

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

	Item No	Recommendation
<b>Title and abstract</b>	1	(a) Indicate the study's design with a commonly used term in the title or the abstract PAGE 1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found PAGE 2
<b>Introduction</b>		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported PAGE 3
Objectives	3	State specific objectives, including any prespecified hypotheses PAGE 3
<b>Methods</b>		
Study design	4	Present key elements of study design early in the paper PAGE 4
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection PAGE 4
Participants	6	(a) <i>Cohort study</i> —Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up PAGE 4
		(b) <i>Cohort study</i> —For matched studies, give matching criteria and number of exposed and unexposed NOT APPLICABLE
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable PAGE 4
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 4
Bias	9	Describe any efforts to address potential sources of bias PAGE 4
Study size	10	Explain how the study size was arrived at PAGE 4
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why PAGE 5
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding PAGE 5

(b) Describe any methods used to examine subgroups and interactions

NOT APPLICABLE

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(c) Explain how missing data were addressed

SEE TABLE 2

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(d) *Cohort study*—If applicable, explain how loss to follow-up was addressed

NOT APPLICABLE

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(e) Describe any sensitivity analyses

NOT APPLICABLE

Continued on next page

<b>Results</b>		
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 <b>PAGE 5</b> (b) Give reasons for non-participation at each stage <b>PAGE 5</b> (c) Consider use of a flow diagram <b>NOT APPLICABLE</b>
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders <b>PAGE 5</b> (b) Indicate number of participants with missing data for each variable of interest (c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount) <b>NOT APPLICABLE</b>
Outcome data	15*	<i>Cohort study</i> —Report numbers of outcome events or summary measures over time <b>PAGE 5</b>
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 <b>PAGE 5-6, and Tables</b> (b) Report category boundaries when continuous variables were categorized <b>PAGE 5-6 and Tables</b> (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period <b>NOT APPLICABLE</b>
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses <b>PAGE 5-6, Tables, Figures</b>
<b>Discussion</b>		
Key results	18	Summarise key results with reference to study objectives <b>PAGE 7</b>
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 <b>PAGE 8</b>
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence <b>PAGE 8</b>
Generalisability	21	Discuss the generalisability (external validity) of the study results <b>PAGE 8</b>
<b>Other information</b>		
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

\*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](http://www.strobe-statement.org).