

Early Marriage and Reproductive Health: A Scientific Study on Risks and Consequences

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Received : Desember 15, 2022	ABSTRACT: Early marriage remains a critical global issue
Accepted : January 25, 2023	with significant implications for reproductive health, education, and economic stability. This study examines the
Published : January 31, 2023	adverse effects of early marriage, emphasizing its impact on maternal health, educational attainment, and socio-economic opportunities. Using a systematic literature review, data were collected from academic databases such as PubMed, Scopus, and Google Scholar to analyze trends and factors contributing to early marriage. The results indicate that women who marry
Citation: Nirwan. M.S., (2023). Early Marriage and Reproductive Health: A Scientific Study on Risks and Consequences. Jurnal Riset Kualitatif dan Promosi Kesehatan, 2(1), 54-66. <u>https://doi.org/10.61194/jrkpk.v2i1.663</u>	before the age of 18 face higher risks of pregnancy complications, maternal mortality, and limited access to reproductive healthcare. Additionally, early marriage significantly reduces educational opportunities, leading to economic dependence and perpetuating poverty cycles. Cultural and religious factors, along with socio-economic pressures, play crucial roles in sustaining this practice. Policy recommendations include improving girls' access to education, implementing comprehensive sexuality education, enforcing legal frameworks against child marriage, and engaging communities in intervention programs. Future research should explore digital strategies to increase awareness and prevention efforts. Addressing early marriage requires a multidisciplinary approach integrating health, education, and socio-economic policies to promote gender equality and reproductive health rights.
	Keywords: Early Marriage, Reproductive Health, Maternal Health Risks, Gender Inequality, Education Access, Socio- Economic Impact, Policy Intervention.
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INTRODUCTION

The phenomenon of early marriage, particularly prevalent among adolescent girls, poses significant implications for health, socio-economic stability, and overall development across various cultural contexts. The United Nations has emphasized that child marriage remains a global epidemic, with alarming rates evident in regions such as South Asia and sub-Saharan Africa, where cultural, socioeconomic, and policy-related factors converge to facilitate these practices. While the global average of child marriage has declined, significant disparities persist, and the prevalence remains notably high in countries such as Afghanistan and Bangladesh, where rates can exceed 30% to 40% of females married before the age of 18 (Dadras et al., 2023; Scott et al., 2020). Particularly

for South Asia, these figures present a daunting landscape, given that 30% of girls are married as children, significantly impacting their future opportunities and health (Dadras et al., 2023; Scott et al., 2020).

The underlying factors contributing to the prevalence of early marriage are particularly complex and varied across different cultural and social contexts. The driving forces can include economic necessity, traditional customs, educational barriers, and gender inequality. For many families in low-income settings, marrying off daughters at a young age is seen as a financial strategy, relieving economic burdens, and securing financial assets through dowry arrangements (Akter et al., 2021; Rumble et al., 2018). This economic rationale is compounded by cultural beliefs that associate a girl's marital status with her family's honor, where remaining unmarried can be stigmatized (Lowe et al., 2021). Such sociocultural narratives are prevalent in various regions, highlighting the intersectionality of gender, culture, and economics in perpetuating child marriage.

Cultural norms also dictate the acceptability of early marriage as a socially sanctioned pathway for young women. In communities with entrenched patriarchal systems, the emphasis on control over female sexuality can lead to premature marriage as a mechanism of compliance with tradition (Kohno et al., 2020). In Southeast Asia, for example, social expectations reinforce early marriage as an integral part of a woman's identity, often overshadowing the importance of education and personal development (Kamal & Ulaş, 2020). This cultural adherence often limits alternative pathways for girls, confining their autonomy and future aspirations. In contrast, urbanization and increased access to education appear to play pivotal roles in delaying marriage among young women. Data indicate that girls with higher educational attainment experience lower rates of child marriage, as education equips them with knowledge and skills to challenge traditional norms and advocate for their rights (Alem et al., 2020). Moreover, comprehensive education programs that promote awareness of reproductive health and gender equality significantly mitigate the incidences of early marriage by fostering resilience and empowerment among young women (Litvin, 2021).

Legislative measures also reflect varying regional responses to the child marriage crisis. In countries such as Ethiopia, despite robust laws against child marriage, the practice persists due to deeprooted cultural attitudes and economic pressures on families (Tessema, 2020). Similarly, in Bangladesh, while legislation exists that prohibits marriage under the age of 18, enforcement remains a substantial challenge, often undermined by community norms that continue to view early marriage favorably, based on cultural heritage (Akter et al., 2021). This dissonance between legal frameworks and societal attitudes necessitates a multifaceted approach to policy implementation that includes community engagement and education to shift perceptions around early marriage.

The impacts of early marriage extend beyond immediate socio-economic concerns, leading to adverse health outcomes for both mothers and children. Young mothers face increased risks during pregnancy and childbirth, leading to heightened maternal mortality rates and complications such as obstetric fistulas (Yaya et al., 2019). Furthermore, children born to mothers who married early are more likely to experience malnutrition and health challenges, creating a cycle of poverty and disadvantage that perpetuates across generations (Kamal & Ulaş, 2020; Yaya et al., 2019). This biological and socio-economic feedback loop underscores the urgency of addressing early marriage from an integrated health and rights framework.

Additionally, the COVID-19 pandemic has exacerbated the vulnerabilities related to early marriage. Reports have indicated an increase in child marriages as families face economic hardships, exacerbated by school closures that remove educational opportunities for girls and inhibit their capacity to assert their rights. Furthermore, the chaos created by the pandemic has led to heightened rates of gender-based violence, further pushing girls into early marital arrangements as a means of perceived safety or economic survival (Hossain et al., 2021).

Ultimately, addressing the complex interplay of factors that lead to early marriage requires coordinated efforts between governments, NGOs, and communities. Strategies must encompass educational interventions that prioritize girls' rights, economic support to alleviate financial pressures on families, and efforts to alter cultural attitudes towards marriage norms (Lewington et al., 2022; Prakash et al., 2019). Moreover, collaborative community dialogue is essential in reshaping societal perceptions and establishing new narratives around gender, marriage, and girls' empowerment (Zulu et al., 2022). By investing in the health and education of young women, societies can dismantle harmful traditions and pave the way for a healthier, more equitable future.

To summarize, the prevailing issues of early marriage not only reflect deeply rooted socioeconomic and cultural norms but also pose far-reaching implications for health and social development. Despite legal advancements and rising awareness, a concerted global effort is needed to combat the inhibitors of child marriage effectively.

METHOD

This study employs a systematic review approach to examine the relationship between early marriage and women's reproductive health. A comprehensive literature search was conducted across multiple academic databases, including PubMed, Scopus, Google Scholar, and Web of Science, targeting studies published between 2010 and 2024. The search strategy incorporated a combination of predefined keywords and Boolean operators to ensure accuracy and completeness. Keywords included "child marriage AND reproductive health," "early marriage AND maternal health risks," "adolescent health AND early marriage," "child marriage AND health outcomes," and "preventing child marriage AND reproductive rights." These terms were selected to capture studies that explore both the direct and indirect effects of early marriage on reproductive health outcomes.

Selection criteria were established to include peer-reviewed studies, systematic reviews, and metaanalyses that empirically or theoretically analyze the impact of early marriage on reproductive health. Studies that were not published in English, lacked direct empirical evidence, or were not peer-reviewed were excluded. The initial screening process involved reviewing titles and abstracts to filter out irrelevant studies, followed by a full-text assessment to determine methodological rigor and relevance to the research objective.

To enhance reliability, a multi-stage screening process was employed. Four independent reviewers assessed the selected studies, ensuring alignment with inclusion criteria. Key themes were synthesized to identify recurring patterns in how early marriage affects reproductive health, including maternal health risks, access to healthcare, contraceptive use, and psychological wellbeing. The findings provide insight into the broader socio-economic and cultural determinants that shape the consequences of early marriage, highlighting areas where policy interventions and preventive strategies can be most effective.

RESULT AND DISCUSSION

The Impact of Early Marriage on Reproductive Health

Early marriage has profound implications for women's reproductive health, as demonstrated by numerous studies. Women who marry at a young age are significantly more likely to experience pregnancy-related complications compared to those who marry after the age of 18. One of the most frequently reported consequences of early marriage is the high incidence of unintended pregnancies and pregnancy-related complications (Dadras et al., 2022). Research indicates that girls who marry before the age of 18 are at higher risk of experiencing conditions such as ectopic pregnancy, postpartum hemorrhage, and elevated maternal mortality rates (Elnakib et al., 2021). For example, a study found that adolescent brides have significantly higher maternal mortality rates due to pregnancy complications compared to their older counterparts (Nobles et al., 2018).

In a study conducted in India, adolescent girls who married before the age of 15 faced a greater risk of labor obstructions and obstetric fistulas compared to those who married later. These complications are largely attributed to the physical and emotional immaturity of young girls, who are often unprepared for pregnancy and childbirth (Dadras et al., 2022). Similar patterns are observed in sub-Saharan Africa; in Ethiopia, for instance, young brides are at greater risk of birth injuries and preterm deliveries (Mbachu et al., 2017).

Beyond physical health risks, early marriage is also associated with severe mental health consequences. Studies show a strong link between early marriage and higher rates of depression and anxiety among adolescent brides (Hailemariam et al., 2021; Sharma et al., 2021). Feelings of entrapment in an undesired marriage and lack of access to reproductive healthcare contribute to poor mental health outcomes (Sharma et al., 2021). Another study conducted in South Asia found that a significant proportion of women who married early reported experiences of domestic violence, further exacerbating their psychological distress (Laru et al., 2021).

The disparities in reproductive health outcomes between women who marry early and those who marry later are not limited to pregnancy-related complications. Children born to mothers who married early are more likely to suffer from malnutrition, low birth weight, and higher neonatal mortality risks (Elnakib et al., 2021; Genowska et al., 2022). Research indicates that children of mothers who married before 18 have poorer health outcomes compared to those born to older mothers, highlighting the intergenerational impact of early marriage on health (Asmamaw et al., 2023).

Reproductive Health Risks at a Young Age

Women who marry before the age of 18 also face heightened risks of reproductive health issues related to sexual and reproductive autonomy. Limited knowledge of reproductive health makes them more vulnerable to sexually transmitted infections (STIs) and other reproductive health complications (Masinter et al., 2017; Moshi & Tilisho, 2023). Many adolescent brides lack the autonomy to make informed decisions regarding contraceptive use and access to reproductive healthcare, which negatively impacts their overall reproductive well-being (Elnakib et al., 2021; Moshi & Tilisho, 2023).

A longitudinal study in Kenya found that women who married early were more likely to experience long-term reproductive health problems, including infertility and chronic gynecological conditions, affecting their quality of life in adulthood (Ibitoye et al., 2023). Similarly, survey data from Ethiopia show that sociocultural factors contribute to the rising incidence of early marriage, leading to severe reproductive health consequences for young women and their children (Asmamaw et al., 2023; Mbachu et al., 2017).

Early marriage also has significant implications for family and community health. The growing awareness of its harmful effects highlights the need for continued research and interventions focusing on education and female empowerment to mitigate reproductive health risks. Ensuring access to comprehensive sexuality education, reproductive health services, and mental health support is essential for breaking the cycle of early marriage and its associated health risks (Dadras et al., 2022; Kapoor & Sharma, 2020).

Social and Economic Consequences of Early Marriage

Educational and Economic Impacts on Women

Longitudinal studies show that early marriage has severe consequences on women's educational and economic opportunities. Girls who marry at a young age are more likely to drop out of formal education, limiting their ability to secure higher-paying jobs and financial independence (Kassa et al., 2019). A study published in *BMC Public Health* found that early marriage significantly reduces the likelihood of completing secondary education, with only a small percentage continuing to tertiary education (Rumble et al., 2018).

The educational setbacks caused by early marriage contribute to gender disparities in employment and perpetuate cycles of poverty. Women who marry young often enter unequal marital relationships, where they have limited decision-making power over their education and employment (Sychareun et al., 2018). In Ethiopia, research found that girls who married before 18 were 2.5 times more likely to drop out of school compared to those who married later (Ibitoye et al., 2017). The lack of education leads to long-term unemployment, restricting economic opportunities for women and increasing their financial dependency on spouses (Rumble et al., 2018).

The Relationship Between Early Marriage and Poverty

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There is a strong correlation between early marriage and poverty levels in various populations. Studies indicate that child marriage is more common among families from lower socio-economic backgrounds, where it is often seen as a strategy to alleviate financial burdens (Kwagala & Wandera, 2021). An analysis of sub-Saharan African countries revealed that early marriage is prevalent in high-poverty areas, with nearly 40% of girls forced into marriage before 18 (Karp et al., 2021).

Programs that provide financial incentives and skills training for women have been identified as effective in combating child marriage and reducing poverty (Čvorović, 2022). Studies show that early marriage negatively impacts long-term economic participation, lowering lifetime earnings and limiting access to wealth accumulation opportunities (Rumble et al., 2018). This reinforces socio-economic polarization, where children of child brides inherit similar disadvantages, perpetuating intergenerational poverty (Kamal & Ulaş, 2020).

In Nepal, an increase in family poverty was directly associated with a rise in child marriage cases. Women who marry early tend to have more children, further straining family resources and increasing economic hardship (Neal et al., 2016). The evidence underscores that early marriage is not only a public health concern but also a pressing socio-economic issue linked to systemic inequality and economic deprivation (Okigbo & Speizer, 2015).

The Effectiveness of Policies and Interventions

The Role of Intervention Programs in Reducing Child Marriage

Several multidimensional intervention programs have been implemented to curb early marriage rates, with varying degrees of success. Educational campaigns and financial incentives have been particularly effective. In Bangladesh, a conditional cash transfer program designed to keep girls in school reduced child marriage rates by 23% in high-prevalence areas. Such programs demonstrate a direct link between access to education and delayed marriage (Rumble et al., 2018).

In Ghana, community-based intervention programs involving local leaders and parental education have been successful in shifting social norms against early marriage. Studies found that 39% of parents who participated in such programs changed their views on child marriage (Lewington et al., 2022). However, the sustainability of these programs depends on continued government funding and community engagement.

Factors Influencing Policy Success and Failure

The effectiveness of policies aimed at reducing child marriage is influenced by political commitment, community involvement, and policy design. Policies that lack strong governmental backing often fail due to insufficient funding and enforcement mechanisms. In sub-Saharan Africa, programs that incorporated community engagement and religious leaders in the discussion of marriage norms showed higher effectiveness in reducing early marriage (Zulu et al., 2022).

However, poorly designed policies that fail to consider local socio-cultural contexts have been met with resistance. In Nepal, certain legislative measures failed to reduce child marriage rates due to lack of community buy-in, highlighting the need for culturally sensitive policy implementation (Čvorović, 2022).

Understanding these policy dynamics is crucial for refining intervention strategies and ensuring that policies aimed at reducing child marriage remain effective in protecting girls' rights and wellbeing.

The Systemic Factors Influencing Early Marriage and Reproductive Health

The findings of this study provide a deeper understanding of the complex relationship between early marriage and reproductive health. These results align with previous literature but also highlight specific nuances and contextual factors that must be considered when addressing this issue effectively. One of the most significant findings is the direct link between early marriage and restricted access to education and reproductive health services. This corroborates prior research by Omer et al. (2021), which emphasized that low socio-economic status contributes to inadequate maternal healthcare access. In many regions, early marriage prevents girls from continuing their education, resulting in a lack of reproductive health knowledge(Omer et al., 2021). This finding is consistent with earlier studies demonstrating a strong association between low female education levels and high rates of child marriage in many developing nations (Fianti et al., 2022).

Furthermore, this study reinforces the critical health consequences of early marriage, particularly complications during pregnancy and childbirth. Research conducted by Hailemariam et al. (2021) highlights that social stigma and cultural norms significantly impact access to sexual and reproductive health services (Hailemariam et al., 2021). This underscores that interventions focused solely on healthcare aspects without addressing underlying social and cultural contexts are unlikely to achieve meaningful success. Social and cultural factors remain pivotal in perpetuating early marriage. Fianti et al. (2022) found that many young women are coerced into marriage due to societal pressures that prioritize marriage as a key milestone (Fianti et al., 2022). Therefore, interventions aimed at strengthening the role of women in society and involving local leaders are strategic approaches to altering negative perceptions regarding female education (Chan et al., 2016).

Another critical aspect is the economic dimension of early marriage. This study confirms previous research by Rousham and Khandakar (2016), which demonstrated that poverty-stricken families often resort to early marriage as a financial coping mechanism(Rousham & Khandakar, 2016). The use of economic incentives to support education and community engagement programs has been identified as an effective strategy to combat this phenomenon.

Religious beliefs also play a complex role in either reinforcing or challenging early marriage practices. While in some contexts, religious norms encourage early marriage, other interpretations advocate for the education and empowerment of women (Silverman et al., 2020). This duality reflects broader findings in the literature, which show that religious traditions are deeply integrated into local cultures, shaping the social framework that governs marriage norms.

Policy Implementation and Societal Change

This study reveals that although policies and interventions have been designed and implemented to reduce early marriage, their success largely depends on local contexts and how these policies are structured. Effective interventions must be evidence-based and include key stakeholders, particularly women directly affected by early marriage, to ensure relevance and efficacy in reshaping social norms (Daalen et al., 2021; Ibitoye et al., 2017). A cross-disciplinary approach is essential in tackling early marriage and its impact on reproductive health. Beyond medical perspectives, policymakers must address the social and cultural dynamics that sustain these practices. Context-sensitive research and interventions will help stakeholders develop more effective strategies to combat early marriage and promote better reproductive health outcomes among young women.

Findings also suggest that poverty and economic instability play a significant role in perpetuating early marriage. Interventions that include economic empowerment initiatives, such as microfinance programs for women and financial incentives for girls' education, have demonstrated success in reducing early marriage rates (Kassa et al., 2019). Addressing poverty-related drivers of early marriage requires a combination of direct financial support, improved labor market opportunities for women, and policy frameworks that enable greater female participation in decision-making processes.

Community-Based Interventions and Health Education

Community engagement remains an essential element in tackling early marriage. Education programs that incorporate local leaders, parents, and religious figures have proven effective in changing societal attitudes toward marriage and gender roles ((Hailemariam et al., 2021; Omer et al., 2021). Experiences from interventions in different countries indicate that community-led efforts yield long-term shifts in marriage practices when aligned with broader social and legal frameworks.

Moreover, comprehensive sexuality education (CSE) has been widely recognized as a key component in delaying early marriage. Research has shown that increased reproductive health literacy among young girls significantly reduces early marriage rates by equipping them with knowledge about contraception, bodily autonomy, and reproductive rights (Yakubu & Salisu, 2018). Ensuring that CSE is integrated into national curricula and community outreach programs can provide a long-term solution to the issue of child marriage.

Limitations

This study has several limitations that should be acknowledged. First, while the findings align with previous research, the availability of region-specific data remains a challenge. Many of the studies reviewed focus on broad national trends, making it difficult to capture micro-level variations in early marriage practices. Second, this review relies on secondary data sources, which may be subject to publication bias. Studies highlighting successful interventions are often prioritized in academic

publishing, while unsuccessful or neutral findings may be underreported. Third, cultural heterogeneity among different regions means that solutions effective in one area may not necessarily be applicable in another. Future studies should incorporate longitudinal data collection to better understand the long-term effects of early marriage on reproductive health outcomes.

Implications

The findings of this study carry several important implications for policy and future research. First, addressing early marriage requires a holistic approach that integrates education, economic support, and legal enforcement. Policies focusing solely on legal deterrents without addressing the underlying socio-economic and cultural drivers of child marriage are unlikely to be effective.

Second, there is a need for further research into the intersectionality of early marriage with other structural factors such as urbanization, access to technology, and political stability. Investigating how digital platforms and social media can be leveraged to spread awareness about reproductive health and child marriage prevention would be a promising avenue for future studies.

Finally, future research should prioritize participatory methodologies, including qualitative studies that center the voices and experiences of young women affected by early marriage. Understanding the lived experiences of those directly impacted by this practice is essential in designing interventions that are both contextually relevant and effective. By adopting a multi-sectoral and community-driven approach, policymakers and researchers can contribute to the global effort to eradicate child marriage and promote reproductive health equity.

CONCLUSION

This study has underscored the profound implications of early marriage on women's reproductive health, education, and socio-economic opportunities. The findings reveal that early marriage is strongly associated with adverse maternal health outcomes, including higher risks of pregnancy complications, maternal mortality, and limited access to reproductive healthcare. Additionally, early marriage significantly reduces educational attainment and economic opportunities for women, perpetuating cycles of poverty and gender inequality. These results highlight the urgency of addressing early marriage through a multifaceted approach that includes education, economic empowerment, and policy reforms.

Urgent intervention is necessary to reduce the prevalence of early marriage and its associated negative outcomes. Strengthening education access for girls, implementing comprehensive sexuality education, and promoting economic incentives for families to keep their daughters in school are critical steps. Additionally, enforcing child marriage laws and engaging communities in social transformation initiatives are key strategies for sustainable change.

Future research should focus on long-term health and economic impacts of early marriage, incorporating qualitative studies that center on the experiences of affected women. Further exploration of digital platforms as tools for awareness and prevention can provide new insights into combating this issue. By adopting an integrated, multi-sectoral approach, policymakers and

researchers can contribute to the eradication of early marriage and the promotion of reproductive health equity.

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