Education on Health Protocols and Improvement of the At-Taqwa Mosque Diro Bantul Landfill

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ABSTRACT

This community service stems from the problem of the Al Qur'an Education Park at the At-Taqwa Mosque Diro Bantul being inactive during the pandemic which was caused by unsafe conditions, low interest in learning by children, low parental awareness of the importance of religious education for children, and lack of active teachers. Seeing the importance of TPA as a means of developing children's spiritual intelligence and the importance of children's awareness of local wisdom, we took the initiative to reactivate activities at TPA which had been empty for a long time due to the Covid 19 pandemic. This service activity aims to increase children's interest in studying religion and culture in TPA also provides education on the 5M health protocol to TPA students, so that they can increase spiritual intelligence based on religion and local wisdom and increase awareness to comply with health protocols. By using participatory empowerment methods in partnership with the mosque takmir and youth of the At-Taqwa Diro Bantul mosque, this community service succeeded in carrying out a series of activities which included: Education on the 5 M health protocols, counseling for parents of students, training for TPA teachers, teaching at TPA with using learning modules and media through storytelling, group gymnastics and traditional games, equipping TPA facilities with the 5 M Health protocol facilities and infrastructure, and maintaining program sustainability by establishing the At-Taqwa Mosque Diro Bantul TPA management. The Service Team together with the management succeeded in increasing children's interest in learning to TPA and increased understanding of religion and local wisdom, as well as succeeded in increasing the discipline of the students in implementing the Covid 19 health protocol by implementing the Health protocol properly and correctly according to government guidelines.

KEYWORDS
Al-Quran Education Park;
Health Protocol Education;
Diro Hamlet,
Bantul.

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1. Introduction

Diro Bantul Hamlet is located in Kapanewon Sewon, Bantul Regency. This hamlet has a population of around 60 heads of families, the majority of whom are Muslim. To support religious activities in the hamlet, there are 4 mosques and one of them is the At-Taqwa Mosque which is located at RT 059. Until now, the At Taqwa mosque has had several religious development activities for the community, namely mosque youth, recital for women. and the Al Qur'an Education Park (TPA) for children which was established in 2000 [1]. TPA has an important role in children's Islamic religious education [2]. TPA has been able to play a good role in children's character education and helping elementary school students increase their understanding of religion [3]. TPA also has an important function in forming children's spiritual intelligence [4]. Moral intelligence has similarities when compared with spiritual intelligence [5]. Both are equally oriented towards forming noble morals by obeying Allah SWT, carrying out His

commands and avoiding His prohibitions [6]. Apart from that, moral intelligence also invites children to carry out worship rituals in accordance with the teachings of the religion they adhere to [7]. Even though TPA has an important role in increasing children's spiritual intelligence, the TPA at the At-Taqwa Mosque in Diro Bantul cannot play an optimal role [8]. The current condition of organizing the TPA learning process has decreased in terms of the number of participants and also the quality of learning [9]. Currently the number of TPA students is very reduced to only around 12 students, while the number of Muslim children in Diro hamlet is very large. The decline in children's interest in studying at TPA is due to monotonous learning and causes children to quickly get bored with learning. This is also exacerbated by the low level of awareness among parents about entrusting their sons and daughters to study at TPA, and the prolonged Covid pandemic has had a huge impact on the number of students studying at TPA At Saqwa Mosque, Diro Bantul. Based on the importance of TPA for increasing children's spiritual intelligence and that TPA at the At-Taqwa Mosque is still not optimal, we are helping TPA At Taqwa Mosque, Diro Bantul. We, the service team, implement a learning system at the TPA in this mosque by combining religious and cultural learning through the medium of interesting stories. Wayang was actually used by Walisongo to preach Islam in Java. The choice of wayang characters is because they have different characters who can depict several noble morals such as being wise, trustworthy, honest, long-smart, broad-minded, behave calmly, and have the courage to face all complex situations and problems, and were once used by Sunan Kalijaga. in preaching Islam [10]–[16]. Apart from that, the cute Punakawan characters are an attraction for children. It is hoped that the learning system that we apply at the TPA at the At-Taqwa Mosque will attract children's interest in studying at the TPA and increase their spiritual intelligence based on religion and local wisdom. "TPA Masjd Af-Taqwa": is a means to increase children's spiritual intelligence based on local wisdom [17]–[20].

The world health body agrees with the current world conditions by stating that Covid-19 is a "pandemic" [21]. A pandemic refers to an epidemic that has spread across several countries or continents, and affects a large number of people [22]–[24]. Corona virus disease 2019 (Covid-19) is the name given by WHO to patients with the 2019 novel corona virus infection which was first reported from the city of Wuhan, China at the end of 2019. Most patients showed symptoms of the respiratory system such as fever, coughing, sneezing, and shortness of breath [25]–[28]. The community has an important role in breaking the chain of transmission of Covid-19 so as not to create new sources of infection/clusters. The community's role in breaking the chain of transmission of Covid-19 must be done by implementing health protocols, namely using personal protective equipment in the form of a mask that covers the nose and mouth up to the chin when leaving the house, cleaning hands regularly by washing hands with soap with running water or using alcohol-based antiseptic fluid/hand sanitizer, maintaining a distance of at least 1 meter from other people to avoid being exposed to droplets from people talking, coughing or sneezing, as well as avoiding crowds, crowds and crowds, and increasing body endurance by implementing Clean Living Behavior and Healthy (PHBS) [29]–[32].

Covid-19 cases in Indonesia continue to increase, including in Bantul district. The average age of Covid-19 patients in this hamlet is 30-50 years old with the most comorbidities, namely hypertension, and currently it has also spread to school-aged children. from kindergarten to university, for this reason the service team must do their best to socialize the adaptation of new habits by providing education on the 5 M Health Protocol to the community through direct meetings, mobile counseling, mask operations, also via WhatsApp, telephone and cooperation from the surrounding environment [33]–[35]. However, its effectiveness is still not good because there are still people who have not implemented it according to the rules. The violations that people in Diro Bantul Hamlet usually commit are not wearing masks, and still holding meetings/crowding, especially when there is a wedding event that does not comply with the Covid-19 protocol. Handling Covid cases in Indonesia and community health centers, especially those which are among the first health facilities in handling Covid, should implement efficient steps to reduce the increase in the number of positive patients and the transmission of Covid-19 itself [36], [37]. Policy replication efforts were taken by the Indonesian Government as a form of government sensitivity to policies that have been formulated and implemented and are considered successful by other countries. Meanwhile, on the health side, the Indonesian Government provided personal protective equipment (PPE), masks, medicines, converted several hotels and meeting buildings into special hospitals for handling Covid-19 [38]–[40]. The service team is trying to carry out preventive measures such as providing educational outreach on Health protocols to mosques including providing education to students at the At-Taqwa Mosque Diro Bantul, with the hope that all levels of

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society can receive information well, so as to reduce the transmission of Covid-19 . There are several things that can be done, such as strengthening the immune system by getting enough rest, namely 7-8 hours, eating more vegetables and fruit, avoiding stress, smoking and alcohol and also exercising regularly, as well as implementing health protocols properly and correctly according to government guidelines.

Other things that can help reduce the transmission of Covid-19 are washing your hands regularly for at least 20 seconds, don't touch your eyes, nose and mouth, avoid crowds, isolate yourself when you feel sick and always wear a mask.

2. Method

The empowerment carried out is participatory in nature through partnerships with the Takmir Mosque and the At Taqwa Diro Bantul Mosque Youth in planning and implementing mutually agreed activity programs. In order to achieve the expected goals, activity stages are arranged from preparation, implementation, monitoring and evaluation of the program, as well as sustainability.

3. Results and Discussion

Table 1. Kepatuhan 5M dalam hal memakai masker peserta didik TPA Masjid At-Taqwa Diro Bantul

TANGGAL	JUMLAH ANAK	KEPATUHAN5M	%
21-an -22	15	10	67%
22-Jan-22	17	15	88%
24-Jan-22	20	17	85%
25-Jan-22	19	19	100%
26-Jan-22	20	19	95%
27-Jan-22	22	20	91%
30-Jan-22	18	18	100%
01-Feb-22	21	21	100%
03-Feb-22	19	19	100%
06-Feb-22	21	21	100%
08-Feb-22	27	27	100%
10-Feb-22	28	28	100%

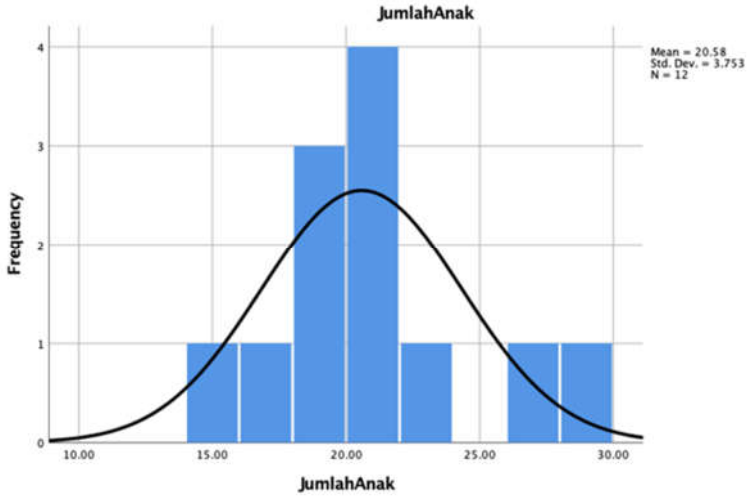
The table above contains the number of children attending and the percentage of compliance with the 5M health protocol. From the table above, it can be seen that initially only 10 out of 15 children complied with health protocols including wearing masks and washing hands properly 67%). This is probably because children do not really understand the importance of wearing masks. However, after being given direction and education regarding the use of masks and how to wash hands properly and correctly, the TPA children began to comply with wearing masks and washing their hands. This increase occurred at the next meeting where 15 out of 17 children were wearing masks (88%) and further increased at the 6th meeting (91%). At the last meeting, the children had complied with the 5M health protocol. Apart from increasing compliance with the 5M health protocol, there was also an increase in the number of children attending. On the first day, the number of participants who attended was 15 children. This is because TPA activities have just started to become active again so the children are not yet aware of the activities. At the next meeting, the number of participants present was 17 children, and increased until at the last meeting, namely 28 children.

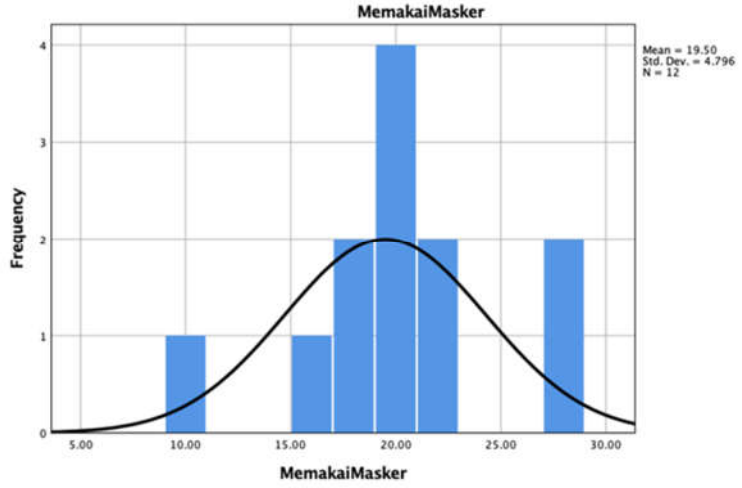
Table 2. Kepatuhan 5M dalam hal mencucui tangan dengan baik dan benar peserta didik TPA Masjid At-Taqwa Diro Bantul

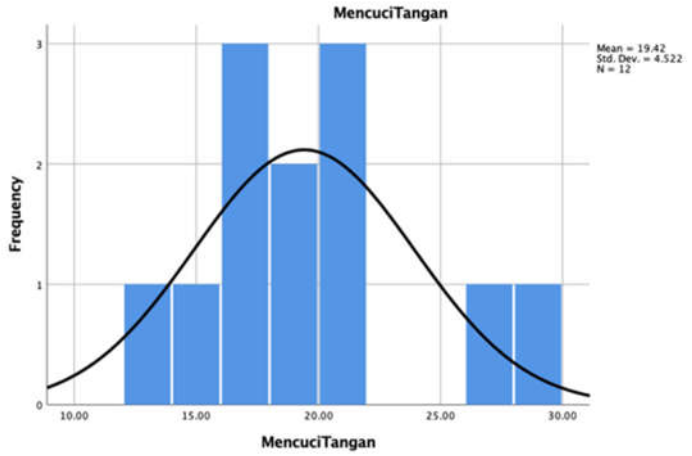
TANGGAL	JUMLAH ANAK	MENCUCI TANGAN	%
21-an -22	15	13	67%
22-Jan-22	17	15	88%

24-Jan-22	20	17	85%
25-Jan-22	19	18	95%
26-Jan-22	20	17	85%
27-Jan-22	22	21	95%
30-Jan-22	18	16	89%
01-Feb-22	21	21	100%
03-Feb-22	19	19	100%
06-Feb-22	21	21	100%
08-Feb-22	27	27	100%
10-Feb-22	28	28	100%

The table above is a table of the percentage of compliance with health protocols in terms of washing hands. At the first meeting, only 13 out of 15 children washed their hands before TPA activities (67%). This is likely due to a lack of awareness of the importance of washing hands before activities, especially during this pandemic. After being given direction and education, the number of children washing their hands increased (88%) and at the last meeting all children had complied with the hand washing health protocol (100%).







From the graph above, it can be seen that the distribution of data on the number of children, wearing masks and washing hands is normal. Overall, all planned activities can run well and achieve the goals. First, Implementation of Socialization and Counseling. Socialization and counseling are carried out in the form of recitations. The counseling was carried out by bringing in a Ustadz who was good at preaching through fairy tales which was very interesting for the students of the At Taqwq Diro Bantul Mosque, as a competent speaker with the theme "The Importance of Early Al-Quran Education". The socialization activity was attended by TPA students at the AT Taqwa mosque, parents of the students and the community in Diro Bantul hamlet, and resulted in an agreement to encourage their sons and daughters to go to study at TPA. Second, Learning Activities. Learning activities began to be implemented at the end of January 2022. At the first meeting, observations were made of students' abilities regarding religious and cultural knowledge as well as knowledge about the importance of implementing the 5 M Health protocol, which will later be used as parameters for providing material and measuring the success of the program. Meetings are held 3 times a week using the curriculum and learning modules that have been prepared previously. The At Taqwa Diro Bantul Mosque TPA has a syllabus and six learning modules. These modules are Learning to read and write the letters of the Koran, Basics of Religion, Dhikr and Prayer, Taharah and Prayer, Tahsin and Tajwid Science, Sirah and Stories, Morals and Culture module, Guide to implementing Health protocols in the era of the Covid 19 pandemic. Practice teaching uses the media of telling stories about wayang by presenting figures with noble character, to teach morals and religious practices such as ablution, prayer and implementing the 5 M Health protocol. Apart from that, children are also introduced to traditional games and drawing for a variety of activities while encouraging development of children's motoric aspects. Raden Muhammad Ridhwan, (Muhammad Willian Susilo, Tedy Eka Bimasakti, Rizki Chandra, Ajihuddin Alantaqi, Sugito 233). Third, providing equipment and comfortable places to study as well as complete facilities and infrastructure to implement health protocols. Currently at the At Taqwa Duro Bantul Mosque TPA, we have helped provide equipment and a place to study, blackboards and stationery, besides that there are also bookcases filled with religious reading books and also reading books about culture, as well as facilities and infrastructure to carry out protocols. health, such as soap, hand sanitizer, masks etc. We also provide teaching aids so that children become more familiar with local wisdom, as well as traditional games and joint exercise events to maintain fitness and stamina. This aims to improve the psychomotor skills of students at the At Taqwa Mosque Diro Bantul. Fourth, social fun, carried out by holding joint exercise events to refresh, maintain body stamina, increase immunity and increase socialization, this activity also provides educational outreach on implementing the 5 M Health protocol to students, parents of students and the community in Diro Bantul hamlet using the storytelling method. which are interesting. This activity also aims to introduce Javanese culture and local wisdom to children. This activity is very popular with children because of its recreational nature and direct interaction with cultural objects and actors.

This can be seen from the increase in the number of TPA students from the start to the end of the program as shown in the following graph: "TPA At Taqwa Mosque Diro Bantul": Means of Increasing Children's Spiritual Intelligence Based on Local Wisdom (Graph below).

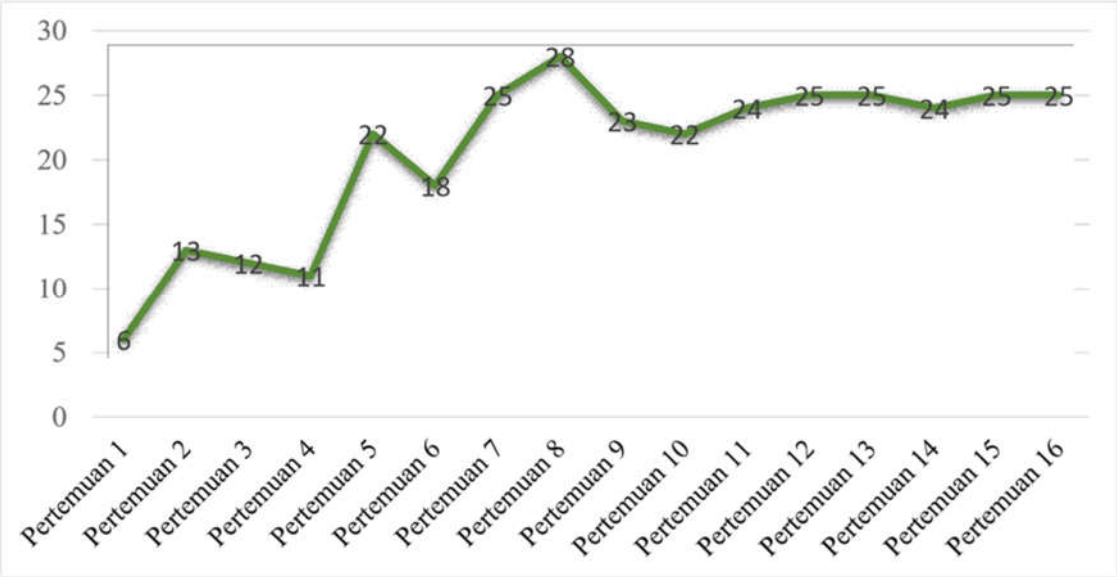


Fig. 1. Grafik Kehadiran peserta didik TPA Masjid At Taqwa Diro Bantul

Increasing the Number of TPA Students Based on program evaluation discussions, children expressed their satisfaction with the teaching methods and practices that have been implemented. Parents are increasingly confident in entrusting their children to study religion and culture at the Punakawan Mosque At Taqwa TPA. As sons and daughters become more diligent in studying at the Diro Bantul Mosque TPA, this has implications for increasing spiritual intelligence and understanding of local Javanese wisdom. This can be seen from the increasing ability to read the Qur'an, the increasing number of children who practice ablution, prayer and carry out health protocols properly and correctly, the increasing memorization of letters in the Qur'an, the increasing ability to write Arabic letters, which right, and changes in morals for the better towards friends, teachers and parents. Children are also becoming increasingly fond of playing traditional games, which are full of the teachings of noble character and children are becoming happier and more diligent in playing sports.

(a) (b)

Fig. 2. Kegiatan Pelaksanaan pengabdian masyarakat

Figure 2 (a) Photo of the activity. The implementation of this community service has been able to increase children's interest in learning at the At Taqwa Mosque Diro Bantul TPA. (b) Photo of Educational Activity 5 M health protocol, practice washing hands before carrying out TPA activities guided by members of the service team.

4. Conclusion

Our Service Team's activities at the At-Taqwa Mosque Diro Bantul TPA have presented innovation in organizing TPA coaching, namely by combining local cultural elements and Islamic elements by using teaching media through interesting fairy tales, the practice of implementing the 5 M health protocol, gymnastics and games traditional. This innovation is considered successful in increasing the obedience of TPA students, and increasing children's interest in studying at the AtTaqwa Mosque Diro Bantul TPA and increasing their spiritual intelligence. In order to maintain the continuity of the TPA program at this mosque, several efforts have been made, namely the formation of TPA administrators at the At-Taqwa Mosque in Diro Bantul along with teaching staff who have the ability to teach TPA, the preparation of learning modules as a reference for teachers, good TPA facilities and infrastructure, as well as regular post-program monitoring and assistance. Reflecting on the success of TPA A- Taqwa Diro Bantul in increasing compliance in implementing the 5 M Health protocol as well as children's interest in learning and spiritual intelligence, this program is worthy of being a model for other TPAs. (Raden Muhammad Ridhwan, Muhammad Willian Susilo, Tedy Eka Bimasakti, Rizki Chandra, Ajihuddin Alantaqi, Sugito 235).

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Author Contribution

The empowerment carried out is participatory in nature through partnerships with Takmir Masjid and At Taqwa Mosque Youth in Diro Bantul in planning and implementing mutually agreed activity programs.

Funding

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Conflict of Interest

The authors declare no conflict of interest.

References

[1] Z. Ozgen and S. I. El Shishtawy Hassan, “Meaning of a textbook: Religious education, National Islam, and the politics of reform in the United Arab Emirates,” Nations Natl., vol. 27, no. 4, pp. 1181–1197, Oct. 2021.

[2] B. Sweetman, “Reimagining Adult Religious Education and Faith Development in a Detraditionalised Ireland,” Religions, vol. 12, no. 11, p. 963, Nov. 2021.

[3] A. Statham and R. S. Webster, "Engaging with Dewey's Valuation in Religious Education to Enhance Children's Spirituality for Democratic Life," Religions, vol. 12, no. 8, p. 629, Aug. 2021.

[4] T. A. Lipina and Y. V. Shapoval, "Religious education in Kazakhstan: The challenges of the COVID-19 pandemic," Vestn. Saint Petersbg. Univ. Philos. Confl. Stud., vol. 37, no. 2, pp. 352–368, 2021.

[5] R. Boschki, "The Contribution of Religious Education to the Prevention of Antisemitism: An International Empirical Study," in Confronting Antisemitism from Perspectives of Philosophy and Social Sciences, De Gruyter, 2021, pp. 75–90.

[6] D. Kennedy and S. Cullen, "'So, Is It True?' Time to Embrace the Hermeneutical Turn in Catholic Religious Education in the Republic of Ireland," Religions, vol. 12, no. 12, p. 1059, Nov. 2021.

[7] E. C. F. de Souza and M. M. de Castro, "Duas décadas de ensino religioso confessional no estado do Rio de Janeiro: Qual a 'crença' em disputa na política para a rede pública estadual?," Educ. Policy Anal. Arch., vol. 29, no. August-December, p. 173, Dec. 2021.

[8] P. T. Utami, "Raising religious inherency: the role of interreligious competence in achieving religious education equality in multireligious public schools in Indonesia," Humanit. Soc. Sci. Commun., vol. 9, no. 1, p. 271, Aug. 2022.

[9] N. Saada, "Balancing the Communitarian, Civic, and Liberal Aims of Religious Education: Islamic Reflections," Religions, vol. 13, no. 12, p. 1198, Dec. 2022.

[10] L. P. Barnes, "The theology of education and religious education in schools," Theology, vol. 125, no. 6, pp. 429–436, Nov. 2022.

[11] M. Fricke, "Rezeption von Exegese im Religionsunterricht," Kerygma und Dogma, vol. 68, no. 4, pp. 344–361, Dec. 2022.

[12] A. Begum, J. Liu, H. Qayum, and A. Mamdouh, "Environmental and Moral Education for Effective Environmentalism: An Ideological and Philosophical Approach," Int. J. Environ. Res. Public Health, vol. 19, no. 23, p. 15549, Nov. 2022.

[13] H. Zulkifli et al., "Designing the content of religious education learning in creating sustainability among children with learning disabilities: A fuzzy delphi analysis," Front. Psychol., vol. 13, Nov. 2022.

[14] H. Zbudilová, "Comenius's Educatio in the Perspective of Leisure Time Pedagogy," Caritas Verit., vol. 11, no. 2, pp. 109–120, Mar. 2022.

[15] J. Kolb, "Muslim diversity, religious formation and Islamic religious education. Everyday practical insights into Muslim parents' concepts of religious education in Austria," Br. J. Relig. Educ., vol. 45, no. 2, pp. 172–185, Apr. 2023.

[16] D. Kraner, "The Internet, the Problem of Socialising Young People, and the Role of Religious Education," Religions, vol. 14, no. 4, p. 523, Apr. 2023.

[17] S. Lorenzen and U. Witten, "Religionsunterricht angesichts des Paradigmenwechsels," Evang. Theol., vol. 82, no. 6, pp. 450–461, Dec. 2022.

[18] F. Widyawati, "Being a Muslim In a Catholic Family and Vice Versa: Religious Education in Mixed-Faith Families in Flores, Eastern Indonesia," Ulumuna, vol. 26, no. 2, pp. 337–362, Dec. 2022.

[19] A. Rybicki, P. Mąkosa, and R. Mazur, "Religious education and the concept of universal fraternity in the light of the encyclical Fratelli tutti of Pope Francis," Teach. Theol. Relig., vol. 25, no. 4, pp. 85–98, Dec. 2022.

[20] B. Roebben and K. von Stosch, "Religious Education and Comparative Theology: Creating Common Ground for Intercultural Encounters," Religions, vol. 13, no. 11, p. 1014, Oct. 2022.

[21] H. Pan et al., "Treatment outcomes and prognostic factors for non- malignancy associated secondary hemophagocytic lymphohistiocytosis in children," BMC Pediatr., vol. 20, no. 1, p. 288, Dec. 2020.

[22] C. Liu et al., "Clinical features and multidisciplinary treatment outcome of COVID-19 pneumonia: A report of three cases," J. Formos. Med. Assoc., vol. 119, no. 11, pp. 1702–1709, Nov. 2020.

[23] R. Sirijatuphat et al., "Epidemiology, clinical characteristics, and treatment outcomes of patients with COVID-19 at Thailand's university-based referral hospital," BMC Infect. Dis., vol. 21, no. 1, p. 382, Dec. 2021.

[24] V. Vastis et al., "Impact of Protocol Adjustments Due to the COVID-19 Pandemic on Infertility Treatment Outcomes," J. Obstet. Gynaecol. Canada, vol. 44, no. 9, pp. 1006–1010, Sep. 2022.

[25] O. Voisin et al., "Acute QT Interval Modifications During Hydroxychloroquine-Azithromycin Treatment in the Context of COVID-19 Infection," Mayo Clin. Proc., vol. 95, no. 8, pp. 1696–1700, Aug. 2020.

[26] D. L. Ramatillah et al., "Evaluation of Treatment Outcome for Pneumonia among Pre-Vaccinated COVID-19 Patients with/without Comorbidity in a Public Hospital in Bengkulu, Indonesia," Vaccines, vol. 9, no. 12, p. 1411, Nov. 2021.

[27] H. V. Masina, I.-F. Lin, and L.-Y. Chien, "The Impact of the COVID-19 Pandemic on Tuberculosis Case Notification and Treatment Outcomes in Eswatini," Int. J. Public Health, vol. 67, Oct. 2022.

[28] K. Krpina, M. Mavrinac, M. Samarzija, E. Tolic, D. Darapi, and L. Baticic, "Significance of the Lung Immune Prognostic Index for Assessment of the Reliability of the Clinical Treatment Outcome for Advanced Non-Small-Cell Lung Cancer in Patients with COVID-19 Infection," J. Clin. Med., vol. 11, no. 22, p. 6695, Nov. 2022.

[29] M. Reeson et al., "Child sexual abuse survivors: Differential complex multimodal treatment outcomes for pre-COVID and COVID era cohorts," Child Abuse Negl., vol. 134, p. 105926, Dec. 2022.

[30] C. M. Laffont et al., "Buprenorphine exposure levels to optimize treatment outcomes in opioid use disorder," Front. Pharmacol., vol. 13, Nov. 2022.

[31] N. Sahay, D. K. Rai, and P. Lohani, "Clinical Characteristics and Treatment Outcomes of 293 COVID-19 Patients Admitted to the Intensive Care Unit of a Tertiary Care Hospital of Eastern India," Indian J. Crit. Care Med., vol. 25, no. 12, pp. 1395–1401, Dec. 2021.

[32] N. Gharebaghi et al., "Evaluation of epidemiology, clinical features, prognosis, diagnosis and treatment outcomes of patients with COVID-19 in West Azerbaijan Province," Int. J. Clin. Pract., vol. 75, no. 6, Jun. 2021.

[33] S. Chtita et al., "In silico investigation of phytoconstituents from Cameroonian medicinal plants towards COVID-19 treatment," Struct. Chem., vol. 33, no. 5, pp. 1799–1813, Oct. 2022.

[34] D. Khadka et al., "The use of medicinal plants to prevent COVID-19 in Nepal," J. Ethnobiol. Ethnomed., vol. 17, no. 1, p. 26, Dec. 2021.

[35] C. A. Odebunmi et al., "Ethnobotanical Survey of Medicinal Plants Used in the Treatment of COVID-19 and Related Respiratory Infections in Ogbomosho South and North Local Government Areas, Oyo State, Nigeria," Plants, vol. 11, no. 19, p. 2667, Oct. 2022.

[36] J. Julsrigival, P. Sirisa-ard, S. Julsrigival, and N. Akarchariya, "Antiviral medicinal plants found in Lanna traditional medicine," Chinese Herb. Med., vol. 13, no. 4, pp. 494–501, Oct. 2021.

[37] O. O. Oyedara et al., "Computational screening of phytochemicals from three medicinal plants as inhibitors of transmembrane protease serine 2 implicated in SARS-CoV-2 infection," Phytomedicine Plus, vol. 1, no. 4, p. 100135, Nov. 2021.

[38] A. N. Pelletier, R. P. Sekaly, and J. A. Tomalka, "Translating known drivers of COVID-19 disease severity to design better SARS-CoV-2 vaccines," Curr. Opin. Virol., vol. 52, pp. 89–101, Feb. 2022.

[39] D. Goldblatt et al., "Towards a population-based threshold of protection for COVID-19 vaccines," Vaccine, vol. 40, no. 2, pp. 306–315, Jan. 2022.

[40] A. S. Alshrari, S. A. Hudu, M. Imran, S. M. B. Asdaq, A. M. Ali, and S. I. Rabbani, "Innovations and development of Covid-19 vaccines: A patent review," J. Infect. Public Health, vol. 15, no. 1, pp. 123–131, Jan. 2022.