kudus showed that parents who received socialization about children's COVID-19 vaccination experienced concerns affecting their responses negatively to the program.

Aims: This study aims to analyze differences in parental acceptance of the COVID-19 vaccination for children in Pati Regency. Methods: This study was quantitative research with a cross-sectional approach. The variables consisted of 7Cs components (Confidence, Complacency, Constraints, Calculation, Collective Responsibility, Compliance, Conspiracy) and acceptance of COVID-19 vaccination. The total sample of respondents was 372 parents divided into two independent groups obtained by cluster and proportional sampling. Data were collected using a questionnaire via Google Forms and analyzed using the Mann-Whitney test.

Results: The results showed differences in parental acceptance of COVID-19 vaccination (sig = 0.006) regarding constraints (sig = 0.000), collective responsibility (sig = 0.012), compliance (sig = 0.012), confidence (sig = 0.019), complacency (sig = 0.020), calculation (sig = 0.027), and conspiracy (sig = 0.037).

Conclusion: Some differences were found between parents whose children received the vaccine and those whose children did not receive the COVID-19 vaccine. Parents whose children received the COVID-19 vaccine were likely to have a good perception of the COVID-19 vaccination. Meanwhile, parents whose children did not get vaccinated were likely to have a bad perception. Educational and consulting services possibly increase vaccination coverage.

Keywords: COVID-19 vaccination for children; different acceptance; 7Cs components

Abstrak

Latar Belakang: Cakupan vaksinasi COVID-19 untuk anak di Pati masih tergolong rendah yakni 37% pada Februari 2022 dibandingkan dengan target sebesar 75%. Penelitian terdahulu di Kudus menunjukkan bahwa orang tua yang telah menerima sosialisasi mengenai vaksinasi COVID-19 pada anak mengalami kekhawatiran yang berpengaruh secara negative pada respon mereka terhadap program.

Tujuan: Penelitian ini bertujuan untuk menganalisis perbedaan penerimaan orang tua terhadap vaksinasi COVID-19 pada anak di Kabupaten Pati.

Metode: Studi ini merupakan penelitian kuantitatif dengan pendekatan potong lintang. Variabel penelitiannya terdiri atas komponen 7Cs (Confidence, Complacency, Constraints, Calculation, Collective Responsibility, Compliance, Conspiracy) dan penerimaan vaksinasi COVID-19. Total sampel berjumlah 372 orang tua yang dibagi menjadi dua kelompok independent dan diperoleh melalui sampling kluster acak dan sampling proporsional. Data dikumpulkan menggunakan kuisoner melalui Google Form dan dianalisis menggunakan uji beda Mann Whitney.

Hasil: Hasil dari penelitian menunjukan terdapat perbedaan penerimaan vaksinasi COVID-19 (sig = 0.006) pada variabel hambatan (sig = 0.001), tanggung jawab kelompok (sig = 0.012), kepatuhan (sig = 0.012), kepercayaan (sig = 0.019), kepuasan (sig = 0.020), perhitungan (sig = 0.027), dan konspirasi (sig = 0.037).

Kesimpulan: Beberapa perbedaan ditemukan antara kelompok orang tua yang anaknya telah mendapatkan vaksin dan pada kelompok orang tua yang anaknya belum mendapatkan vaksin COVID-19. Orang tua yang anaknya telah mendapatkan vaksin cenderung memiliki persepsi yang baik terkait vaksinasi COVID-19. Sedangkan, orangtua yang anaknya belum menerima vaksin cenderung memiliki persepsi yang buruk. Upaya edukasi dan optimalisasi layanan konsultasi diperlukan untuk meningkatkan cakupan vaksinasi.

Kata kunci: komponen 7C, perbedaan penerimaan, Vaksinasi COVID-19 untuk anak



Indonesian Journal of Health Administration (*Jurnal Administrasi Kesehatan Indonesia*)
p-ISSN 2303-3592, e-ISSN 2540-9301, Volume 11 No.2 2023, DOI: 10.20473/jaki.v11i2.2023.212-220
Received: 2022-06-28, Revised: 2023-07-09, Accepted: 2023-11-07, Published: 2023-11-23.
Published by Universitas Airlangga in collaboration with *Perhimpunan Sarjana dan Profesional Kesehatan Masyarakat Indonesia (Persakmi)*.
Copyright (c) 2023 Margaretha Inadyas Verganza, Ayun Sriatmi, Nurhasmadiar Nandini
This is an Open Access (OA) article under the CC BY-SA 4.0 International License (https://creativecommons.org/licenses/by-sa/4.0/).

How to cite

How to cite: Verganza, M.I., Sriatmi, A., and Nandini, N. (2023) "Differences in Parents' Readiness to Accept Children's COVID-19 Vaccination in Patt Regency", Indonesian Journal of Health Administration, 11(2), pp. 212-220. doi: 10.20473/jaki.v11i2.2023. 212-220.

(Jurnal Administrasi Kesehatan Indonesia) p-ISSN 2303-3592, e-ISSN 2540-9301 €10.20473/jaki.v11i2.2023.212-220

Introduction

Coronavirus Disease 2019 (COVID-19) is a new variant of severe acute respiratory syndrome coronavirus 2 (SARS-Cov-2) (Rothan and Byrareddy, 2020). The rapid transmission results in a fluctuating increase in cases in various countries, including Indonesia. Since COVID-19 was first announced on March 2, 2021, COVID-19 cases have continued to increase and spread rapidly in various regions of Indonesia.

The Indonesian Government responded to the significant increase by issuing Presidential Decree Number 12 of 2020 concerning the Determination of Non-Natural Disasters of the Spread of COVID-19 as a National Disaster. Due to massive COVID-19 cases, the Government followed up by issuing the COVID-19 vaccination policy. The policy aims to prevent and overcome the transmission of COVID-19 through vaccinations. The COVID-19 vaccination policy in Indonesia is carried out in stages for health workers, public service workers, the elderly, the public, and children aged 6-11 years (Sutari et al., 2022). In the school context, schools with teaching staff who received the COVID-19 vaccination could carry out direct face-toface learning for the 2021/2022 academic year as stated in Joint Decree of the Minister of Education and Culture, Minister of Religion, Minister of Health, and Minister of Home Affairs regarding Guidelines for Organizing Learning during the COVID-19 Pandemic. The implementation of direct learning was determined based on the zonation of COVID-19 vaccination coverage and the vaccination status of teaching staff in each district. The zoning level is based on the implementation of Community Activities Restrictions Enforcement. Direct learning was expected to encourage children's vaccination evenly (Kemendikbud, 2021). The COVID-19 vaccination policy for the 6-11-year-old group began in December 2021 to suppress the spread of COVID-19 in children (Nurhidayah et al., 2021; Nurrizka et al., 2023).

Pati Regency is one of Central Java's regencies conducting a few direct learning

trials during the pandemic with various considerations to prevent transmission and clusters of COVID-19 cases at schools. According to the COVID-19 vaccination coverage, Pati Regency was in zone one in January 2022, and thus, it had to apply direct learning. However, after one month running, children's vaccination coverage was still relatively low at 37% compared to the 75% target based on the Pati Regency Health Office in January 2022 (Dinas Kesehatan Kabupaten Pati, 2022). addition. after two weeks implementation, direct learning was stopped at some schools because of clusters of COVID-19 cases discovered.

From a preliminary study conducted on 20 mothers who had children aged 6-11 years, 14 mothers (70%) received direct explanations and outreach about children's vaccination programs from teachers and educators. Nine mothers (64.3%) who received the information were highly concerned about the COVID-19 vaccination program for their children. Some parents even indicated no need to vaccinate their children. Some parents even avoided the COVID-19 vaccination by setting off their children's school schedules. This condition shows the reluctance of parents to vaccinate their children against COVID. Possibly, they had doubts about the safety of the COVID-19 vaccine (Horiuchi et al., 2021; Ruggiero et al., 2021) and thus responded negatively to the vaccination program (Wouters et al., 2021; Bell et al., 2020).

The COVID-19 vaccination policy for children has evoked different societal responses, including those from parents. It has been proven that many parents decided not to vaccinate their children (Nurrizka et al., 2023) because their perceptions affected negative their attitudes toward refusing vaccinations (Bono et al., 2022). Differences in vaccination acceptance indicate the need for different interventions in each group to increase child vaccination coverage. especially in groups with low acceptance and without a vaccination status. This study aims to analyze differences in parental readiness for children's COVID-19 whose vaccination between parents

(Jurnal Administrasi Kesehatan Indonesia)
p-ISSN 2303-3592, e-ISSN 2540-9301
€10.20473/jaki.v11i2.2023.212-220

children were vaccinated and those whose children were not vaccinated.

Method

This study was quantitative and analytical research with a cross-sectional approach. The research method was descriptive comparative to determine the differences in parental acceptance between two independent groups. The study location was in Pati Regency, Central Java Province, a district with low COVID-19 vaccination coverage in 2021. Primary data sources were collected by filling out an online questionnaire (via Google form) because the research was conducted during physical distancing situations. Secondary data were collected from various documents and reports from the Public Health Center and the Regency Health Office.

The population was parents of children aged 6-11 years old in Pati Regency. Data from the Pati Regency Health Office showed that 112,000 children aged 6-11 years were used for the basis of COVID-19 the vaccination. independent groups sampled consisted of 186 people each. One group comprised parents who got their children vaccinated and parents who did not. Sampling was done using cluster and proportional random sampling techniques based on the distance between the district and the city center. For this study, three districts, namely the Pati District, Gembong District, Gunungwungkal District, were selected. The proportional sampling technique was used to determine the number of respondents representing each district.

The inclusion criteria of the respondents were parents who lived in Pati Regency, had children aged 6-11 years old attending schools, and participated in filling out an online questionnaire. The exclusion criteria were parents who did not complete and return the questionnaire. If the respondents filled out the questionnaire more than once, the questionnaire sent for the first time was used.

Variables in this study adopting Geiger's vaccination readiness model included the 7C components: Confidence, Complacency, Constraints, Calculation, Collective Responsibility, Compliance, and Conspiracy (Geiger et al., 2022). Data was collected using a questionnaire containing items of positive and negative statements adapted from Geiger's model, which had been tested for validity and reliability. Data processing and analysis using computer software started with editing, coding, scoring, data input, data checking, and grouping. Univariate analysis with the frequency distribution of each variable and bivariate analysis was done using a non-parametric difference test (Mann-Whitney test) because the data were not normally distributed.

Results and Discussion

Table 1 shows the characteristics of the parent group whose children were vaccinated (Group A) and those whose children were not vaccinated (Group B). Most of the parents were ≥ 30 years old. In Group A, the majority of the respondents were male, while the majority in Group B were female. It could be seen that male parents were less likely to refuse vaccination than female parents. This study aligns with Zintel et al.'s study, stating that men's intention to vaccinate their children was higher than women's (Zintel et al... 2022). It is possibly because mothers were more likely to experience doubts about vaccinations than fathers (Horiuchi et al., 2021).

Table 1. Frequency of respondents' characteristic distribution

Characteristics	Vacci	nated	Not Vaccinated	
	f	%	f	%
Parents' Age				
<30 years	67	36	68	36.6
≥30 years	119	64	118	63.4
Gender				
Men	115	61.8	71	38.2
Woman	71	38.2	115	61.8

Table 2. Variable frequency distribution

	Vaccination Status				
Variable	Vaccinated		Not Vaccinated		p-value
	f	%	f	%	
Confidence					
Low	33	17.7	146	78.5	0.019
High	153	82.3	40	21.5	0.019
Complacency					
High	36	19.4	135	72.6	0.020
Low	150	80.6	51	27.4	0.020
Constraints					
High	16	8.6	120	64.5	0.000
Low	170	91.4	66	35.5	0.000
Calculation					
Low	38	20.4	147	79	0.027
High	148	79.6	39	21	0.027
Collective Responsibility					
Low	44	23.7	116	62.4	0.012
High	142	76.3	70	37.6	0.012
Compliance					
Low	28	15.1	125	67.2	0.012
High	158	84.9	61	32.8	0.012
Conspiracy					
High	86	46.2	96	51.6	0.037
Low	100	53.8	90	48.4	0.037
Children's COVID-19					
Vaccination Acceptance					
Low	20	10.8	165	88.7	0.006
High	166	89.2	21	11.3	0.000

Table 2 shows a higher proportion of confidence. calculation. collective compliance, responsibility, perceived obstacles, and acceptance of the COVID-19 vaccination in Group A than in Group B. However, Group B had high aspects of complacency and conspiracy. Statistically, it was also proven that there were significant differences in all indicators of immunization readiness from Geiger's model, which included 7Cs between the two groups because the p-value obtained was less than 0.05 (p < 0.05).

Group A was likely to have high confidence in COVID-19 vaccination, while Group B was not. Likewise, perceived constraint factors are also different between the groups. High barriers were experienced by 64.5% of Group B. Barriers were measured based on aspects of structural and psychological barriers. Higher differences in barriers between groups can be seen in Group A than in

Group B. This shows that barriers to accessing COVID-19 vaccination in children can lead to vaccination refusal (Kwok *et al.*, 2021).

Group B had structural barriers when receiving information due to the low exposure and access to information, especially on social media, while they just relied on health workers to get information (Skjefte et al., 2021). However, the health worker-assisted broadcast was not optimal since schools were identified as the ones that broadcast information on WhatsApp. Meanwhile, increasing online consultation for parents from schools and health workers is necessary. In addition to structural barriers, Group В experienced psychological barriers in readiness and willingness to pay. Low income causes a budget shortage for parents to pay for vaccination services (Ginting et al., 2021). Thus, door-to-door services are recommended to minimize

(Jurnal Administrasi Kesehatan Indonesia)
p-ISSN 2303-3592, e-ISSN 2540-9301
610.20473/jaki.v11i2.2023.212-220

cost barriers in COVID-19 vaccination services for children.

The results showed a p-value of 0.012 in the collective responsibility variable, indicating significant differences between groups. In this case, 62.4% of Group B had lower responsibility for their children's vaccination than Group A. Collective responsibility is measured through people's intention to protect others. Vaccinated groups have a high desire and awareness to protect others (Giuseppe et al., 2022). Group responsibility is a form of individual awareness affecting individual's perception and motivation to act. The low collective awareness in Group B could be due to a lack of knowledge about COVID-19 vaccination, including its positive impact on oneself, family, and the surrounding environment (Liu et al., 2022). Thus, it is necessary to provide information to family welfare empowerment groups and female health cadres to spread the information more rapidly.

This study showed that Group B had lower compliance (67.2%) than Group A. Compliance was measured through the aspect of self-regulatory. Compliance is community support for a policy. Low adherence in an unvaccinated group may be caused by low trust in policy-making authorities (Lazarus et al., 2020). Policy regarding COVID-19 mitigation considered insufficient and thus requires a lengthy response from policymakers and the public (Wiranti et al., 2020). Therefore, various approaches related implementation of regulation are needed, for example, by collaborating with various parties such as media and community leaders.

This study obtained a p-value of in the confidence suggesting a difference in confidence between Group A and Group B. Group B (78.5%) had lower confidence in vaccine safety and effectiveness, policy-making authority, and competence of health workers than Group A. In other words, Group A's trust was higher than Group B's. Trust becomes motivation а encouragement for individuals determining a preventive action (Guidry et al., 2020). Low confidence, on the other

hand, may be caused by low knowledge, especially of the manufacture development of COVID-19 vaccines (Paul et al., 2020). In addition, society might put low trust in the approach and lack of transparency of the relevant policy-making authorities and government (Lazarus et al., 2020). Besides, low trust may related to health workers' competence due to unsatisfactory health service experience and lack of information delivery regarding the service mechanism (Lasmita et al., 2021). Hence, education and training are needed. especially to improve communication skills of health workers for disseminating information vaccination programs.

Differences in the complacency variable between groups were found with a p-value of 0.020. This study showed that 72.6% of Group B had higher selfsatisfaction about health status and immunity than Group A. Differences in selfsatisfaction are associated with low perceptions of pain, causing a low acceptance of preventive services. Every individual has different concepts of health and illness, thus affecting their perception of pain. Parents tend to take precautionary measures when they believe the steps can reduce the risk of disease transmission (Dewi et al., 2021; Laili and Tanoto, 2021). In addition to the low perception of pain, the lack of cues to action because of limited information exposure on mass media, from the surrounding environment, or past service experience leads to individual reluctance to take preventive action (Gerretsen et al., 2021). In tackling the issues, intense exposure to information on social media or direct advocacy may improve group responsibility and trust.

The results showed a p-value of 0.027, indicating differences in the calculation of perceived benefits between groups. Group B (79%) had a lower calculation of perceived benefits than Group A. Individuals' perceived benefits and risks positively influenced individual interest in the COVID-19 vaccination (Erawan et al., 2021). Taking no advantage of COVID-19 vaccination services for children may occur due to the low calculation of perceived benefits (Guidry et

(Jurnal Administrasi Kesehatan Indonesia)
p-ISSN 2303-3592, e-ISSN 2540-9301
610.20473/jaki.v11i2.2023.212-220

al., 2020; Reiter et al., 2021). The information dissemination, which will improve group responsibility, trust, and self-satisfaction, is a way to intervene in the parental calculation of perceived benefits.

Besides. the conspiracy variable differed between groups with a pvalue of 0.037. This study found that 51.6% of Group B had higher conspiracy trust than Group A. Hoax news and government conspiracies are aspects measured in the conspiracy beliefs. Group B possibly thought that hoax news was aimed at setting up propaganda for certain groups, resulting in the rejection of vaccinations. Hoax news about COVID-19 vaccination without selective attitudes creates public anxiety and responses to vaccination programs (Winter et al., 2022). Some people who agree with vaccination understand that vaccination prevents infectious diseases. However, people who are reluctant to receive vaccinations assert that vaccination is a mass weakening effort conspired by the government together with pharmaceutical companies (Ripp and Röer, 2022). Thus, the public trust issue could be overcome through direct and indirect communicative approaches.

Significant differences in acceptance of vaccination were also found between groups with a p-value of 0.006. Group B (88.7%) had lower acceptance than Group A, likely because of the low perception and desire for vaccinations (Karlsson et al., 2021). In addition to these factors, low acceptance is caused by low support for the program implementation (Navin et al., 2022) and insufficient knowledge of the benefits and constraints of the vaccination (Freitas et al., 2021; Ripp and Röer, 2022). More studies have also shown that parental acceptance is the key to success in the COVID-19 vaccination program children. Otherwise, low parental acceptance may lead to low vaccination coverage and high COVID-19 transmission rates among children. Previous research also shows differences in acceptance between people who had received the COVID-19 vaccine and those who did not (Lasmita et al., 2021). Supporting the current findings, other research mentions parents whose children had received the

HPV vaccine and those whose children did not show different acceptance (Dethan and Suariyani, 2017).

Conclusion

This study reveals some differences in terms of confidence, complacency, constraints, calculation of benefits and risks, collective responsibility, compliance, and conspiracy against receipt of COVID-19 vaccination in children. As different perceptions cause these differences, parents with good perceptions had vaccination programs children vaccinated. While this study addressed affecting different aspects parental readiness for children's vaccination, it had limited data, focusing only on online data. In addition, this study used a theory that is not commonly cited in previous research, thereby making it difficult to verify the results with the previous findings.

In responding to the findings, this suggests optimizing online studv consultation services, conducting health and communication skill competency training for health workers. capacity building for health cadres, and monitoring and evaluating the implementation of vaccinations COVID-19 in children regularly. At the first-level health facilities, schools and health cadres should be empowered to provide education about COVID-19 vaccination to parents directly or indirectly. Access to information from health workers and official government social media is required for all members of society to understand the vaccination programs better. Future researchers are expected to conduct further research on variables that influence factors or differences in parental acceptance.

Abbreviations

7Cs: Confidence, Complacency, Constraints, Calculation, Collective Responsibility, Compliance, Conspiracy; COVID- 19: Coronavirus Disease 2019; SARS-Cov-2: Severe Acute Respiratory Syndrome Coronavirus 2; HPV: Human Papilloma Virus.

(Jurnal Administrasi Kesehatan Indonesia)
p-ISSN 2303-3592, e-ISSN 2540-9301
€10.20473/jaki.v11i2.2023.212-220

Declarations

Ethics Approval and Consent Participant

This study has passed the ethical clearance and is feasible according to the seven ethical values set by the World Health Organization's 2011 standards with the ethics review number 139/EA/KEPK-FKM/2022 published by the Health Research Ethics Commission of the Faculty of Public Health, Diponegoro University on April 26, 2022.

Conflict of Interest

The authors declare that they have no competing interests.

Availability of Data and Materials

Data and materials are available upon request.

Author's Contribution

MIV and AS conceptualized the study and created the methodology; MIV, AS, and NN wrote, reviewed, and edited the manuscript; MIV and NN wrote the original draft.

Funding Source

Not applicable.

Acknowledgment

The authors would like to thank the Pati Regency Health Office for giving research permission and all respondents who participated in this study.

References

- Bell, S. et al. (2020) 'Parents' and guardians' views on the acceptability of a future COVID-19 vaccine: A multi-methods study in England', Vaccine [Preprint]. Available at: https://doi.org/10.1016/j.vaccine.202 0.10.027.
- Bono, S.A. et al. (2022) 'Adults 'Acceptance of COVID-19 Vaccine for Children in Selected Lower- and Middle-Income Countries', MDPI, 10(11), pp. 1–17. Available at: https://doi.org/10.3390/vaccines10010011.

- Dethan, C.M. and Suariyani, N.L.P. (2017) 'Knowledge of and Attitude towards HPV Vaccination of Female Students in Private High Schools', *Jurnal MKMI*, 13(2), pp. 167–175.
- Dewi, F.T., Sriatmi, A. and Nandini, N. (2021) 'Persepsi Dampak Ekonomi dan Sosial terhadap Kerentanan Fisik pada Status Kesehatan selama Pandemi COVID-19 (Studi Kasus di Provinsi Jawa Tengah)', *MKMI*, 20(1), pp. 19–25. Available at: https://doi.org/10.14710/mkmi.20.1.1 9-25.
- Dinas Kesehatan Kabupaten Pati (2022) 'Data Capaian Vaksinasi COVID-19 di Kabupaten Pati'.
- Erawan, M.A. et al. (2021) 'Predicting Covid 19 Vaccination Intention: The Role of Health Belief Model of Muslim Societies in Yogyakarta', Al-Sihah: Public Health Science Journal, 13(7), pp. 36–50. Available at: https://doi.org/: 10.24252/alsihah.v13i1.20647.
- Freitas, L.D., Basdeo, D. and Wang, H. (2021) 'Public trust, information sources and vaccine willingness related to the COVID-19 pandemic in Trinidad and Tobago: an online cross-sectional survey', *The Lancet Regional Health Americas*, 3(1), pp. 1–8. Available at: https://doi.org/10.1016/j.lana.2021.100051.
- Geiger, M. et al. (2022) 'Measuring the 7 Cs of Vaccination Readiness', European Journal of Psychological Assessment, 38(4), pp. 261–269.
- Gerretsen, P. et al. (2021) 'Individual determinants of COVID-19 vaccine hesitancy', PLoS ONE, 32(1), pp. 1–14. Available at: https://doi.org/10.1371/journal.pone. 0258462.
- Ginting, D., Fentiana, N. and Dachi, R.A. (2021)'Survei Cross-Sectional Online Untuk Menilai Vaksin Covid-19 Terkait Akseptabilitas. Pengetahuan dan Kesediaan Membayar di Kalangan Mahasiswa Kesehatan Masyarakat di Provinsi Sumatera Utara', JIUBJ, 21(3), pp. 1168-1172. Available at:

(Jurnal Administrasi Kesehatan Indonesia)
p-ISSN 2303-3592, e-ISSN 2540-9301
6:10.20473/jaki.v11i2.2023.212-220

- https://doi.org/10.33087/jiubj.v21i3.1
- Giuseppe, G.D. et al. (2022) 'Parents' Willingness to Vaccinate Their Children With COVID-19 Vaccine: Results of a Survey in Italy', Journal of Adolescent Health, 70(4), pp. 550–558. Available at: https://doi.org/10.1016/j.jadohealth.2022.01.003.
- Guidry, J.P.D. et al. (2020) 'Willingness to get the COVID-19 Vaccine with and without Emergency Use Authorization', AJIC: American Journal of Infection Control, 11(1), pp. 1–29. Available at: https://doi.org/10.1016/j.ajic.2020.11.018.
- Horiuchi, S. et al. (2021) 'Factors of parental COVID-19 vaccine hesitancy: A cross sectional study in Japan', PLoS ONE, 16(12 December), pp. 1–15. Available at: https://doi.org/10.1371/journal.pone. 0261121.
- Karlsson, L.C. et al. (2021) 'Fearing the disease or the vaccine: The case of COVID-19', Personality and Individual Differences, 172(1), pp. 1–11. Available at: https://doi.org/10.1016/j.paid.2020.110590.
- Kemendikbud (2021) Vaksinasi Covid-19 bagi Anak Usia 6-11 Tahun Dorong Optimalisasi Pembelajaran Tatap Muka Terbatas. Jakarta.
- Kwok, K.O. et al. (2021) 'Influenza vaccine uptake, COVID-19 vaccination intention and vaccine hesitancy among nurses: A survey', International Journal of Nursing Studies, 114(1), pp. 1–9. Available at: https://doi.org/10.1016/j.ijnurstu.202 0.103854.
- Laili, N. and Tanoto, W. (2021) 'Model Kepercayaan Kesehatan (Health Belief Model) Masyarakat pada Pelaksanaan Vaksin COVID-19', *JIKK*, 17(3), pp. 198–207. Available at:
 - https://doi.org/10.26753/jikk.v17i3.62 5.
- Lasmita, Y., Misnaniarti and Idris, H. (2021) 'Predisposing Fakor yang

- Berhubungan dengan Penerimaan Program Vaksinasi COVID-19 pada Masyarakat', *Jurnal Kesehatan Masyarakat Indonesia*, 16(1), pp. 233–239.
- Lazarus, J.V. et al. (2020) 'A Global Survey of Potential Acceptance of a COVID-19 Vaccine', Nature Medicine, 1(1), pp. 1–9. Available at: https://doi.org/10.1038/s41591-020-1124-9.
- Liu, P.L. et al. (2022) 'Associations Between COVID-19 Information Acquisition and Vaccination Intention: The Roles of Anticipated Regret and Collective Responsibility', Health Communication, 00(00), pp. 1–12. Available at: https://doi.org/10.1080/10410236.20 22.2059801.
- Navin, M.C. et al. (2022) 'COVID 19
 Vaccine Hesitancy Among
 Healthcare Personnel Who Generally
 Accept Vaccines', Journal of
 Community Health, 10(7), pp. 1–11.
 Available at:
 https://doi.org/10.1007/s10900-02201080-w.
- Nurhidayah, I., Tamara, M. and Setyorini, D. (2021) 'Karakteristik COVID-19 Pada Anak', *Jurnal Ilmu Keperawatan Anak*, 4(1), pp. 7–18. Available at: http://dx.doi.org/10.26594/jika.4.1.20 21. 7-18 e-ISSN.
- Nurrizka, R.H., Irvan, M. and Hardianto, V.E. (2023) 'Faktor-Faktor yang Mempengaruhi Keputusan Orang Tua untuk Memberikan Vaksinasi COVID-19 pada Anak', *Jurnal Kesehatan Komunitas*, 9(1), pp. 95– 103.
- Paul, E., Steptoe, A. and Fancourt, D. (2020) 'Attitudes towards vaccines and intention to vaccinate against COVID-19: Implications for public health communications', *The Lancet Regional Health Europe*, 10(101), pp. 100–112. Available at: https://doi.org/10.1016/j.lanepe.2020.100012.
- Reiter, P.L., Pennell, M.L. and Katz, M.L. (2021) 'Acceptability of a COVID-19 vaccine among adults in the United

(Jurnal Administrasi Kesehatan Indonesia)
p-ISSN 2303-3592, e-ISSN 2540-9301
610.20473/jaki.v11i2.2023.212-220

- States: How many people would get vaccinated?', *Vaccine*, 38(42), pp. 6500–6507. Available at: https://doi.org/10.1016/j.vaccine.202 0.08.043.
- Ripp, T. and Röer, J.P. (2022) 'Systematic Review on the Association of COVID-19 Related Conspiracy Belief with Infection Preventive Behavior and Vaccination Willingness', *BMC Psychology*, 10(66), pp. 1–14. Available at: https://doi.org/10.1186/s40359-022-00771-2.
- Rothan, H.A. and Byrareddy, S.N. (2020) 'The Epidemiology and Pathogenesis of Coronavirus Disease (COVID-19) Outbreak', *Journal of Autoimmunity*, (February), p. 102433. Available at: https://doi.org/10.1016/j.jaut.2020.10 2433.
- Ruggiero, K.M. et al. (2021) 'Parents' Intentions to Vaccinate Their Children Against COVID-19', Journal of Pediatric Health Care, 35(5), pp. 509–517. Available at: https://doi.org/10.1016/j.pedhc.2021.04.005.
- Skjefte, M. et al. (2021) 'COVID-19 Vaccine Acceptance Among Pregnant Women and Mothers of Young Children: Results of a Survey in 16 Countries', European Journal of Epidemiology, 36(2), pp. 197–211. Available at: https://doi.org/10.1007/s10654-021-00728-6.

- Sutari, S., Idris, H. and Misnaniarti, M. (2022) 'Implementasi Kebijakan Vaksinasi COVID-19 di Indonesia: Narrative Review', *Riset Informasi Kesehatan*, 11(1), p. 71. Available at: https://doi.org/10.30644/rik.v11i1.63 7.
- Winter, T. et al. (2022) 'Conspiracy Beliefs and Distrust of Science Predicts Reluctance of Vaccine Uptake of Politically Right-Wing Citizens', Vaccine, 40(12), pp. 1896–1903. Available at: https://doi.org/10.1016/j.vaccine.202 2.01.039.
- Wiranti, Sriatmi, A. and Kusumastuti, W. (2020) 'Determinan Kepatuhan Masyarakat Kota Depok Terhadap Kebijakan Pembatasan Sosial Berskala Besar Dalam Pencegahan Covid-19', *Jurnal Kebijakan Kesehatan Indonesia*, 09(03), pp. 117–124.
- Wouters, O.J. et al. (2021) 'Challenges in Ensuring Global Access to COVID-19 Vaccines: Production, Affordability, Allocation, and Deployment', *The Lancet*, 397(10278), pp. 1023–1034. Available at: https://doi.org/10.1016/S0140-6736(21)00306-8.
- Zintel, S. et al. (2022) 'Gender Differences in the Intention to Get Vaccinated Against COVID-19: A Systematic Review and Meta-Analysis', Journal of Public Health (Germany), (07 January 2022), pp. 1–20. Available at: https://doi.org/10.1007/s10389-021-01677-w.