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 1 / line 1 to 2	Title Page
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 2/ line 23 to 49	Abstract and keywords
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 2 / line 52 to 74	Text /Introduction
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 4 /lines 75 to 78	Text /Objectives
Methods				
Study design	4	Present key elements of study design early in the paper	Page 4 /line 81 to 96	Text /Methods
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 4 /lines 81 to 89 Page 6 /lines 126 to 1 27	Text /Methods
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 5 /line 82 to 94	Text /Methods
		(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	This is not a case control study
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page 5 /line 98 to 123	Text /Methods
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 5 /line 99 to 123	Text /Methods
Bias	9	Describe any efforts to address potential sources of bias	Page 6 /line 122 to 12 3	Text /Methods
Study size	10	Explain how the study size was arrived at	Page 4 /lines 82 to 83	Text /Methods
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page 6 /lines 128 to 1 30	Text /Methods

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 6 /lines 126 to 138	Text /Methods
		(b) Describe any methods used to examine subgroups and interactions	Page 6 /lines 126 to 138	Text /Methods
		(c) Explain how missing data were addressed	Not Applicable	There was no lost for follow-up
		(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	There was no lost for follow-up
		(e) Describe any sensitivity analyses	Page 6 /lines 126 to 138	Text /Methods
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	Page 7/ line 142	Text /Results
		(b) Give reasons for non-participation at each stage	Not applicable	No excluded patient
		(c) Consider use of a flow diagram	Not applicable	Not digram as therer is No
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 7 /line 143-158	Text /Results
		(b) Indicate number of participants with missing data for each variable of interest	Not applicable	No missing data
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Page 6 / line 126 to 137	Text /Methods
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Page 8 /line 161 to 166	Text /Results
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	Not applicable	Not a case control study
		Cross-sectional study—Report numbers of outcome events or summary measures	Not applicable	Not a 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	Page 10 /line 211 to 219	No statistical anlysis
		(b) Report category boundaries when continuous variables were categorized	Not applicable	No translating
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Not applicable	No statistical anlysis
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Page 8 /line 160 to 23	Text /Results
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 11/ line 238 to 238	Text /Discussion
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 14/ line 296 to 299	Text / Discussion

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page 11 /line 239 to 295	Text / Discussion
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 13/ line 286-288	Text / Discussion
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 15/ line 309-312	Funding

*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.