	Item No	Recommendation	Page of document
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title	P3
		or the abstract	
		(b) Provide in the abstract an informative and balanced summary of	P3
		what was done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	P4
Objectives	3	State specific objectives, including any prespecified hypotheses	P4/5
Methods			
Study design	4	Present key elements of study design early in the paper	P6&7
Setting	5	Describe the setting, locations, and relevant dates, including periods	P6
6		of recruitment, exposure, follow-up, and data collection	
Participants	6	(<i>a</i>) <i>Cohort study</i> —Give the eligibility criteria, and the sources and	P6
	~	methods of selection of participants. Describe methods of follow-up	-
		<i>Case-control study</i> —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	
		(b) Cohort study—For matched studies, give matching criteria and	
		number of exposed and unexposed	
		<i>Case-control study</i> —For matched studies, give matching criteria and	
		the number of controls per case	
Variables	7	Clearly define all outcomes, exposures, predictors, potential	P6/7
		confounders, and effect modifiers. Give diagnostic criteria, if	
		applicable	
Data sources/	8*	For each variable of interest, give sources of data and details of	P6
measurement		methods of assessment (measurement). Describe comparability of	
		assessment methods if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	P12
Study size	10	Explain how the study size was arrived at	
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If	Table 1
		applicable, describe which groupings were chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to control	P6/7
		for confounding	
		(b) Describe any methods used to examine subgroups and	P6
		interactions	
		(c) Explain how missing data were addressed	P8
		(<i>d</i>) Cohort study—If applicable, explain how loss to follow-up was	
		addressed	
		Case-control study-If applicable, explain how matching of cases	
		and controls was addressed	
		Cross-sectional study—If applicable, describe analytical methods	

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

taking account of sampling strategy

 (\underline{e}) Describe any sensitivity analyses

Continued on next page

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	
Descriptive	14*	a) Give characteristics of study participants (eg demographic, clinical, social) and	
data		information on exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of interest	P8
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	
		Case-control study—Report numbers in each exposure category, or summary	
		measures of exposure	
		Cross-sectional study—Report numbers of outcome events or summary measures	P8
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and	P8/9
		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	Table
		meaningful time period	4
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	P10
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or	P12
		imprecision. Discuss both direction and magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations,	P11-
		multiplicity of analyses, results from similar studies, and other relevant evidence	12
Generalisability	21	Discuss the generalisability (external validity) of the study results	
Other information	on		
Funding	22	Give the source of funding and the role of the funders for the present study and, if	P20
		applicable, for the original study on which the present article is based	

*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.