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 1-7	Tittle / abstract
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 1/Line 5-7	Abstract
Introduction	•			
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 3/Line 60- 84	Introduction/Paragraph1-3
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 6/Line 96- 100	Introduction/Paragraph5
Methods	•			
Study design	4	Present key elements of study design early in the paper	Page 4/Line 106- 110	Methods/Paragraph2-3
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 4-5/Line 106-124	Methods/Paragraph2-3
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 119- 124	Methods/Paragraph 3
		(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	Page 4-5/Line 106- 124	Methods/Paragraph 3
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page 6/Line 153- 163	Methods/Paragraph 8
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 119- 124	Methods/Paragraph 3
Bias	9	Describe any efforts to address potential sources of bias	Page 5/Line 142- 146	Methods/Paragraph 6
Study size	10	Explain how the study size was arrived at	Not applicable	Not applicable ,
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page5-6/Line141-166	Methods/Paragraph7-9

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 6-7/Line168-184	Statistical analysis Paragraph1-2
		(b) Describe any methods used to examine subgroups and interactions	Not applicable	Not applicable :
		(c) Explain how missing data were addressed	Not applicable: no missing data	Not applicable: no missing data
		(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	Page 5/Line121-124	Methods/Paragraph 3
		(e) Describe any sensitivity analyses	Not applicable: no any sensitivity analyses	Not applicable: no any sensitivity analyses
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 4-5/Line106-125 Page 7/Line 186-190	Methods/Paragraph 2-3 Results/Paragraph 1
		(b) Give reasons for non-participation at each stage	Page 4-5/Line109-124 Page 7/Line 186-190	Methods/Paragraph Results/Paragraph 1
		(c) Consider use of a flow diagram	Page 5/Line124-125	Methods/Paragraph Figure1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 5/Line119-124	Methods/Paragraph 3
		(b) Indicate number of participants with missing data for each variable of interest	Not applicable	Not applicable
		(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	Not applicable	Not applicable
		Case-control study — Report numbers in each exposure category, or summary measures of exposure	Page 5/Line119-124	Methods/Paragraph 3
		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	Page13- 14/Line194-230	Result/Paragraph 2-5 Table2 table3
		(b) Report category boundaries when continuous variables were categorized	Not applicable	Not applicable
		(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 8/Line 232-238	Discussion/Paragraph1
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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 11/Line 309-325	Discussion/ Paragraph 9				
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page9-11/Line 256-3081	Discussion/Paragraph 4-8				
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 10-11/Line 296-308	Discussion/ Paragraph 8				
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 12/Line 336-341	Acknowledgements				

^{*}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.

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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.