	ltem No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	2/3
Introduction			
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	3
Objectives	3	State specific objectives, including any prespecified hypotheses	5
Methods			
Study design	4	Present key elements of study design early in the paper	5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	5/6
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up Case-control study—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 Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of participants	5/6
		(b) Cohort study—For matched studies, give matching criteria and number of exposed and unexposed Case-control study—For matched studies, give matching criteria and the number of controls per case	NA
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	7/8
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	7/8
Bias	9	Describe any efforts to address potential sources of bias	19
Study size	10	Explain how the study size was arrived at	NA
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	NA
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	10/11/12
		(b) Describe any methods used to examine subgroups and interactions	10/11/12
		(c) Explain how missing data were addressed	10
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed Case-control study—If applicable, explain how matching of cases and	10/11/12
		controls was addressed Cross-sectional study—If applicable, describe analytical methods taking account of sampling strategy	
		(e) Describe any sensitivity analyses	NA

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

Participants	13*	(a) Report numbers of individuals at each stage of study—eg	15/16
		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	15/16
		(c) Consider use of a flow diagram	NA
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic,	8/9
		clinical, social) and information on exposures and potential	
		confounders	
		(b) Indicate number of participants with missing data for each	25
		variable of interest	
		(c) Cohort study—Summarise follow-up time (eg, average and total	10/11
		amount)	
		Cross-sectional study—Report numbers of outcome events or	8/10/11
		summary measures	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted	12/13/14
		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	12
		categorized	
		(c) If relevant, consider translating estimates of relative risk into	NA
		absolute risk for a meaningful time period	
Other analyses	Other analyses 17	Report other analyses done—eg analyses of subgroups and	15
		interactions, and sensitivity analyses	
Discussion			
Key results	18	Summarize key results with reference to study objectives	15/16
Limitations	19	Discuss limitations of the study, taking into account sources of	18/19
		potential bias or imprecision. Discuss both direction and magnitude	
		of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering	18/19
		objectives, limitations, multiplicity of analyses, results from similar	
		studies, and other relevant evidence	
Generalizability	21	Discuss the generalizability (external validity) of the study results	15/16/17/18 /19
Other information			/
Funding	22	Give the source of funding and the role of the funders for the present	1
		study and, if applicable, for the original study on which the present	
		article is based	

NA: not applicable

*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.