

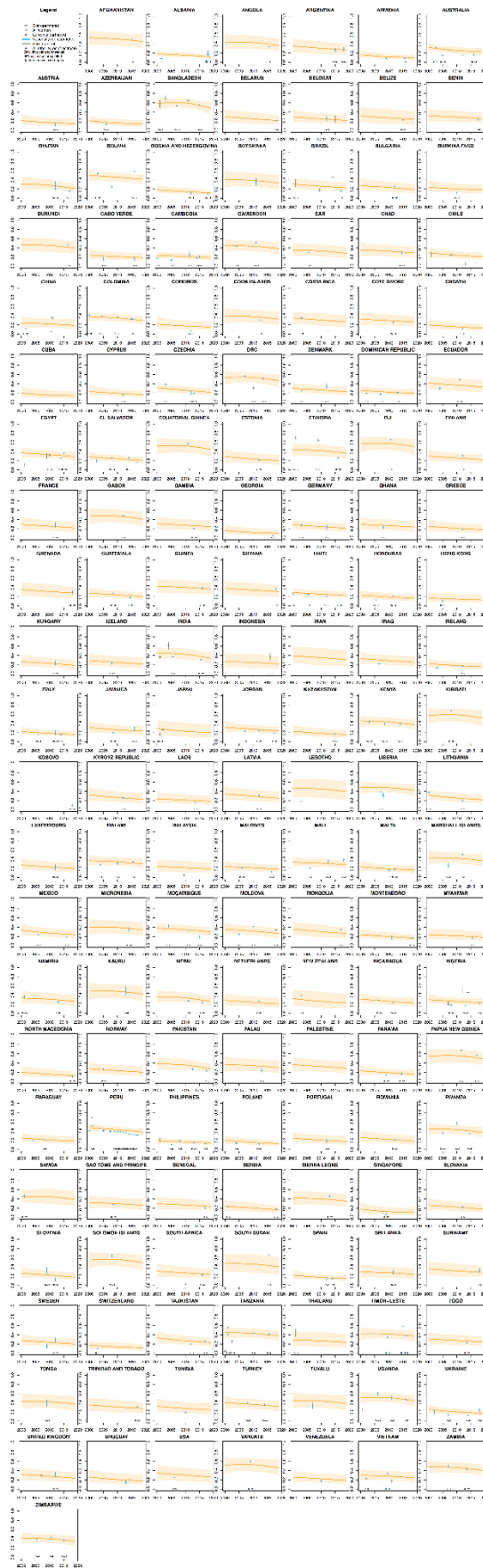
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Supplementary appendix

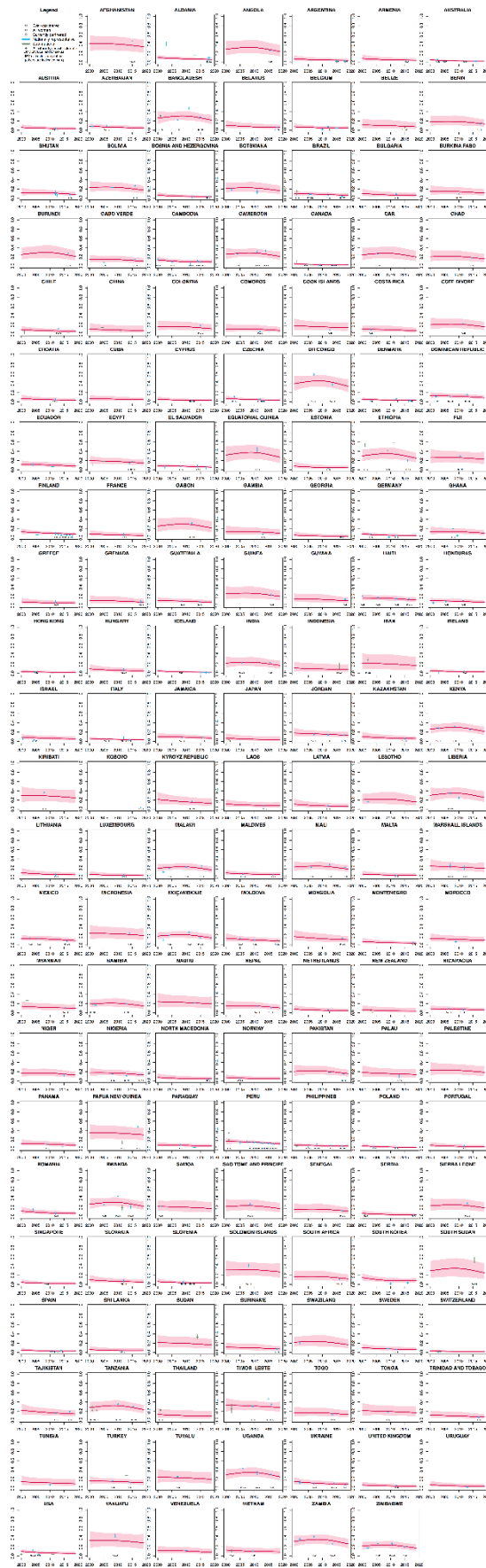
This appendix formed part of the original submission and has been peer reviewed.
We post it as supplied by the authors.

Supplement to: Sardinha L, Maheu-Giroux M, Stöckl H, Meyer SR, García-Moreno C.
Global, regional, and national prevalence estimates of physical or sexual, or both,
intimate partner violence against women in 2018. *Lancet* 2022; published online
Feb 16. [https://doi.org/10.1016/S0140-6736\(21\)02664-7](https://doi.org/10.1016/S0140-6736(21)02664-7).

S1: Model fits for lifetime prevalence of physical and/or sexual intimate partner violence



S2: Model fits for past year prevalence of physical and/or sexual intimate partner violence



S3. Global and regional prevalence estimates of lifetime and past 12 months physical and/or sexual intimate partner violence (IPV) among ever-married/partnered women aged 15–49 years, by United Nations Sustainable Development Goal (SDG) super region and subregion, 2018¹

SDG region	Lifetime IPV point estimate % (95% uncertainty interval (UI))	Past year IPV point estimate % (95% uncertainty interval (UI))
World	27 (23-31)	13 (10-16)
Sub-Saharan Africa	33 (29-38)	20 (17-24)
Northern Africa and Western Asia		
Northern Africa	30 (23-40)	15 (11-20)
Western Asia	29 (22-37)	13 (10-19)
Central and Southern Asia		
Central Asia	18 (13-25)	9 (6-13)
Southern Asia	35 (26-45)	19 (13-27)
Eastern and South-Eastern Asia		
Eastern Asia	20 (12-31)	7 (3-16)
South-Eastern Asia	21 (15-31)	9 (6-14)
Latin America and the Caribbean	25 (21-30)	8 (7-11)
Oceania		
Australia and New Zealand	23 (16-32)	3 (2-5)
Oceania (excluding Australia and New Zealand)		
Melanesia	51 (38-63)	30 (20-43)
Micronesia	41 (32-52)	22 (15-31)
Polynesia	39 (30-49)	19 (13-27)
Europe and Northern America		
Eastern Europe	20 (15-26)	7 (5-10)
Northern Europe	23 (16-33)	5 (3-8)
Southern Europe	16 (12-21)	4 (3-5)
Western Europe	21 (15-29)	5 (3-7)
Northern America	25 (14-41)	6 (4-9)

Least developed countries	37 (33-42)	22 (19-26)
SDG super regions		
Asia	27 (22-33)	13 (10-18)
Africa	33 (29-37)	19 (16-23)
Oceania	30 (24-37)	10 (7-13)
Europe	20 (16-24)	5 (4-7)
Americas	25 (20-32)	7 (6-9)

Notes: “Lifetime” refers to events since the age of 15 years; “partner” refers to any current or former husband or male intimate partner.

Full listings by SDG regional grouping can also be found at: <https://unstats.un.org/sdgs/indicators/regional-groups/>

S4. Regional prevalence estimates of lifetime and past year physical and/or sexual intimate partner violence (IPV) among ever-married/partnered women aged 15–49 years, by World Health Organization (WHO) region, 2018

WHO Region	Lifetime IPV point estimate % (95% uncertainty interval (UI))	Past year IPV point estimate % (95% uncertainty interval (UI))
World	27 (24 -31)	13 (10-16)
Low- and middle-income countries in:		
African Region	33 (29-38)	20 (17-24)
Region of the Americas	25 (21-31)	8 (7-11)
Eastern Mediterranean Region	31 (24-38)	17 (13-22)
European Region	22 (18-28)	8 (6-11)
South-East Asia Region	33 (25-43)	17 (12-24)
Western Pacific Region	20 (12-31)	8 (4-17)
High-income countries^a	22 (17-29)	6 (4-7)

WHO Member States in each WHO region can be found at:

African Region: <https://www.afro.who.int/countries>

Region of the Americas: <https://www.paho.org/en/countries-and-centers>

South-East Asia Region: <http://www.searo.who.int/en/>

European Region: <http://www.euro.who.int/en/countries>

Eastern Mediterranean Region: <http://www.emro.who.int/countries.html>

Western Pacific Region: <https://www.who.int/westernpacific/about/where-we-work>

^a High-income countries are classified by the World Bank based on Gross National Income per capita calculated using the World Bank Atlas method (July 2020). Countries in each World Bank Group region and income group are listed at: <https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups>. This grouping is mutually exclusive, and countries classified as “high income” are therefore not included in any of the other regional classifications listed above.

S5: Country² prevalence estimates of lifetime and past 12 months physical and/or sexual intimate partner violence (IPV) among ever-married/partnered women aged 15–49 years, 2018

Country/Area	Lifetime IPV point estimate (%) and 95% uncertainty interval (UI)	Past 12 months IPV point estimate (%) and 95% uncertainty interval (UI)
Afghanistan	46 (32-61)	35 (22-50)
Albania	13 (9-17)	6 (4-9)
Algeria	.	.
Andorra	.	.
Angola	38 (25-53)	25 (14-39)
Antigua and Barbuda	.	.
Argentina	27 (16-41)	5 (2-8)
Armenia	10 (6-17)	5 (2-9)
Australia	23 (16-32)	3 (2-5)
Austria	15 (8-25)	4 (2-7)
Azerbaijan	14 (8-22)	5 (3-9)
Bahamas	.	.
Bahrain	.	.
Bangladesh	50 (37-62)	23 (15-34)
Barbados	.	.
Belarus	21 (13-33)	6 (3-12)
Belgium	22 (13-34)	5 (3-9)
Belize	24 (12-43)	8 (3-17)
Benin	26 (16-38)	15 (8-24)
Bhutan	22 (14-33)	9 (5-14)
Bolivia (Plurinational State of)	42 (32-53)	18 (11-28)
Bosnia and Herzegovina	12 (7-18)	3 (2-6)
Botswana	34 (20-52)	17 (10-28)
Brazil	23 (15-34)	6 (4-10)
Brunei Darussalam	.	.
Bulgaria	19 (11-32)	6 (3-12)
Burkina Faso	19 (10-31)	11 (6-20)
Burundi	40 (27-55)	22 (13-35)
Cabo Verde	19 (12-28)	11 (6-18)
Cambodia	19 (13-27)	9 (6-14)
Cameroon	39 (27-53)	22 (15-32)
Canada	.	3 (2-4)
Central African Republic	29 (17-44)	21 (12-35)
Chad	29 (18-43)	16 (9-27)

² In the context of this report, the term “country” should be understood as referring to 161 countries and areas that provided data related to intimate partner violence and/or non-partner sexual violence. This designation and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Chile	21 (14-30)	6 (3-10)
China	19 (11-33)	8 (3-18)
Hong Kong (S.A.R. China)	13 (7-24)	3 (1-5)
Colombia	30 (22-40)	12 (6-21)
Comoros	16 (8-28)	8 (4-16)
Congo	.	.
Cook Islands	33 (20-50)	14 (7-25)
Costa Rica	27 (16-41)	7 (4-14)
Côte D'Ivoire	27 (16-41)	16 (9-28)
Croatia	13 (7-23)	4 (2-8)
Cuba	14 (8-23)	5 (2-9)
Cyprus	16 (10-26)	3 (1-6)
Czechia	22 (14-31)	4 (2-7)
Democratic People's Republic of Korea	.	.
Democratic Republic of the Congo	47 (34-61)	36 (23-50)
Denmark	23 (14-34)	3 (2-5)
Djibouti	.	.
Dominica	.	.
Dominican Republic	19 (13-29)	10 (6-15)
Ecuador	33 (21-48)	8 (5-14)
Egypt	30 (21-40)	15 (10-23)
El Salvador	21 (15-29)	6 (4-9)
Equatorial Guinea	46 (30-63)	29 (16-46)
Eritrea	.	.
Estonia	21 (12-33)	4 (2-9)
Eswatini	.	18 (10-30)
Ethiopia	37 (25-50)	27 (17-38)
Fiji	52 (35-69)	23 (13-39)
Finland	23 (14-35)	8 (6-11)
France	22 (13-36)	5 (2-10)
Gabon	41 (27-58)	22 (12-36)
Gambia (Republic of The)	25 (15-38)	10 (5-18)
Georgia	10 (6-18)	3 (1-6)
Germany	.	.
Ghana	24 (14-38)	10 (6-17)
Greece	18 (10-30)	5 (3-10)
Grenada	28 (18-42)	8 (4-15)
Guatemala	21 (13-30)	7 (4-12)
Guinea	37 (24-51)	21 (12-33)
Guinea Bissau	.	.
Guyana	31 (20-45)	10 (6-19)
Haiti	23 (16-32)	12 (8-18)
Honduras	17 (10-26)	7 (4-12)

Hungary	19 (11-31)	6 (3-11)
Iceland	21 (12-36)	3 (2-4)
India	35 (23-47)	18 (11-28)
Indonesia	22 (11-40)	9 (4-20)
Iran (Islamic Republic of)	31 (16-52)	18 (7-36)
Iraq	26 (16-39)	.
Ireland	16 (9-25)	3 (2-6)
Israel	.	6 (3-10)
Italy	16 (10-24)	4 (2-6)
Jamaica	24 (16-35)	7 (4-12)
Japan	20 (10-38)	4 (1-10)
Jordan	24 (16-34)	13 (9-20)
Kazakhstan	16 (9-26)	6 (3-11)
Kenya	38 (27-50)	23 (15-33)
Kiribati	53 (35-70)	25 (14-42)
Kosovo (area) ³	13 (8-22)	5 (2-11)
Kuwait	.	.
Kyrgyzstan	23 (14-36)	13 (7-24)
Lao People's Democratic Republic	19 (11-30)	8 (4-15)
Latvia	25 (15-40)	6 (3-12)
Lebanon	.	.
Lesotho	40 (21-62)	16 (8-30)
Liberia	43 (30-56)	27 (17-40)
Libya	.	.
Lithuania	22 (14-33)	5 (2-11)
Luxembourg	20 (11-33)	4 (2-7)
Madagascar	.	.
Malawi	30 (21-41)	17 (11-24)
Malaysia	19 (10-34)	.
Maldives	19 (12-28)	6 (4-11)
Mali	29 (21-39)	18 (12-26)
Malta	17 (10-27)	4 (2-8)
Marshall Islands	38 (25-53)	19 (11-32)
Mauritania	.	.
Mauritius	.	.
Mexico	24 (16-35)	10 (6-15)
Micronesia (Federated States of)	35 (21-51)	21 (12-36)
Monaco	.	.
Mongolia	27 (17-40)	12 (6-20)
Montenegro	16 (10-25)	4 (2-8)
Morocco	.	10 (6-18)

³ All references to Kosovo in this paper should be understood to be in the context of United Nations Security Council resolution 1244 (1999). It is included in this table because it had data that met the inclusion criteria.

Mozambique	30 (21-41)	16 (11-24)
Myanmar	19 (11-30)	11 (6-19)
Namibia	27 (16-41)	16 (10-25)
Nauru	43 (27-60)	20 (10-35)
Nepal	27 (18-39)	11 (7-19)
Netherlands	21 (12-35)	5 (3-10)
New Zealand	23 (11-44)	4 (2-11)
Nicaragua	23 (15-35)	6 (4-11)
Niger	.	13 (8-21)
Nigeria	24 (17-33)	13 (9-20)
Niue	.	.
North Macedonia	13 (8-22)	4 (2-8)
Norway	20 (12-33)	4 (2-9)
occupied Palestinian territory	29 (17-45)	19 (10-33)
Oman	.	.
Pakistan	29 (19-40)	16 (10-25)
Palau	31 (18-47)	14 (7-26)
Panama	16 (10-25)	8 (4-13)
Papua New Guinea	51 (36-65)	31 (19-45)
Paraguay	18 (11-29)	6 (3-10)
Peru	38 (31-47)	11 (8-15)
Philippines	14 (10-21)	6 (4-9)
Poland	13 (8-20)	3 (2-6)
Portugal	18 (10-29)	4 (2-9)
Qatar	.	.
Republic of Korea	.	8 (5-14)
Republic of Moldova	27 (17-39)	9 (5-15)
Romania	18 (10-30)	7 (4-12)
Russian Federation	.	.
Rwanda	38 (27-50)	23 (16-33)
Saint Kitts and Nevis	.	.
Saint Lucia	.	.
Saint Vincent and the Grenadines	.	.
Samoa	40 (25-57)	18 (9-32)
San Marino	.	.
Sao Tome and Principe	27 (16-41)	18 (10-31)
Saudi Arabia	.	.
Senegal	24 (15-36)	12 (7-21)
Serbia	17 (10-26)	4 (2-7)
Seychelles	.	.
Sierra Leone	36 (23-51)	20 (11-32)
Singapore	11 (5-22)	2 (1-6)
Slovakia	18 (10-30)	6 (3-12)
Slovenia	18 (11-28)	3 (2-7)

Solomon Islands	50 (33-67)	28 (15-46)
Somalia	.	.
South Africa	24 (14-36)	13 (7-23)
South Sudan	41 (23-61)	27 (13-48)
Spain	15 (10-23)	3 (2-5)
Sri Lanka	24 (14-38)	4 (2-9)
Sudan	.	17 (9-30)
Suriname	28 (18-42)	8 (4-14)
Sweden	21 (12-32)	6 (3-11)
Switzerland	12 (6-21)	2 (1-4)
Syrian Arab Republic	.	.
Tajikistan	24 (16-34)	14 (9-22)
Thailand	24 (12-42)	9 (4-20)
Timor-Leste	38 (27-50)	28 (19-40)
Togo	25 (15-38)	13 (7-22)
Tonga	37 (23-55)	17 (9-31)
Trinidad and Tobago	28 (18-42)	7 (4-14)
Tunisia	25 (14-40)	10 (5-19)
Turkey	32 (22-45)	12 (8-19)
Turkmenistan	.	.
Tuvalu	39 (24-56)	20 (10-35)
Uganda	45 (34-57)	26 (18-36)
Ukraine	18 (12-25)	9 (5-13)
United Arab Emirates	.	.
United Kingdom of Great Britain and Northern Ireland	24 (14-38)	4 (2-8)
United Republic of Tanzania	38 (28-50)	24 (16-35)
United States of America	26 (14-43)	6 (4-9)
Uruguay	18 (10-32)	4 (2-9)
Uzbekistan	.	.
Vanuatu	47 (31-64)	29 (16-48)
Venezuela, Bolivarian Republic of	19 (11-31)	8 (4-16)
Viet Nam	25 (15-38)	10 (5-17)
Yemen	.	.
Zambia	41 (29-55)	28 (19-39)
Zimbabwe	35 (24-47)	18 (12-26)

S6: Checklist of information that should be included in new reports of global health estimates



Item #	Checklist item	Reported on page #
Objectives and funding		
1	Define the indicator(s), populations (including age, sex, and geographic entities), and time period(s) for which estimates were made.	Section 2 and Section 3 of report
2	List the funding sources for the work.	FDCO - Acknowledgement section
Data Inputs		
<i>For all data inputs from multiple sources that are synthesized as part of the study:</i>		
3	Describe how the data were identified and how the data were accessed.	p4 of preprint Section 3 of report
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	p4 of preprint Section 3 of report
5	Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant.	Database and code to replicate analyse will be included on the data visualization platform. Data code is made available on GitHub
6	Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5).	NA
<i>For data inputs that contribute to the analysis but were not synthesized as part of the study:</i>		
7	Describe and give sources for any other data inputs.	NA
<i>For all data inputs:</i>		
8	Provide all data inputs in a file format from which data can be efficiently extracted (e.g., a spreadsheet rather than a PDF), including all relevant meta-data listed in item 5. For any data inputs that cannot be shared because of ethical or legal reasons, such as third-party ownership, provide a contact name or the name of the institution that retains the right to the data.	Excel or .csv file will be included on the data visualization platform. Link to be included when data uploaded and site launched

Data analysis

9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	p5 (Fig1) of preprint Section 3 of the report – Fig 1
10	Provide a detailed description of all steps of the analysis, including mathematical formulae. This description should cover, as relevant, data cleaning, data pre-processing, data adjustments and weighting of data sources, and mathematical or statistical model(s).	p4-13 of preprint Section3 of the report Annex4
11	Describe how candidate models were evaluated and how the final model(s) were selected.	p13 of preprint Section 3 of the report
12	Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.	p20-21 of preprint Section 3 of the report
13	Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.	p12-13 of preprint Section 3 of preprint
14	State how analytic or statistical source code used to generate estimates can be accessed.	p14 of preprint Section 3 of report and Annex 4

Results and Discussion

15	Provide published estimates in a file format from which data can be efficiently extracted.	Excel or .csv file will be included on the data visualization platform. Link to be included when data uploaded and site launched
16	Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).	Section 3 of report
17	Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.	Section 4 of the report
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.	p22 of preprint Section 2, 3,4 and 5 of report

This checklist should be used in conjunction with the GATHER statement and Explanation and Elaboration document, found on gather-statement.org

Reference

Maheu-Giroux M, Sardinha L, Stöckl H, Meyer S, Godin A, Alexander M, García-Moreno C. A framework to model global, regional, and national estimates of intimate partner violence. MedRxiv Preprint; 2020.
<https://doi.org/10.1101/2020.11.19.20235101>