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	Page 3/ line 39	Abstract
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page3/line 43-52	Abstract
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 4 & 5 / line 57-88	Introduction / para 4
Objectives	3	State specific objectives, including any prespecified hypotheses	page 6 / line 89-94	Introduction / para 4
Methods				
Study design	4	Present key elements of study design early in the paper	Page 6 /line 96-105	Method /para1 (study
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 6 / line 108-110	Method / para 2 (exclusion and inclusion
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	Page 6 / line 110-118	Method / para 2 (inclusion and exclusion criteria)
		(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	Not applicable	Not applicable
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page 7~8 / line 135-155	Method / para 4~5
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	Page 7~8 / line 135-155	Method / para 4~5
Bias	9	Describe any efforts to address potential sources of bias	Page 6 / line 110-118	Method / para 2
Study size	10	Explain how the study size was arrived at	Page 6 / line 107-118	Method / para 2
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Not applicable	Not applicable

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 8/ line 157-169	Method / para 6
		(b) Describe any methods used to examine subgroups and interactions	Not applicable	Not applicable
		(c) Explain how missing data were addressed	Page 8/ line 168-169	Method / para 6
		(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	Not applicable. All data of included subjects was used. Sampling was not used.	Not applicable All data of included subjects was used. Sampling was not used.
		(e) Describe any sensitivity analyses	Not applicable	Not applicable
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	Not applicable. This study is cross sectional study	Not applicable. This study is cross sectional study
		(b) Give reasons for non-participation at each stage	Page 9 / line 172-173	Result / Figure 1
		(c) Consider use of a flow diagram	Page 9 / line 172-173	Result / Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 9 / line 173-175	Result / Table 1
		(b) Indicate number of participants with missing data for each variable of interest	N/A All subjects who	N/A All subjects who
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Not applicable	Not applicable
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	N/A due to study design	N/A due to study design
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	N/A due to study design	N/A due to study design
		Cross-sectional study—Report numbers of outcome events or summary measures	Not applicable	Not applicable
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 applicable	Not applicable
		(b) Report category boundaries when continuous variables were categorized	Page 9-10 / line 193-205	Result / para 3
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Not applicable	Not applicable
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Not applicable	Not applicable
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 12 / line 235-240	Discussion / para 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	Page 13 / line 274-280	Discussion / para 5

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page 12-13 / line 247-260	Discussion / para 3
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 12 / line 241-246	Discussion / para 2
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	Page 13 / line 289-292	Acknowledgements / Para. 1

*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.