



BIBLIOMETRIC ANALYSIS OF THE IMPACT OF EARLY MARRIAGE ON ADOLESCENTS

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ABSTRACT

Marriages that are carried out without being prepared mentally, physically or financially can cause problems for the continuation of the marriage. The impacts that arise also vary, starting from the health of mothers who are pregnant at a young age, the condition of children born to young mothers, the psychology of the couple, and what is even worse is the impact of divorce. In this research study, researchers need information about innovations and new trends for the topic. Objective: The purpose of this research is to explore the number of publication trends and citation trends with the highest number of publications, as well as which fields are approved for publication, network visualization, overlay visualization, and density visualization through bibliometric analysis. Method: This research uses bibliometric analysis. Records were identified through database searches <https://app.dimensions.ai/>, continued through the PRISMA flowchart. Publications from 2019 – 2023, focus on psychology, health science, health services and systems, clinical science. The type of publication is an article, the data is analyzed using VOSviewer, then a review is carried out by the co-occurrence and co-author. Results: A search for publications on the topic of the psychosocial impact of early marriage resulted in 200,648 articles. Next, screening was carried out using predetermined criteria and the results obtained were 13,330 articles. The highest publication was in 2021, while the lowest was in 2023. These trends and topics are early pregnancy, early sexual debut, marital conflict, the impact of early marriage, dissatisfaction with sexual relations, psychological distress. The majority of researchers are in Africa, Bangladesh, Ethiopia, Nepal, South Asia and Uganda. Conclusions: The topic of psychosocial problems in early marriage must be developed further in various countries, especially Africa and Bangladesh.

Keywords: bibliometric; early marriage; psychosocial

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INTRODUCTION

Wedding is done at the time somebody has Ready from facet physical , mental, financial (Afdhal & Arsi, 2022) . Consequences of having a child as a teenager on maternal and child health , younger maternal age at child birth, severity of autism symptoms, and diagnosis of ASD. Divorce occurs most often in children's early years (Bahri et al., 2023; Fotso et al., 2022) . Wedding early can impact to psychological child like disturbance depression , conflict marriage , problems finance (Al-Aithan et al., 2021; Chiang & Bai, 2022; Fakhari et al., 2020; Puspitasari & Gayatri, 2022) . Another impact of wedding age early will result its height number divorce (Dagnew et al., 2020; Sbarra & Whisman, 2021; Yarger et al., 2022), disruption finance or financial No stable (Hossain et al., 2021; Kanter & Proulx, 2020; Rahiem, 2021; Rawat et al., 2021; Taplak & Yilmaz, 2022) , experiment kill self (Aggarwal et al., 2022; Fakhari et al., 2022; Kennedy et al., 2021), and can influence stability emotion in

taking decision Marry early (Alimoradi et al., 2022), violence in House there are also lots of stairs happened at the wedding age early (Hayes & van Baak, 2022; Ubaidi et al., 2021). Effect negative f from wedding age youth carried out by women will displays as a social victim (Akash & Chalmiers, 2021; Arisukwu et al., 2021; Fahme et al., 2022), poverty (Akter et al., 2021; Baumont et al., 2020; Hosseini & Asadisarvestani, 2022; Logie et al., 2021; Taplak & Yilmaz, 2022; Thi et al., 2022)and culture Which No helpless , wedding debut age early linked with a number of problem health reproduction (Asare et al., 2023; Fahme et al., 2022; Melesse et al., 2021; Phiri et al., 2023; Stamatakis et al., 2022; Wasswa et al., 2021), education and development (Belachew et al., 2022; Erulkar, 2022) .The aim of this research is to explore the number of publication trends and citations with the highest number of publications, as well as in which fields network visualization, overlay visualization, and density visualization have been approved for publication on the topic of the impact of early marriage, through bibliometric analysis.

METHOD

The method used in exploring this publication is a bibliometric metric study. Bibliometric analysis is a field of study in library and information science because it has practical applications in measuring the scope and quality of books, journals and articles. In a bibliometric analysis, researchers show the process of exploring measurable data through statistical analysis of published research and how the knowledge in those publications is used, and has been applied in various research fields to assess patterns of various institutions, journals, authors, countries, keywords related to type of publication. Data sources used in data searches via app.dimensions.ai. This literature search used steps according to the Preferred Reporting Items for Systematic Review and Meta Analysis (PRISMA) flow diagram. The approach used in bibliometric analysis is the citation analysis method, which can be used to see one (1) article cited by another article, and the co-citation analysis approach to find 2 or more articles cited in one (1) article. Data sources used in data searches via <https://app.dimensions.ai/>. Data collection was carried out on July 15 2023. This literature search used steps according to the Preferred Reporting Items for Systematic Review and Meta The publication limit for this article is between 2019 – 2023 which focuses on the fields of Psychology, Health Sciences, Clinical and Health Psychology, Public Health. This type of publication is an article selected according to the inclusion criteria.

Data selection at this stage uses the PRISMA stages, namely identification, screening and included Figure 1. The first stage is identification, the results obtained were 200,648 by searching using the keywords impacts and early marriage. The second stage was screening, the range of data selected was between 2019 and 2023, resulting in 136,196 excluded results. The third stage was included, the final results of articles that met the inclusion criteria were 13,330 articles. The data selection process can be seen in Figure 1.

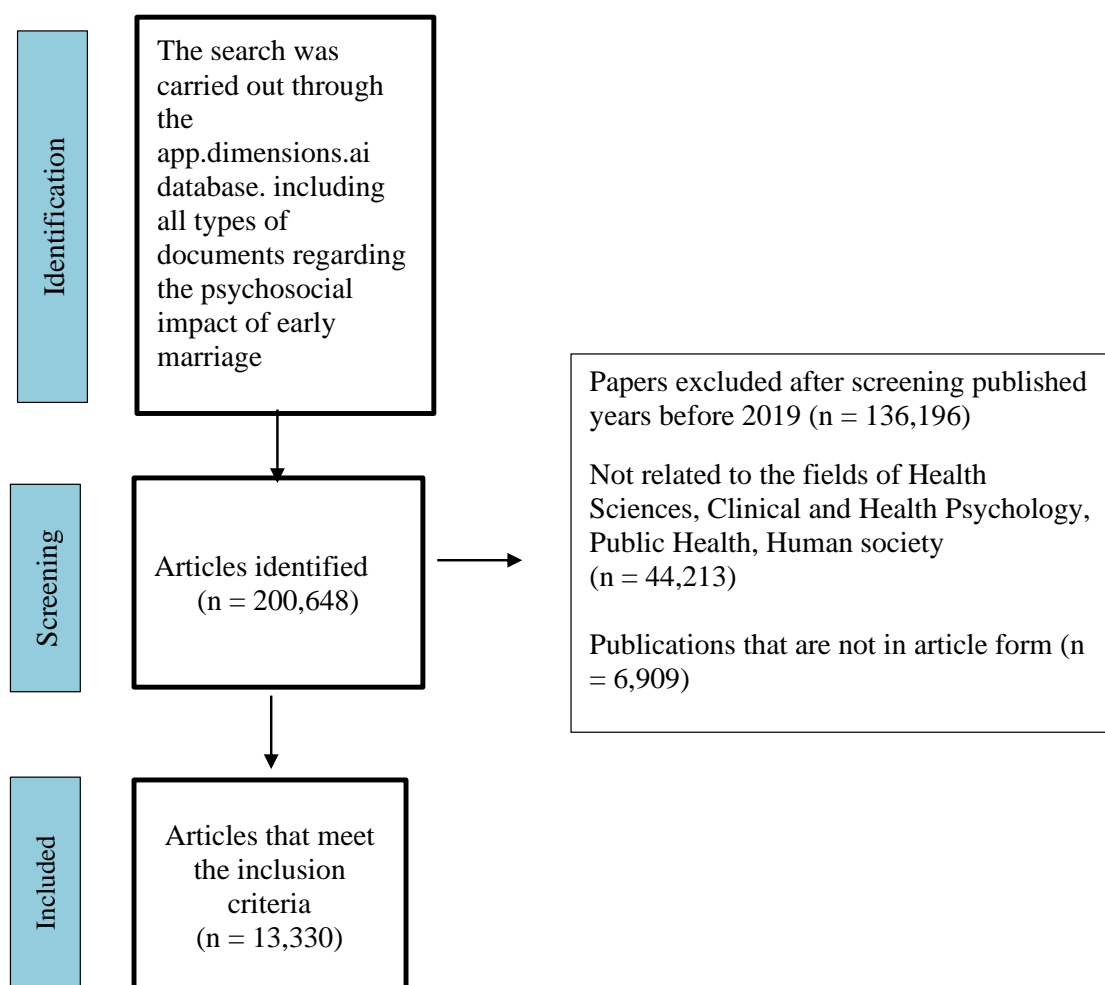


Figure 1. PRISMA Flowcharts

The data was then analyzed using VOSviewer. VOSviewer is a program developed to create and display bibliometric maps, providing a function as a process for extracting patterns of various types of information and knowledge that are useful for building and describing networks or relationships in citations or publications. The co-occurrence procedure goes through several steps, namely selecting the data source, reading data from the reference manager file, selecting "Fields from which terms will be extracted", and clicking "Title and abstract fields", checking "Ignore structured abstract labels and ignore copyright statements", then select the "Full counting" calculation method. The minimum threshold for the appearance of a selected term is 10, click "Next", then click "Number of terms to be selected : 205".

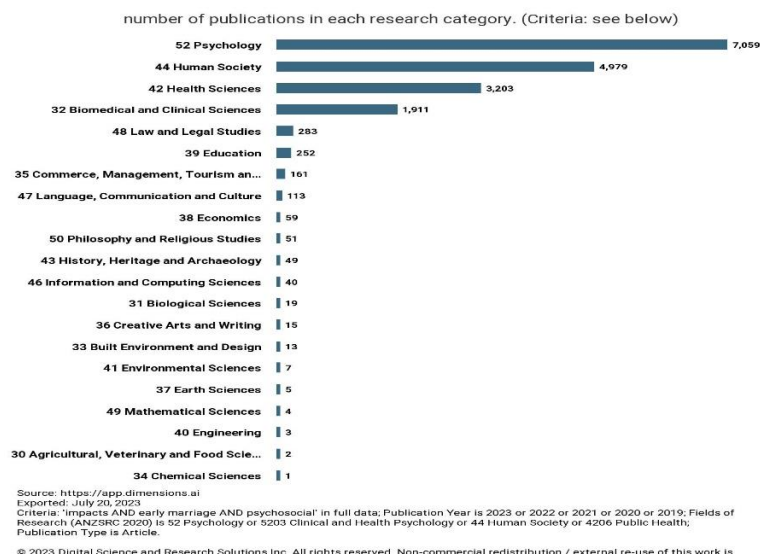
The procedure for co-author analysis goes through several steps, namely selecting the data type "Create a map based on bibliographic data". Next, select the data source "Read data from reference manager files". Select supported file types (RIS) is a standard tag format developed by Research Information Systems, Incorporated (the format name refers to the company) to enable citation programs to exchange data. Choice of analysis type and calculation method co-authorship analysis type and full calculation method. Select "Choose type of analysis and counting method", click "Co-authorship" as the type of analysis and click "Full counting" as the counting method. Select "Maximum number of authors" per document as 2. Select authors for each of the 8 authors. Total co-author links with other authors were counted. The author

with the largest total links will be selected.

RESULTS

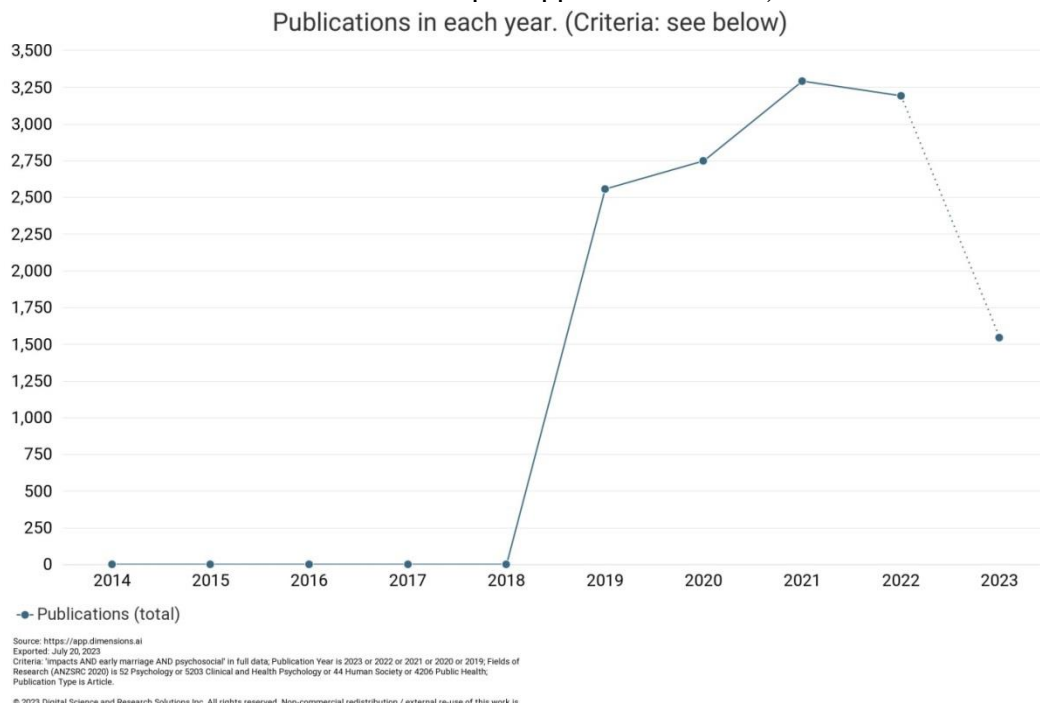
Publication Search Problems of The Impact of Early Marriage

Figure 2. Number of publications on the impact of early marriage based on research category (source: <https://app.dimensions.ai/>)



Number of Publications Impact of Early Marriage

Figure 3. Number of publications on the impact of early marriage in 2019 – 2023 (source : <https://app.dimensions.ai/>)



DISCUSSION

The results of publications related to the impact of early marriage are 200,648 articles. Next, screening was carried out through inclusion, the results obtained were 64,452 articles. Publications were selected from 2019 – 2023. The highest number of publications related to the impact of early marriage was in 2021 with 3291 published articles. Meanwhile, in 2022 there will be a decrease in publications, this is due to the Covid-19 pandemic situation. In 2023, not many publications could be found on the topic of the impact of early marriage and the lowest was 1,544. This is also because the search was carried out on July 20 2023. The number of publications related to the impact of early marriage based on categories is mostly dominated by the fields of Psychology, Human Society, Health Science, Clinical and Health Psychology. The results of the number of publications can be seen in Figure 2. The highest number of citations. The publication trend can be seen in Figure 3 during the last five years, from 2019 to 2023. In 2023, not many publications could be found on the topic of the impact of early marriage and the lowest was 1,544.

In Figure 4, it can be seen that there are 203 items divided into 8 clusters, with 7351 links, with a total strength of 53561. Two items connected by a line indicate that these two items appear together in the title and abstract of each study. The overlay visualization in Figure 5 provides an analysis based on keywords on the impact of early marriage from 2019 to 2023 to observe trends in research titles related to this topic. Based on the map overlay visualization with yellow nodes, it implies that these keywords are currently the most popular research topics. In the overlay visualization, there is marital conflict, psychiatric morbidity, signs of depression, pregnancy at a young age. Figure 6 shows the density of research visualizations that raise the topic of the psychosocial impact of early marriage. From Figure 5, the theme of impact can be seen psychosocial Marriage is often discussed in relation to girls, teenage marriages, anxiety, divorce. (Elnakib et al., 2021; Fahme et al., 2021; Logie et al., 2021; Torrisi, 2022; Wuermli et al., 2021). The yellow node indicates that this theme has been widely used in publications on the psychosocial impact of early marriage in previous journals. From the density visualization, it can be seen that the topics that have low category visualization are marital conflict, proximity, suicide, marital quality, psychology distress. Figure 7 shows a visualization of the co-author network

Bokaie et.al., child marriage is one of the most important challenges in the current era which threatens women's health and violates human rights. (Bokaie et al., 2021) Akash. Ruba al., early marriage is still a major concern among reproductive and sexual rights activists throughout the world. Mainstream researchers often focus on the negative impact of early marriage on young women and give the impression of them as helpless victims of social and cultural traditions. Musa et.al., the outbreak of COVID-19 in Nigeria, vigorous efforts were made to overcome the problem of early marriage. This is almost threatened by the difficult economic situation in many households due to the lockdown and the willingness to marry off their daughters to reduce the burden. (Musa et al., 2021) Feyissa et.al., child marriage and teenage pregnancy have negative consequences for social health and development. (Feyissa et al., 2023)

CONCLUSION

The peak of publications regarding the psychosocial impact of early marriage will be in 2021, and the lowest will be in 2023. From 2014 to 2018 there was very little research on this topic. Meanwhile in 2022 there will be a decline due to the impact of the Covid-19 pandemic. This research is not only carried out in the fields of psychology, health sciences, health services and systems, clinical sciences, public health, legal studies, education, information and

computing sciences, biological sciences, in addition to trending topics of stigma, family support, mental health literacy, cost effectiveness, heterogeneity, and facilitators.

REFERENCES

- Afdhal, F., & Arsi, R. (2022). Edukasi Pencegahan Menikah Usia Remaja Di Desa Margo Bakti Kecamatan Mesuji. *Jurnal Salingka Abdimas*, 2(1), 97–101. <https://doi.org/10.31869/jsam.v2i1.3398>
- Aggarwal, S., Francis, K. L., Dashti, S. G., & Patton, G. (2022). Child marriage and the mental health of adolescent girls: A longitudinal cohort study from Uttar Pradesh and Bihar, India. *The Lancet Regional Health - Southeast Asia*, 8, 100102. <https://doi.org/10.1016/j.lansea.2022.100102>
- Akash, R. Al, & Chalmiers, M. A. (2021). Early marriage among Syrian refugees in Jordan: exploring contested meanings through ethnography. *Sexual and Reproductive Health Matters*, 29(1), 287–302. <https://doi.org/10.1080/26410397.2021.2004637>
- Akter, S., Williams, C., Talukder, A., Islam, M. N., Escallon, J. V., Sultana, T., Kapil, N., & Sarker, M. (2021). Harmful practices prevail despite legal knowledge: a mixed-method study on the paradox of child marriage in Bangladesh. *Sexual and Reproductive Health Matters*, 29(2), 1885790. <https://doi.org/10.1080/26410397.2021.1885790>
- Al-Aithan, S. M., Al-Ghafli, L. A., Al-Shehri, S. Z., & Al-Umran, A. K. (2021). Anxiety among multiparous women in the Al-Qatif sector of KSA: A mixed-method study. *Journal of Taibah University Medical Sciences*, 16(6), 826–834. <https://doi.org/10.1016/j.jtumed.2021.05.011>
- Alimoradi, Z., Zarabadipour, S., Arrato, N. A., Griffiths, M. D., Andersen, B. L., & Bahrami, N. (2022). The relationship between cognitive schemas activated in sexual context and early maladaptive schemas among married women of childbearing age. *BMC Psychology*, 10(1), 131. <https://doi.org/10.1186/s40359-022-00829-1>
- Arisukwu, O., Igbolekwu, C., Adebisi, T., & Akindele, F. (2021). Perception of domestic violence among rural women in Kuje. *Heliyon*, 7(2), e06303. <https://doi.org/10.1016/j.heliyon.2021.e06303>
- Asare, B. Y.-A., Zegeye, B., Ahinkorah, B. O., Ameyaw, E. K., Seidu, A.-A., & Yaya, S. (2023). Early Sexual Debut and Its Associated Factors Among Young Women Aged 15–24 in Mali: A Multilevel Analysis. *Archives of Sexual Behavior*, 1–12. <https://doi.org/10.1007/s10508-023-02591-w>
- Bahri, N., Sterrett, K., & Lord, C. (2023). Marital Status Over 28 Years of Parents of Individuals With Autism and Other Developmental Disabilities. *Journal of Family Psychology*. <https://doi.org/10.1037/fam0001093>
- Baumont, M., Wandasari, W., Agastya, N. L. P. M., Findley, S., & Kusumaningrum, S. (2020). Understanding childhood adversity in West Sulawesi, Indonesia. *Child Abuse & Neglect*, 107, 104533. <https://doi.org/10.1016/j.chiabu.2020.104533>
- Belachew, T. B., Negash, W. D., Kefale, G. T., Tafere, T. Z., & Asmamaw, D. B. (2022). Determinants of early marriage among married women in nine high fertility sub-Saharan African countries: a multilevel analysis of recent demographic and health surveys. *BMC Public Health*, 22(1), 2355. <https://doi.org/10.1186/s12889-022-14840-z>

- Bokaie, M., Khalesi, Z. B., & Ashoobi, M. T. (2021). Challenges and strategies to end child marriage. *International Journal of Adolescent Medicine and Health*, 33(3), 75–81. <https://doi.org/10.1515/ijamh-2021-0017>
- Chiang, S., & Bai, S. (2022). Reciprocal influences among marital relationship, Parent–adolescent relationship, and youth depressive symptoms. *Journal of Marriage and Family*, 84(4), 962–981. <https://doi.org/10.1111/jomf.12836>
- Dagneu, G. W., Asresie, M. B., Fekadu, G. A., & Gelaw, Y. M. (2020). Factors associated with divorce from first union among women in Ethiopia: Further analysis of the 2016 Ethiopia demographic and health survey data. *PLOS ONE*, 15(12), e0244014. <https://doi.org/10.1371/journal.pone.0244014>
- Elnakib, S., Hussein, S. A., Hafez, S., Elsallab, M., Hunersen, K., Metzler, J., & Robinson, W. C. (2021). Drivers and consequences of child marriage in a context of protracted displacement: a qualitative study among Syrian refugees in Egypt. *BMC Public Health*, 21(1), 674. <https://doi.org/10.1186/s12889-021-10718-8>
- Erulkar, A. (2022). Changes in the prevalence of child marriage in Ethiopia, 2005–2016. *Reproductive Health*, 19(Suppl 1), 195. <https://doi.org/10.1186/s12978-021-01234-4>
- Fahme, S. A., Khater, B., Dagher, M., DeJong, J., & Abdulrahim, S. (2022). Developing a sexual and reproductive health educational intervention for adolescent Syrian refugee girls: Challenges and lessons learned. *Frontiers in Reproductive Health*, 4, 780157. <https://doi.org/10.3389/frph.2022.780157>
- Fahme, S. A., Sieverding, M., & Abdulrahim, S. (2021). Sexual and reproductive health of adolescent Syrian refugee girls in Lebanon: a qualitative study of healthcare provider and educator perspectives. *Reproductive Health*, 18(1), 113. <https://doi.org/10.1186/s12978-021-01170-3>
- Fakhari, A., Allahverdipour, H., Esmaeili, E. D., Chattu, V. K., Salehiniya, H., & Azizi, H. (2022). Early marriage, stressful life events and risk of suicide and suicide attempt: a case–control study in Iran. *BMC Psychiatry*, 22(1), 71. <https://doi.org/10.1186/s12888-022-03700-0>
- Fakhari, A., Farahbakhsh, M., Azizi, H., Davtalab Esmaeili, E., Mirzapour, M., Asl Rahimi, V., Hashemi, L., & Gaffarifam, S. (2020). Early Marriage and Negative Life Events Affect on Depression in Young Adults and Adolescents. *Archives of Iranian Medicine*, 23(2), 90–98. <https://app.dimensions.ai/details/publication/pub.1124903562>
- Feyissa, G. T., Tolu, L. B., Soboka, M., & Ezech, A. (2023). Effectiveness of interventions to reduce child marriage and teen pregnancy in sub-Saharan Africa: A systematic review of quantitative evidence. *Frontiers in Reproductive Health*, 5, 1105390. <https://doi.org/10.3389/frph.2023.1105390>
- Fotso, J. C., Cleland, J. G., Muki, B., Olaitan, E. A., & Mayack, J. N. (2022). Teenage pregnancy and timing of first marriage in Cameroon—What has changed over the last three decades, and what are the implications? *PLOS ONE*, 17(11), e0271153. <https://doi.org/10.1371/journal.pone.0271153>

- Hayes, B. E., & van Baak, C. (2022). Intimate Partner Violence and Age at Marriage in Mali: The Moderating Influence of Polygynous Unions. *Violence Against Women*, 29(6–7), 1319–1342. <https://doi.org/10.1177/10778012221108418>
- Hossain, J., Soma, M. A., Bari, S., Bin Emran, T., & Islam, R. (2021). COVID-19 and child marriage in Bangladesh: emergency call to action. *BMJ Paediatrics Open*, 5(1), e001328. <https://doi.org/10.1136/bmjpo-2021-001328>
- Hosseini, M., & Asadisarvestani, K. (2022). Reasons for early marriage of women in Zahedan, Iran: a qualitative study. *BMC Women's Health*, 22(1), 542. <https://doi.org/10.1186/s12905-022-02127-9>
- Kanter, J. B., & Proulx, C. M. (2020). Understanding the Early Years of Socioeconomically Disadvantaged Couples' Marriages. *Family Process*, 60(3), 806–822. <https://doi.org/10.1111/famp.12602>
- Kennedy, A., Genç, M., & Owen, P. D. (2021). The Association Between Same-Sex Marriage Legalization and Youth Deaths by Suicide: A Multimethod Counterfactual Analysis. *Journal of Adolescent Health*, 68(6), 1176–1182. <https://doi.org/10.1016/j.jadohealth.2021.01.033>
- Logie, C. H., Okumu, M., Latif, M., Musoke, D. K., Odong Lukone, S., Mwima, S., & Kyambadde, P. (2021). Exploring resource scarcity and contextual influences on wellbeing among young refugees in Bidi Bidi refugee settlement, Uganda: findings from a qualitative study. *Conflict and Health*, 15(1), 3. <https://doi.org/10.1186/s13031-020-00336-3>
- Melesse, D. Y., Cane, R. M., Mangombe, A., Ijadunola, M. Y., Manu, A., Bamgboye, E., Mohiddin, A., Kananura, R. M., Akwara, E., du Plessis, E., Wado, Y. D., Mutua, M. K., Mekonnen, W., Faye, C. M., Neal, S., & Boerma, T. (2021). Inequalities in early marriage, childbearing and sexual debut among adolescents in sub-Saharan Africa. *Reproductive Health*, 18(Suppl 1), 117. <https://doi.org/10.1186/s12978-021-01125-8>
- Musa, S. S., Odey, G. O., Musa, M. K., Alhaj, S. M., Sunday, B. A., Muhammad, S. M., & Priso, D. E. L.-. (2021). Early marriage and teenage pregnancy: The unspoken consequences of COVID-19 pandemic in Nigeria. *Public Health in Practice*, 2, 100152. <https://doi.org/10.1016/j.puhip.2021.100152>
- Phiri, M., Musonda, E., Shasha, L., Kanyamuna, V., & Lemba, M. (2023). Individual and Community-level factors associated with early marriage in Zambia: a mixed effect analysis. *BMC Women's Health*, 23(1), 21. <https://doi.org/10.1186/s12905-023-02168-8>
- Puspitasari, M. D., & Gayatri, M. (2022). Covid-19 and Marital Dissolution in West Java, Indonesia. *Family Journal (Alexandria, Va.)*, 10664807221124246. <https://doi.org/10.1177/10664807221124246>
- Rahiem, M. D. H. (2021). COVID-19 and the surge of child marriages: A phenomenon in Nusa Tenggara Barat, Indonesia. *Child Abuse & Neglect*, 118, 105168. <https://doi.org/10.1016/j.chiabu.2021.105168>
- Rawat, S., Bhate, K., & Yadav, A. (2021). “Silent sufferers: A study of domestic violence among pregnant women attending the ANC OPD at a Primary Health Care Centre.”

- Journal of Family Medicine and Primary Care, 10(1), 232–236.
https://doi.org/10.4103/jfmipc.jfmipc_1157_20
- Sbarra, D. A., & Whisman, M. A. (2021). Divorce, health, and socioeconomic status: An agenda for psychological science. *Current Opinion in Psychology*, 43, 75–78.
<https://doi.org/10.1016/j.copsyc.2021.06.007>
- Stamatakis, C., Annor, F., Massetti, G., Hegle, J., Low, A., Ndagije, F., & Tlhomola, M. (2022). Patterns of gendered risk factors and associations with intimate partner violence and low educational attainment among adolescent girls and young women in Lesotho: A latent class analysis. *Child Abuse & Neglect*, 134, 105927.
<https://doi.org/10.1016/j.chiabu.2022.105927>
- Taplak, A. Ş., & Yılmaz, F. A. (2022). Adolescent marriage and motherhood in Turkey: A qualitative study exploring determinants, impacts and opinions about preventive strategies. *Journal of Advanced Nursing*, 78(8), 2537–2547.
<https://doi.org/10.1111/jan.15211>
- Thi, H. D., Huong, T. B. T., Tuyet, M. N. T., & Van, H. M. (2022). Socio-cultural Norms and Gender Equality of Ethnic Minorities in Vietnam. *Journal of Racial and Ethnic Health Disparities*, 1–9. <https://doi.org/10.1007/s40615-022-01393-5>
- Torrise, O. (2022). Wedding Amidst War? Armed Conflict and Female Teen Marriage in Azerbaijan. *European Journal of Population*, 38(5), 1243–1275.
<https://doi.org/10.1007/s10680-022-09645-0>
- Ubaidi, B. Al, Tawfeeq, F., Ayed, H., Hasan, S., & Alahmed, F. (2021). Intimate partner violence in the Kingdom of Bahrain: Prevalence, associated factors and WAST screening in primary health centres. *Journal of Family Medicine and Primary Care*, 10(8), 2893–2899. https://doi.org/10.4103/jfmipc.jfmipc_2401_20
- Wasswa, R., Kabagenyi, A., Kananura, R. M., Jehopio, J., & Rutaremwa, G. (2021). Determinants of change in the inequality and associated predictors of teenage pregnancy in Uganda for the period 2006–2016: analysis of the Uganda Demographic and Health Surveys. *BMJ Open*, 11(11), e053264. <https://doi.org/10.1136/bmjopen-2021-053264>
- Wuermli, A. J., Yoshikawa, H., & Hastings, P. D. (2021). A bioecocultural approach to supporting adolescent mothers and their young children in conflict-affected contexts. *Development and Psychopathology*, 33(2), 714–726.
<https://doi.org/10.1017/s095457942000156x>
- Yarger, J., Van Liefde, D., Quirarte, A., Elmes, S., Dojiri, S. S., Jackson, A. V., & Harper, C. C. (2022). 90. “I Didn’t Know Before that You Can Get Birth Control this Way”: Developing a Tool to Teach Young People About Telehealth for Contraception. *Journal of Adolescent Health*, 70(4), s47–s48. <https://doi.org/10.1016/j.jadohealth.2022.01.185>

