

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	50	Methodology
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	44 - 64	Abstract
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	68-118	Introduction
Objectives	3	State specific objectives, including any prespecified hypotheses	111 -118	Introduction
Methods				
Study design	4	Present key elements of study design early in the paper	50	Methodology
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	124-130	Methodology
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	124-130	Methodology
		(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	NA	NA
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	132-144	Methodology
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	132-144	Methodology
Bias	9	Describe any efforts to address potential sources of bias	237-247	Discussion on limitation
Study size	10	Explain how the study size was arrived at	124-130	Methodology
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	139-144	Methodology

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	139-144	Methodology
		(b) Describe any methods used to examine subgroups and interactions	NA	NA
		(c) Explain how missing data were addressed	155-157	Results
		(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	NA	NA
		(e) Describe any sensitivity analyses	NA	NA
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	146-201	Results
		(b) Give reasons for non-participation at each stage	155-157	Results
		(c) Consider use of a flow diagram	NA	NA
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	147-151	Results
		(b) Indicate number of participants with missing data for each variable of interest	155-157	Results
		(c) Cohort study —Summarise follow-up time (eg, average and total amount)	NA	NA
Outcome data	15*	Cohort study —Report numbers of outcome events or summary measures over time	146-201	Results
		Case-control study —Report numbers in each exposure category, or summary measures of exposure	NA	NA
		Cross-sectional study —Report numbers of outcome events or summary measures	NA	NA
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	NA	NA
		(b) Report category boundaries when continuous variables were categorized	139-144	Methodology
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA	NA
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	NA	NA
Discussion				
Key results	18	Summarise key results with reference to study objectives	270-278	Conclusion
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	237-247	Discussion

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	237-247	Discussion
Generalisability	21	Discuss the generalisability (external validity) of the study results	270-278	Conclusion
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	289-290	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.

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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.