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	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	Page2 line11-18	Abstract Para1-2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page2 line19-Page3 line7	Abstract Para3-4
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page4 line2-12	Introduction Para1-2
Objectives	3	State specific objectives, including any prespecified hypotheses	Page4 line12-14	Introduction Para2
Methods				
Study design	4	Present key elements of study design early in the paper	Page5 line4-6	Methods Para1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page5 line3-4	Methods Para1
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	Page4 line18-Page5 line9	Methods Para1
		(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 controls per case	Page4 line18-Page5 line9	Methods Para1
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page7 line2-5	Methods Para5
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	Page5 line12-Page6 line7	Methods Para2-3
Bias	9	Describe any efforts to address potential sources of bias	Page5 line12-13	Methods Para2
Study size	10	Explain how the study size was arrived at	Page4 line18-Page line4	Methods Para1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page6 line13-17	Methods Para4

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page6 line10-17	Methods Para4
		(b) Describe any methods used to examine subgroups and interactions	Page6 line10-17	Methods Para4
		(c) Explain how missing data were addressed	Page6 line10-17	Methods Para4
		(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	Page6 line10-17	Methods Para4
		(e) Describe any sensitivity analyses	Page6 line10-17	Methods Para4
Results				
Participants	13*	(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	Page7 line9-10	Results Para1
		(b) Give reasons for non-participation at each stage	N/A all participants	N/A all participants
		(c) Consider use of a flow diagram	N/A all participants	N/A all participants
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page10 line10-16	Results Para1
		(b) Indicate number of participants with missing data for each variable of interest	N/A nothing	N/A nothing
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Not Cohort study	Not Cohort study
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Not Cohort study	Not Cohort study
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	Page7 line13-Page8 line10	Results Para1-3
		Cross-sectional study—Report numbers of outcome events or summary measures	Not Cross sectional study	Not Cross sectional study
Main results	16	(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	Not Cohort study	Not Cohort study
		(b) Report category boundaries when continuous variables were categorized	Page8 line10-17	Results Para3
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Not Cohort study	Not Cohort study
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Page8 line18-Page9 line5	Results Para4
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page12 line3-8	Discussion Para5
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	Page11 line18-Page12 line2	Discussion Para4

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page10 line9-Page11 line9	Discussion Para3
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page11 line10-118	Discussion Para4
Other information				
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	Page12 line15-16	Footnote

*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.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE 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.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.

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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.