The RECORD statement – checklist of items, extended from the STROBE statement, that should be reported in observational studies using routinely collected health data.

	Item No.	STROBE items	Location in manuscript where items are reported	RECORD items	Location in manuscript where items are reported
Title and abstra	act				-
	1	(a) Indicate the study's design with a commonly used term in the title or the abstract (b) Provide in the abstract an informative and balanced summary of what was done and what was found	Abstract: Methods and Findings 1 st paragraph	 RECORD 1.1: The type of data used should be specified in the title or abstract. When possible, the name of the databases used should be included. RECORD 1.2: If applicable, the geographic region and timeframe within which the study took place should be reported in the title or abstract. RECORD 1.3: If linkage between databases was conducted for the study, this should be clearly stated in the title or abstract. 	Abstract: Methods and Findings 1 st paragraph
Introduction					
Background rationale	2	Explain the scientific background and rationale for the investigation being reported	Introduction: Paragraph 4		
Objectives	3	State specific objectives, including any prespecified hypotheses	Introduction: Paragraph 5		
Methods					
Study Design	4	Present key elements of study design early in the paper	Methods: Paragraphs 1-2		
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection			

Participants	6	 (a) Cohort study - Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up Case-control study - Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls Cross-sectional study - Give the eligibility criteria, and the sources and methods of selection of participants (b) Cohort study - For matched studies, give matching criteria and number of exposed and unexposed Case-control study - For matched studies, give matching criteria and the number of exposed 	Methods: Paragraphs 2-3	 RECORD 6.1: The methods of study population selection (such as codes or algorithms used to identify subjects) should be listed in detail. If this is not possible, an explanation should be provided. RECORD 6.2: Any validation studies of the codes or algorithms used to select the population should be referenced. If validation was conducted for this study and not published elsewhere, detailed methods and results should be provided. RECORD 6.3: If the study involved linkage of databases, consider use of a flow diagram or other graphical display to demonstrate the data linkage process, including the number of individuals with linked data at each stage. 	The study population was based upon the sampling framework specified for each individual nationally- representative survey (e.g. DHS and MICS). These details are presented in the survey reports and cannot be listed for all 81 countries here. Details about the linking have been published elsewhere and key references are cited in this
Variables	7	controls per caseClearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable.	Methods: Paragraph 5 and Table 2	RECORD 7.1: A complete list of codes and algorithms used to classify exposures, outcomes, confounders, and effect modifiers should be provided. If these cannot be reported, an explanation should be provided.	manuscript. Methods: Paragraph 5 and Table 2
Data sources/ measurement	8	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	Methods: Paragraph 4 and Table 1		

Bias	9	Describe any efforts to address	Methods: Paragraph		
	10	potential sources of bias	6		
Study size	10	Explain how the study size was	Methods: Paragraph		
		arrived at	2		
Quantitative	11	Explain how quantitative	Methods: Paragraphs		
variables		variables were handled in the	4-5		
		analyses. If applicable, describe			
		which groupings were chosen,			
		and why			
Statistical	12	(a) Describe all statistical	(a) Methods:		
methods		methods, including those used to	Paragraph 7		
		control for confounding	(b) N/A		
		(b) Describe any methods used	(c) N/A		
		to examine subgroups and	(d) N/A		
		interactions	(e) Methods:		
		(c) Explain how missing data	Paragraph 6		
		were addressed			
		(d) <i>Cohort study</i> - If applicable,			
		explain how loss to follow-up			
		was addressed			
		<i>Case-control study</i> - If			
		applicable, explain how			
		matching of cases and controls			
		was addressed			
		Cross-sectional study - If			
		applicable, describe analytical			
		methods taking account of			
		sampling strategy			
		(e) Describe any sensitivity			
		analyses			
Data access and				RECORD 12.1: Authors should	N/A: This was a
cleaning methods				describe the extent to which the	cross-sectional
				investigators had access to the database	secondary data
				population used to create the study	analysis of
				population.	publicly available
					national datasets.

Linkage				RECORD 12.2: Authors should provide information on the data cleaning methods used in the study. RECORD 12.3: State whether the study included person-level, institutional-level, or other data linkage across two or more databases. The methods of linkage and methods of linkage quality evaluation should be provided.	Details about the linking have been published elsewhere and key references are cited in this manuscript.
Results Participants	13	 (a) Report the numbers of individuals at each stage of the study (<i>e.g.</i>, numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed) (b) Give reasons for non-participation at each stage. (c) Consider use of a flow diagram 	N/A: This was a cross-sectional secondary data analysis of publicly available national datasets.	RECORD 13.1: Describe in detail the selection of the persons included in the study (<i>i.e.</i> , study population selection) including filtering based on data quality, data availability and linkage. The selection of included persons can be described in the text and/or by means of the study flow diagram.	N/A: This was a cross-sectional secondary data analysis of publicly available national datasets.
Descriptive data	14	 (a) Give characteristics of study participants (<i>e.g.</i>, demographic, clinical, social) and information on exposures and potential confounders (b) Indicate the number of participants with missing data for each variable of interest (c) <i>Cohort study</i> - summarise follow-up time (<i>e.g.</i>, average and total amount) 	N/A: This was a cross-sectional secondary data analysis of publicly available national datasets.		N/A: This was a cross-sectional secondary data analysis of publicly available national datasets.
Outcome data	15	Cohort study - Report numbersof outcome events or summarymeasures over timeCase-control study - Reportnumbers in each exposure	Results: Paragraphs 1-3		

		category, or summary measures of exposure <u>Cross-sectional study</u> - Report numbers of outcome events or summary measures			
Main results	16	 (a) Give unadjusted estimates and, if applicable, confounder- adjusted estimates and their precision (e.g., 95% confidence interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period 	 (a) Ranges are provided if calculated. (b) N/A (c) N/A 		
Other analyses	17	Report other analyses done— e.g., analyses of subgroups and interactions, and sensitivity analyses	N/A		
Discussion					
Key results	18	Summarise key results with reference to study objectives	Discussion: Paragraph 1		
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	Discussion: Paragraph 3-5	RECORD 19.1: Discuss the implications of using data that were not created or collected to answer the specific research question(s). Include discussion of misclassification bias, unmeasured confounding, missing data, and changing eligibility over time, as they pertain to the study being reported.	Discussion: Paragraph 3-5
Interpretation	20	Give a cautious overall interpretation of results considering objectives,	Discussion: Paragraph 7		

Generalisability	21	limitations, multiplicity of analyses, results from similar studies, and other relevant evidence Discuss the generalisability (external validity) of the study results	Discussion: Paragraph 5		
Other Information	on				
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	This work was funded by the Bill & Melinda Gates Foundation (grant OPP1161450). The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.		
Accessibility of protocol, raw data, and programming code			Detailed information about the model is available at: https://www.livessav edtool.org/	RECORD 22.1: Authors should provide information on how to access any supplemental information such as the study protocol, raw data, or programming code.	Detailed information about the model is available at: https://www.lives savedtool.org/

*Reference: Benchimol EI, Smeeth L, Guttmann A, Harron K, Moher D, Petersen I, Sørensen HT, von Elm E, Langan SM, the RECORD Working Committee. The REporting of studies Conducted using Observational Routinely-collected health Data (RECORD) Statement. *PLoS Medicine* 2015; in press.

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