## STROBE Statement—checklist of items that should be included in reports of observational studies

Section/item	Item No	Recommendation	Reported on Page Number/Line Number	Reported on Section/Paragraph
Title and abstract	_	(a) Indicate the study's design with a commonly used term in the title or the abstract	Page1/line2-3	Title/Para1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 3,4/line6-22, 1-2	Abstract/Para 3-4
Introduction				
Background/ rationale	N	Explain the scientific background and rationale for the investigation being reported	Page5/line2-9	Introduction/Paral
Objectives	ω	State specific objectives, including any prespecified hypotheses	Page5/line10-19	Introduction/Para2
Methods				
Study design	4	Present key elements of study design early in the paper	Page6,7/line18-22,1	Method/Para4
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page6/line2-5	Method/Para1
Participants	თ	(a) <i>Cohort study</i> —Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up <i>Case-control study</i> —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 <i>Cross-sectional study</i> —Give the eligibility criteria, and the sources and methods of selection of participants	Page6/line6-12	Method/Para2
		(b) <i>Cohort study</i> —For matched studies, give matching criteria and number of exposed and unexposed <i>Case-control study</i> —For matched studies, give matching criteria and the number of controls per case	Page6/line6-12	Method/Para2
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page6,7/line18-22,1	Method/Para4
Data sources/ measurement	œ <sub>*</sub>	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	Page6,7/line18-22,1	Method/Para4
Bias	9	Describe any efforts to address potential sources of bias	Page6/line6-12	Method/Para2
Study size	10	Explain how the study size was arrived at	Page6/line2-16	Method/Para1-3
Quantitative variables	1	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page6,7/line18-22,1	Method/Para4

Discussion/Para4	Page10/line17-23	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	19	Limitations
Discussion/Para1	Page9/line6-18	Summarise key results with reference to study objectives	18	Key results
				Discussion
Result/Para4	Page8,9/line18-22,1-3	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	17	Other analyses
Result/Para3,4	Page8,9/line11-22,1-3	(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period		
Result/Para3,4	Page8,9/line11-22,1-3	(b) Report category boundaries when continuous variables were categorized		
Result/Para3,4	Page8,9/line11-22,1-3	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	16	Main results
N/A	N/A	Cross-sectional study—Report numbers of outcome events or summary measures		
Result/Para2,3	Page8/line1-16	Case-control study—Report numbers in each exposure category, or summary measures of exposure		
N/A	N/A	Cohort study—Report numbers of outcome events or summary measures over time	15*	Outcome data
Result/Para2	Page8/line1-9	(c) Cohort study—Summarise follow-up time (eg, average and total amount)		
Result/Para1,2	Page7,8/line15-21,1-9	(b) Indicate number of participants with missing data for each variable of interest		
Result/Para1,2	Page7,8/line15-21,1-9	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	14*	Descriptive data
Result/Para1	Page7/line15-21	(c) Consider use of a flow diagram		
Result/Para1	Page7/line15-21	(b) Give reasons for non-participation at each stage		
Result/Para1	Page7/line15-21	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	13*	Participants
				Results
Method/Para5	Page7/line3-11	(e) Describe any sensitivity analyses		
Method/Para5	Page7/line3-11	(d) Cohort study—If applicable, explain how loss to follow-up was addressed  Case-control study—If applicable, explain how matching of cases and controls was addressed  Cross-sectional study—If applicable, describe analytical methods taking account of sampling strategy		
Method/Para5	Page7/line3-11	(c) Explain how missing data were addressed		
Method/Para5	Page7/line3-11	(b) Describe any methods used to examine subgroups and interactions		methods
Method/Para5	Page7/line3-11	(a) Describe all statistical methods, including those used to control for confounding	12	Statistical

Acknowledgement/Para1	Page11/line7-8	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	22	Funding
			-	Other information
Discussion/Para1	Page9/line6-18	21 Discuss the generalisability (external validity) of the study results	21	Generalisability
Discussion/Para2,3	Page9,10/line19-22,1-16	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	20	Interpretation

\*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org. checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www. Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE

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\*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.