

THE LANCET

Global Health

Supplementary appendix 2

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: Wang Y, Fu Y, Ghazi P, et al. Prevalence of intimate partner violence against infertile women in low-income and middle-income countries: a systematic review and meta-analysis. *Lancet Glob Health* 2022; **10**: e820–30.

Search strategy used in each database

PubMed (Controlled Vocabulary)

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	"Domestic Violence"[MeSH Terms] OR "Intimate Partner Violence"[MeSH Terms] OR "Gender-Based Violence"[MeSH Terms] OR "Torture"[MeSH Terms] OR "Physical Abuse"[MeSH Terms] OR "Emotional Abuse"[MeSH Terms] OR "Sex Offenses"[MeSH Terms] OR "Hostility"[Mesh]	70,276
2	"infertility"[MeSH]	69,132
3	Step 1 AND Step 2	77

PubMed (All Field Vocabulary)

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	Violence OR Abuse OR Maltreatment OR Mistreatment	492,795
2	Spouse OR Spousal OR "Intimate Partner" OR Domestic OR Marital OR Family OR Familial OR "Gender Based"	1,765,070
3	Infertility OR Infertile OR Sterile OR sterility OR Infecundity OR Childlessness OR "fertility issue"	222,683
4	Step 1 AND Step 2 AND Step 3	443

PsycINFO [EBSCO](Controlled Vocabulary)

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	DE "Dating Violence" OR DE "Intimate Partner Violence" OR DE "Sex Offenses" OR DE "Domestic Violence" OR DE "Emotional Abuse" OR DE "Physical Abuse" OR DE "Torture" OR DE "Verbal Abuse" OR DE "Hostility"	51,854
2	(DE "Infertility") OR (DE "Childlessness")	2,840
3	Step 1 AND Step 2	14

PsycINFO [EBSCO] (All Text Vocabulary)

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	Violence* OR Abuse* OR Maltreatment OR Mistreatment	325,894
2	Spous* OR "Intimate Partner*" OR Domestic* OR Marital* OR Family OR Familial OR "Gender Based"	599,802
3	Infertility OR Infertile OR Sterile OR sterility OR Infecundity OR Childlessness OR "fertility issue"	6,683
4	Step 1 AND Step 2 AND Step 3	83
5	TX("Domestic violence*" OR "intimate partner violence*" OR "domestic abuse*" OR "marital violence*" OR "spouse abuse*" OR "spousal violence*" OR "maltreatment" OR "mistreatment")	43,861
6	TX("Infertility" OR "infertile" OR "fertility issue*" OR "sterility" OR "sterile" OR "infecundity" OR "childlessness")	6,738

7	Step 5 AND Step 6	32
8	Step 4 OR Step 7	87

CINAHL Plus [EBSCO] (All Field Vocabulary)

On October 16, 2021

Published by September 30, 2021

Step	Searches	Results
1	(MH "Domestic Violence") OR (MH "Dating Violence") OR (MH "Gender-Based Violence") OR (MH "Torture") OR (MH "Verbal Abuse") OR (MH "Sexual Abuse") OR (MH "Emotional Abuse")	20,994
2	(MH "Infertility") OR (MH "Childlessness")	13,048
3	Step 1 AND Step 2	36

CINAHL Plus [EBSCO] (All Field Vocabulary)

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	Violence* OR Abuse* OR Maltreatment OR Mistreatment	173,013
2	Spous* OR "Intimate Partner*" OR Domestic* OR Marital* OR Family OR Familial OR "Gender Based"	453,699
3	Infertility OR Infertile OR Sterile OR sterility OR Infecundity OR Childlessness OR "fertility issue*"	25,662
4	Step 1 AND Step 2 AND Step 3	83
5	TX("Domestic violence*" OR "intimate partner violence*" OR "domestic abuse*" OR "marital violence*" OR "spouse abuse*" OR "spousal violence*" OR "maltreatment" OR "mistreatment")	44,872
6	TX("Infertility" OR "infertile" OR "fertility issue*" OR "sterility" OR "sterile" OR "infecundity" OR "childlessness")	67,058
7	Step 5 AND Step 6	692
8	Step 4 OR Step 7	725

EMBASE [Elsevier]

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	'domestic violence'/exp OR 'emotional abuse'/exp OR 'financial abuse'/exp OR 'physical abuse'/exp OR 'sexual abuse'/exp OR 'sexual crime'/exp OR 'gender based violence'/exp OR 'torture'/exp OR 'verbal hostility'/exp OR 'maltreatment'/exp	92,394
2	'infertility'/exp OR 'childlessness'/exp	139,873
3	Step 1 AND Step 2	220
4	violence*:ti,ab,kw OR abuse*:ti,ab,kw OR maltreatment:ti,ab,kw OR mistreatment:ti,ab,kw	254,654
5	spous*:ti,ab,kw OR 'intimate partner*':ti,ab,kw OR domestic*:ti,ab,kw OR marital*:ti,ab,kw OR family:ti,ab,kw OR familial:ti,ab,kw OR 'gender based':ti,ab,kw	1,424,404
6	infertility:ti,ab,kw OR infertile:ti,ab,kw OR sterile:ti,ab,kw OR sterility:ti,ab,kw OR infecundity:ti,ab,kw OR childlessness:ti,ab,kw OR 'fertility issue*':ti,ab,kw	186,191
7	Step 4 AND Step 5 AND Step 6	160
8	Step 3 OR Step 7	313

MEDLINE [Ovid]

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	exp domestic violence/ or exp gender-based violence/ or exp intimate partner violence/ or exp physical abuse/ or exp torture/ or exp emotional abuse/ or exp sex offenses/ or exp hostility/	70,257
2	exp Infertility/	69,120
3	Step 1 AND Step 2	77
4	(Violence* or Abuse* or Maltreatment or Mistreatment).mp.	247,386
5	(Spous* or Intimate Partner* or Domestic* or Marital* or Family or Familial or Gender Based).mp.	1,337,151
6	(Infertility or Infertile or Sterile or sterility or Infecundity or Childlessness or fertility issue*).mp.	152,303
7	Step 4 AND Step 5 AND Step 6	153
8	Step 3 OR Step 7	195

WEB of SCIENCE (All Databases)

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	"Domestic violence*" OR "intimate partner violence*" OR "domestic abuse*" OR "marital violence*" OR "spouse abuse*" OR "spousal violence*" OR "maltreatment" OR "mistreatment" OR "gender-based violence" OR "physical abuse" OR "emotional abuse" OR "sexual abuse" OR "verbal abuse" (Topic)	101,775
2	"Infertility" OR "infertile" OR "fertility issue*" OR "sterility" OR "sterile" OR "infecundity" OR "childlessness" (Topic)	633,535
3	Step 1 AND Step 2	184
4	"Violence*" OR "Abuse*" OR "Maltreatment" OR "Mistreatment" (Topic)	593,744
5	"Spous*" OR "Intimate Partner*" OR "Domestic*" OR "Marital*" OR "Family" OR "Familial" OR "Gender Based" (Topic)	4,304,255
6	"Infertility" OR "infertile" OR "fertility issue*" OR "sterility" OR "sterile" OR "infecundity" OR "childlessness" (Topic)	633,535
7	Step 4 AND Step 5 AND Step 6	284
8	Step 3 OR Step 7	328

ProQuest Dissertations & Theses Global

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	mainsubject.Exact("adult abuse & neglect" OR "emotional abuse" OR "torture" OR "domestic violence" OR "violence" OR "Hostility")	2,652
2	mainsubject.Exact("childlessness" OR "infertility")	275
3	Step 1 AND Step 2	1
4	AB, TI, IF(Violence* OR Abuse* OR Maltreatment OR Mistreatment)	70,029
5	AB, TI, IF(Spous* OR "Intimate Partner*" OR Domestic* OR Marital* OR Family OR Familial OR "Gender Based")	356,015
6	AB, TI, IF(Infertility OR Infertile OR Sterile OR sterility OR Infecundity OR Childlessness OR "fertility issue*")	9,055

7	Step 4 AND Step 5 AND Step 6	24
8	Step 3 OR Step 7	24

ProQuest International Bibliography of the Social Sciences

On October 19, 2021

Published by September 30, 2021

Step	Searches	Results
1	mainsubject.Exact("adult abuse & neglect" OR "emotional abuse" OR "physical abuse" OR "abuse" OR "verbal abuse" OR "marital rape" OR "violence against women" OR "adult abuse neglect" OR "hostility" OR "spouse abuse" OR "sexual abuse" OR "abuse of women" OR "abused women" OR "adult abuse" OR "domestic abuse" OR "torture" OR "intimate partner violence" OR "domestic violence" OR "violence")	65,350
2	mainsubject.Exact("sterility" OR "childlessness" OR "infertility, male" OR "infertility" OR "infertility, female")	1,509
3	Step 1 AND Step 2	27
4	AB, TI, IF (Violence* OR Abuse* OR Maltreatment OR Mistreatment)	87,129
5	AB, TI, IF (Spous* OR "Intimate Partner*" OR Domestic* OR Marital* OR Family OR Familial OR "Gender Based")	245,590
6	AB, TI, IF (Infertility OR Infertile OR Sterile OR sterility OR Infecundity OR Childlessness OR "fertility issue*")	2,327
7	Step 4 AND Step 5 AND Step 6	18
8	Step 3 OR Step 7	42

Chinese Wanfang Database (All Databases)

Including China Online Journals, Dissertations of China (DOC), Academic Conferences in China (ACIC), Chinese Patents, Chinese Standards, Chinese Companies & Products, Policies and Laws of China (PLOC), Chinese Scientific Institutes, New China Local Gazetteers.

On October 20, 2021

Published by September 30, 2021

Step	Searches (Professional search)	Results
1	(主题="不孕" OR 主题="不育" OR 主题="生育障碍" OR 主题="生育问题" OR 主题="生殖健康" OR 主题="infertility" OR 主题="infertile" OR 主题="sterile" OR 主题="sterility" OR 主题="infecundity" OR 主题="childlessness" OR 主题="fertility issue") AND (主题="配偶" OR 主题="伴侣" OR 主题="家庭" OR 主题="婚姻" OR 主题="妻子" OR 主题="spouse" OR 主题="intimate partner" OR 主题="domestic" OR 主题="marital" OR 主题="family" OR 主题="familial" OR 主题="gender based") AND (主题="暴力" OR 主题="虐待" OR 主题="虐妻" OR 主题="施暴" OR 主题="强奸" OR 主题="殴打" OR 主题="侮辱" OR 主题="谩骂" OR 主题="violence" OR 主题="abuse" OR 主题="maltreatment" OR 主题="mistreatment")	190

主题--- Indicates title, keyword and abstract

Chinese CNKI Database

Including Journal, Thesis & Dissertation, Proceedings, Newspaper, Yearbook, Monographic Serials, Patents, Standards.

On October 20, 2021

Published by September 30, 2021

Limits: Chinese only

Step	Searches (Professional search)	Results
1	TKA=(暴力+虐待+虐妻+施暴+强奸+殴打+辱骂+谩骂 +'violence'+abuse'+maltreatment'+mistreatment)*('配偶'+伴侣 +'家庭'+婚姻'+妻子'+spouse'+intimate partner'+domestic'+marital'+family'+familial'+gender based)*('不 孕'+不育'+生育障碍'+生育问题'+生殖健康 +'infertility'+infertile'+sterile'+sterility'+infecundity'+childlessn ess'+fertility issue) 限定: 中文文献	123

TKA --- Indicates title, keyword and abstract

SU --- Indicates subject words

China Biology Medicine Database (CBM)

CBM contains nearly 3000 Chinese biomedical journals, as well as literature records of compilation and conference papers. It is an important tool for retrieving Chinese medical literatures.

On October 20, 2021

Published by September 30, 2021

Step	Searches	Results
1	"家庭暴力"[不加权:扩展] OR "亲密伴侣暴力"[不加权:扩展] OR "身体虐待"[不加权:扩展] OR "暴力遭遇"[不加权:扩展] OR "强奸"[不加权:扩展] OR "虐待"[不加权:扩展]	1376
2	"不育"[不加权:扩展] OR "生殖健康"[不加权:扩展]	46794
3	Step 1 AND Step 2	4
4	"暴力"[常用字段:智能] OR "虐待"[常用字段:智能] OR "虐妻" "[常用字段:智能] OR "施暴"[常用字段:智能] OR "强奸"[常用 字段:智能] OR "殴打"[常用字段:智能] OR "侮辱"[常用字段:智 能] OR "谩骂"[常用字段:智能] OR violence% [常用字段:智能] OR abuse% [常用字段:智能] OR maltreatment[常用字段:智能] OR mistreatment[常用字段:智能]	10692
5	"配偶"[常用字段:智能] OR "伴侣"[常用字段:智能] OR "家庭" "[常用字段:智能] OR "婚姻"[常用字段:智能] OR "妻子"[常用 字段:智能] OR spous% [常用字段:智能] OR intimate partner% [常 用字段:智能] OR domestic% [常用字段:智能] OR marital% [常用 字段:智能] OR family[常用字段:智能] OR familial[常用字段:智 能] OR gender based[常用字段:智能]	221018
6	"不孕"[常用字段:智能] OR "不育"[常用字段:智能] OR "生育障 碍"[常用字段:智能] OR "生育问题"[常用字段:智能] OR "生殖 健康"[常用字段:智能] OR infertility[常用字段:智能] OR infertile[常用字段:智能] OR sterile[常用字段:智能] OR sterility[常用字段:智能] OR infecundity[常用字段:智能] OR childlessness[常用字段:智能] OR fertility issue% [常用字段:智 能]	68114
7	Step 4 AND Step 5 AND Step 6	38
8	Step 3 OR Step 7	40

[不加权:扩展]--- Indicates Controlled Vocabulary

[常用字段:智能] --- Indicates title, abstract, keyword and subject word

Table S1: PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) checklist¹ of this review

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Page 1
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 3-4
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 7-8
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 8
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page 8-9, Figure 1
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	Page 8-9
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page 8-9, Appendix 2
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Page 9
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	Page 9-10
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	Page 9-12
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Page 9-12
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Page 10
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	Page 11-12

Section and Topic	Item #	Checklist item	Location where item is reported
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Page 11-12
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Page 11-12
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 11-12
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Page 11-12
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	Page 11-12
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Page 11-12
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	Page 11-12
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Page 11-12
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	Page 12-13, Figure 1
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 12-13
Study characteristics	17	Cite each included study and present its characteristics.	Page 12-13, Table 1
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Page 13-14, Table 1
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	Table 1
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Page 14-15, Figure 2-3, Table 1

Section and Topic	Item #	Checklist item	Location where item is reported
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	Page 14-15, Figure 2-3, Appendix 7-18
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Page 14-15, Appendix 7-18
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Page 14-15, Appendix 7-18
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Page 14-15, Appendix 7-18
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Page 14-15, Appendix 7-18
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page 16-20
	23b	Discuss any limitations of the evidence included in the review.	Page 16-20
	23c	Discuss any limitations of the review processes used.	Page 20
	23d	Discuss implications of the results for practice, policy, and future research.	Page 16-20
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Page 3, 8
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 3, 8
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	NA
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 4, 12, 21
Competing interests	26	Declare any competing interests of review authors.	Page 20
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Page 21, Supplementary file

Table S2: The 10-item Hoy Risk of Bias Tool²

Scoring standard for each item: 1 point = low risk; 0 point = high risk			Score
External validity	1	Was the study's target population a close representation of the national population (subnational or city) in relation to relevant variables such as age, sex, occupation?	
	2	Was the sampling frame a true or close representation of the target population?	
	3	Was some form of random selection used to select the sample, or was a census undertaken?	
	4	Was the likelihood of non-response bias minimal?	
Internal validity	5	Were data collected directly from the subjects (as opposed to a proxy)?	
	6	Was an acceptable case definition used in the study?	
	7	Was the study instrument that measured the parameter of interest shown to have reliability and validity (if necessary)?	
	8	Was the same mode of data collection used for all subjects?	
	9	Was the length of the shortest prevalence period for the parameter of interest appropriate?	
	10	Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	
Total score			

Table S3: Agreement on 30 eligible references for systematic review across the two reviewers on each item in the 10-item literature quality assessment tool

Item Number	Kappa	Agreement (%)
1	0.714	93.33%
2	0.737	90.00%
3	0.737	90.00%
4	0.866	93.33%
5	1.000	100.00%
6	1.000	100.00%
7	0.783	96.67%
8	1.000	100.00%
9	1.000	100.00%
10	1.000	100.00%
Mean	0.884	96.33%

Table S4: Score value of each article rated by the two reviewers

Article	Reviewer 1	Reviewer 2	Mean	Risk of bias
Leung et al., 2005 ³	6	6	6	High
Sami and Ali, 2006 ⁴	6	6	6	High
Li et al., 2005 ⁵	10	10	10	Low
Guo et al., 2006 ⁶	10	10	10	Low
Yildizhan et al., 2009 ⁷	6	6	6	High
Dhont et al., 2011 ⁸	9	10	9.5	Low
Omoaregba et al., 2011 ⁹	6	6	6	High
Edirne et al., 2010 ¹⁰	6	6	6	High
Ardabily et al., 2011 ¹¹	6	6	6	High
Aduloju et al., 2015 ¹²	6	6	6	High
Farzadi et al., 2014 ¹³	6	6	6	High
Iliyasu et al., 2016 ¹⁴	9	9	9	Low
Sahin et al., 2018 ¹⁵	7	8	7.5	Moderate
Satheesan and Satyanarayana, 2018 ¹⁶	7	7	7	Moderate
Akpınar et al., 2019 ¹⁷	6	6	6	High
Rahebi et al., 2019 ¹⁸	9	8	8.5	Moderate
Alijani et al., 2019 ¹⁹	6	6	6	High
Bondade et al., 2018 ²⁰	6	8	7	Moderate
Sis Çelik and Kırca, 2018 ²¹	10	9	9.5	Low
Ghoneim et al., 2021 ²²	7	7	7	Moderate
Poornowrooz et al., 2019 ²³	6	6	6	High
Coşkun Potur et al., 2019 ²⁴	7	9	8	Moderate
Ghaly et al., 2019 ²⁵	6	6	6	High
Silwal and Thapa, 2020 ²⁶	7	6	6.5	High
Nabi et al., 2020 ²⁷	7	7	7	Moderate
Akyüz et al., 2013 ²⁸	7	7	7	Moderate
Akyüz et al., 2014 ²⁹	7	7	7	Moderate
Taebi et al., 2016 ³⁰	6	6	6	High
Sheikhan et al., 2014 ³¹	6	6	6	High
Mansour and Mohdy, 2018 ³²	6	6	6	High

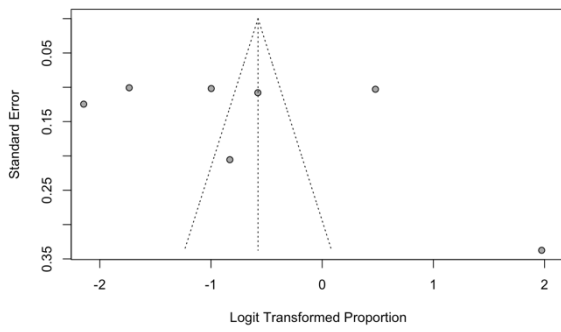
Studies with a mean score of ≥ 9 , ≥ 7 and < 9 , and < 7 points were considered to have low, moderate, and high risk of bias, respectively.

Table S5: Nine assessment tools used in the selected studies included in systematic review

Assessment tool	Description
Abuse Assessment Screen ^{3,7,12,17}	This is a five-item questionnaire to identify current or previous physical, sexual, and psychological abuse perpetrated against women or men.
Infertile Women's Exposure to Violence Determination Scale ^{21,24,25}	The 5-point Likert-type scale consists of 31 items and five subscales: domestic violence (11 items), social pressure (7 items), punishment (6 items), exposure to traditional practices (4 items), and exclusion (3 items). Each item is scored ranging from 1-never, to 5-all the time. The total score of the full scale and each subscale is calculated by adding up points from each item. For the full scale, the minimum score that can be attained is 31, while the maximum is 155. A higher score means more exposure to violence.
WHO violence against women instrument ^{18,20,27}	This instrument was developed for use in the WHO Multi-country Study on Women's Health and Domestic Violence against Women. Questions on partner violence measures aspects of controlling behaviors, emotional abuse, physical violence, and sexual violence.
Revised Conflict Tactics Scales ^{11,14,19}	This is 78-item scale that assesses both victimization and perpetration. The 39-item victimization scale includes 5 subscales that measure the frequency of physical assault, psychological aggression, sexual coercion, negotiation, and injury between partners.
Scale for marital violence against women ^{28,29}	This is 50 items instrument developed for the Turkish population. It includes five subgroups: physical violence, emotional violence, verbal violence, economic violence, and sexual violence. The total score indicates the level of marital violence against the women. The SMVW consists of positive and negative statements. Positive statements are scored between 1 (never), 2 (sometimes) and 3 (always), while negative statements are scored in reverse. Participants
Partner Abuse Scale: Non-physical ³⁰	were asked to indicate the statement most appropriate to themselves. The minimum score is 50, and the maximum is 150. PASNP is a 25-item tool that measure the degree or severity of non-physical behavioral abuse delivered to the clients by their spouse or partner. The scale produces scores that range from 0 to 100.
Domestic Violence Questionnaire ¹⁶	This is an open-ended question which covers following themes: women's power within marriage and implications for health, types of domestic conflict, and violence-related triggers, sources of support, and community norms.
NorVold Domestic Abuse Questionnaire ²²	The NORAQ measures four types of abuse: emotional, physical, sexual, and violence in the healthcare system. The content of the questions ranged from mild to severe lifetime abuse.
Domestic Violence Inventory ²³	This questionnaire has been used to measure spouse abuse in women and evaluate three dimensions of violence: physical, sexual and emotional violence. This questionnaire consists of 36 items covering 12 items in physical violence, 9 items in sexual violence and 15 items in emotional violence.

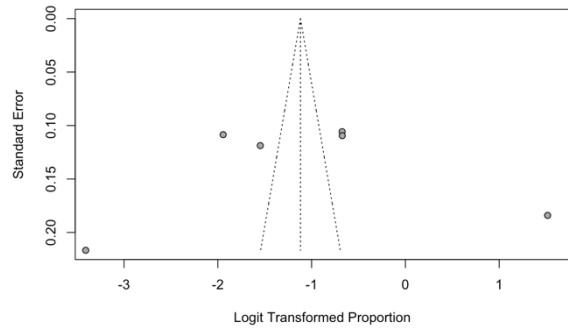
Figure S1: Funnel plots and Egger's tests of past-12-month IPV prevalence

(A) Overall violence



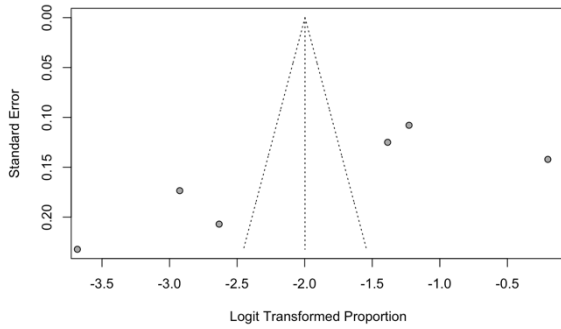
	Intercept	t	p
Egger's test	6.66	0.61	0.57

(B) Psychological violence



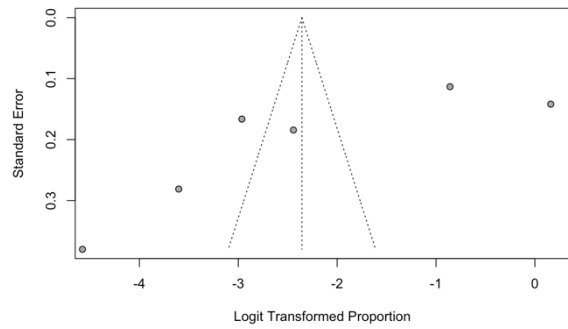
	Intercept	t	p
Egger's test	0.38	0.02	0.98

(C) Physical violence



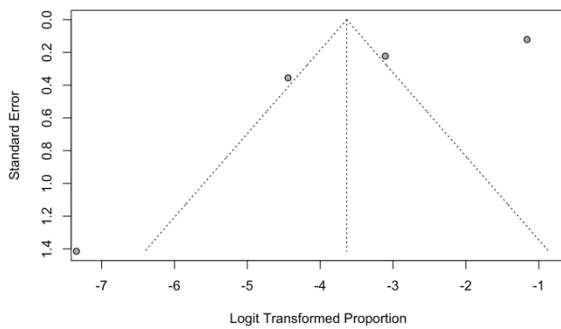
	Intercept	t	p
Egger's test	-19.36	-2.19	0.09

(D) Sexual violence



	Intercept	t	p
Egger's test	-17.58	-2.30	0.08

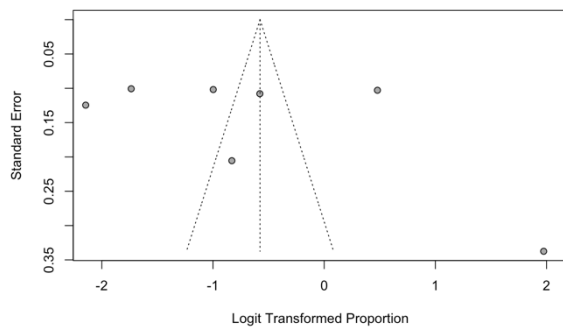
(E) Economic coercion



	Intercept	t	p
Egger's test	-8.58	-2.18	0.16

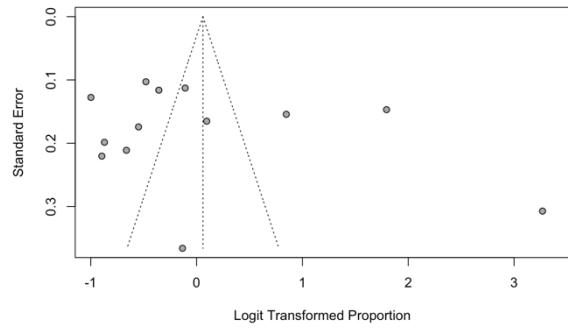
Figure S2: Funnel plots and Egger's tests of lifetime IPV prevalence

(A) Overall violence



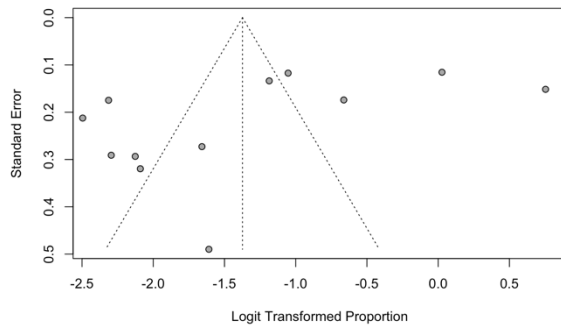
	Intercept	t	p
Egger's test	-10.39	-1.84	0.10

(B) Psychological violence



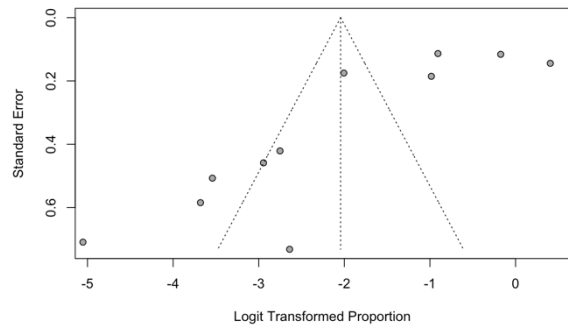
	Intercept	t	p
Egger's test	4.52	0.85	0.41

(C) Physical violence



	Intercept	t	p
Egger's test	-7.89	-1.96	0.08

(D) Sexual violence



	Intercept	t	p
Egger's test	-6.88	-3.34	0.01

Table S6: IPV prevalence in past 12 months by calendar year (before and after 2010)

	Statistics for each study	
	Prevalence estimate	95% CI
2010 and before		
<i>Overall violence</i>		
Li et al., 2005 ⁵	0.105	0.083-0.130
Guo et al., 2006 ⁶	0.269	0.231-0.311
Edirne et al., 2010 ¹⁰	0.878	0.787-0.940
Ardabily et al., 2011 ¹¹	0.618	0.568-0.665
Subgroup total ($I^2=99.1\%$)	0.450	0.175-0.760
<i>Psychological violence</i>		
Li et al., 2005 ⁵	0.032	0.020-0.048
Guo et al., 2006 ⁶	0.176	0.143-0.212
Ardabily et al., 2011 ¹¹	0.338	0.291-0.386
Subgroup total ($I^2=98.5\%$)	0.134	0.042-0.355
<i>Physical violence</i>		
Li et al., 2005 ⁵	0.051	0.036-0.070
Guo et al., 2006 ⁶	0.227	0.190-0.266
Ardabily et al., 2011 ¹¹	0.200	0.162-0.243
Subgroup total ($I^2=97.3\%$)	0.137	0.061-0.283
<i>Sexual violence</i>		
Li et al., 2005 ⁵	0.010	0.004-0.021
Guo et al., 2006 ⁶	0.027	0.014-0.045
Ardabily et al., 2011 ¹¹	0.080	0.055-0.111
Subgroup total ($I^2=93.5\%$)	0.029	0.009-0.092
<i>Economic coercion</i>		
Li et al., 2005 ⁵	0.012	0.005-0.023
Guo et al., 2006 ⁶	0.043	0.027-0.065
Subgroup total ($I^2=90.1\%$)	0.023	0.006-0.080
After 2010		
<i>Overall violence</i>		
Iliyasu et al., 2016 ¹⁴	0.359	0.311-0.410
Sahin et al., 2018 ¹⁵	0.150	0.125-0.177
Silwal and Thapa, 2020 ²⁶	0.304	0.220-0.398
Subgroup total ($I^2=96.9\%$)	0.259	0.133-0.442
<i>Psychological violence</i>		
Farzadi et al., 2014 ¹³	0.820	0.760-0.871
Iliyasu et al., 2016 ¹⁴	0.338	0.290-0.388
Sahin et al., 2018 ¹⁵	0.125	0.103-0.151
Subgroup total ($I^2=99.3\%$)	0.408	0.114-0.787
<i>Physical violence</i>		
Farzadi et al., 2014 ¹³	0.450	0.380-0.522
Iliyasu et al., 2016 ¹⁴	0.067	0.044-0.097
Sahin et al., 2018 ¹⁵	0.025	0.015-0.038
Subgroup total ($I^2=99.0\%$)	0.103	0.013-0.501
<i>Sexual violence</i>		
Farzadi et al., 2014 ¹³	0.540	0.468-0.611
Iliyasu et al., 2016 ¹⁴	0.298	0.252-0.347
Sahin et al., 2018 ¹⁵	0.049	0.035-0.067
Subgroup total ($I^2=99.0\%$)	0.228	0.056-0.595
<i>Economic coercion</i>		
Iliyasu et al., 2016 ¹⁴	0.239	0.196-0.285
Sahin et al., 2018 ¹⁵	0.000	0.000-0.005
Subgroup total ($I^2=94.7\%$)	0.016	0.000-0.877

Table S7: IPV prevalence in lifetime by calendar year (before and after 2010)

	Statistics for each study	
	Prevalence estimate	95% CI
2010 and before		
<i>Overall violence</i>		
Leung et al., 2005 ³	0.018	0.008-0.034
Yildizhan et al., 2009 ⁷	0.336	0.253-0.427
Omoaregba et al., 2011 ⁹	0.350	0.257-0.452
Subgroup total ($I^2=97.6\%$)	0.149	0.030-0.497
<i>Psychological violence</i>		
Sami and Ali, 2006 ⁴	0.383	0.335-0.432
Yildizhan et al., 2009 ⁷	0.295	0.216-0.384
Dhont et al., 2011 ⁸	0.269	0.221-0.322
Subgroup total ($I^2=81.5\%$)	0.316	0.244-0.399
<i>Physical violence</i>		
Sami and Ali, 2006 ⁴	0.090	0.064-0.122
Yildizhan et al., 2009 ⁷	0.107	0.058-0.175
Dhont et al., 2011 ⁸	0.234	0.188-0.285
Subgroup total ($I^2=93.1\%$)	0.135	0.064-0.260
<i>Sexual violence</i>		
Yildizhan et al., 2009 ⁷	0.025	0.005-0.070
Dhont et al., 2011 ⁸	0.119	0.085-0.160
Subgroup total ($I^2=86.7\%$)	0.060	0.012-0.246
<i>Economic coercion</i>		
Yildizhan et al., 2009 ⁷	0.098	0.057-0.165
After 2010		
<i>Overall violence</i>		
Aduloju et al., 2015 ¹²	0.312	0.243-0.387
Satheesan and Satyanarayana, 2018 ¹⁶	0.467	0.283-0.657
Akpinar et al., 2019 ¹⁷	0.479	0.394-0.564
Rahebi et al., 2019 ¹⁸	0.835	0.776-0.884
Alijani et al., 2019 ¹⁹	0.889	0.853-0.919
Bondade et al., 2018 ²⁰	0.500	0.398-0.602
Sis Çelik and Kırca, 2018 ²¹	0.674	0.627-0.718
Poornowrooz et al., 2019 ²³	0.565	0.480-0.646
Nabi et al., 2020 ²⁷	0.510	0.408-0.611
Subgroup total ($I^2=96.4\%$)	0.604	0.457-0.734
<i>Psychological violence</i>		
Satheesan and Satyanarayana, 2018 ¹⁶	0.467	0.283-0.657
Akpinar et al., 2019 ¹⁷	0.366	0.287-0.451
Rahebi et al., 2019 ¹⁸	0.700	0.631-0.763
Alijani et al., 2019 ¹⁹	0.858	0.818-0.891
Bondade et al., 2018 ²⁰	0.340	0.248-0.442
Ghoneim et al., 2021 ²²	0.412	0.356-0.469
Poornowrooz et al., 2019 ²³	0.524	0.440-0.607
Coşkuner Potur et al., 2019 ²⁴	0.473	0.417-0.530
Ghaly et al., 2019 ²⁵	0.963	0.935-0.982
Nabi et al., 2020 ²⁷	0.290	0.204-0.389
Subgroup total ($I^2=97.2\%$)	0.579	0.423-0.721
<i>Physical violence</i>		
Satheesan and Satyanarayana, 2018 ¹⁶	0.167	0.056-0.347
Akpinar et al., 2019 ¹⁷	0.092	0.050-0.151
Rahebi et al., 2019 ¹⁸	0.680	0.611-0.744
Alijani et al., 2019 ¹⁹	0.259	0.215-0.306
Bondade et al., 2018 ²⁰	0.110	0.056-0.188
Poornowrooz et al., 2019 ²³	0.340	0.264-0.423
Coşkuner Potur et al., 2019 ²⁴	0.076	0.049-0.111
Ghaly et al., 2019 ²⁵	0.507	0.449-0.565
Nabi et al., 2020 ²⁷	0.160	0.094-0.247

Subgroup total ($I^2=97.1\%$)	0.230	0.127-0.381
<i>Sexual violence</i>		
Satheesan and Satyanarayana, 2018 ¹⁶	0.067	0.008-0.221
Akpınar et al., 2019 ¹⁷	0.028	0.008-0.071
Rahebi et al., 2019 ¹⁸	0.600	0.529-0.668
Alijani et al., 2019 ¹⁹	0.288	0.243-0.336
Bondade et al., 2018 ²⁰	0.050	0.016-0.113
Poornowrooz et al., 2019 ²³	0.272	0.202-0.352
Coşkun Potur et al., 2019 ²⁴	0.006	0.001-0.023
Ghaly et al., 2019 ²⁵	0.457	0.399-0.515
Nabi et al., 2020 ²⁷	0.060	0.022-0.126
Subgroup total ($I^2=96.1\%$)	0.134	0.070-0.242
<i>Economic coercion</i>		
-	-	-

Table S8: IPV prevalence in past 12 months by infertility type (“primary infertility” vs “primary or secondary infertility”)

	Statistics for each study	
	Prevalence estimate	95% CI
Primary infertility		
<i>Overall violence</i>		
Li et al., 2005 ⁵	0.105	0.083-0.130
Guo et al., 2006 ⁶	0.269	0.231-0.311
Ardabily et al., 2011 ¹¹	0.618	0.568-0.665
Subgroup total ($I^2=99.3\%$)	0.292	0.088-0.636
<i>Psychological violence</i>		
Li et al., 2005 ⁵	0.032	0.020-0.048
Guo et al., 2006 ⁶	0.176	0.143-0.212
Ardabily et al., 2011 ¹¹	0.338	0.291-0.386
Subgroup total ($I^2=98.5\%$)	0.134	0.042-0.355
<i>Physical violence</i>		
Li et al., 2005 ⁵	0.051	0.036-0.070
Guo et al., 2006 ⁶	0.227	0.190-0.266
Ardabily et al., 2011 ¹¹	0.200	0.162-0.243
Subgroup total ($I^2=97.3\%$)	0.137	0.061-0.283
<i>Sexual violence</i>		
Li et al., 2005 ⁵	0.010	0.004-0.021
Guo et al., 2006 ⁶	0.027	0.014-0.045
Ardabily et al., 2011 ¹¹	0.080	0.055-0.111
Subgroup total ($I^2=93.5\%$)	0.029	0.009-0.092
<i>Economic coercion</i>		
Li et al., 2005 ⁵	0.012	0.005-0.023
Guo et al., 2006 ⁶	0.043	0.027-0.065
Subgroup total ($I^2=90.1\%$)	0.023	0.006-0.080
Primary or secondary infertility		
<i>Overall violence</i>		
Edirne et al., 2010 ¹⁰	0.878	0.787-0.940
Iliyasu et al., 2016 ¹⁴	0.359	0.311-0.410
Sahin et al., 2018 ¹⁵	0.150	0.125-0.177
Silwal and Thapa, 2020 ²⁶	0.304	0.220-0.398
Subgroup total ($I^2=98.0\%$)	0.416	0.202-0.666
<i>Psychological violence</i>		
Farzadi et al., 2014 ¹³	0.820	0.760-0.871
Iliyasu et al., 2016 ¹⁴	0.338	0.290-0.388
Sahin et al., 2018 ¹⁵	0.125	0.103-0.151
Subgroup total ($I^2=99.3\%$)	0.408	0.114-0.787
<i>Physical violence</i>		
Farzadi et al., 2014 ¹³	0.450	0.380-0.522
Iliyasu et al., 2016 ¹⁴	0.067	0.044-0.097
Sahin et al., 2018 ¹⁵	0.025	0.015-0.038
Subgroup total ($I^2=99.0\%$)	0.103	0.013-0.501
<i>Sexual violence</i>		
Farzadi et al., 2014 ¹³	0.540	0.468-0.611
Iliyasu et al., 2016 ¹⁴	0.298	0.252-0.347
Sahin et al., 2018 ¹⁵	0.049	0.035-0.067
Subgroup total ($I^2=99.0\%$)	0.228	0.056-0.595
<i>Economic coercion</i>		
Iliyasu et al., 2016 ¹⁴	0.239	0.196-0.285
Sahin et al., 2018 ¹⁵	0.001	0.000-0.005
Subgroup total ($I^2=94.7\%$)	0.016	0.000-0.877

Table S9: IPV prevalence in lifetime by infertility type (“primary infertility” vs “primary or secondary infertility”)

	Statistics for each study	
	Prevalence estimate	95% CI
Primary infertility		
<i>Overall violence</i>		
Yildizhan et al., 2009 ⁷	0.336	0.253-0.427
Satheesan and Satyanarayana, 2018 ¹⁶	0.467	0.283-0.657
Akpinar et al., 2019 ¹⁷	0.479	0.394-0.564
Rahebi et al., 2019 ¹⁸	0.835	0.776-0.884
Bondade et al., 2018 ²⁰	0.500	0.398-0.602
Nabi et al., 2020 ²⁷	0.510	0.408-0.611
Subgroup total ($I^2=93.9\%$)	0.533	0.370-0.689
<i>Psychological violence</i>		
Yildizhan et al., 2009 ⁷	0.295	0.216-0.384
Satheesan and Satyanarayana, 2018 ¹⁶	0.467	0.283-0.657
Akpinar et al., 2019 ¹⁷	0.366	0.287-0.451
Rahebi et al., 2019 ¹⁸	0.700	0.631-0.763
Bondade et al., 2018 ²⁰	0.340	0.248-0.442
Ghaly et al., 2019 ²⁵	0.963	0.935-0.982
Nabi et al., 2020 ²⁷	0.290	0.204-0.389
Subgroup total ($I^2=97.0\%$)	0.533	0.315-0.739
<i>Physical violence</i>		
Yildizhan et al., 2009 ⁷	0.107	0.058-0.175
Satheesan and Satyanarayana, 2018 ¹⁶	0.167	0.056-0.347
Akpinar et al., 2019 ¹⁷	0.092	0.050-0.151
Rahebi et al., 2019 ¹⁸	0.680	0.611-0.744
Bondade et al., 2018 ²⁰	0.110	0.056-0.188
Ghaly et al., 2019 ²⁵	0.507	0.449-0.565
Nabi et al., 2020 ²⁷	0.160	0.094-0.247
Subgroup total ($I^2=97.1\%$)	0.221	0.097-0.428
<i>Sexual violence</i>		
Yildizhan et al., 2009 ⁷	0.025	0.005-0.070
Satheesan and Satyanarayana, 2018 ¹⁶	0.067	0.008-0.221
Akpinar et al., 2019 ¹⁷	0.028	0.008-0.071
Rahebi et al., 2019 ¹⁸	0.600	0.529-0.668
Bondade et al., 2018 ²⁰	0.050	0.016-0.113
Ghaly et al., 2019 ²⁵	0.457	0.399-0.515
Nabi et al., 2020 ²⁷	0.060	0.022-0.126
Subgroup total ($I^2=96.6\%$)	0.109	0.039-0.268
<i>Economic coercion</i>		
Yildizhan et al., 2009 ⁷	0.098	0.057-0.165
Primary or secondary infertility		
<i>Overall violence</i>		
Leung et al., 2005 ³	0.018	0.008-0.034
Omoaregba et al., 2011 ⁹	0.350	0.257-0.452
Aduloju et al., 2015 ¹²	0.312	0.243-0.387
Alijani et al., 2019 ¹⁹	0.889	0.853-0.919
Sis Çelik and Kırca, 2018 ²¹	0.674	0.627-0.718
Poornowrooz et al., 2019 ²³	0.565	0.480-0.646
Subgroup total ($I^2=98.6\%$)	0.410	0.181-0.686
<i>Psychological violence</i>		
Dhont et al., 2011 ⁸	0.269	0.221-0.322
Alijani et al., 2019 ¹⁹	0.858	0.818-0.891
Ghoneim et al., 2021 ²²	0.412	0.356-0.469
Poornowrooz et al., 2019 ²³	0.524	0.440-0.607
Coşkuner Potur et al., 2019 ²⁴	0.473	0.417-0.530

Subgroup total ($I^2=98.2\%$)	0.521	0.316-0.718
<i>Physical violence</i>		
Dhont et al., 2011 ⁸	0.234	0.188-0.285
Alijani et al., 2019 ¹⁹	0.259	0.215-0.306
Poornowrooz et al., 2019 ²³	0.340	0.264-0.423
Coşkuner Potur et al., 2019 ²⁴	0.076	0.049-0.111
Subgroup total ($I^2=93.8\%$)	0.208	0.126-0.325
<i>Sexual violence</i>		
Dhont et al., 2011 ⁸	0.119	0.085-0.160
Alijani et al., 2019 ¹⁹	0.288	0.243-0.336
Poornowrooz et al., 2019 ²³	0.272	0.202-0.352
Coşkuner Potur et al., 2019 ²⁴	0.006	0.001-0.023
Subgroup total ($I^2=94.9\%$)	0.129	0.059-0.258
<i>Economic coercion</i>		
-	-	-

Table S10: IPV prevalence (95% CI) in past 12 months and lifetime by region (“Africa” vs “West Asia” vs “South Asia” vs “East Asia”)

	Overall violence	Psychological violence	Physical violence	Sexual violence	Economic coercion
Past 12 months					
<i>Africa</i>					
Iliyasu et al., 2016 ¹⁴	0.359 (0.312-0.409)	0.338 (0.292-0.387)	0.067 (0.046-0.097)	0.298 (0.253-0.346)	0.239 (0.198-0.285)
<i>West Asia</i>					
Edirne et al., 2010 ¹⁰	0.878 (0.787-0.940)	-	-	-	-
Ardabilly et al., 2011 ¹¹	0.618 (0.568-0.665)	0.338 (0.291-0.386)	0.200 (0.162-0.243)	0.080 (0.055-0.111)	-
Farzadi et al., 2014 ¹³	-	0.820 (0.760-0.871)	0.450 (0.380-0.522)	0.540 (0.468-0.611)	-
Sahin et al., 2018 ¹⁵	0.150 (0.125-0.177)	0.125 (0.103-0.151)	0.025 (0.015-0.038)	0.049 (0.035-0.067)	0.001 (0.000-0.010)
Subgroup total	0.554 (0.161-0.889) (<i>I</i> ² =99.3%)	0.408 (0.116-0.784) (<i>I</i> ² =99.3%)	0.149 (0.033-0.471) (<i>I</i> ² =98.8%)	0.148 (0.022-0.570) (<i>I</i> ² =99.2%)	-
<i>South Asia</i>					
Silwal and Thapa, 2020 ²⁶	0.304 (0.226-0.395)	-	-	-	-
<i>East Asia</i>					
Li et al., 2005 ⁵	0.105 (0.083-0.130)	0.032 (0.020-0.048)	0.051 (0.036-0.070)	0.010 (0.004-0.021)	0.012 (0.005-0.023)
Guo et al., 2006 ⁶	0.269 (0.231-0.311)	0.176 (0.143-0.212)	0.227 (0.190-0.266)	0.027 (0.014-0.045)	0.043 (0.027-0.065)
Subgroup total	0.172 (0.063-0.391) (<i>I</i> ² =98.0%)	0.078 (0.013-0.344) (<i>I</i> ² =98.2%)	0.112 (0.023-0.399) (<i>I</i> ² =98.5%)	0.017 (0.007-0.043) (<i>I</i> ² =76.4%)	0.023 (0.006-0.080) (<i>I</i> ² =90.1%)
Lifetime					
<i>Africa</i>					
Dhont et al., 2011 ⁸	-	0.269 (0.221-0.322)	0.234 (0.188-0.285)	0.119 (0.085-0.160)	-
Omoaregba et al., 2011 ⁹	0.350 (0.257-0.452)	-	-	-	-
Aduloju et al., 2015 ¹²	0.312 (0.243-0.387)	-	-	-	-
Ghoneim et al., 2021 ²²	-	0.412 (0.356-0.469)	-	-	-
Ghaly et al., 2019 ²⁵	-	0.963 (0.935-0.982)	0.507 (0.449-0.565)	0.457 (0.399-0.515)	-
Subgroup total	0.326 (0.273-0.384) (<i>I</i> ² =0.0%)	0.647 (0.268-0.902) (<i>I</i> ² =98.8%)	0.359 (0.146-0.648) (<i>I</i> ² =97.9%)	0.253 (0.053-0.670) (<i>I</i> ² =98.7%)	-
<i>West Asia</i>					
Yildizhan et al., 2009 ⁷	0.336 (0.253-0.427)	0.295 (0.216-0.384)	0.107 (0.058-0.175)	0.025 (0.005-0.070)	0.098 (0.057-0.165)
Akpınar et al., 2019 ¹⁷	0.479 (0.394-0.564)	0.366 (0.287-0.451)	0.092 (0.050-0.151)	0.028 (0.008-0.071)	-
Rahebi et al., 2019 ¹⁸	0.835 (0.776-0.884)	0.700 (0.631-0.763)	0.680 (0.611-0.744)	0.600 (0.529-0.668)	-
Alijani et al., 2019 ¹⁹	0.889 (0.853-0.919)	0.858 (0.818-0.891)	0.259 (0.215-0.306)	0.288 (0.243-0.336)	-
Sis Çelik and Kirca, 2018 ²¹	0.674 (0.627-0.718)	-	-	-	-
Poornowrooz et al., 2019 ²³	0.565 (0.480-0.646)	0.524 (0.440-0.607)	0.340 (0.264-0.423)	0.272 (0.202-0.352)	-
Coşkuner Potur et al., 2019 ²⁴	-	0.473 (0.417-0.530)	0.076 (0.049-0.111)	0.006 (0.001-0.023)	-
Subgroup total	0.658 (0.477-0.803)	0.551 (0.366-0.724)	0.214 (0.093-0.420)	0.110 (0.043-0.255)	-

	$(I^2=97.2\%)$	$(I^2=97.4\%)$	$(I^2=97.7\%)$	$(I^2=96.9\%)$	
South Asia					
Sami and Ali, 2006 ⁴	-	0.382 (0.335-0.432)	0.090 (0.064-0.122)	-	-
Satheesan and Satyanarayana, 2018 ¹⁶	0.467 (0.283-0.657)	0.467 (0.283-0.657)	0.167 (0.056-0.347)	0.067 (0.008-0.221)	-
Bondade et al., 2018 ²⁰	0.500 (0.398-0.602)	0.340 (0.248-0.442)	0.110 (0.056-0.188)	0.050 (0.016-0.113)	-
Nabi et al., 2020 ²⁷	0.510 (0.408-0.611)	0.290 (0.204-0.389)	0.160 (0.094-0.247)	0.060 (0.022-0.126)	-
Subgroup total	0.500 (0.436-0.564) $(I^2=0.0\%)$	0.360 (0.308-0.416) $(I^2=33.6\%)$	0.118 (0.085-0.162) $(I^2=41.2\%)$	0.057 (0.033-0.095) $(I^2=0.0\%)$	-
East Asia					
Leung et al., 2005 ³	0.018 (0.009-0.034)	-	-	-	-

Table S11: IPV prevalence (95% CI) in past 12 months and lifetime by risk of bias (“High” vs “Moderate” vs “Low”)

	Overall violence	Psychological violence	Physical violence	Sexual violence	Economic coercion
Past 12 months					
<i>High</i>					
Edirne et al., 2010 ¹⁰	0.878 (0.787-0.940)	-	-	-	-
Ardabilly et al., 2011 ¹¹	0.618 (0.568-0.665)	0.338 (0.291-0.386)	0.200 (0.162-0.243)	0.080 (0.055-0.111)	-
Farzadi et al., 2014 ¹³	-	0.820 (0.760-0.871)	0.450 (0.380-0.522)	0.540 (0.468-0.611)	-
Silwal and Thapa, 2020 ²⁶	0.304 (0.220-0.398)	-	-	-	-
Subgroup total	0.625 (0.333-0.848) <i>(I²=96.5%)</i>	0.602 (0.150-0.928) <i>(I²=99.1%)</i>	0.311 (0.124-0.591) <i>(I²=97.5%)</i>	0.243 (0.024-0.804) <i>(I²=99.2%)</i>	-
<i>Moderate</i>					
Sahin et al., 2018 ¹⁵	0.150 (0.126-0.177)	0.125 (0.104-0.151)	0.025 (0.016-0.038)	0.049 (0.036-0.067)	0.001 (0.000-0.010)
<i>Low</i>					
Li et al., 2005 ⁵	0.105 (0.083-0.130)	0.032 (0.020-0.048)	0.051 (0.036-0.070)	0.010 (0.004-0.021)	0.012 (0.006-0.023)
Guo et al., 2006 ⁶	0.269 (0.231-0.311)	0.176 (0.143-0.212)	0.227 (0.190-0.266)	0.027 (0.014-0.045)	0.043 (0.028-0.065)
Iliyasu et al., 2016 ¹⁴	0.359 (0.311-0.410)	0.338 (0.290-0.388)	0.067 (0.044-0.097)	0.298 (0.252-0.347)	0.239 (0.198-0.285)
Subgroup total	0.225 (0.109-0.407) <i>(I²=97.9%)</i>	0.134 (0.042-0.356) <i>(I²=98.5%)</i>	0.095 (0.031-0.255) <i>(I²=97.7%)</i>	0.048 (0.004-0.365) <i>(I²=98.7%)</i>	0.023 (0.006-0.080) <i>(I²=90.1%)</i>
Lifetime					
<i>High</i>					
Leung et al., 2005 ³	0.018 (0.008-0.034)	-	-	-	-
Sami and Ali, 2006 ⁴	-	0.382 (0.335-0.432)	0.090 (0.064-0.122)	-	-
Yildizhan et al., 2009 ⁷	0.336 (0.253-0.427)	0.295 (0.216-0.384)	0.107 (0.058-0.175)	0.025 (0.005-0.070)	0.098 (0.057-0.165)
Omoaregba et al., 2011 ⁹	0.350 (0.257-0.452)	-	-	-	-
Aduloju et al., 2015 ¹²	0.312 (0.243-0.387)	-	-	-	-
Akpinar et al., 2019 ¹⁷	0.479 (0.394-0.564)	0.366 (0.287-0.451)	0.092 (0.050-0.151)	0.028 (0.008-0.071)	-
Alijani et al., 2019 ¹⁹	0.889 (0.853-0.919)	0.858 (0.818-0.891)	0.259 (0.215-0.306)	0.288 (0.243-0.336)	-
Poornowrooz et al., 2019 ²³	0.565 (0.480-0.646)	0.524 (0.440-0.607)	0.340 (0.264-0.423)	0.272 (0.202-0.352)	-
Ghaly et al., 2019 ²⁵	-	0.963 (0.935-0.982)	0.507 (0.449-0.565)	0.457 (0.399-0.515)	-
Subgroup total	0.371 (0.170-0.630) <i>(I²=98.3%)</i>	0.629 (0.378-0.825) <i>(I²=98.4%)</i>	0.200 (0.102-0.356) <i>(I²=97.1%)</i>	0.165 (0.084-0.298) <i>(I²=95.2%)</i>	-
<i>Moderate</i>					
Satheesan and Satyanarayana, 2018 ¹⁶	0.467 (0.283-0.657)	0.467 (0.283-0.657)	0.167 (0.056-0.347)	0.067 (0.008-0.221)	-
Rahebi et al., 2019 ¹⁸	0.835 (0.776-0.884)	0.700 (0.631-0.763)	0.680 (0.611-0.744)	0.600 (0.529-0.668)	-
Bondade et al., 2018 ²⁰	0.500 (0.398-0.602)	0.340 (0.248-0.442)	0.110 (0.056-0.188)	0.050 (0.016-0.113)	-
Ghoneim et al., 2021 ²²	-	0.412 (0.356-0.469)	-	-	-

Coşkuner Potur et al., 2019 ²⁴	-	0.473 (0.417-0.530)	0.076 (0.049-0.111)	0.006 (0.001-0.023)	-
Nabi et al., 2020 ²⁷	0.510 (0.408-0.611)	0.290 (0.204-0.389)	0.160 (0.094-0.247)	0.060 (0.022-0.126)	-
Subgroup total	0.598 (0.380-0.783) <i>(I²=93.9%)</i>	0.448 (0.336-0.566) <i>(I²=92.0%)</i>	0.196 (0.049-0.533) <i>(I²=98.0%)</i>	0.072 (0.009-0.405) <i>(I²=97.3%)</i>	-
Low					
Dhont et al., 2011 ⁸	-	0.269 (0.223-0.321)	0.234 (0.190-0.284)	0.119 (0.087-0.159)	-
Sis Çelik and Kırca, 2018 ²¹	0.674 (0.628-0.717)	-	-	-	-

Table S12: Subgroup analyses and meta-regression analyses for the pooled prevalence of IPV in the past 12 months

	Studies	Sample size	Prevalence (95% CI) (%)	I^2 (%)	Meta-regression			
					β (SE)	OR (95% CI)	p -value	R^2 (%)
Past 12 months								
Overall								
<i>Year</i>								
2010 and before	4	1659	45.0 (17.5-76.0)	99.1	ref	ref	ref	0.00
After 2010	3	1259	25.9 (13.3-44.2)	96.9	-0.195 (0.212)	0.823 (0.543, 1.247)	0.357	
<i>Infertility Type</i>								
Primary	3	1577	29.2 (8.8-63.6)	99.3	ref	ref	ref	0.00
Primary or secondary	4	1341	41.6 (20.2-66.6)	98.0	0.092 (0.226)	1.096 (0.705, 1.704)	0.684	
<i>Region</i>								
Africa	1	373	35.9 (31.2-40.9)	-	ref	ref	ref	
West Asia	3	1256	55.4 (16.1-88.9)	99.3	0.188 (0.356)	1.207 (0.601, 2.425)	0.598	0.00
South Asia	1	112	30.4 (22.6-39.5)	-	-0.056 (0.438)	0.946 (0.401, 2.231)	0.899	
East Asia	2	1177	17.2 (6.3-39.1)	98.0	-0.172 (0.378)	0.842 (0.401, 1.766)	0.648	
<i>Risk of bias</i>								
High	3	594	62.5 (33.3-84.8)	96.5	ref	ref	ref	
Moderate	1	774	15.0 (12.6-17.7)	-	-0.451 (0.253)	0.637 (0.388, 1.046)	0.075	35.74
Low	3	1550	22.5 (10.9-40.7)	97.9	-0.357 (0.180)	0.670 (0.492, 0.996)	0.047	
<i>Sample size</i>	7	2918	-	-	-0.001 (0.000)	0.999 (0.999, 1.000)	0.018	44.17
Psychological								
<i>Year</i>								
2010 and before	3	1577	13.4 (4.2-35.5)	98.5	ref	ref	ref	3.94
After 2010	3	1347	40.8 (11.4-78.7)	99.3	0.246 (0.223)	1.279 (0.826-1.980)	0.272	
<i>Infertility Type</i>								
Primary	3	1577	13.4 (4.2-35.5)	98.5	ref	ref	ref	3.94
Primary or secondary	3	1347	40.8 (11.4-78.7)	99.3	0.246 (0.223)	1.279 (0.826-1.980)	0.272	
<i>Region</i>								
Africa	1	373	33.8 (29.2-38.7)	-	ref	ref	ref	0.00
West Asia	3	1374	40.8 (11.6-78.4)	99.3	0.089 (0.342)	1.093 (0.559-2.137)	0.795	
South Asia	0	0	-	-	-	-	-	
East Asia	2	1177	7.8 (1.3-34.4)	98.2	-0.234 (0.363)	0.791 (0.388-1.612)	0.519	
<i>Risk of bias</i>								
High	2	600	60.2 (15.0-92.8)	99.1	ref	ref	ref	30.70
Moderate	1	774	12.5 (10.4-15.1)	-	-0.453 (0.285)	0.636 (0.364-1.111)	0.112	

Low	3	1550	13.4 (4.2-35.6)	98.5	-0.397 (0.213)	0.672 (0.443, 1.021)	0.062	
Sample size	6	2924	-	-	-0.001 (0.000)	0.999 (0.998, 0.999)	< 0.001	72.05
Physical								
Year								
2010 and before	3	1577	13.7 (6.1-28.3)	97.3	ref	ref	ref	0.00
After 2010	3	1347	10.3 (1.3-50.1)	99.0	0.018 (0.144)	1.018 (0.768, 1.350)	0.898	
Infertility Type								
Primary	3	1577	13.7 (6.1-28.3)	97.3	ref	ref	ref	0.00
Primary or secondary	3	1347	10.3 (1.3-50.1)	99.0	0.018 (0.144)	1.018 (0.768, 1.350)	0.898	
Region								
Africa	1	373	6.7 (4.6-9.7)	-	ref	ref	ref	0.00
West Asia	3	1374	14.9 (3.3-47.1)	98.8	0.155 (0.216)	1.168 (0.765-1.783)	0.472	
South Asia	0	0	-	-	-	-	-	
East Asia	2	1177	11.2 (2.3-39.9)	98.5	0.071 (0.229)	1.074 (0.685-1.682)	0.755	
Risk of bias								
High	2	600	31.1 (12.4-59.1)	97.5	ref	ref	ref	35.12
Moderate	1	774	2.5 (1.6-3.8)	-	-0.297 (0.156)	0.743 (0.547-1.009)	0.056	
Low	3	1550	9.5 (3.1-25.5)	97.7	-0.208 (0.117)	0.812 (0.646-1.022)	0.076	
Sample size	6	2924	-	-	-0.001 (0.000)	0.999 (0.999, 1.000)	0.008	55.63
Sexual								
Year								
2010 and before	3	1577	2.9 (0.9-9.2)	93.5	ref	ref	ref	
After 2010	3	1347	22.8 (5.6-59.5)	99.0	0.254 (0.142)	1.289 (0.976-1.703)	0.074	30.63
Infertility Type								
Primary	3	1577	2.9 (0.9-9.2)	93.5	ref	ref	ref	
Primary or secondary	3	1347	22.8 (5.6-59.5)	99.0	0.254 (0.142)	1.289 (0.976-1.703)	0.074	30.63
Region								
Africa	1	373	29.8 (25.3-34.6)	-	ref	ref	ref	0.00
West Asia	3	1374	14.8 (2.2-57.0)	99.2	-0.077 (0.257)	0.926 (0.559-1.532)	0.765	
South Asia	0	0	-	-	-	-	-	
East Asia	2	1177	1.7 (0.7-4.3)	76.4	-0.279 (0.272)	0.767 (0.444-1.289)	0.305	
Risk of bias								
High	2	600	24.3 (2.4-80.4)	99.2	ref	ref	ref	0.00
Moderate	1	774	4.9 (3.6-6.7)	-	-0.259 (0.280)	0.772 (0.446-1.336)	0.355	
Low	3	1550	4.8 (0.4-36.5)	98.7	-0.197 (0.209)	0.821 (0.545-1.237)	0.346	
Sample size	6	2924	-	-	-0.001 (0.000)	0.999 (0.999-1.000)	0.007	55.83

Random-effects meta-regression model with restricted maximum likelihood (REML) method was used to conduct meta-regression.

Table S13: Subgroup analyses and meta-regression analyses for the pooled prevalence of IPV in lifetime

	Studies	Sample size	Prevalence (95% CI) (%)	I^2 (%)	Meta-regression			
					β (SE)	OR (95% CI)	p -value	R^2 (%)
Lifetime								
Overall								
<i>Year</i>								
2010 and before	3	722	14.9 (3.0-49.7)	97.6	ref	ref	ref	39.46
After 2010	9	1691	60.4 (45.7-73.4)	96.4	0.355 (0.127)	1.426 (1.112-1.829)	0.005	
<i>Infertility Type</i>								
Primary	6	694	53.3 (37.0-68.9)	93.0	ref	ref	ref	0.00
Primary or secondary	6	1719	41.0 (18.1-68.6)	98.6	-0.055 (0.146)	0.946 (0.711, 1.260)	0.706	
<i>Region</i>								
Africa	2	270	32.6 (27.3-38.4)	0.0	ref	ref	ref	50.95
West Asia	6	1413	65.8 (47.7-80.3)	97.2	0.303 (0.140)	1.354 (1.029-1.781)	0.031	
South Asia	3	230	50.0 (43.6-56.4)	0.0	0.163 (0.160)	1.177 (0.860-1.611)	0.308	
East Asia	1	500	1.8 (0.9-3.4)	-	-0.313 (0.207)	0.731 (0.487-1.097)	0.131	
<i>Risk of bias</i>								
High	7	1560	37.1 (17.0-63.0)	98.3	ref	ref	ref	0.00
Moderate	4	430	59.8 (38.0-78.3)	93.3	0.161 (0.155)	1.175 (0.867-1.592)	0.298	
Low	1	423	67.4 (62.8-71.7)	-	0.253 (0.260)	1.288 (0.774-2.144)	0.331	
<i>Sample size</i>	12	2413	-	-	-0.000 (0.001)	1.000 (0.998-1.002)	0.986	0.00
Psychological								
<i>Year</i>								
2010 and before	3	834	31.6 (24.4-39.9)	81.5	ref	ref	ref	13.04
After 2010	10	2019	57.9 (42.3-72.1)	97.2	0.227 (0.138)	1.255 (0.957-1.645)	0.100	
<i>Infertility Type</i>								
Primary	7	994	53.3 (31.5-73.9)	97.0	ref	ref	ref	0.00
Primary or secondary	5	1459	52.1 (31.6-71.8)	98.2	0.016 (0.143)	1.016 (0.768-1.345)	0.912	
<i>Region</i>								
Africa	3	918	64.7 (26.8-90.2)	98.8	ref	ref	ref	0.00
West Asia	6	1305	55.1 (36.6-72.4)	97.4	-0.012 (0.161)	0.988 (0.721-1.355)	0.940	
South Asia	4	630	36.0 (30.8-41.6)	33.6	-0.182 (0.175)	0.834 (0.592-1.175)	0.297	
East Asia	0	0	-	-	-	-	-	
<i>Risk of bias</i>								
High	6	1490	62.9 (37.8-82.5)	98.4	ref	ref	ref	0.00
Moderate	6	1051	44.8 (33.6-56.6)	92.0	-0.120 (0.131)	0.887 (0.686-1.147)	0.358	
Low	1	312	26.9 (22.3-32.1)	-	-0.298 (0.242)	0.742 (0.462-1.193)	0.218	

Sample size	13	2853	-	-	0.001 (0.001)	1.001 (0.999-1.003)	0.197	5.68
Physical								
Year								
2010 and before	3	834	13.5 (6.4-26.0)	93.1	ref	ref	ref	0.00
After 2010	9	1713	23.0 (12.7-38.1)	97.1	0.122 (0.126)	1.130 (0.883-1.446)	0.331	
Infertility Type								
Primary	7	994	22.1 (9.7-42.8)	97.1	ref	ref	ref	0.00
Primary or secondary	4	1153	20.8 (12.6-32.5)	93.8	-0.035 (0.127)	0.966 (0.753-1.239)	0.784	
Region								
Africa	2	612	35.9 (14.6-64.8)	97.9	ref	ref	ref	3.33
West Asia	6	1305	21.4 (9.3-42.0)	97.7	-0.113 (0.152)	0.893 (0.663-1.203)	0.458	
South Asia	4	630	11.8 (8.5-16.2)	41.2	-0.239 (0.161)	0.787 (0.574-1.080)	0.138	
East Asia	0	0	-	-	-	-	-	
Risk of bias								
High	6	1490	20.0 (10.2-35.6)	97.1	ref	ref	ref	0.00
Moderate	5	745	19.6 (4.9-53.3)	98.0	0.008 (0.127)	1.008 (0.786-1.293)	0.991	
Low	1	312	23.4 (19.0-28.4)	-	0.002 (0.225)	1.002 (0.645-1.557)	0.953	
Sample size	12	2547	-	-	0.000 (0.000)	1.000 (0.999-1.001)	0.739	0.00
Sexual								
Year								
2010 and before	2	434	6.0 (1.2-24.6)	86.7	ref	ref	ref	0.00
After 2010	9	1713	13.4 (7.0-24.2)	96.1	0.131 (0.157)	1.140 (0.838-1.551)	0.406	
Infertility Type								
Primary	7	994	10.9 (3.9-26.8)	96.6	ref	ref	ref	0.00
Primary or secondary	4	1153	12.9 (5.9-25.8)	94.9	-0.013 (0.131)	0.987 (0.962-1.013)	0.923	
Region								
Africa	2	612	25.3 (5.3-67.0)	98.7	ref	ref	ref	0.00
West Asia	6	1305	11.0 (4.3-25.5)	96.9	-0.086 (0.165)	0.918 (0.664-1.268)	0.603	
South Asia	3	230	5.7 (3.3-9.5)	0.0	-0.228 (0.185)	0.796 (0.554-1.144)	0.217	
East Asia	0	0	-	-	-	-	-	
Risk of bias								
High	5	1090	16.5 (8.4-29.8)	95.2	ref	ref	ref	0.00
Moderate	5	745	7.2 (0.9-40.5)	97.3	-0.057 (0.139)	0.945 (0.719-1.240)	0.680	
Low	1	312	11.9 (8.7-15.9)	-	-0.094 (0.239)	0.910 (0.570-1.454)	0.694	
Sample size	11	2147	-	-	0.001 (0.001)	1.001 (1.000-1.002)	0.257	2.70

Random-effects meta-regression model with restricted maximum likelihood (REML) method was used to conduct meta-regression.

Table S14: Subgroup analysis and univariate meta-regression of the lifetime overall prevalence rates across three commonly used tools

	Studies	Sample size	Prevalence (95% CI) (%)	I^2 (%)	Meta-regression			R^2 (%)
					β (SE)	OR (95% CI)	p -value	
Revised Conflict Tactics Scales	1	379	88.9 (85.3-91.7)	-	ref	ref	ref	54.27
Modified Abuse Assessment Screen	4	934	20.5 (7.4-45.6)	97.2	-0.606 (0.215)	0.546 (0.358-0.832)	0.005	
WHO Violence Against Women instrument	3	400	63.5 (37.6-83.5)	95.6	-0.271 (0.223)	0.763 (0.493-1.181)	0.225	

Table S15: Lifetime IPV prevalence between infertile women and fertile women

	Infertile group	Fertile group	OR (95% CI)
<i>Overall violence</i>			
Leung et al., 2005 ³	9/500 (1.8%)	105/1114 (9.4%)	0.176 (0.088, 0.351)
Rahebi et al., 2019 ¹⁸	167/200 (83.5%)	102/200 (51.0%)	4.862 (3.054, 7.741)
Poornowrooz et al., 2019 ²³	83/147 (56.5%)	71/199 (35.7%)	2.338 (1.511, 3.617)
Subgroup total ($I^2=96.8\%$)			1.287 (0.244, 6.789)
<i>Psychological violence</i>			
Dhont et al., 2011 ⁸	84/312 (26.9%)	47/312 (15.1%)	2.077 (1.395, 3.094)
Rahebi et al., 2019 ¹⁸	140/200 (70.0%)	90/200 (45.0%)	2.852 (1.890, 4.302)
Ghoneim et al., 2021 ²²	126/306 (41.2%)	162/332 (48.8%)	0.735 (0.537, 1.005)
Poornowrooz et al., 2019 ²³	77/147 (52.4%)	65/199 (32.7%)	2.268 (1.462, 3.517)
Subgroup total ($I^2=91.5\%$)			1.755 (0.905, 3.403)
<i>Physical violence</i>			
Dhont et al., 2011 ⁸	73/312 (23.4%)	49/312 (15.7%)	1.639 (1.097, 2.451)
Rahebi et al., 2019 ¹⁸	136/200 (68.0%)	84/200 (42.0%)	2.935 (1.950, 4.416)
Poornowrooz et al., 2019 ²³	50/147 (34.0%)	46/199 (23.2%)	1.714 (1.067, 2.755)
Subgroup total ($I^2=57.4\%$)			2.033 (1.393 2.966)
<i>Sexual violence</i>			
Dhont et al., 2011 ⁸	31/312 (11.9%)	8/312 (2.6%)	4.192 (1.895, 9.274)
Rahebi et al., 2019 ¹⁸	120/200 (60.0%)	71/200 (35.5%)	2.725 (1.818, 4.086)
Poornowrooz et al., 2019 ²³	40/147 (27.2%)	35/199 (17.6%)	1.752 (1.047, 2.931)
Subgroup total ($I^2=45.0\%$)			2.547 (1.668, 3.890)

Note: Omoaregba et al., 2011⁹ was a case-control study between infertile group and fertile group, but only reported the IPV prevalence in the infertile group. Therefore, the study was excluded in this step.

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