

## Association of Polygyny with Spousal Violence in India

Harihar Sahoo, R. Nagarajan and Chaitali Mandal



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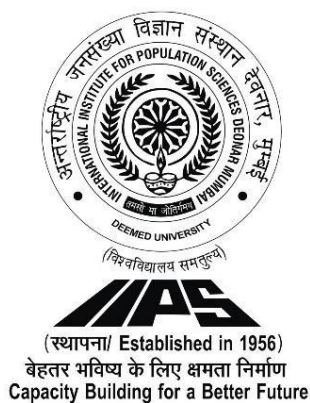
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**September, 2022**



**INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES**

Govandi Station Road, Deonar, Mumbai - 400 088, India

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## **Abstract**

Polygyny is a form of polygamy where a man is married to more than one wife simultaneously. It occurs for various reasons and results in a variety of physical, sexual and psychological consequences for women. It has an impact on gender relations such as subordination of women, unequal treatment of spouses, neglect of children, rivalling step-children, inheritance issues among children/spouses, etc. Considering the lack of research in India with respect to the prevalence of polygyny and its impact on gender relations, this study aims to explore the association between polygyny and spousal violence in India. The study uses data from the fourth round of National Family Health Survey (NFHS-4) of India, which provides information on both polygyny and spousal violence. To understand the effect of polygyny on spousal violence, multivariate logistic regressions were used to obtain unadjusted and adjusted odds ratios by controlling a number of explanatory factors. The results reveal that women in polygynous unions experience more spousal violence compared with those in monogamous unions. The results indicate that, since the law does not permit men to be married to more than one wife simultaneously, this form of marriage should be discouraged by strictly enforcing it to protect women from marital violence in polygynous unions. The analysis contributes to the body of literature on the association between polygynous marriage and spousal violence in Indian context.

**Keywords:** Polygyny, spousal violence, women's autonomy, India

## **Introduction**

Gender-based violence is globally recognised as a violation of basic human rights, particularly against women. It is defined by the United Nations as "any act of gender-based violence that results in, or is likely to result in, physical, sexual, or mental harm or suffering to women, including threats of such acts, coercion or arbitrary deprivation of liberty, whether occurring in public or in private life" (United Nations, 1993). Increasing body of literature has highlighted its extent, pattern, causes and consequences. Spousal or intimate partner violence is the most widespread common form of violence against women globally (Kishor & Johnson, 2004; Garcia-Moreno et al., 2005; Hindin, et al., 2008; WHO, 2021a). Analysis of prevalence data from 2000-2018 across 161 countries and areas by WHO found that worldwide, nearly 1 in 3 women were subjected to physical and/or sexual violence by an intimate partner or non-partner sexual violence or both (WHO, 2021a). Gender-based violence exists in many forms and spousal/intimate partner violence has been regarded as its most significant

component. Spousal violence often serves to reinforce the prevailing gendered power relations in the families, communities and regions. In patriarchal societies, violence against women is used as a tool to reinforce control on women (ICRW, 2004; Jakobsen, 2014; Jewkes et al., 2015; Weitzman, 2014).

Spousal violence has been linked to several health consequences, physical injury, unwanted or forced sex, pregnancy loss, contraction of sexually transmitted diseases, depression, and psychological distress for women (Durevall & Lindskog, 2015; Mason & Lodrick, 2013; WHO, 2013; WHO, 2021b). Studies conducted to identify the determinants of spousal violence have found the age at first marriage, spousal age difference, education, wealth index, women's autonomy, place of residence, and race/ethnicity, controlling behaviour of men and alcohol use by men as some of its important predictors (Kimuna et al., 2013; Goli, et al., 2020; Parekh et al., 2022). Recent literature also indicates that the type of marital union (monogamy and polygamy) has an effect on spousal violence (Behrman, 2019; Jensen & Agadjanian, 2016, 2020; Ahinkorah, 2021). The present study attempts to understand the association between polygyny and spousal violence in the Indian context.

According to NFHS-4, 26.4% of the ever married women have experienced physical, sexual or emotional violence in India (IIPS, 2017). In India, 52% of the women and 42% of the men agree that that a husband is justified in hitting or beating his wife indicating the gendered norm that husbands have the right to control their wives through violence (IIPS, 2017). These gendered attitudes reflect that the broader gender inequalities in India are deeply rooted in the marital system that forces a woman to be younger than her husband, dowry to be paid to the husband's family, reside in husband's residence after marriage, and lack of inheritance of parental property. Polygynous form of marriage, along with traditional patriarchal norm of male dominance in decision making and female subordination, may lead to increased risk of spousal violence.

## **Review of literature**

Polygyny is a form of polygamy involving the practice of one man being married to multiple wives at the same time. Polygyny is commonly practiced in many cultures around the world – it existed in more than 83% of 849 cultures worldwide (Coult & Habenstein, 1965; Murdock, 1981; Patrick, 1988) and in 35% of cultures it is sororal, i.e., men marry sisters (Coult & Habenstein, 1965). The practice of polygyny exists in different ways depending on religious, customary, cultural, regional and socio-economic contexts (Altman & Ginat, 1996; Bretschneider, 1995). The consequences associated with the practice may also differ according to these contexts. There are several causes and consequences of polygynous marriage. Polygyny may occur for various reasons such as, excess mortality of men than women leading to a deficit of men and surplus of women, desire to have children to continue the family line, failure to produce

children/son by first wife, the cultural practices of lengthy periods of sexual abstinence after child birth driving the men to seek another partner, etc. (Dorjahn, 1959; Ezeh, 1997; White & Burton, 1988; Gage-Brandon, 1992; Sichona, 1993; Kiros & Kertzer, 2000; Rice, 2000; Josephson 2002; Lardoux & van de Walle, 2003). Polygyny has several consequences such as gender inequality, subordination of women, unequal treatment of spouses, neglect of children, rivalling step-children, inheritance issues among children/spouses, etc. (Cherian, 1989; Al-Krenawi, 2001, Al-Krenawi et al., 2002a, 2002b). Polygyny also affects spousal age differences, coital frequency, child survival, marital relationships, widowhood and mental health (Lesthaeghe et al., 1989; Brainard 1991; Timaeus and Reynar, 1998; Lardoux & van de Walle, 2003; Ashby & Gupta, 2013; Shepard, 2013; Arthi & Fenske, 2018). Contemporary social scientists explore the effect of polygamous marriage systems on gender relations. Considering the lack of research in India with respect to the prevalence of polygyny and its impact on gender relations, this study aims to explore the association between polygyny and spousal violence in India. The availability of data both on polygyny and spousal violence in the fourth round of National Family Health Survey (NFHS) of India make it possible to look into their association.

Polygyny is a harmful practice and a form of violence against women under international law (Boltz & Chort, 2016). In general, it results in a variety of physical, sexual and psychological harm to women. Some studies revealed that polygamy creates inequality amongst co-wives since the husband cannot care for and cater to the needs of more than one wife. The odds of Intimate Partner Violence (IPV) is higher among women with co-wives compared to those in monogamous marriages (Heath et al., 2020; Jansen & Agadjanian, 2016, 2020;). Literature also suggests that the women involved in polygyny are susceptible to sexually transmitted diseases, infertility and mental health complications (Ashby & Gupta, 2013; Shepard, 2013). A husband's ability to marry another wife can be used to abuse and control the existing wife (Cook & Kelly, 2006). The abuse may be elicited either by the husband or the co-wives (McDermott & Cowden, 2015). The option of taking another wife allows a husband to evade the conflicts inherent in the spousal relationship such as disagreements regarding role division, sexual relations and distribution of resources/finances/properties (Ross, 2002; UNCHR, 2002). Unresolved issues can also lead to frustration and feelings of hostility and anger on the husband's part, resulting in aggressive behaviour with the earlier wife. Hence, it is pertinent to understand that the relationship between polygyny and spousal violence is causal or driven by the background characteristics of the women such as residence, caste, religion, education, wealth, etc.

Studies that have analysed the relationship between polygyny and spousal violence in recent years, mainly in the African context, have found that spousal violence is higher in polygynous marriages compared with monogamous marriages (Ahinkorah, 2021;

Behrman, 2019; Ebrahim & Atteraya, 2020; Heath et al., 2020; Jansen & Agadjanian, 2020; Amo-Adjei & Tuoyire, 2016; Al-Krenawi & Lev-Wiesel, 2002). Polygyny may constitute a source of friction and conflict in the family (Amo-Adjei & Tuoyire, 2016; Uthman et al., 2010). Controlling behaviour of men has been described as enforcing masculinity through male authority to control women (Barker & Ricardo, 2005; Heath, et al., 2020). Polygynous relationships are usually characterized by competition for resources among competing co-wives (Wekwete et al., 2014). A husband, therefore, manages and controls his wives to prevent rivalry between them (Agadjanian & Ezech, 2000). In polygynous marriages, it is difficult for the husbands to provide equal space for all wives to discuss matters and listen to their emotions and feelings. They think that they need to be fully respected, and cannot tolerate the rejection of their decisions (Mukhuba, 2017). Women's autonomy does not necessarily evenly characterize all aspects of the conjugal lives of co-wives. While a husband may allow certain independence to one of his spouses with regard to handling of their resources, this may lead to disagreement and conflict with another wife. Several studies have been conducted in India to understand the predictors of spousal violence (Jejeebhoy, 1998, Koenig, 2006; Jeyaseelan et al., 2007; Garg, 2021). However, studies on the association between polygyny and spousal violence is lacking in the Indian context. Therefore, a comprehensive study that examines the association between polygyny and spousal violence is worthwhile. Understanding the role of polygynous unions in spousal violence in India would not only be helpful to identify the factors contributing to it but also provide a benchmark for the government to frame policies to stop it.

## **Polygyny in India**

Although monogamy was the preferred marriage system in India, historically polygamy was permitted under certain circumstances. There are two forms of polygamy – one is polygyny (a man marries more than one woman) and another is polyandry (a woman marries more than one man). The present paper deals with only polygynous marriages on account of availability of data. In the past, it was a common custom among the kings, upper castes, merchants, wealthy classes and elites to have multiple wives to practise unrestricted polygyny (Yelamanchili & Parasuraman, 2010; Singh, 2019; Bhati, 2020). Though polygyny is not a common practice in modern times as opposed to the past, it is still being practiced by some sections of the communities in most part of the world, including India. Although many countries around the world have made it illegal, some countries, mainly Islamic and African, permit polygyny. The Hindu Marriage Act of India prohibited the practice of polygyny in 1955. Although India banned polygyny among Hindus, this practice still exists in some sections of Hindus (Yelamanchili & Parasuraman, 2010; Sahoo et al., 2022) and Personal Law of Muslims legally allows such practice. Hence, the practice of polygyny continued in India irrespective of region, religion, caste or class at varying levels. Over the years, due to the law prohibiting

polygyny and possibly the rising cost of maintaining more than one family/wife, it is uncommon to find a man being married to more than one wife simultaneously. The analysis of three rounds of NFHS data indicate that the prevalence of polygyny is low in India and it has declined from 1.9 percent in 2005-06 to 1.6 percent in 2015-16 and to 1.4 percent in 2019-21. Socio-economic variation in polygyny is observed in India, with higher prevalence among poor, uneducated, rural and older women compared to their counterparts. Regional variation in polygyny exhibits a higher prevalence in the North-eastern region, followed by Southern and least in Northern region (Sahoo et al., 2022) of India.

## **Data and Methods**

The present investigation is based on a secondary analysis of the data collected in NFHS-4 during 2015–16. The NFHS is a nationally representative, cross-sectional and demographic and health survey similar in design to the general format adopted for Demographic and Health Surveys (DHS) worldwide. For this study, 511,377 currently married women were investigated from NFHS-4. Since the data provides information about the other co-wives of women, it is possible to study polygynous marriage and its relation to spousal violence. In NFHS-4, a question was asked, “Besides yourself, does your husband have other wives?” Women who indicated that their partners had no other wives were considered to be in non-polygynous marriages (i.e., monogamy), while those who indicated that their partners had one or more other wives were considered as those being in polygynous marriages. Hence, a dichotomous outcome variable was derived from the polygyny variable and coded as 0 = non-polygynous and 1 = polygynous.

Although NFHS-4 provides information at the district level, the survey includes a section on ‘Domestic Violence’ only at the state level. Data was collected from only one woman in each household. The present study used the sample of currently married women aged 15–49 years. After applying weight, the final sample size for spousal violence was 57,068 currently married women. Women who had ever been physically, emotionally or sexually abused by their current husband in the past 12 months were categorized as having ‘experienced any spousal violence’. To calculate physical violence, the currently married women were asked seven questions, such as did your partner: (a) slap? (b) twist the arm or pull the hair? (c) push, shake, or throw something at? (d) punch with his fist or with something that could hurt? (e) kick, drag or beat? (f) try to choke or burn on purpose? and (g) threaten or attack with a knife, gun, etc.? If a woman reported that she had experienced any of the above acts by her husband, it was considered as an incident of physical violence. Similarly, for the computation of emotional violence, currently married women were asked if their husbands: (a) say or do something to humiliate you in front of others? (b) threaten to hurt or harm you or someone close to you? and (c) insult you or make you feel bad about yourself? If one of the answers by a woman was affirmative, it was considered as a case of emotional



violence. As for sexual violence, women were asked: (a) ever been physically forced into unwanted sex by husband/partner? (b) ever been forced into other unwanted sexual acts by husband/partner? and (c) ever been physically forced to perform unwanted sexual acts? If the response was positive for one of the questions by a woman, then it was considered as a case of sexual violence. The study examined the possible association between polygyny and spousal violence by doing cross-tabulation.

Multivariate logistic regressions were used to obtain unadjusted and adjusted odds ratios by controlling a number of explanatory factors such as caste, religion, residence, region, wealth index, age of the respondent, age at marriage, number of living children, spousal age difference, educational status, work status, decision-making power in the household, freedom to go out alone, control over money, attitude towards wife-beating, alcohol consumption of husband and marital control by husband. The P-value of less than 0.05 was considered statistically significant at 95% of the confidence interval. The odds ratio larger than one represents a greater likelihood of the outcome than the reference category (non-polygynous women) in the multiple logistic regression analysis. Statistical analyses were conducted using Stata version 16.

## Results

In India, around 1.6% of the currently married women (N=7791) in 2015-16 reported that their husbands had other wives. Table 1 presents the percentage of currently married women who experienced spousal violence in the past 12 months by type of marital union. Out of 57,068 eligible women selected for the domestic violence module, 56,084 were in non-polygynous union and 984 in polygynous union. In India, 20.6% women were victims of at least one type of physical violence by their husbands. Among them, 33.7% were from polygynous union and 20.4% from non-polygynous union. It was observed that all the acts of physical violence were more than double (except for slapping) in polygynous union than in non-polygynous union. Regarding different types of violence, slapping was the most reported act of physical violence, followed by being pushed, shaken or having something thrown at them.

**Table 1: Percentage of currently married women who faced different forms of spousal violence in the past 12 months in polygynous and non-polygynous marriage in India, 2015-16**

Type of violence	Non-polygynous	Polygynous	Total
<b>Physical violence</b>			
Any form of physical violence	20.4	33.7	20.6
Pushed her, shook her, or threw something at her	8.7	20.4	8.9
Slapped her	17.5	29.2	17.7
Punched her with his fist or with something that could hurt her	5.4	13.3	5.5
Kicked her, dragged her or beat her up	5.2	13.4	5.3
Tried to choke her or burn her on purpose	1.0	3.2	1.1

Threatened her or attacked her with a knife, gun or any other weapon	0.5	1.7	0.5
Twisted her arm or pulled her hair	7.2	16.0	7.4
<b>Sexual violence</b>			
Any form of sexual violence	5.3	12.6	5.4
Physically forced her to have sexual intercourse with husband even when she did not want to	4.2	9.9	4.3
Forced her to perform any sexual acts she did not want to	2.0	5.5	2.0
Forced her with threats or in any other way to perform any sexual acts she did not want to	2.8	7.8	2.9
<b>Emotional violence</b>			
Any form of emotional violence	10.0	20.7	10.2
Said or did something to humiliate her in front of others	6.7	14.9	6.8
Threatened to hurt or harm her or someone close to her	3.9	11.0	4.0
Insulted her or made her feel bad about herself	5.7	13.7	5.8
Any form of physical and sexual violence	3.9	10.6	4.0
Any form of emotional and physical and sexual violence	2.4	6.4	2.5
Any form of physical and/or sexual violence	21.8	35.7	22.0
Any form of emotional or physical or sexual violence	24.3	38.4	24.6
<b>Number of currently-married women (weighted)</b>	<b>56,084</b>	<b>984</b>	<b>57,068</b>

Overall, 5.4% women faced sexual violence for the past one year – 12.6% and 5.3% of them belonging to polygynous and non-polygynous unions, respectively. Being physically forced to have sexual intercourse was the most prevalent sexual violence (9.9% in polygynous and 4.2% in non-polygynous) followed by forced with threats and forced to perform sexual act that women did not want to. About 10.2% women reported that their husbands had emotionally abused them. Women in polygynous union (20.7%) were more likely to report emotional violence than those in non-polygynous ones (10%). Saying or doing something to humiliate them in front of others (10.2%) and insulting them or making them feel bad about themselves was the usual form of emotional violence. All three types of emotional violence were reported by a higher proportion of women in polygynous union than in non-polygynous union. Overall, more women in polygynous union reported experiencing either physical, sexual and emotional violence separately or in combination of these than women in non-polygynous union.

The socio-economic characteristics of women who endured violence are depicted in Table 2. As mentioned earlier, polygynous women experienced more violence than non-polygynous women. It was observed that 48% of the polygynous and 30.7% of the non-polygynous women who belonged to the Scheduled Castes suffered most from marital violence, followed by those from Other Backward Classes, Scheduled Tribes and Others. In particular, among Scheduled Tribes the percentage of polygynous women experiencing sexual violence was three times higher (21.5%) than that of non-polygynous women (7.1%). A large proportion of Hindu women from polygynous unions (42.2%) reported some form of violence than non-polygynous women. The percentage of women reporting violence in Muslim polygynous families (41.3%) was

almost the same as that among the Hindus. In rural areas, the prevalence of violence was higher for polygynous (39.8%) and non-polygynous women (26.4%) than in urban areas.

**Table 2: Percentage of currently married women who have experienced spousal violence in the preceding 12 months according to household characteristics and by the status of polygyny.**

Background characteristics	Physical violence		Sexual violence		Emotional violence		Any violence	
	Non-polygynous	Polygynous	Non-polygynous	Polygynous	Non-polygynous	Polygynous	Non-polygynous	Polygynous
<b>Caste</b>								
Scheduled castes	26.4	42.4	7.1	21.5	13.0	26.6	30.7	48.0
Scheduled tribes	22.0	25.6	5.9	9.2	10.6	17.4	26.0	33.0
Other backward classes	22.2	38.8	5.4	10.9	10.3	22.5	26.2	41.6
Others	12.9	29.3	3.5	12.3	7.4	17.0	16.6	33.0
<b>Religion</b>								
Hindu	21.5	37.2	5.4	13.5	10.3	20.8	25.3	42.2
Muslim	16.6	39.2	4.7	16.2	10.0	24.0	21.0	41.3
Others	17.2	19.4	4.8	7.1	8.1	17.6	21.2	25.6
<b>Residence</b>								
Urban	16.4	30.0	4.1	11.0	8.9	24.1	20.1	35.5
Rural	22.3	35.3	5.8	13.3	10.6	19.3	26.4	39.8
<b>Region</b>								
North	12.9	23.8	3.3	14.1	6.8	15.3	16.0	28.2
South	23.7	45.6	5.6	15.9	14.2	33.5	29.1	52.7
East	26.5	44.2	8.1	18.1	11.8	19.6	30.8	45.7
West	13.7	17.6	2.5	2.0	8.2	19.6	16.9	27.5
Central	25.3	39.8	6.2	15.8	10.6	22.2	29.0	43.9
North-east	17.1	20.9	5.2	6.7	9.0	14.2	21.5	26.9
<b>Wealth Index</b>								
Poorest	32.0	45.9	9.1	17.4	14.5	25.6	36.3	50.0
Poorer	25.2	34.0	6.0	14.5	12.1	18.8	29.6	38.6
Middle	20.5	33.8	5.2	10.8	10.5	19.0	24.9	38.5
Richer	17.0	22.9	4.2	8.0	8.6	18.3	20.6	28.2
Richest	10.2	24.7	2.7	7.5	5.7	23.4	13.4	30.1
<b>Total</b>	20.4	33.7	5.3	12.6	10.0	20.7	24.3	38.4

Spousal violence by region shows that a higher proportion of women in polygynous union reported violence from the southern region (52.7%). In non-polygynous unions, it was higher in the eastern parts (30.8%) of India. Physical violence among polygynous unions in Western India was exceptionally low (2%), which was even lower than among non-polygynous women (2.5%). As expected, spousal violence was high among the

poorest women – 50% in polygynous unions and 36.3% in non-polygynous families. The prevalence of spousal violence among non-polygynous women declined gradually from low to high wealth quintile, violence against the richest women in polygynous unions was very high (30.1%). A similar result was found for emotional violence (Figure 1).

**Figure 1: Polygyny and Spousal Violence in Regions of India**

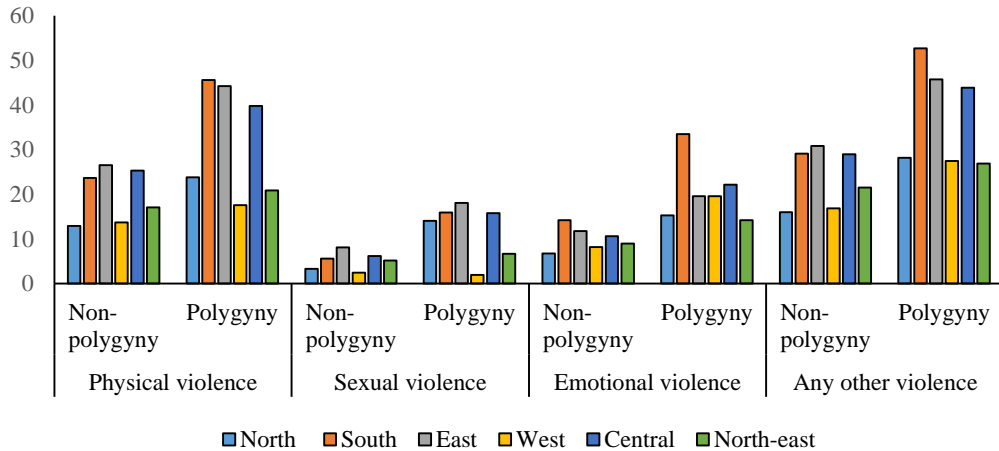


Table 3 compares the different forms of marital/spousal violence according to individual characteristics of women, dimensions of women’s agency and polygyny status. Nearly two-fifths (38.5%) of polygynous women compared with one-fourth (24.3%) of non-polygynous women had to face marital/spousal violence. In the polygynous and non-polygynous unions, violence was more prevalent among women who got married before the legal age (18 years), had no formal education, had more than two children and worked on a wage basis.

**Table 3: Percentage of currently married women who have experienced spousal violence in the preceding 12 months according to their individual characteristics and dimensions of women’s agency and by the status of polygyny**

Woman level indicators and characteristics related to violence	Physical violence		Sexual violence		Emotional violence		Any violence	
	Non-polygynous	Polygynous	Non-polygynous	Polygynous	Non-polygynous	Polygynous	Non-Polygynous	Polygynous
<b>Socio-demographic</b>								
<i>Current age</i>								
15-24	20.1	33.3	5.7	16.1	9.8	26.4	24.0	39.1
25-34	20.9	36.6	5.6	11.8	9.9	19.3	24.8	39.2
35 and above	20.0	32.3	4.8	12.5	10.3	20.6	24.0	37.9
<i>Age at marriage (years)</i>								
<18	24.7	35.1	6.2	12.9	11.8	23.8	29.0	40.5
≥18	17.1	33.1	4.5	12.4	8.7	18.6	20.8	37.0

<b>No. of living children</b>								
0	13.6	26.1	4.5	10.6	7.8	19.0	17.7	32.6
1	16.9	30.8	4.7	13.3	8.7	15.9	20.2	33.3
2	19.4	41.2	4.5	11.4	9.5	26.8	23.2	45.6
3 and above	24.7	32.8	6.4	13.6	11.8	19.2	29.1	38.1
<b>Spousal age difference (years)</b>								
Wife older / Husband older <=2 years	20.1	37.6	5.4	13.4	9.4	24.7	23.6	44.6
Husband older by 3 or more years	20.5	32.8	5.2	12.3	10.3	19.8	24.6	37.0
<b>Educational attainment level</b>								
No formal education	28.0	39.1	7.0	14.7	13.3	22.6	32.4	43.2
Primary	23.8	27.1	6.2	13.6	11.1	19.3	27.9	37.9
Secondary and higher	15.0	28.8	4.0	9.0	7.9	18.3	18.6	31.1
<b>Wage work status</b>								
Not worked for wages	18.1	29.7	4.6	10.6	8.7	16.7	21.7	32.5
Worked for wages	25.7	38.5	6.9	15.0	13.1	25.5	30.5	45.6
<b>Agency</b>								
<b>Decision-making authority (no. of household decisions in which woman participates)</b>								
0	25.5	46.3	25.5	46.3	25.5	46.3	25.5	46.3
1-2	24.1	43.3	24.1	43.3	24.1	43.3	24.1	43.3
3	18.0	27.1	18.0	27.1	18.0	27.1	18.0	27.1
<b>Freedom of movement to visit all 3 locations probed alone</b>								
No	22.2	35.9	6.1	11.4	10.9	21.3	26.5	40.2
Yes	18.0	31.5	4.1	13.9	8.9	20.1	21.5	36.5
<b>Control over money: Owns and operates a bank account</b>								
No	22.6	34.0	6.1	12.1	11.1	19.6	26.9	38.6
Yes	18.4	33.3	4.5	13.1	9.1	21.9	22.1	38.4
<b>Attitudes to wife-beating: Number of situations in which wife beating is justified</b>								
0	13.4	23.0	3.2	9.0	6.6	13.0	16.3	25.9
1-2	24.3	39.1	5.8	11.6	11.3	23.3	28.5	45.6
3-4	30.0	36.6	7.6	11.6	14.1	22.7	35.2	41.0
5-7	28.9	47.6	9.0	21.9	16.0	32.4	34.6	55.1
<b>Characteristics related to violence</b>								
<b>Alcohol consumption by husband</b>								
No	14.1	24.1	3.2	8.4	6.9	13.7	17.7	27.9
Yes	35.5	47.9	10.3	18.8	17.7	30.8	40.4	54.0
<b>Number of marital control behaviour displayed by husband</b>								
0	10.4	15.2	1.5	4.5	3.5	6.5	12.5	18.3
1-2	24.6	37.3	5.9	13.0	11.0	20.5	29.6	44.7
3-6	42.9	63.4	15.5	27.2	28.2	47.1	50.5	68.0
Total	20.4	33.7	5.3	12.6	10.0	20.7	24.3	38.5

Decision-making power or women's empowerment has a significant impact on the incidence of violence. Notably, marital violence is higher in polygynous (46.3%) and non-polygynous unions (25.5%) where women had not participated in any of the household decision making and lower where women had participated in at least three household decisions (27.1% and 18%, respectively).

**Table 4: Unadjusted and adjusted odds ratios showing the effect of polygyny on spousal violence in regions of India**

Region	Physical Violence		Sexual Violence		Emotional violence		Any Violence	
	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted	Unadjusted	Adjusted
North	2.139*** (1.296-3.532)	1.791** (1.016-3.154)	4.757*** (2.544-8.897)	4.726*** (2.326-9.603)	2.415*** (1.324-4.406)	1.870* (0.969-3.608)	2.023*** (1.254-3.261)	1.640* (0.953-2.82)
South	2.693*** (2.003-3.622)	1.549** (1.096-2.189)	3.225*** (2.145-4.851)	1.672** (1.049-2.665)	3.079*** (2.251-4.213)	1.552*** (1.056-2.283)	2.693*** (2.005-3.616)	1.475** (1.033-2.106)
East	2.219*** (1.672-2.946)	1.846*** (1.347-2.529)	2.495*** (1.725-3.608)	2.034*** (1.359-3.046)	1.856*** (1.302-2.644)	1.333 (0.904-1.965)	1.879*** (1.417-2.491)	1.507** (1.101-2.064)
West	1.401 (0.685-2.865)	0.799 (0.36-1.772)	0.613 (0.065-5.78)	0.339 (0.034-3.412)	2.789*** (1.393-5.583)	1.995* (0.913-4.356)	1.937** (1.049-3.579)	1.198 (0.596-2.408)
Central	1.965*** (1.443-2.675)	1.579*** (1.125-2.216)	2.854*** (1.882-4.329)	2.616*** (1.666-4.108)	2.392*** (1.659-3.446)	2.109*** (1.411-3.153)	1.894*** (1.397-2.568)	1.557** (1.113-2.18)
North-East	1.290* (0.969-1.719)	1.198 (0.871-1.649)	1.286 (0.803-2.062)	0.975 (0.579-1.641)	1.682*** (1.202-2.355)	1.355 (0.913-2.012)	1.347** (1.036-1.753)	1.141 (0.844-1.542)
India	1.987*** (1.738-2.272)	1.536*** (1.321-1.785)	2.587*** (2.135-3.134)	1.935*** (1.567-2.39)	2.337*** (1.998-2.733)	1.738*** (1.457-2.073)	1.945*** (1.708-2.215)	1.476*** (1.274-1.711)

Note: Unadjusted model examining the independent association of polygyny and spousal violence; Adjusted model for the factors listed in Table 2 and 3; and 95% confidence intervals in brackets.

\*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001.

Polygynous women (36.5%) and non-polygynous women (21.5%) who had the freedom to go out alone had experienced less violence than those who did not. Irrespective of owning a bank account, marital violence was the same for polygynous women. On the other hand, non-polygynous women who did not have a bank account were more likely to suffer from marital violence. About 26% of the polygynous women agreed that beating a wife without any reason was justified, whereas 55.1% agreed that beating in just 5-7 situations was justified if the wife: (a) went out without telling her husband, (b) neglected the house or children, (c) argued with her husband, (d) refused to have sex with him, (e) did not cook properly, (f) was unfaithful to her husband, and (g) showed disrespect to the in-laws. Among non-polygynous women, 35.2% reported that wife-beating was justified in 3-4 situations. More than half of the polygynous women (54%) and 40.4% of non-polygynous women reported spousal violence when their husbands were alcoholics.

Husband's alcohol habit appeared to increase spousal violence across all categories of violence among polygynous and non-polygynous unions. Further, marital violence was higher among polygynous (68%) and non-polygynous women (50.5%) when husbands had 3-6 types of controlling behaviour over women. The unadjusted odds ratio (UOR) and adjusted odds ratio (AOR) with 95% confidence interval (CI) of the multivariate logistic regression model is presented in table 4 to show the relationship between polygyny and spousal violence. The unadjusted odds ratio shows that the likelihood of spousal violence was 1.95 times more among polygynous women than among non-polygynous women in India. After controlling the other variables, a similar result (with a lower AOR=1.48) was found in the adjusted model. The result is also consistent for the physical, sexual and emotional violence with higher odds in sexual and emotional violence in both unadjusted and adjusted models. Although the unadjusted odds of polygyny showed that spousal violence was higher in all the regions of India, no significant relation was found for Western and North-eastern regions while adjusting all the factors. While physical (UOR = 2.69) and emotional violence (UOR = 3.08) was higher among polygynous women in the southern region, sexual violence was significantly higher among polygynous women in the northern region (UOR = 4.76, AOR = 4.73). Since the odds ratio of polygyny was greater than one, it vividly becomes a risk factor for polygynous women.

## Discussion

Spousal violence is still widespread in India and women in polygynous marriages have higher odds of experiencing marital violence than in non-polygynous marriage. The results of the study indicate that nearly two-fifths of the women from polygynous marriage and about one-fourth from non-polygynous marriage were victims of spousal violence in 2015-16 in India. Several studies found that women in polygynous unions were more likely to experience spousal violence than their monogamous counterparts

(Jewkes et al., 2002; Kimuna & Djamba, 2008; Bove & Vaggia, 2009; Nyamayemombe et al., 2010; Abramsky et al., 2011; Behrman, 2019; Jansen & Agadjanian, 2020; Ahinkorah, 2021). Most of these studies were from Africa, where the prevalence of polygyny was much higher than in India. In spite of the lower prevalence of polygyny in India, the association between polygyny and spousal violence is the same as that in Africa. The possible reasons attributed by the above mentioned studies for the positive association between polygyny and spousal violence are: less spousal communication and weaker emotional ties in polygynous unions; competition for resources between senior and junior wives leading to strain in familial relationships; low cooperation/interaction between co-wives attributed to competition amongst competing co-wives for various reasons; husband's controlling behaviour on the first/older wife once he establishes a second/younger relationship; conflict/jealousy among co-wives pushing the husbands to control them through violence; use of violence by the husbands to resolve the power dispute among the co-wives; socio-economic characteristics of the husband, wife and households etc.

The study also finds that the odds of experiencing all the three types of spousal violence (physical, sexual and emotional) was significantly higher for women in polygynous unions than for those in monogamous ones in India and across all regions. Slapping was the most common form of physical violence with the highest levels observed among polygynous women. Nearly 13% of the women in India experienced sexual violence in polygynous unions and 5% in non-polygynous unions. Among women who experienced sexual violence in polygynous unions, most (10%) were forced to have sex with their husbands. A previous study on polygyny also found that marital rape occurred when a husband forced his wife to take part in sexual acts without her consent (Ogunwale et al., 2020). More women in polygynous unions than non-polygynous ones suffered from emotional violence. A husband's exclusive support for one wife creates rivalry, violence and bad feelings among other wives. Sometimes husbands resort to emotional violence to control violence between wives (Adewale et al., 2021).

Regardless of the personal characteristics of women and the form of violence, a higher proportion of women in polygynous unions experienced spousal violence compared to non-polygynous women. Scheduled Caste women (bottom of India's caste system), especially those in polygynous unions, were subjected to severe violence. Irudayam et al. (2012) argued that Schedule Caste women (known as *dalit* women) faced local gender-and-caste discrimination and violence due to extreme imbalance in social, economic and political power equations. While there was a significant difference in spousal violence between polygynous and non-polygynous women, there was little difference between Hindu and Muslim polygynous women. Spousal violence was more prevalent in rural areas than in urban areas, especially in polygynous marital structures,



indicating stronger patriarchal norms in rural areas than in urban areas. In this study, spousal violence was observed to be higher among working women in polygynous and non-polygynous unions. Many studies have also reported similar findings in other contexts (Schuler et al., 1998; Gallin, 1999; Tranchant & Mueller, 2017) and in India (Krishnan, 2005; Rocca et al., 2008; Krishnan et al. 2010; Weitzman, 2014), indicating a conflict between financial autonomy of women and marital control behaviours of husbands. Studies by Rao (1997) and Krishnan (2005) found that economic status and alcohol consumption by the husbands played an important role in the abuse of wives in India. Consistent with other studies, poor polygynous women were more likely to be exposed to violence because of their low income and poor bargaining power (Aizer, 2011). Furthermore, the possibility of spousal violence often did not carry a monotonous negative relationship with increasing wealth (Kishor & Johnson, 2005). Our results also indicate that emotional violence was higher among the richest women in polygynous unions.

Globally women who married before the age of 15 years were more likely to experience violence than those who married 18 (Kidman, 2017; Ahinkorah, 2022). Under both marriage categories (<18 years and ≥18 years), women from polygynous unions experienced more violence than those in non-polygynous ones. Similar to several previous studies, this study also found that lack of formal education was significantly associated with greater spousal violence. The present study observed that women who had two or more children were more likely to be victims of spousal violence and this was higher in polygynous unions compared to non-polygynous ones. The positive association between spousal violence and the number of children had also been observed earlier by others (Weitzman, 2014; Solanke et al., 2018; Garg et al., 2021). In addition, women who were relatively older than their husbands, or in cases where the age gap between the spouses was less, faced a higher risk of spousal violence. Our analysis indicates a significant negative association between women's participation in decision-making in the household and violence against them in both polygynous and non-polygynous unions. This result is similar to a study (Kabir, et al., 2019) in Myanmar, where it was observed that women's decision-making power had a negative effect on domestic violence. Similarly, Ebrahim and Atteraya (2019) observed that the women who made decisions jointly with their spouses faced a lower risk of domestic violence than those with lower levels of family decision-making autonomy. This study also revealed that justification for wife-beating was higher in polygynous unions than in non-polygynous ones. Similar results were observed in seven Sub-Saharan African countries also (Rani et al., 2004). The study observed a positive association between the controlling behaviour of husbands and marital violence and it was higher in polygynous than in non-polygynous unions. A similar finding was reported in other studies as well (Antai, 2011). Husbands' alcohol consumption had been associated with spousal violence against women in India (Wagman et al., 2018). While our findings reiterated

the same, it further highlighted that higher proportion women with alcoholic husbands in polygynous unions faced violence compared to their counterparts in non-polygynous unions.

## **Conclusion**

Spousal violence is one of the major social problems globally, especially in India and other South Asian countries. The analysis indicates that polygyny further amplifies spousal violence against currently married women. There are several individual and household level factors that cause spousal violence. Notwithstanding the higher odds of spousal violence among women in polygynous unions compared with those in monogamous ones, across different socioeconomic characteristics of women and regions of India, the findings of the present study call for a uniform approach to deal with spousal violence at the national level. Further, irrespective of polygynous or non-polygynous unions, this research provides evidence for the need for a proactive and integrated approach to empowering women economically, promoting social environments that are intolerant towards the controlling behaviour of men and spousal violence, thus breaking the norms that sustain women's vulnerability to violence within the society. An environment of intolerance towards violence against women needs to be created by removing socio-cultural barriers that prevent women from reporting spousal violence. The findings of the study also call for strengthening the implementation of the laws designed to remove more than one marriage simultaneously by men (polygyny). Lack of implementation of marital laws leads to polygynous unions and makes the women even more vulnerable to violence by their husbands. The newly enacted protection of women against domestic violence legislation, 2005, in India will go a long way in strengthening the existing goal of reducing the prevalence of domestic violence. Education could provide a woman with more opportunities for financial independence, allowing her to leave an abusive husband. Public education through media channels should be used to target women who may fall outside the formal education system. Involvement of men in all these interventions is essential to change people's attitude towards violence against women. Moreover, as the law does not permit men to marry more than one wife simultaneously in India (except for one religious minority group), this form of marriage should be discouraged by strictly enforcing it to protect women from marital violence in polygynous unions. To conclude, the analysis has contributed to the body of literature by analysing the association between polygynous marriage and spousal violence in India.

## **Limitations**

Although this study used a large sample size from a nationally representative dataset, a few important limitations need to be noted. The results of this study are limited by the cross-sectional nature of the analysed data, therefore, it could not have captured all the

known risk factors of spousal violence at the individual and community levels. Future studies may focus on the variables omitted in the current study such as history of abuse, residential status of polygynous women (co-residing with husband or not), rank order of the polygynous women (first/second wife), etc. Furthermore, the results of the study were not supplemented with qualitative data because the goal of the study was to determine the effect of spousal violence on the marital structure (more specifically in polygynous marriage). Since polygyny is a rare marital union in India, a qualitative study can be undertaken to understand, in depth, what other factors affect spousal violence. Despite all these limitations, this study helps to understand the importance of eliminating polygyny and also its impact on spousal violence. A follow-up study is being aimed to explore this aspect with the next round of NFHS data.

## References

- Abramsky, T., Charlotte, H. W., Garcia-Moreno, C., Devries, K., Kiss, L., Ellsberg, M., Jansen, H., & Heise, L. (2011). What factors are associated with recent intimate partner violence? Findings from the WHO multi-country study on women's health and domestic violence. *BMC Public Health*, 11(1), 1-17.
- Adewale, D., Dey, N. E., Owusu Ansah, K., Duah, H. O., & Agbadi, P. (2021). The association between polygyny statuses of currently married and in-union women and attitude towards intimate partner violence against women in Ghana. *Social Sciences & Humanities Open*, 4(1), 100207.
- Agadjanian, V., & Ezech, A. C. (2000). Polygyny, gender relations, and reproduction in Ghana. *Journal of Comparative Family Studies*, 31(4), 427-441.
- Ahinkorah, B. O. (2021). Polygyny and intimate partner violence in sub-Saharan Africa: Evidence from 16 cross-sectional demographic and health surveys. *SSM: Population Health*, 13, 100729.
- Ahinkorah, B. O., Onayemi, O. M., Seidu, A. A., Awopegba, O. E., Ajayi, A. I. (2022) Association between girl-child marriage and intimate partner violence in Sub-Saharan Africa: Insights from a multicountry analysis of demographic and health surveys. *Journal of Interpersonal Violence*, 37(1), 15-16.
- Aizer, A. (2011). Poverty, violence, and health the impact of domestic violence during pregnancy on newborn health. *Journal of Human resources*, 46(3), 518-538.
- Al-Krenawi, A. (2001). Women from polygamous and monogamous marriages in an out-patient psychiatric clinic. *Transcultural Psychiatry*, 38(2), 187-199.
- Al-Krenawi, A., Graham, J. R., & Slonim-Nevo, V. (2002a). Mental health aspects of Arab-Israeli adolescents from polygamous versus monogamous families. *Journal of Social Psychology*, 142(4), 446-460.
- Al-Krenawi, A., & Lev-Wiesel, R. (2002b). Wife abuse among polygamous and monogamous Bedouin-Arab families. *Journal of Divorce & Remarriage*, 36(3-4), 151-165.

- Altman, I., & Ginat, J. (1996). *Polygamous families in contemporary society*. Cambridge: University of Cambridge Press.
- Amo-Adjei, J., & Tuoyire, D. A. (2016). Do ethnicity and polygyny contribute to justification of men beating women in Ghana? *Women and Health*, 56(1): 48–64.
- Arthi, V., & Fenske, J. (2018). Polygamy and child mortality: Historical and modern evidence from Nigeria's Igbo. *Review of Economics of the Household*, 16(1), 97–141.
- Ashby, B., & Gupta, S. (2013). Sexually transmitted infections in polygamous mating systems. *Philosophical Transactions of the Royal Society, B: Biological Sciences*. 368(1613), e20120048.
- Behrman, J. A. (2019). Polygynous unions and intimate partner violence in Nigeria: An examination of the role of selection. *Journal of Marriage and Family*, 81(4), 905–919.
- Bhati, S. (2020). The concept of polygamy in India. *Law Circa*, November, 26, 2020.
- Boltz, M., & Chort, I. (2016). The risk of polygamy and wives' saving behaviour. *World Bank Policy Research Working Paper*: No. 7860. Washington, DC: World Bank.
- Bove, R., & Vallengia, C. (2009). Polygyny and women's health in Sub-Saharan Africa. *Social Science and Medicine*, 68(1), 21–29.
- Brainard, J. N. (1991). *Health and development in a rural Kenyan community*. New York, Peter Lang.
- Bretschneider, P. (1995). *Polygyny: A cross-cultural study*. Uppsala: Uppsala University.
- Cherian, V. I. (1989). Academic achievement of children from monogamous and polygynous families (1989). *The Journal of Social Psychology*, 130(1):117-119.
- Cook, R. J., & Kelly, L. M. (2006). Polygyny and Canada's obligations under International Human Rights Law. *Family, Children and Youth Section: Research Report*. Canada: Department of Justice, Canada.
- Coult, A. D., & Habenstein, R. W. (1965). *Cross tabulations of Murdock's world ethnographic sample*. Columbia: University of Missouri Press.
- Dorjahn, V. R. (1959). The factor of polygyny in African demography. In Bascom, W.R. & Herskovits, M. J. (eds.), *Continuity and Change in African Cultures*. Pp. 87-112. Chicago: University of Chicago Press.
- Durevall, D., & Lindskog, A. (2015). Intimate partner violence and HIV in ten Sub-Saharan African countries: What do the demographic and health surveys tell us? *The Lancet Global Health*, 3(1), e34–e43.
- Ebrahim, N. B., & Atteraya, M. S. (2019). Women's household decision-making and intimate partner violence in Ethiopia. *Academic Journal of Interdisciplinary Studies*, 8(2), 284-284.

- Ezeh, A. C. (1997). Polygyny and reproductive behaviour in Sub-Saharan Africa: A contextual analysis. *Demography*, 34(3): 355-368.
- Gage-Brandon, A. J. (1992). The polygyny–divorce relationship: A case study of Nigeria. *Journal of Marriage and Family*, 54(2): 285–293.
- Gallin, R. S. (1999). Wife abuse in the context of development and change: A case from Taiwan. In Counts, D.A., Brown, J. K., & Campbell, J. C. (eds.), *To Have and To Hit: Cultural Perspectives on Wife Beating*. Urbana: Board of Trustees of the University of Illinois, pp. 252–260.
- Garcia-Moreno, C., Henrica, A.F.M. Jansen, Ellsberg, M., Heise, L., & Watts, C. (2005). *WHO multi-country study on women's health and domestic violence against women: Initial results on prevalence, health outcomes and women's responses*. Geneva: World Health Organization.
- Garg, P., Das, M., Goyal, L. D., Verma, M. (2021). Trends and correlates of intimate partner violence experienced by ever-married women of India: Results from National Family Health Survey round III and IV. *BMC Public Health*, 21, 2012.
- Goli, S., Rana, M. J., & Gouda, J. (2020). Intimate partner violence: Effects on maternity care and pregnancy outcomes in India. *Economic and Political Weekly*, 55(6), 71–76.
- Heath, R., Hidrobo, M., & Roy, S. (2020). Cash transfers, polygamy, and intimate partner violence: Experimental evidence from Mali. *Journal of Development Economics*, 143(1), 102410.
- Hindin, M., Kishor, S., & Ansara, L. D. (2008). Intimate partner violence among couples in 10 DHS countries: Predictors and health outcomes. *DHS Analytical Studies 18*. Calverton, MD: Macro International Inc.
- International Center for Research on Women (2004). *Violence against Women in India: A review of trends, patterns and responses*. New Delhi: ICRW.
- International Institute for Population Sciences and ICF (2017). *National Family Health Survey (NFHS-4), 2015-16: India*. Mumbai: IIPS.
- Irudayam, A. S. J., Mangubhai, J. P., & Lee, J. G. (2012). *Dalit women speak out: Caste, class and gender violence in India. Overview report*. New Delhi: National Campaign on Dalit Human Rights.
- Jakobsen, H. (2014). What's gendered about gender-based violence? An empirically grounded theoretical exploration from Tanzania. *Gender & Society*, 28(4).
- Jansen, N., & Agadjanian, V. (2020). Polygyny and intimate partner violence in Mozambique. *Journal of Family Issues*, 41(3), 338-358.
- Jejeebhoy, S. J. (1998). Wife-beating in rural India: a husband's right? Evidence from survey data. *Economic and Political Weekly*, 855-862.
- Jewkes, R., Morrell, R., Hearn, J., Lundqvist, E., Blackbeard, D., Lindegger, G., Quayle, M., Sikweyiya, Y., & Gottzén, L. (2015) Hegemonic masculinity: combining theory and practice in gender interventions, *Culture, Health & Sexuality*, 17(Supl. 2), 112-127.

- Jewkes, R., Levin, J., & Penn-Kekana, L. (2002). Risk factors for domestic violence: findings from a South African cross-sectional study. *Social Science and Medicine*, 55(9), 1603-1617.
- Jeyaseelan, L., Kumar, S., Neelakantan, N., Peedicayil, A., Pillai, R., & Duvvury, N. (2007). Physical spousal violence against women in India: some risk factors. *Journal of Biosocial Science*, 39(5), 657-670
- Josephson, S. C. (2002). Does polygyny reduce fertility? *American Journal of Human Biology*, 14(2), 222-232.
- Kabir, R., Haque, M., Mohammadnezhad, M., Samad, N., Mostari, S., Jabin, S., Majumder, M. A. A., & Rabbanih, M. G. (2019). Domestic violence and decision-making power of married women in Myanmar: analysis of a nationally representative sample. *Annals of Saudi Medicine*, 39(6), 395-402.
- Kidman, R. (2017). Child marriage and intimate partner violence: A comparative study of 34 countries. *International Journal of Epidemiology*, 46(2), 662-675.
- Kimuna, S. R., & Djamba, Y. K. (2008). Gender based violence: Correlates of physical and sexual wife abuse in Kenya. *Journal of Family Violence*, 23(5), 333-342.
- Kiros, G. E., & Kertzer, D. (2000). The impact of postmarital residence on fertility, early childhood mortality and child health in Southern Ethiopia. *Journal of Comparative Family Studies*, 31(4), 503-518.
- Kishor, S., & Johnson, K. (2004). *Profiling domestic violence: A multi-country study*. Calverton, MD: ORC Macro.
- Kishor, S., & Johnson, K. (2005). Women at the nexus of poverty and violence: How unique is their disadvantage? In Kishor, S. (Ed.), *A focus on gender: Collected papers on gender using DHS data*. Pp. 147-179. Calverton, MD: ORC Macro.
- Koenig, M. A., Stephenson, R., Ahmed, S., Jejeebhoy, S., & Campbell, J. (2006). Individual and contextual correlates of domestic violence in North India. *American Journal of Public Health*, 96(1), 132-138.
- Krishnan, S. (2005). Gender, caste, and economic inequalities and marital violence in rural South India. *Health Care for Women International*, 26(1), 87-99.
- Krishnan, S., Rocca, C. H., Hubbard, A. E., Subbiah, K., Edmeades, J., & Padian, N. S. (2010). Do changes in spousal employment status lead to domestic violence? Insights from a prospective study in Bangalore, India. *Social Science & Medicine*, 70(1), 136-143.
- Lardoux, S., & van de Walle (2003). Polygyny and fertility in rural Senegal. *Population*, 58(6), 717-744.
- Lesthaeghe, R., Kaufmann, G., & Meekers, D. (1989). The nuptiality regimes in sub-Saharan Africa. In Lesthaeghe, R. (ed.) *Reproduction and Social Organization in Sub-Saharan Africa*. Pp. 238-337. Berkeley: University of California Press.

- Mason, F., & Lodrick, Z. (2013). Psychological consequences of sexual assault. *Best Practice & Research Clinical Obstetrics & Gynaecology*, 27(1), 27–37.
- McDermott, R., & Cowden, J. (2014). Polygyny and violence against women. *Emory Law Journal*, 64(6), 1767-1814.
- Mukhuba, T. T. (2017). The representation of patriarch perception in selected African literary works. *Gender and Behaviour*, 15(2), 8561-8570.
- Murdock, G. P. (1981). *Atlas of world cultures*. Pittsburgh: University of Pittsburgh Press
- Nyamayemombe, C., Mishra, V., Rusakaniko, S., Benedikt, C., Gwazane, M., & Mukweza, P. (2010). The association between violence against women and HIV: Evidence from a national population-based survey in Zimbabwe. *Zimbabwe Working Papers, No.4*. Calverton, Maryland, USA: ICF Macro.
- Ogunwale, A. O., Dipeolu, I. O., & Olaitan, O. L. (2020). Knowledge and perceptions of marital rape among women in Oyo State, Nigeria. *African Journal of Biomedical Research*, 23(3), 351-360.
- Parekh, A., Tagat, A., Kapoor, H., Nadkarni, A. (2022). The effects of husbands' alcohol consumption and women's empowerment on intimate partner violence in India. *Journal of Interpersonal Violence*, 37(13-14), NP11066-NP11088.
- Patrick, G. J. (1988). Ethnographic atlas codebook. *World Cultures* 10(1), 86-136
- Rani, M., Bonu, S., & Diop-Sidibe, N. (2004). An empirical investigation of attitudes towards wife-beating among men and women in seven sub-Saharan African countries. *African Journal of Reproductive Health*, 8(3), 116-136.
- Rao, V. (1997). Wife-beating in rural South India: A qualitative and econometric analysis. *Social Science & Medicine*, 44(8), 1169-1180.
- Rice, P. L. (2000). *Hmong women and reproduction*. New York: The Ford Foundation.
- Rocca, C. H., Rathod, S., Falle, T., Pande, R., & Krishnan, S. (2008). Challenging assumptions about women's empowerment: Social and economic resources and domestic violence among women in urban South India," *International Journal of Epidemiology*, 38(2), 577–585.
- Ross, S. D. (2002). Polygyny as a violation of women's right to equality in marriage: An historical, comparative and international human rights overview. *Delhi Law Review*, 24, 22-41.
- Sahoo, H., R. Nagarajan & Chitali Mandal (2022). Polygyny in India: Levels and Differentials, IIPS Research Brief, number 21, Mumbai: IIPS.
- Schuler, S. R., Hashemi, S. M., & Badal, S. H. (1998). "Men's violence against women in rural Bangladesh: Undermined or exacerbated by microcredit programmes? *Development in Practice* 8(2), 148–157.

- Shepard, L. D. (2013). The impact of polygamy on women's mental health: a systematic review, *Epidemiology and Psychiatric Sciences*, 22(1), 47–62.
- Sichona, F. J. (1993). The polygyny-fertility hypothesis revisited: The situation in Ghana. *Journal of Biosocial Science*, 25(4), 473–482.
- Singh, S. (2019). *The politics of marriage in medieval India: Gender and alliance in Rajasthan*. New Delhi: Oxford University Press.
- Solanke, B. L., Bisiriyu, A.L., & Oyedokun, A. (2018). Is the likelihood of spousal violence lower or higher among childless women? Evidence from Nigeria demographic and health surveys. *BMC Women's Health*, 18(1), 1-12.
- Timaeus, I. M., & A. Reynar (1998). Polygynists and their wives in sub-Saharan Africa: An analysis of five Demographic and Health Surveys. *Population Studies*, 52(2), 145-162.
- Tranchant, J. P., & Mueller, C. (2017). Gendered experience of interpersonal violence in urban and rural spaces: The case of Ghana. *MPRA Paper No. 79533*.
- United Nations (1993). *Declaration on the elimination of violence against women*. New York: United Nations.
- United Nations, Economic and Social Council (2002). *U.N. special rapporteur on violence against women: Cultural practices in the family that are violent towards women*. New York: United Nations. Doc. E/CN.4/2002/83.
- UN Commission on Human Rights (2002), *Report of the special rapporteur on violence against women, its causes and consequences: Cultural practices in the family that are violent towards women*, New York: UNCHR. Doc: E/CN.4/2002/83
- Uthman, O. A., Lawoko, S., & Moradi, T. (2010). The role of individual, community and societal gender inequality in forming women's attitudes toward intimate-partner violence against women: A multilevel analysis. *World Health & Population*, 12(2), 5–17.
- Wagman, J. A., Donta, B., Ritter, J., Naik, D. D., Nair, S., Saggurti, N., Raj, A., & Silverman, J. G. (2018). Husband's alcohol use, intimate partner violence, and family maltreatment of low-income postpartum women in Mumbai, India. *Journal of Interpersonal Violence*, 33(14), 2241-2267.
- Weitzman, A. (2014). Women's and men's relative status and intimate partner violence in India. *Population and Development Review*, 40(1): 55–75.
- White & Burton (1988). Causes of Polygyny: Ecology, Economy, Kinship, and Warfare. *American Anthropologist*, 90(4): 871-887.
- WHO (2013). *Responding to intimate partner violence and sexual violence against women. WHO clinical and policy guidelines*. Geneva: WHO



- WHO (2021a). *Violence against women prevalence estimates, 2018: Global, regional and national prevalence estimates for intimate partner violence against women and global and regional prevalence estimates for non-partner sexual violence against women*. Geneva: WHO.
- WHO (2021b). *Factsheet: Violence against women*. Geneva: WHO. <https://www.who.int/news-room/factsheets/detail/violence-against-women> Date accessed: 05 August 2022.
- Wekwete, N. N., Sanhokwe, H., Murenjekwa, W., *et al.* (2014). The Association between spousal gender based violence and women's empowerment among currently married women aged 15-49 in Zimbabwe: Evidence from the 2010-11 Zimbabwe Demographic and Health Survey. *African Population Studies*, 28(3), 1413-1431.
- Yelamanchili, V., & Parasuraman, S. (2010). Polygamous marriages in India. Paper presented at the *annual conference of the Population Association of America* held at Dallas, Texas, USA during April 15-17, 2010.

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The Institute served as a regional centre for Training and Research in Population Studies for the ESCAP region. The Institute was re-designated to its present title in 1985 to facilitate the expansion of its academic activities and was declared as a 'Deemed University' in August 19, 1985 under Section 3 of the UGC Act, 1956 by the Ministry of Human Resource Development, Government of India. This recognition has facilitated the award of degrees by the Institute itself and paved the way for further expansion as an academic institution. The faculty members and the supporting staff belong to diverse interdisciplinary background with specialization in some core areas of population sciences, trained in India and abroad.

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## About the Authors

**Dr. Harihar Sahoo** is Associate Professor, Department of Family and Generations, International Institute for Population Sciences, Mumbai.

Email: [hariharsahoo@iipsindia.ac.in](mailto:hariharsahoo@iipsindia.ac.in)

**Dr. R. Nagarajan** is Professor, Department of Population and Development, International Institute for Population Sciences, Mumbai.

Email: [nagarajan@iipsindia.ac.in](mailto:nagarajan@iipsindia.ac.in)

**Ms. Chaitali Mandal** is Research Officer, International Institute for Population Sciences, Mumbai.

Email: [chaitali.geo@gmail.com](mailto:chaitali.geo@gmail.com)

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