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 1-3	Title
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 2, Line 57-68	Abstract, 3rd Paragraph
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 5, Line 189-204	Introduction, 3rd Paragraph
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 5, Line 201-204	Introduction, 4th Parag.
Methods				
Study design	4	Present key elements of study design early in the paper	Page 6, Line 224	Methods, Parag 1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 6, Line 222-259	Methods, Parag 1
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 225-226	Methods, Parag 1
		(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	No controls	No controls
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page 6, Line 237-238	Methods, Parag 2
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, Line 247	Methods, 3rd Parag
Bias	9	Describe any efforts to address potential sources of bias	Page 7, Line 251	Methods, 3rd Parag
Study size	10	Explain how the study size was arrived at	Page 7, Line 270	Results, Parag 1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page 6, Line 256-60	Methods, Parag 4

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 7, Line 255-260	Methods, 4th Parag
		(b) Describe any methods used to examine subgroups and interactions	No subgroup analyses	No subgroup analyses
		(c) Explain how missing data were addressed	Page 7, Line 252-253	Methods, 3rd Parag
		(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 7, Line 242-252	Methods, 3rd Parag
		(e) Describe any sensitivity analyses	No sensitivity analyses	No 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	All eligible participants recruited	All eligible participants recruited
		(b) Give reasons for non-participation at each stage	All eligible participants	All eligible participants
		(c) Consider use of a flow diagram	All eligible participants	All eligible participants
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 7, Line 264-273	Results, Parag 1
		(b) Indicate number of participants with missing data for each variable of interest	No missing data	No missing data
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Page 8, Line 273	Results, Parag 1
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Table 1	Table 1
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	no controls	no controls
		Cross-sectional study—Report numbers of outcome events or summary measures	not cross sectional	not cross sectional
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	No confounder adjustment	No confounder adjustment
		(b) Report category boundaries when continuous variables were categorized	Figure 1	Figure 1
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	No risk analyses	No risk analyses
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	No sensitivity analyses	No sensitivity analyses
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 8, Line 293-397	Discussion, Parag 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 398-412	Discussion, Parag 9

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page 13, Line 414-420	Conclusion, Parag 1
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 13, Line 414-420	Conclusion, Parag 1
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	No funding	No 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.

Article information:https://dx.doi.org/10.21037/jss-22-5
*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.