

STROBE Statement—checklist of items that should be included in reports of observational studies

	Item	Recommendation	Page
	No		
<b>Title and abstract</b>	1	(a) Indicate the study's design with a commonly used term in the title or the	2
		(b) Provide in the abstract an informative and balanced summary of what was done	3
<b>Introduction</b>			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported ✓	3
Objectives	3	State specific objectives, including any prespecified hypotheses ✓	3
<b>Methods</b>			
Study design	4	Present key elements of study design early in the paper ✓	5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection ✓	5
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up ✓	6
		(b) Cohort study—For matched studies, give matching criteria and number of exposed and unexposed ✓	6
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable ✓	6
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 ✓	8
Bias	9	Describe any efforts to address potential sources of bias	
Study size	10	Explain how the study size was arrived at ✓	8
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why ✓	9
Statistical methods	12	(a) Describe all statistical methods, including those used to control for	7
		(b) Describe any methods used to examine subgroups and interactions ✓	8
		(c) Explain how missing data were addressed ✓	6
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed ✓	6

		Case-control study—If applicable, explain how matching of cases and controls addressed	
		Cross-sectional study—If applicable, describe analytical methods taking account sampling strategy ✓	6
		(e) Describe any sensitivity analyses	
<b>Results</b>			
Participants	13	(a) Report numbers of individuals at each stage of study—eg numbers potentially examined for eligibility, confirmed eligible, included in the study, completing	6
		(b) Give reasons for non-participation at each stage ✓	6
		(c) Consider use of a flow diagram ✓	6
Descriptive data	14	(a) Give characteristics of study participants (eg demographic, clinical, social) and on exposures and potential confounders	8
		(b) Indicate number of participants with missing data for each variable of interest	
		(c) Cohort study—Summarise follow-up time (eg, average a	
Outcome data	15	Cohort study—Report numbers of outcome events or summary measures over	
		Case-control study—Report numbers in each exposure category, or summary	
		Cross-sectional study—Report numbers of outcome events or summary measures	9
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates precision (eg, 95% confidence interval). Make clear which confounders were why they were included ✓	9
		(b) Report category boundaries when continuous variables were categorized ✓	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a time period ✓	9
			10
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and	10
<b>Discussion</b>			
Key results	18	Summarise key results with reference to study objectives ✓	13
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or	13
		Discuss both direction and magnitude of any potential bias	

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, of analyses, results from similar studies, and other relevant evidence √	13
Generalisability	21	Discuss the generalisability (external validity) of the study results √	12
<b>Other information</b>			
Funding	22	Give the source of funding and the role of the funders for the present study and, if for the original study on which the present article is based √	1