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
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported
Objectives	3	State specific objectives, including any prespecified hypotheses
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
1		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/	8*	For each variable of interest, give sources of data and details of methods of
measurement		assessment (measurement). Describe comparability of assessment methods if there is
measurement		more than one group
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 due study size was arrived at Explain how quantitative variables were handled in the analyses. If applicable,
Qualititative variables	11	describe which groupings were chosen and why
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding
Statistical inclineds	12	(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
D 14		(E) Describe any sensitivity analyses
Results	12*	
Participants	13*	
		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
Descriptive data	14*	
		information on exposures and potential confounders
0	1 5%	(b) Indicate number of participants with missing data for each variable of interest
Outcome data	15*	
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) 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
Discussion	
Key results	18 Summarise key results with reference to study objectives
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
Other informatio	n
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.

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.