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

	Item No.	Recommendation	Page No.	Relevant text from manuscript
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1	Title
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	2	Abstract, paragraph 2,3
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	3	Introduction, paragraph 1
Objectives	3	State specific objectives, including any prespecified hypotheses	3	Introduction, paragraph 3
Methods				
Study design	4	Present key elements of study design early in the paper	4	Methods, paragraph 1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4	Methods, paragraph 1
Participants	6	<ul> <li>(a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up</li> <li>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</li> <li>Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of</li> </ul>		
		participants	4	Methods, paragraph 1
		(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		
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	4	Methods, paragraph 1
Data sources/	8*	For each variable of interest, give sources of data and details of methods of assessment		
measurement		(measurement). Describe comparability of assessment methods if there is more than one group	4	Methods paragraph 3
Bias	9	Describe any efforts to address potential sources of bias	4	Methods, paragraph 3
Study size	10	Explain how the study size was arrived at	4	Methods, paragraph1

Continued on next page

Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	5	Methods, paragraph 4
Statistical	12	( <i>a</i> ) Describe all statistical methods, including those used to control for confounding	5	Methods, paragraph 5
methods		(b) Describe any methods used to examine subgroups and interactions		
		(c) Explain how missing data were addressed		
		(d) 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 taking account of sampling		
		strategy		
		( <u>e</u> ) Describe any sensitivity analyses	4	Methods, paragraph 3
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined		Results and Discussion, paragraph 1 Results and Discussion, table 1
		for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	5, 7	
		(b) Give reasons for non-participation at each stage		
		(c) Consider use of a flow diagram		
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on	5	Results and Discussion, paragraph 1
		exposures and potential confounders	5	
		(b) Indicate number of participants with missing data for each variable of interest		
		(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	7	Results and Discussion, table 1
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	5	Results and Discussion, paragraph1
		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		

Continued on next page

Other analyses	17	Report other analyses done-eg analyses of subgroups and interactions, and sensitivity analyses	6,7	Results and Discussion, paragraph 2, 4
Discussion				
Key results	18	Summarise key results with reference to study objectives	8	Results and Discussion, paragraph 5
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	8	Results and Discussion, paragraph 6
Generalisability	21	Discuss the generalisability (external validity) of the study results	8	Results and Discussion, paragraph 5
Other information	on			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the	$\checkmark$	
		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.