

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 ✓ (b) Provide in the abstract an informative and balanced summary of what was done and what was found ✓ <i>done.</i>
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported ✓ <i>line 40-61</i>
Objectives	3	State specific objectives, including any prespecified hypotheses ✓ <i>line 59-61</i>
Methods		
Study design	4	Present key elements of study design early in the paper ✓
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection ✓
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 ✓ (b) For matched studies, give matching criteria and the number of controls per case —
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable ✓
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 ✓ <i>line 74-78</i>
Bias	9	Describe any efforts to address potential sources of bias —
Study size	10	Explain how the study size was arrived at —
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why ✓ <i>line 79-94</i>
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding ✓ (b) Describe any methods used to examine subgroups and interactions — (c) Explain how missing data were addressed — (d) If applicable, explain how matching of cases and controls was addressed — (e) Describe any sensitivity analyses ✓ <i>line 96-107</i>
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 ✓ (b) Give reasons for non-participation at each stage — (c) Consider use of a flow diagram — <i>line 113-116</i>
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders ✓ <i>line 113-116</i> (b) Indicate number of participants with missing data for each variable of interest —
Outcome data	15*	Report numbers in each exposure category, or summary measures of exposure ✓ <i>117-121</i>
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 ✓ <i>line 122-128</i> (b) Report category boundaries when continuous variables were categorized ✓ (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	—
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Discussion

Key results	18	Summarise key results with reference to study objectives	X
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	✓
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	✓
Generalisability	21	Discuss the generalisability (external validity) of the study results	—

line 155-156

Done

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	✓
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Done.

*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>.