

## 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	1/1	Title
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	1 of Abstract	Abstract
<b>Introduction</b>				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	1-4, Lines 16 -86	Introduction, Paragraph 1 - 5
Objectives	3	State specific objectives, including any prespecified hypotheses	4 Line 88-92	Introduction,
<b>Methods</b>				
Study design	4	Present key elements of study design early in the paper	5 Lines 97 -101	Methods, Paragraph 1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	5 Lines 101 -111	Methods, Paragraph 1
Participants	6	(a) <b>Cohort study</b> —Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up <b>Case-control study</b> —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 <b>Cross-sectional study</b> —Give the eligibility criteria, and the sources and methods of selection of participants	5, Lines 114 - 115, Page 7, 143- 154	Methods, Paragraph 2 and 6
		(b) <b>Cohort study</b> —For matched studies, give matching criteria and number of exposed and unexposed <b>Case-control study</b> —For matched studies, give matching criteria and the number of controls per case	not applicable	Not a matched study
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	5, Lines 101-11, Page 7, Lines 143 -154	Methods, Paragraph 1 and 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	Page 5, Lines 101 -102	Methods, Paragraph 1
Bias	9	Describe any efforts to address potential sources of bias	No bias - data	Methods, Paragraph 1
Study size	10	Explain how the study size was arrived at	5 - Lines 97-99	Methods, Paragraph 1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	6, Lines 157 -166	Methods, Paragraph 7

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	6, Lines 157 -166	Methods, Paragraph 7
		(b) Describe any methods used to examine subgroups and interactions	6, Lines 157 -166	Methods, Paragraph 7
		(c) Explain how missing data were addressed	6 - No missing data	PApatients moved for
		(d) <b>Cohort study</b> —If applicable, explain how loss to follow-up was addressed <b>Case-control study</b> —If applicable, explain how matching of cases and controls was addressed <b>Cross-sectional study</b> —If applicable, describe analytical methods taking account of sampling strategy	No patients lost to follow-up	As above
		(e) Describe any sensitivity analyses	6 Lines 157 -166	Methods, Paragraph 7
<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	8 169 - 184 and page 9, tables	Results, Paragraph 1 and 2
		(b) Give reasons for non-participation at each stage	8, Lines 169 - 184	Results, Paragraph 1
		(c) Consider use of a flow diagram	9- table 1	Results
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	8- table 1	Results
		(b) Indicate number of participants with missing data for each variable of interest	7, Lines 169 - 184 and	Results
		(c) <b>Cohort study</b> —Summarise follow-up time (eg, average and total amount)	Page 7, lines 153-154	Methods, Paragraph 6
Outcome data	15*	<b>Cohort study</b> —Report numbers of outcome events or summary measures over time	Pages 9 -11, tables 1	Results
		<b>Case-control study</b> —Report numbers in each exposure category, or summary measures of exposure	N/A	N/A
		<b>Cross-sectional study</b> —Report numbers of outcome events or summary measures	N/A	N/A
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	Pages 8-11, tables 1-4	Results
		(b) Report category boundaries when continuous variables were categorized	Pages 8-11, Tables	Results
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	not relevant	not relevant
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Pag 6e 156 -166	Methods, paragraph 7
<b>Discussion</b>				
Key results	18	Summarise key results with reference to study objectives	Pages 13 -19 Lines	Discussion Paragraph
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	Pages 19, Lines 400 -407	Discussion, Paragraph 12

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	19, Lines 409 -419	Conclusion, Paragraph 1
Generalisability	21	Discuss the generalisability (external validity) of the study results	19, Lines 409 - 419	Conclusion Paragraph
<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	20, Lines 426-427	Financial Support, Paragraph 1

\*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).

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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.