Prevalence and Contributing Factors of Gender-based Violence in SAARC Territories from 2010 to 2020: A Systematic Review and Meta-analysis

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ABSTRACT

Background: Gender-based violence is a key global concern due to the high prevalence and increased socioeconomic burden for survivors. However, estimation of the prevalence of gender-based violence is difficult due to differences in study design and underreporting of abuse, especially in developing nations. Therefore, we conducted this study to estimate the prevalence of Gender-based violence among women living in the SAARC region.

Methods: The review protocol was registered in PROSPERO (CRD42020219577). Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines were followed throughout the review. A thorough database search was conducted to identify studies done in the SAARC region. Title and abstract screening were done in Covidence, followed by a full-text review. Data were extracted and pooled for analysis using the inclusion and exclusion criteria. Subgroup analysis was done where possible.

Results: A total of 76 studies were included in the systematic review and metaanalysis. The community prevalence of domestic violence (DV) was 43.8% (95% CI, 35.1% - 52.9%), GBV prevalence was 34.9% (95% CI, 30.2% -39.9%) and IPV prevalence was 39.8% (95% CI, 30.7% - 49.6%). GBV prevalence was highest in illiterate women [54.2% (95% CI, 46.8% - 61.5%)] and lowest among women with higher than secondary level education [23.1% (95% CI, 16.2% - 32.0%)]. The prevalence of GBV among women in pregnancy or postpartum period was 32.3% (95% CI, 25.1% - 40.4%, I²: 98.64), while among female sexual workers, the prevalence of Gender-based violence was 42.1% (95% CI, 28.1% - 57.5%, I²: 99.25).

Conclusions: There is a high prevalence of Gender-based violence in the SAARC region. Higher socioeconomic status and educational status are protective factors for Gender-based violence. However, more studies using validated tools are needed to understand the true extent of the problem.

Keywords: Domestic violence; gender-based violence; pregnancy; women.

INTRODUCTION

Gender-Based Violence (GBV) is defined as "violence involving men and women in which the female is usually the victim; and which is derived from unequal power relationship between men and women".1 GBV can be physical, mental, emotional, sexual, financial, or structural, and can be committed by intimate partners, familiarity, strangers and institutions.^{2,3} Men's perpetration of violence are commonly attributed to self-constructed social ideologies regarding masculinity.

Globally, one out of three women is forced to experience some sort of violence.7 In high-income countries, referral systems and interventions such as counseling, social and emotional support, psychotherapy, and education are available.8-10 However, the condition is far worse

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for women living in low and middle-income countries (LMIC). 11,12 Compared to other regions, women in South-East Asia are at a higher risk of intimate partner violence during their lifetime.13

Domestic violence has been linked to various poor physical and mental health outcomes. 13,14-16 Its high prevalence and negative impact on health make it imperative to develop effective programs to tackle it. This study aims to provide an accurate measure of the extent of GBV in the South Asian region, which can be helpful in this effort.

METHODS

Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines were followed throughout the review, and the checklist for the same can be found in Supplementary file 1. 17

Protocol Registration

The study protocol was registered in PROSPERO (CRD42020219577) .18

Inclusion criteria:

Study type(s): Prospective or retrospective crosssectional studies published in the English language (2000-2020) as full, or abstracts were considered eligible to be included in this review.

Study participant(s): Married women of reproductive age group (MWRA) "or" commercial Sex workers or adolescents who have experienced gender-based violence.

Objective outcome(s): Any studies reporting genderbased violence prevalence ratio in their outcome.

EXCLUSION CRITERIA

Pediatric population, case reports, systematic review/ meta-analysis, editorials, viewpoints, commentaries and articles, missing/insufficient data, and irretrievable (articles in other languages and non-accessible) studies were excluded.

Information source and search strategy

DS and PB used the appropriate MeSH terms in electronic databases (PubMed, Scopus, PMC, Embase, Google Scholar) to find the relevant articles by using Boolean terms 'AND' and 'OR'. For each study shortlisted via this process, the paper's reference section was checked to identify further studies not found in the previous database searches. Furthermore, unpublished studies were searched in grey literature. Secondary examinations included screening the references of the included studies and the previous systematic review. Electronic search details are available as Supplementary

Study selection and data extraction

Ten thousand nine hundred eighty studies were retrieved from the search databases for screening. First, SG and SA screened the remaining studies for title and abstract. Then, AG and SA individually performed the full-text reviews of the selected studies based on inclusion and exclusion criteria using Covidence. Discrepancies were resolved by mutual consent obtained among authors. Finally, relevant data from the selected studies were extracted into the MS excel spreadsheet under the headings. Details of the study, including the period of data collection, the location where the study was conducted, the number and description of participants, were noted for all studies. Our reported outcomes of interest were the prevalence or incidence of domestic violence, GBV, intimate partner violence (IPV) for all participants and subgroups. Separate information on physical, psychological, and sexual violence was also recorded.

Risk of bias assessment

The studies' quality was assessed individually by AG and SG using the JBI quality appraisal tool for prevalence studies (2019).19 The bias summary is available as a Supplementary file 2.

Summary Measures

The key characteristics of included studies were summarized as a narrative synthesis. For the metaanalysis, the prevalence of GBV among various populations in South Asian nations was used as the effect size. In studies that didn't report the prevalence of GBV as their primary outcome, the prevalence ratio was calculated from the variables given if possible.

Synthesis of Results

The extracted excel file was drawn into the CMA for the quantitative analysis. First, the pooled prevalence of GBV in south Asian nations with 95% CI was calculated via a random effect model. Next, the heterogeneity of the included studies was calculated using I² statistics. Finally, representative forest plots showing individual studies and the combined effect size were generated to overview the results.

Risk of bias across studies:

After data extraction and analysis, the evidence for publication bias was assessed using a funnel plot, and its significance was interpreted using Egger's test.

SENSITIVITY ANALYSIS

Sensitivity analysis was performed with the different forms of GBV and different patient populations identified in the review.

RESULTS

A total of 10,980 studies were identified from the initial database search. A total of 239 duplicates were removed. A total of 10,741 studies were subject to title and abstract screening, out of which 10,225 studies were excluded. In addition, full-text screening of 516 studies was done, and 76 were included in the final analysis (Figure 1).

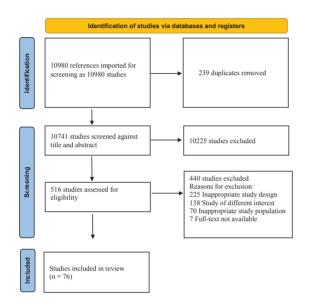


Figure 1. PRISMA flowchart,

Characteristics of included studies:

Out of the 76 studies included in our review, 36 studies reported community-level data on the prevalence of gender-based violence. Other studies included women of a specific demographic/socio-economic group, such as pregnant women or in the postpartum period, female sex workers, women with HIV, women with disabilities, and women in the workplace. Results from these subgroups were analyzed separately and are presented in the upcoming sections. In addition, 35 of the included studies were conducted in India, 15 in Nepal, 12 in Bangladesh, 6 in Srilanka, 5 in Pakistan, 3 in Afghanistan, and 1 in Bhutan. All studies were published between 2010 and 2020. A tabulated summary of included studies is presented in Supplementary file 3 table 1-5.20,96

Among community-based studies

Based on the community level studies among the SAARC countries and the random `effects meta-analysis assessment of 20 studies the prevalence of DV is 43.8% (95% CI, 35.1% - 52.9%, I²: 95.86), GBV prevalence is 34.9% (95% CI, 30.2% - 39.9% I²: 64.33) and IPV prevalence is 39.8% (95% CI, 30.7% - 49.6%, I²: 99.72) (Figure 2). The prevalence of gender-based violence in respective SAARC countries were Bangladesh [47.1% (95% CI, 30.4% - 64.6%)], India [32.9% (95% CI, 28.0% - 38.2%)], Nepal

[43.5% (95% CI, 34.5% - 52.8%)], Pakistan [87.1% (95% CI, 84.5% - 89.3%)], and Sri Lanka [53.1% (95% CI, 50.2% -55.9%) (Figure 3). The GBV was higher among illiterate than literate based on level of education Supplementary file 4 figure 1). However, it did not differ based on the employment status (Supplementary file 4 figure 2).

Study name	Subgroup within study	Comparison					Event r	ate and	d 95% C	1
			Event rate	Lower limit	Upper limit	Total				
Shah SH, 2012	India	DV	0.323	0.273	0.378	97 / 300			■	
Sapkota D, 2016	Nepal	DV	0.386	0.337	0.438	137 / 355				
Mahapatro M, 2012	India	DV	0.390	0.382	0.398	5441 / 13951				
Vachher AS, 2010	India	DV	0.429	0.378	0.481	150 / 350				
Kundu H, 2014	India	DV	0.671	0.616	0.722	204 / 304			-	
			0.438	0.351	0.529				•	
Jayatilleke A, 2015	Srilanka	GBV	0.315	0.261	0.375	81 / 257			■	
Ahmad J, 2015	India	GBV	0.367	0.353	0.382	1550 / 4223				
			0.349	0.302	0.399				•	
Srinivasan M, 2020	India	IPV	0.070	0.046	0.105	21 / 301		-	1	
Chen GL, 2020	India	IPV	0.114	0.096	0.135	114 / 1001		-		
Rahman L, 2019	Bangladesh	IPV	0.251	0.244	0.258	3654 / 14557		- -	•	
Garg S, 2019	India	IPV	0.297	0.274	0.320	445 / 1500			•	
Sambisa W, 2011	Bangladesh	IPV	0.310	0.300	0.319	2824 / 9122			•	
Jayatilleke A, 2011	Srilanka	IPV	0.361	0.324	0.399	225 / 624			•	
Shrivastava PS, 2013	India	IPV	0.369	0.314	0.427	101 / 274			•	
Yount KM, 2016	Bangladesh	IPV	0.445	0.428	0.462	1493 / 3355			-	
Boyce SC, 2017	India	IPV	0.451	0.442	0.461	4726 / 10469			4	
Nepal Government, 201	2Nepal	IPV	0.480	0.447	0.513	432 / 900			4	
Dalal K, 2013	Bangladesh	IPV	0.510	0.495	0.525	2278 / 4467				
Esie P, 2019	Bangladesh	IPV	0.819	0.805	0.831	2693 / 3290				•
Ali TS, 2011	Pakistan	IPV	0.871	0.845	0.893	661 / 759				•
			0.398	0.307	0.496				•	
						-1.0	00 -0.50	0.00	0.50	1.00

Figure 2. Forest plot showing DV, GBV, and IPV among SAARC countries among community-based studies.

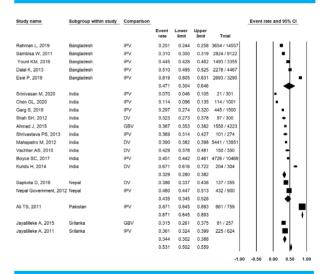


Figure 3. Forest plot showing different types of GBV based on countries among SAARC region among community-based studies.

The physical form of violence

The prevalence of physical violence in different SAARC countries among community based studies were highest in Bangaladesh and lowest in Sri Lanka. The proportion of the violence for respective countires were Bangladesh [56.3% (95% CI, 43.2% - 68.6%, I²: 99.42)], Pakistan [46.5% (95% CI, 26.6% - 67.7% I²: 97.97)], Afghanistan [43.8% (95% CI, 10.9% - 83.2%, I²: 99.74)], India [25.8% (95% CI, 20.7% - 31.7%, I²: 98.63)], Nepal [24.2% (95% CI, 17.3% - 32.7% I²: 96.91)], Srilanka [22.8% (95% CI, 12.5%

- 37.8% I²: 93.96)] (figure 4).

		rate	limit	limit	Total				
Gibbs A, 2020	Afghanistan	0.232	0.206	0.260	216 / 931	- 1			
Jewkes R, 2018	Afghanistan	0.667	0.642	0.690	974 / 1461				ı
		0.438	0.109	0.832			-	~	-
Esie P, 2019	Bangladesh	0.437	0.420	0.454	1438 / 3290				
Parvin K, 2016	Bangladesh	0.601	0.582	0.620	1566 / 2604				
Dalal K, 2013	Bangladesh	0.647	0.633	0.661	2889 / 4467				
		0.563	0.432	0.686				-	
Garg S, 2019	India	0.080	0.067	0.095	120 / 1500		-	ľ	
Chen GL, 2020	India	0.109	0.091	0.130	109 / 1001		-	- 1	
Shah SH, 2012	India	0.197	0.156	0.246	59 / 300		-	.	
Shrivastava PS, 2013	India	0.234	0.187	0.287	64 / 274		١.	•	
Sharma KK, 2019	India	0.272	0.243	0.303	225 / 827		- 1	-	
Ahmad J, 2015	India	0.284	0.271	0.298	1199 / 4223			-	
Boyce SC, 2017	India	0.288	0.280	0.297	3019 / 10469			-	
Reed E, 2016	India	0.359	0.321	0.399	207 / 577			-	
Silverman JG, 2019	India	0.371	0.348	0.393	656 / 1770			-	
Ram A, 2019	India	0.655	0.564	0.736	76 / 116			-	.
		0.258	0.207	0.317			- 1 -	• I	
Yoshikawa K, 2014	Nepal	0.113	0.092	0.138	81 / 717		=	·	
Gupta J, 2018	Nepal	0.157	0.141	0.175	283 / 1800		-	- 1	
Shai N, 2019	Nepal	0.220	0.168	0.283	44 / 200		- I •	•	
Nepal Government, 20	12Nepal	0.268	0.240	0.298	241/900		- 1 -	■	
Sapkota D, 2016	Nepal	0.296	0.251	0.345	105 / 355			■	
Dahal P, 2019	Nepal	0.335	0.309	0.363	399 / 1190			-	
Puri M, 2011	Nepal	0.533	0.293	0.759	8 / 15			-	.
		0.242	0.173	0.327			- ∢	▶	
Ali NS, 2014	Pakistan	0.357	0.311	0.405	143 / 401				
Ali TS, 2011	Pakistan	0.576	0.540	0.610	437 / 759			_	
		0.465	0.266	0.677				╼	
Jewkes R, 2017	Srilanka	0.121	0.096	0.152	65 / 535			Т	
Jayatilleke A, 2011	Srilanka	0.191	0.162	0.223	119 / 624			.	
Jayatilleke A, 2015	Srilanka	0.500	0.342	0.658	18/36		- 1 -	+	
		0.228	0.125	0.378			_ ∢	▶ [
					-1.00	0.50	0.00	0.50	400
					-1.00	-0.50	0.00	U.50	1.00

Figure 4. Forest plot showing the physical form of violence based on countries among SAARC region among community-based studies.

The sexual form of violence

Study name	Subgroup within study	Event	Lower	Upper		Event rate and 95% CI
		rate	limit	limit	Total	
Dalal K, 2013	Bangladesh	0.111	0.102		495 / 4467	=
Esie P, 2019	Bangladesh	0.586	0.569		1928 / 3290	=
		0.296	0.037	0.820		
Shah SH, 2012	India	0.020	0.009	0.044	6 / 300	1 1 1 1
Boyce SC, 2017	India	0.023	0.020		241 / 10469	1 1 1 1
Chen GL, 2020	India	0.027	0.019	0.039	27 / 1001	1 1 + 1
Ahmad J, 2015	India	0.063	0.056	0.071	266 / 4223	1 1 1- 1
Silverman JG, 2019	India	0.084	0.072	0.098	149 / 1770	1 1 1- 1
Shrivastava PS, 2013	India	0.088	0.059	0.127	24 / 274	1 1 1- 1
Garg S, 2019	India	0.099	0.085	0.115	148 / 1500	1 1 1- 1
Ram A, 2019	India	0.172	0.114	0.252	20 / 116	1 -
Sharma KK, 2019	India	0.264	0.235	0.295	218 / 827	1 -
Reed E, 2016	India	0.317	0.280	0.356	183 / 577	1 -
		0.083	0.043	0.153		1 1 1 1
Sapkota D, 2016	Nepal	0.068	0.046	0.099	24 / 355	1 1 1- 1
Shai N, 2019	Nepal	0.135	0.094	0.190	27 / 200	-
Nepal Government, 201	12Nepal	0.153	0.131	0.178	138 / 900	1 -
Dahal P, 2019	Nepal	0.170	0.149	0.192	202 / 1190	1 -
Gupta J, 2018	Nepal	0.181	0.164	0.200	326 / 1800	1 -
Puri M, 2012	Nepal	0.462	0.435	0.489	599 / 1296	
Puri M, 2011	Nepal	0.487	0.336	0.640	19 / 39	l +
		0.204	0.119	0.325		♦
Ali TS, 2011	Pakistan	0.545	0.510	0.581	414 / 759	📜
		0.545	0.510	0.581		1 1 1
Jayatilleke A, 2015	Srilanka	0.028	0.004	0.173	1/36	I I ⊢ ľ
Jewkes R, 2017	Srilanka	0.069	0.051	0.094	37 / 535	1 -
Jayatilleke A, 2011	Srilanka	0.080	0.061	0.104	50 / 624	=
		0.074	0.061	0.091		1 1 1

Figure 5. Forest plot showing the sexual form of violence based on countries among SAARC region among community-based studies.

The prevalence of sexual violence based on community based studies in different SAARC countries were as follows in descending order: Pakistan [54.5% (95% CI, 51.0% - 58.1%, I²:0)], Bangladesh [29.6% (95% CI, 3.7% -82.0% I²: 99.94)], Nepal [20.4% (95% CI, 11.9% - 32.5%, l²:98.55)], India [8.3% (95% CI, 4.3% - 15.3%, l²: 99.28)], Srilanka [7.4% (95% CI, 6.1% - 9.1%, I²: 0)] (figure 5).

Selected studies reported both physical and sexual forms of violence and psychological form of genderbased violence in the community Supplementary file 4 figure 3 and 4).

Subgroup/Sensitivity analysis

IPV within last 12 months

The overall IPV in the community within the past 12 months was found to be 38.1% (95% CI, 23.1% -55.7%, I2 I²:99.86). The prevalence of IPV decreased with increasing educational status of individuals with illiterate individuals with proportion of 52.8% (95% CI, 41.0% - 64.3%, I²: 90.97) and those with graduate level education with proportion of 20.5% (95% CI, 10.2% -36.8%, I²: 80.54). Sub-analyzing the community level IPV in the past 12 months into categories of physical, psychological and sexual violence the prevalence was found to be 32.2% (95% CI, 20.2% - 47.1%, I²: 99.64), 45.8% (95% CI, 22.8% - 70.8%, I²: 99.71) and 13.9% (95% CI, 4.2% - 37.4%, I²: 99.81) respectively (Table 1).

GBV:

The lifelong community prevalence of GBV was found to be 41.7% (95% CI, 37.0% - 46.5%, I²: 98.52). Similar to IPV within the past 12 months, increasing educational status resulted in decreasing trend of GBV. The prevalence of GBV among illiterate was 59.8% (95% CI, 50.0% - 68.9%, I²: 97.99), primary level education was 49.3% (95% CI, 41.6% - 57.0%, I²: 93.35), secondary level education was 35.7% (95% CI, 30.9% - 40.8%, I²: 83.62) and graduate level education was 25.8% (95% CI, 14.1% - 42.2%, I2: 65.56).

The prevalence of GBV among women in pregnancy or postpartum period was 32.3% (95% CI, 25.1% - 40.4%, l²: 98.64) with 15.2% (95% CI, 8.7% - 25.4%, l²: 99.39) experiencing physical violence, 23.3% (95% CI, 12.7% -38.9%, I²: 99.15) experiencing psychological violence and 8.6% (95% CI, 4.7% - 15.2%, I2: 98.64) experiencing sexual violence.

Among FSW, the prevalence of GBV was 42.1% (95% CI, 28.1% - 57.5%, I2: 99.25) with physical and sexual violence being 31.9% (95% CI, 12.9% - 59.6%, I²: 99.67) and 14.9% (95% CI, 9.9% - 21.8%, I2: 96.75) respectively.

The prevalence of GBV among HIV positive, hospitalized or disabled was 41.2% (95% CI, 32.4% - 50.6%, I²: 95.19). On further analysis the physical violence was 28.1% (95% CI, 14.6% - 47.0%, I²: 98.09), psychological violence was 62.6% (95% CI, 36.2% - 83.2%, I²: 98.68) and sexual violence was 10.3% (95% CI, 5.4% - 18.6%, I²: 95.41).

GBV in work-place or among adolescent was found to be 20.2% (95% CI, 6.4% - 48.3%, I²: 99.52).

Study subgroup	Random effect, Proportion (95% CI)	No of the study	No of the individuals in subgroup	J ²				
Community: Within 12	<u> </u>		3005.00p					
Overall IPV	0.381 (0.231-0.557)	6	32711	99.86				
IPV: Illiterate	0.528(0.410-0.643)	3	1799	90.97				
IPV: Primary	0.490(0.390-0.591)	3	1457	69.01				
IPV: Secondary	0.277(0.134-0.486)	3	1456	93.32				
IPV: Graduate	0.205(0.102-0.368)	3	426	80.54				
IPV: Physical	0.322 (0.202-0.471)	8	14768	99.64				
IPV: Psychological	0.458 (0.228-0.708)	5	6974	99.71				
IPV: Sexual	0.139 (0.042-0.374)	5	10832	99.81				
Community: Lifelong								
Overall GBV	0.417 (0.370-0.465)	14	37648	98.52				
GBV: Illiterate	0.598 (0.500-0.689)	5	8541	97.99				
GBV: Primary	0.493 (0.416-0.570)	4	4032	93.35				
GBV: Secondary	0.357 (0.309-0.408)	4	3769	83.62				
GBV: Graduate	0.258 (0.141-0.422)	3	186	65.56				
GBV: Unemployed	0.430 (0.316-0.552)	4	5132	97.72				
GBV: Employed	0.431 (0.3230546)	4	1046	90.04				
GBV: Physical	0.303 (0.245-0.368)	19	26574	98.92				
GBV: Psychological	0.405 (0.319-0.497)	13	25316	99.18				
GBV: Sexual	0.132 (0.076-0.219)	18		99.45				
Pregnancy and postpartum								
GBV	0.323 (0.251-0.404)	14	12675	98.64				
GBV: Physical	0.152(0.087-0.254)	11	13000	99.39				
GBV: Psychological	0.233 (0.127-0.389)	7	6342	99.15				
GBV: Sexual	0.086 (0.047-0.152)	9	11762	98.64				
FSW								
GBV: FSW	0.421 (0.281-0.575)	5	9220	99.25				
GBV: Physical	0.319 (0.129-0.596)	4	7818	99.67				
GBV: Sexual	0.149 (0.099-0.218)	3	7229	96.75				
HIV, hospital, disable								
GBV	0.412 (0.324-0.506)	10	2848	95.19				
GBV: Physical	0.281 (0.146-0.470)	7	1951	98.09				
GBV: Psychological	0.626 (0.362-0.832)	6	1744	98.68				
GBV: Sexual	0.103 (0.054-0.186)	6	1911	95.41				

Table 1. Showing summary statistics of subgroup/sensitivity analysis.								
Study subgroup	Random effect, Proportion (95% CI)	No of the study	No of the individuals in subgroup	l ²				
Adolescent/ workplace: GBV								
GBV/WPV	0.202 (0.064-0.483)	5	10131	99.52				

GBV: Gender-based Violence, IPV: Intimate Partner Violence, FSW: Female Sex Worker, HIV: Human Immunodeficiency Virus, WPV: Work-place violence

Publication bias:

Publication bias among the included studies was tested using Egger's test and was presented in a Funnel plot. The Funnel plot showed an asymmetric distribution of studies, which suggests a significant amount of publication bias (Supplementary file 4 figure 5-7). As a result, the random-effects model was used for analysis.

DISCUSSION

Based on studies published between 2010 and 2021, we estimate the community prevalence of domestic violence in the SAARC region to be 43.8% (95% CI, 35.1% - 52.9%), the prevalence of GBV to be 34.9% (95% CI, 30.2% - 39.9%), and the prevalence of IPV to be 39.8% (95% CI, 30.7% - 49.6%). This is comparable to the finding from the systematic review by Kalokhe et al. 13 that 41% of women in India reported experiencing domestic violence during their lifetime. The WHO estimate of lifetime estimate of 37.7% experiencing domestic violence in the South-eastern Asian region 13. The selfreporting estimates for domestic violence in the SAARC and eastern Asian region are consistently higher than those for other world regions. While the differences in data collection methods and the cultural differences that could influence self-reporting could account for some of the differences, the significantly more traditional family and societal structures in this region are likely important contributing factors^{1,2}. One encouraging sign is the increasing focus on this very pressing problem, highlighted in the literature.

The quality of all included studies was assessed using the JBI quality appraisal tool, and they were found to be generally of good quality. However, some studies did not report the response rates, while in some studies, the sampling method was not described in detail. Additionally, there was high variability in findings between the studies included, attributable to geographical and cultural differences within the region and the differences in methodology. Therefore, standardization of reporting tools and methods is paramount in getting better quality data to the root of the issue.

Psychological abuse was the most common form of

violence, but physical and sexual violence accounted for a significant part of the abuse. This is another indicator of the seriousness of the issue, as a large proportion of women are experiencing physical trauma and psychological abuse. A country-based analysis of community-based studies showed wide variation in the region. One study from Pakistan⁵¹ and two studies from Nepal^{26,46} and Sri Lanka^{29,53} were included in the community level analysis, so definitive conclusions cannot be drawn. Still, India had the most significant number of studies included and had the lowest reported prevalence of lifetime domestic violence (32.9%). This was true for all forms of abuse, including physical, sexual, and psychological violence.

The prevalence of domestic violence also showed significant variation by educational and employment status. Unemployed 20,26,27,50 and illiterate 20,27,33,39,40,50,51 women reported experiencing domestic violence higher than employed or those with higher academic levels. However, the reported lifetime prevalence of domestic violence is still alarmingly high among employed and highly educated women. This is evidence of the complex origin of the problem than just its economic aspect. The prevalence of GBV among female sex workers was roughly the same as the community prevalence of GBV. The prevalence of GBV among pregnant women or in the post-partum period was lower than the community prevalence but still significant.

Most studies included in our review were methodologically sound but varied in the questionnaires used. For example, some only looked at specific forms of violence, and some grouped different forms into the same category while reporting sexual and physical violence, in addition to the lack of clear distinction between the various forms in some cases, such as violence perpetrated by intimate partners, family members, or others. This meant that we could not analyze all studies together. Therefore, we suggest that further studies use welldefined terminologies and validated questionnaires for reporting domestic violence.

The limitations of our study stem from the subjective nature of self-reported answers, the heterogeneity in the questionnaires among the studies, and the flaws

in our review design. As a result, calculating the true prevalence of gender-based violence is difficult. Admitting to being a victim of abuse is not an easy task, especially in the SAARC region, where the roots of tradition and patriarchy run deep despite recent advances. The use of self-reporting questionnaires and anonymization of results partially addresses this problem. However, there might still be women whom these questionnaires cannot reach and are more likely to be abuse victims. Normalization of abusive behavior is another potential cause for the underreporting of domestic violence. All data included in our study areas were reported in the publications, and we did not attempt to contact authors in cases of missing or conflicting data. In addition, our database search was limited to international indexes. While this increases the chance of included studies being of higher quality, we might have missed studies published in national and regional journals which are not indexed.

The most important finding from this review is that the prevalence of domestic violence over the last decade has been alarmingly high in the SAARC region, and efforts need to be made to address it. Potential topics for further study in this field could be the impact of domestic violence in women's lives, both physical and psychological. A more granular look at domestic violence, including differences in the age of women, divorced or widowed women, or same-sex couples, would also add to our understanding of the issue. Other topics of study could be the change in prevalence and pattern of violence with time and potential tools to improve the quality of reporting, particularly the development and validation of tools that incorporate the cultural and societal norms of the SAARC region.

CONCLUSIONS

About 4 in 10 women in the SAARC region experience gender-based violence in their lifetime, a significant part of which is physical and sexual. Higher socioeconomic status and educational status are protective factors for GBV. However, more studies using standardized and validated tools are needed to understand the true extent of the problem.

CONFLICT OF INTEREST

None.

REFERENCES

- WHO. Promoting gender equality to prevent violence against women. World Heal Organ. 2009;1-18. [Article]
- Nations U. Declaration on the elimination of violence against women. New York: UN. 1993. [Article]
- Garcia-Moreno C, Jansen H a FM, Ellsberg M, Heise L, Watts CH. WHO Multi-country Study on Women's

- Health and Domestic Initial results on prevalence. Who. 2005;151(1):277-83. [Article]
- Jewkes R, Flood M, Lang J. From work with men and boys to changes of social norms and reduction of inequities in gender relations: A conceptual shift in prevention of violence against women and girls. Vol. 385, The Lancet. Lancet Publishing Group; 2015. p. 1580-9. [Article]
- Levant RF. The new psychology of men. Prof Psychol Res Pract. 1996;27(3):259-65. [Article]
- Thompson EH, Pleck JH. The Structure of Male Role Norms. Am Behav Sci. 1986 May; 29(5):531–43. [Article]
- Afghan Women's Network. Gender based Violence in Afghanistan. 2009; (January). [Article]
- O'Reilly R, Beale B, Gillies D. Screening and intervention for domestic violence during pregnancy care: a systematic review. Trauma Violence Abuse. 2010 Oct;11(4):190-201. [PubMed]
- Arroyo K, Lundahl B, Butters R, Vanderloo M, Wood DS. Short-Term Interventions for Survivors of Intimate Partner Violence: A Systematic Review and Meta-Analysis. Trauma Violence Abuse. 2017 Apr;18(2):155-71. [PubMed]
- 10. Wathen CN, MacMillan HL. Interventions for Violence Against Women: Scientific Review. JAMA. 2003 Feb;289(5):589-600. [PubMed]
- Karmaliani R, Irfan F, Bann CM, McClure EM, Moss N, Pasha O, et al. Domestic violence prior to and during pregnancy among Pakistani women. Acta Obstet Gynecol Scand. 2008;87(11):1194–201. [PubMed]
- 12. McCauley M, Head J, Lambert J, Zafar S, van den Broek N. "Keeping family matters behind closed doors": healthcare providers' perceptions and experiences of identifying and managing domestic violence during and after pregnancy. BMC Pregnancy Childbirth. 2017 Sep;17(1):318. [PubMed]
- 13. Kalokhe A, del Rio C, Dunkle K, Stephenson R, Metheny N, Paranjape A, et al. Domestic violence against women in India: A systematic review of a decade of quantitative studies. Glob Public Health. 2017 Apr;12(4):498-513. [PubMed]
- 14. Trevillion K, Oram S, Feder G, Howard L. Experiences of domestic violence and mental disorders: a systematic review and meta-analysis. PLoS One. 2012;7. [PubMed]
- 15. Howard L, Trevillion K, Agnew-Davies R. Domestic violence and mental health. Int Rev Psychiatry. 2010;22. [PubMed]
- 16. Howard LM, Oram S, Galley H, Trevillion K, Feder G. Domestic Violence and Perinatal Mental Disorders: A Systematic Review and Meta-Analysis. PLOS Med. 2013 May;10(5):e1001452. [PubMed]
- 17. Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: An updated guideline for reporting systematic reviews. Int J Surg. 2021;88:105906. [Article]

- 18. Shrestha D, Budhathoki P, Shrestha N, Dangal G, Khanal G, Aryal S, et al. Prevalence and contributing factors of gender-based violence in SAARC territories over the last decade [Internet]. PROSPERO 2020 CRD42020219577. 2020 [cited 2021 Dec 1]. [Article]
- 19. critical-appraisal-tools Critical Appraisal Tools | Joanna Briggs Institute [Internet]. [cited 2020 Dec 18]. [Article]
- 20. Kundu H, P B, Singla A, Kote S, Singh S, Jain S, et al. Domestic Violence and its Effect on Oral Health Behaviour and Oral Health Status. J Clin Diagn Res. 2014;8(11):ZC09. [PubMed]
- 21. Mahapatro M, Gupta R, Gupta V. The Risk Factor of Domestic Violence in India. Indian J Community Med. 2012 Jul;37(3):153. [PubMed]
- 22. Shah SH, Rajani K, Kataria L, Trivedi A, Patel S, Mehta K. Perception and prevalence of domestic violence in the study population. Ind Psychiatry J. 2012;21(2):137. [PubMed]
- 23. Sharma KK, Vatsa M, Kalaivani M, Bhardwaj D. Mental health effects of domestic violence against women in Delhi: A community-based study. J Fam Med Prim Care. 2019;8(7):2522. [PubMed]
- 24. Vachher AS, Sharma A. Domestic Violence Against Women and Their Mental Health Status in a Colony in Delhi. Indian J Community Med. 2010 Jul;35(3):403. [PubMed]
- 25. Ram A, Victor CP, Christy H, Hembrom S, Cherian AG, Mohan VR. Domestic Violence and its Determinants among 15-49-Year-Old Women in a Rural Block in South India. Indian J Community Med. 2019 Oct;44(4):362. [PubMed]
- 26. Sapkota D, Bhattarai S, Baral D, Pokharel PK. Domestic violence and its associated factors among married women of a village development committee of rural Nepal. BMC Res Notes 2016 91. 2016 Mar;9(1):1–9. [PubMed]
- 27. Ahmad J, Khan ME, Mozumdar A, Varma DS. Gender-Based Violence in Rural Uttar Pradesh, India: Prevalence and Association With Reproductive Health Behaviors. J Interpers Violence. 2016 May;31(19):3111-28. [PubMed]
- 28. Dahal P, Joshi SK, Swahnberg K. The prevalence of gender inequalities and violence in the eastern Nepal. Kathmandu Univ Med J. 2019 Oct 1;68(4):298-305. [Article]
- 29. Jayatilleke A, Tissera S, Pathirathne A, Udawatta B, Jayathilaka P, Senanayake L. 15 Feasibility of gender based violence screening and counselling in a sexual and reproductive health facility in Sri Lanka. Inj Prev. 2015 Apr;21(Suppl 2):A5-6. [PubMed]
- 30. Gibbs A, Corboz J, Chirwa E, Mann C, Karim F, Shafiq M, et al. The impacts of combined social and economic empowerment training on intimate partner violence, depression, gender norms and livelihoods among women: an individually randomised controlled trial and qualitative study in Afghanistan. BMJ Glob Heal. 2020 Mar;5(3):e001946. [PubMed]

- 31. Jewkes R, Corboz J, Gibbs A. Trauma exposure and IPV experienced by Afghan women: Analysis of the baseline of a randomised controlled trial. PLoS One. 2018 Oct;13(10):e0201974. [PubMed]
- 32. Yount KM, Crandall A, Cheong YF, Osypuk TL, Bates LM, Naved RT, et al. Child Marriage and Intimate Partner Violence in Rural Bangladesh: A Longitudinal Multilevel Analysis. Demography. 2016 Dec;53(6):1821-52. [PubMed]
- 33. Dalal K, Dahlström Ö, Timpka T. Interactions between microfinance programmes and non-economic empowerment of women associated with intimate partner violence in Bangladesh: a cross-sectional study. BMJ Open. 2013 Dec;3(12):e002941. [PubMed]
- 34. Esie P, Osypuk TL, Schuler SR, Bates LM. Intimate partner violence and depression in rural Bangladesh: Accounting for violence severity in a high prevalence setting. SSM -Popul Heal. 2019 Apr;7:100368. [PubMed]
- Parvin K, Sultana N, Naved RT. Disclosure and help seeking behavior of women exposed to physical spousal violence in Dhaka slums. BMC Public Heal 2016 161. 2016 May;16(1):1–8. [PubMed]
- 36. Rahman L, Mont J Du, O'Campo P, Einstein G. Intersectional community correlates of married women's experiences of male intimate partner physical violence in Bangladesh: a cross-sectional study. J Epidemiol Community Heal. 2020 Feb;74(2):182–9. [PubMed]
- Sambisa W, Angeles G, Lance PM, Naved RT, Thornton J. Prevalence and correlates of physical spousal violence against women in slum and nonslum areas of urban Bangladesh. J Interpers Violence. 2011 Aug; 26(13): 2592-618. [PubMed]
- Diamond-Smith N, Rudolph K. The association between uneven sex ratios and violence: Evidence from 6 Asian countries. PLoS One. 2018 Jul;13(6):e0197516. [PubMed]
- Shrivastava PS, Shrivastava SR. A Study of Spousal Domestic Violence in an Urban Slum of Mumbai. Int J Prev Med. 2013 Jan;4(1):27. [PubMed]
- Boyce SC, McDougal L, Silverman JG, Atmavilas Y, Dhar D, Hay K, et al. Associations of intimate partner violence with postnatal health practices in Bihar, India. BMC Pregnancy Childbirth 2017 171. 2017 Nov;17(1):1-14. [PubMed]
- 41. Chen GL, Silverman JG, Dixit A, Begum S, Ghule M, Battala M, et al. A cross-sectional analysis of intimate partner violence and family planning use in rural India. EClinicalMedicine. 2020 Apr;21:100318. [PubMed]
- 42. Nair N, Daruwalla N, Osrin D, Rath S, Gagrai S, Sahu R, et al. Community mobilisation to prevent violence against women and girls in eastern India through participatory learning and action with women's groups facilitated by accredited social health activists: a before-and-after pilot study. BMC Int Heal Hum Rights 2020 201. 2020 Mar;20(1):1-12. [PubMed]

- 43. Reed E, Saggurti N, Donta B, Ritter J, Dasgupta A, Ghule M, et al. Intimate partner violence among married couples in India and contraceptive use reported by women but not husbands. Int J Gynecol Obstet. 2016 Apr;133(1):22-5. [PubMed]
- 44. Silverman JG, Boyce SC, Dehingia N, Rao N, Chandurkar D, Nanda P, et al. Reproductive coercion in Uttar Pradesh, India: Prevalence and associations with partner violence and reproductive health. SSM - Popul Heal. 2019 Dec;9:100484. [PubMed]
- 45. Srinivasan M, Reddy MM, Sarkar S, Menon V. Depression, Anxiety, and Stress among Rural South Indian Women-Prevalence and Correlates: A Community-Based Study. J Neurosci Rural Pract. 2020 Mar;11(01):078-83. [PubMed]
- 46. Nepal G of. A study on gender-based violence conducted in selected rural districts of Nepal. Office of the Prime Minister and Council of Ministers Kathmandu, Nepal; 2012. [Article]
- 47. Gupta J, Cardoso LF, Ferguson G, Shrestha B, Shrestha PN, Harris C, et al. Disability status, intimate partner violence and perceived social support among married women in three districts of the Terai region of Nepal. BMJ Glob Heal. 2018 Oct;3(5):e000934. [PubMed]
- 48. Shai N, Pradhan GD, Chirwa E, Shrestha R, Adhikari A, Kerr-Wilson A. Factors associated with IPV victimisation of women and perpetration by men in migrant communities of Nepal. PLoS One. 2019 Jul;14(7):e0210258. [PubMed]
- 49. Yoshikawa K, Shakya TM, Poudel KC, Jimba M. Acceptance of Wife Beating and Its Association with Physical Violence towards Women in Nepal: A Cross-Sectional Study Using Couple's Data. PLoS One. 2014 Apr;9(4):e95829. [PubMed]
- 50. Puri M, Frost M, Tamang J, Lamichhane P, Shah I. The prevalence and determinants of sexual violence against young married women by husbands in rural Nepal. BMC Res Notes 2012 51. 2012 Jun;5(1):1-13. [PubMed]
- 51. Ali N, Ali F, Khuwaja A, Nanji K. Factors associated with intimate partner violence against women in a mega city of South-Asia: multi-centre cross-sectional study. Hong Kong Med J = Xianggang Yi Xue Za Zhi. 2014 Aug; 20(4).[PubMed]
- 52. Ali TS, Asad N, Mogren I, Krantz G. Intimate partner violence in urban Pakistan: prevalence, frequency, and risk factors. Int [Womens Health. 2011;3(1):105. [PubMed]
- 53. Jayatilleke A, Poudel KC, Sakisaka K, Yasuoka J, Jayatilleke AU, Jimba M. Wives' attitudes toward gender roles and their experience of intimate partner violence by husbands in Central Province, Sri Lanka. J Interpers Violence. 2011 May;26(3):414–32. [PubMed]
- 54. Puri M, Tamang J, Shah I. Suffering in silence: consequences of sexual violence within marriage among young women in Nepal. BMC Public Heal 2011 111. 2011 Jan;11(1):1–10. [PubMed]

- 55. Jewkes R, Fulu E, Naved RT, Chirwa E, Dunkle K, Haardörfer R, et al. Women's and men's reports of pastyear prevalence of intimate partner violence and rape and women's risk factors for intimate partner violence: A multicountry cross-sectional study in Asia and the Pacific. PLOS Med. 2017 Sep;14(9):e1002381. [PubMed]
- 56. Madhani FI, Karmaliani R, Patel C, Bann CM, McClure EM, Pasha O, et al. Women's Perceptions and Experiences of Domestic Violence: An Observational Study From Hyderabad, Pakistan. J Interpers Violence. 2017 [an; 32(1):76–100. [PubMed]
- 57. Bhusal BR, Bhandari N. Identifying the factors associated with depressive symptoms among postpartum mothers in Kathmandu, Nepal. Int J Nurs Sci. 2018 Jul;5(3):268-74. [PubMed]
- 58. Das S, Bapat U, Shah More N, Alcock G, Joshi W, Pantvaidya S, et al. Intimate partner violence against women during and after pregnancy: a cross-sectional study in Mumbai slums. BMC Public Health. 2013 Sep;13:817. [PubMed]
- Shrestha M, Shrestha B. Domestic violence among antenatal attendees in a Kathmandu hospital and its associated factors: a cross-sectional study. BMC Pregnancy Childbirth. 2016 Nov;16(1):360. [PubMed]
- 60. Gurung S, Acharya J. Factor Influencing Gender Based Violence among Pregnant Women Attending Antenatal Clinic in PHC of Syangja District, Nepal. Makara J Heal Res. 2016;19(3). [PubMed]
- 61. Islam MJ, Broidy L, Baird K, Mazerolle P. Intimate partner violence around the time of pregnancy and postpartum depression: The experience of women of Bangladesh. PLoS One. 2017 May;12(5):e0176211. [PubMed]
- 62. Ferdos J, Rahman MM. Maternal experience of intimate partner violence and low birth weight of children: A hospital-based study in Bangladesh. PLoS One. 2017 Oct;12(10):e0187138. [PubMed]
- 63. Garg S, Singh MM, Rustagi R, Engtipi K, Bala I. Magnitude of domestic violence and its socio-demographic correlates among pregnant women in Delhi. J Fam Med Prim care. 2019 Nov;8(11):3634–9. [PubMed]
- 64. Silverman JG, Fonseka RW, Dehingia N, Boyce SC, Chandurkar D, Singh K, et al. Associations between recent intimate partner violence and receipt and quality of perinatal health services in Uttar Pradesh. PLoS One. 2020;15(5):e0232079. [PubMed]
- 65. Marimuthu Y, Sarkar S, Kattimani S, Krishnamoorthy Y, Nagappa B. Role of Social Support and Spouse Abuse in Low Birth Weight: A Case-control Study from Puducherry, India. Indian J Community Med. 2019 Jan;44(1):12. [PubMed]
- 66. Raj A, Sabarwal S, Decker MR, Nair S, Jethva M, Krishnan S, et al. Abuse from in-laws during pregnancy and postpartum: qualitative and quantitative findings from lowincome mothers of infants in Mumbai, India. Matern Child Health J. 2011 Aug;15(6):700-12. [PubMed]
- 67. Sheeba B, Nath A, Metgud CS, Krishna M, Venkatesh S,

- Vindhya J, et al. Prenatal Depression and Its Associated Risk Factors Among Pregnant Women in Bangalore: A Hospital Based Prevalence Study. Front Public Heal. 2019;0(APR):108. [PubMed]
- 68. Priya A, Chaturvedi S, Bhasin SK, Bhatia MS, Radhakrishnan G. Are pregnant women also vulnerable to domestic violence? A community based enquiry for prevalence and predictors of domestic violence among pregnant women. J Fam Med Prim care. 2019 May;8(5):1575–9. [PubMed]
- 69. Waqas A, Zubair M, Zia S, Meraj H, Aedma KK, Majeed MH, et al. Psychosocial predictors of antenatal stress in Pakistan: perspectives from a developing country. BMC Res Notes 2020 131. 2020 Mar; 13(1):1-6. [PubMed]
- 70. Azad R, Fahmi R, Shrestha S, Joshi H, Hasan M, Khan ANS, et al. Prevalence and risk factors of postpartum depression within one year after birth in urban slums of Dhaka, Bangladesh. PLoS One. 2019 May;14(5):e0215735. [PubMed]
- 71. Pun KD, Rishal P, Darj E, Infanti JJ, Shrestha S, Lukasse M, et al. Domestic violence and perinatal outcomes a prospective cohort study from Nepal. BMC Public Health. 2019 Dec; 19(1):671. [PubMed]
- 72. Silverman JG, Balaiah D, Decker MR, Boyce SC, Ritter J, Naik DD, et al. Family Violence and Maltreatment of Women During the Perinatal Period: Associations with Infant Morbidity in Indian Slum Communities. Matern Child Health J. 2016 [an;20(1):149-57. [PubMed]
- 73. Muzrif MM, Perera D, Wijewardena K, Schei B, Swahnberg K. Domestic violence: a cross-sectional study among pregnant women in different regions of Sri Lanka. BMJ Open. 2018 Feb;8(2):e017745. [PubMed]
- 74. Swain SN, Saggurti N, Battala M, Verma RK, Jain AK. Experience of violence and adverse reproductive health outcomes, HIV risks among mobile female sex workers in India. BMC Public Health. 2011;11. [PubMed]
- 75. Go VF, Srikrishnan AK, Parker CB, Salter M, Green AM, Sivaram S, et al. High prevalence of forced sex among non-brothel based, wine shop centered sex workers in Chennai, India. AIDS Behav. 2011 Jan;15(1):163-71. [PubMed]
- 76. Silverman JG, Saggurti N, Cheng DM, Decker MR, Coleman SM, Bridden C, et al. Associations of sex trafficking history with recent sexual risk among HIVinfected FSWs in India. AIDS Behav. 2014;18(3):555-61. [PubMed]
- 77. Patel SK, Ganju D, Prabhakar P, Adhikary R. Relationship between mobility, violence and major depression among female sex workers: a cross-sectional study in southern India. BMJ Open. 2016;6(9):e011439. [PubMed]
- 78. Beksinska A, Prakash R, Isac S, Mohan HL, Platt L, Blanchard J, et al. Violence experience by perpetrator and associations with HIV/STI risk and infection: a crosssectional study among female sex workers in Karnataka, south India. BMJ Open. 2018;8(9):e021389. [PubMed]

- 79. Heylen E, Shamban E, Steward WT, Krishnan G, Solomon R, Srikrishnan AK, et al. Alcohol Use and Experiences of Partner Violence Among Female Sex Workers in Coastal Andhra Pradesh, India. Violence Against Women. 2019 Mar;25(3):251-73. [PubMed]
- Javalkar P, Platt L, Prakash R, Beattie T, Bhattacharjee P, Thalinja R, et al. What determines violence among female sex workers in an intimate partner relationship? Findings from North Karnataka, south India. BMC Public Health. 2019 Mar;19(1). [PubMed]
- 81. Aryal N, Regmi PR, Mudwari NR. Violence against Women Living with HIV: A Cross Sectional Study in Nepal. Glob J Health Sci. 2012;4(3):117. [PubMed]
- 82. Bondade S, Iyengar RS, Shivakumar BK, Karthik KN. Intimate partner violence and psychiatric comorbidity in infertile women-A cross-sectional hospital based study. Indian journal of psychological medicine. 2018 Nov;40(6):540-6.[PubMed]
- 83. Abadi MH, Shamblen SR, Johnson K, Thompson K, Young L, Courser M, et al. Examining human rights and mental health among women in drug abuse treatment centers in Afghanistan. Int J Womens Health. 2012 Apr;4(1):155. [PubMed]
- Mehta KG, Baxi R, Patel S, Chavda P, Mazumdar V. Stigma, Discrimination, and Domestic Violence Experienced by Women Living with HIV: A Cross-sectional Study from Western India. Indian J Community Med. 2019 Oct;44(4):373. [PubMed]
- Suryavanshi N, Naik S, Waghmare S, Gupte N, Khan S, Mave V, et al. Gender-based violence screening methods preferred by women visiting a public hospital in Pune, India. BMC Women's Heal 2018 181. 2018 Jan; 18(1):1-5. [PubMed]
- 86. Pearson E, Andersen KL, Biswas K, Chowdhury R, Sherman SG, Decker MR. Intimate partner violence and constraints to reproductive autonomy and reproductive health among women seeking abortion services in Bangladesh. Int J Gynecol Obstet. 2017 Mar;136(3):290-7. [PubMed]
- 87. Bandara P, Page A, Senarathna L, Kidger J, Feder G, Gunnell D, et al. Domestic violence and self-poisoning in Sri Lanka. Psychol Med. 2020;1–9. [PubMed]
- 88. Ansari A, Urooz U, Waseem M. Gender Based Violence (GBV) Data Collection and Gynaecologist's Perspective in a tertiary care hospital. Pakistan J Med Heal Sci. 2018;12(4):1587–90. [Article]
- Puri M, Misra G, Hawkes S. Hidden voices: prevalence and risk factors for violence against women with disabilities in Nepal. BMC Public Heal 2015 151. 2015 Mar;15(1):1–11. [PubMed]
- Pathiraja DY, Pathiraja RP, Senanayake L, Edirisinghe RM, Mapitigama N. Gender-based violence: Experiences from two tertiary care settings in Sri Lanka. F1000Research. 2020;9. [PubMed]
- 91. Gibbs A, Jewkes R, Willan S, Al Mamun M, Parvin K,

- Yu M, et al. Workplace violence in Bangladesh's garment industry. Soc Sci Med. 2019 Aug;235:112383. [PubMed]
- 92. Decker MR, Peitzmeier S, Olumide A, Acharya R, Ojengbede O, Covarrubias L, et al. Prevalence and Health Impact of Intimate Partner Violence and Nonpartner Sexual Violence Among Female Adolescents Aged 15–19 Years in Vulnerable Urban Environments: A Multi-Country Study. J Adolesc Heal. 2014 Dec;55(6):S58-67. [PubMed]
- 93. Unnikrishnan B, Rekha T, Kumar G, Reshmi B, Mithra P, Sanjeev B. Harassment among Women at Workplace: A Cross-Sectional Study in Coastal South India. Indian J Community Med. 2010 Apr;35(2):350. [PubMed]
- 94. Nadkarni A, Dean K, Weiss HA, Patel V. Prevalence and correlates of perpetration of violence among young people: A population-based survey from Goa, India. Asia-Pacific J Public Heal. 2015 Aug;27(2):NP2512-20. [PubMed]

- 95. Gautam N, Anand T, Kishore J, Grover S. Experience of violence amongst female medical and nursing students and their perception regarding violence against women in Delhi, India. Int J Adolesc Med Health. 2020 Jun;32(3). [PubMed]
- 96. Dema T, Tripathy JP, Thinley S, Rani M, Dhendup T, Laxmeshwar C, et al. Suicidal ideation and attempt among school going adolescents in Bhutan – a secondary analysis of a global school-based student health survey in Bhutan 2016. BMC Public Heal 2019 191. 2019 Dec;19(1):1-12. [PubMed]