

STROBE Statement—Checklist of items that should be included in reports of *case-control studies*

	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract <input checked="" type="checkbox"/> (b) Provide in the abstract an informative and balanced summary of what was done and what was found <input checked="" type="checkbox"/>
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported <input checked="" type="checkbox"/>
Objectives	3	State specific objectives, including any prespecified hypotheses <input checked="" type="checkbox"/>
Methods		
Study design	4	Present key elements of study design early in the paper <input checked="" type="checkbox"/>
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection <input checked="" type="checkbox"/>
Participants	6	(a) 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 <input checked="" type="checkbox"/> (b) For matched studies, give matching criteria and the number of controls per case <input checked="" type="checkbox"/>
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/>
Bias	9	Describe any efforts to address potential sources of bias <input checked="" type="checkbox"/>
Study size	10	Explain how the study size was arrived at <input checked="" type="checkbox"/>
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why <input checked="" type="checkbox"/>
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding <input checked="" type="checkbox"/> (b) Describe any methods used to examine subgroups and interactions <input checked="" type="checkbox"/> (c) Explain how missing data were addressed <input checked="" type="checkbox"/> (d) If applicable, explain how matching of cases and controls was addressed <input checked="" type="checkbox"/> (e) Describe any sensitivity analyses <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/> (b) Give reasons for non-participation at each stage <input checked="" type="checkbox"/> (c) Consider use of a flow diagram <input checked="" type="checkbox"/>
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders <input checked="" type="checkbox"/> (b) Indicate number of participants with missing data for each variable of interest <input checked="" type="checkbox"/>
Outcome data	15*	Report numbers in each exposure category, or summary measures of exposure <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/> (b) Report category boundaries when continuous variables were categorized <input checked="" type="checkbox"/>

(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period

Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses <input checked="" type="checkbox"/>
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Discussion

Key results	18	Summarise key results with reference to study objectives <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/>
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence <input checked="" type="checkbox"/>
Generalisability	21	Discuss the generalisability (external validity) of the study results <input checked="" type="checkbox"/>

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 <input checked="" type="checkbox"/>
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*Give information separately for cases and controls.

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 <http://www.strobe-statement.org>.