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

	Item No.	Recommendation	Reported on Page Number/Line Number Reported on Section/Paragraph	Reported on Page Number/Line Number Reported on Section/Paragraph
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1/10	1/9 Materials and methods
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	1/9	1/9-14 and 17-23 / Material and methods and Results
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	2/29-33	2/29-33/introduction
Objectives	3	State specific objectives, including any prespecified hypotheses	3/51-53	3/51-53 / introduction
Methods				
Study design	4	Present key elements of study design early in the paper	3/56	3/56-58/study design and setting
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	3/58 and 59	3/57-60/study design and setting
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	3/56-71	3/56-71/study design and setting
		(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	Not applicable	Not applicable
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	4/93-94	4/93-94/outcomes measurements
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	4/90-98	4/90-98/ outcomes measurementes

Bias	9	Describe any efforts to address potential sources of bias	Not applicable	Not applicable
Study size	10	Explain how the study size was arrived at	Not applicable	Not applicable

Continued on next page

Quantitative	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which	Not	Not applicable
variables		groupings were chosen and why	applicable	
Statistical	12	(a) Describe all statistical methods, including those used to control for confounding	5/105-110	5/105-110/ analysis
methods		(b) Describe any methods used to examine subgroups and interactions	Not	Not applicable
			applicable	
		(c) Explain how missing data were addressed	Not	Not applicable
			applicable	
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed	Not	Not applicable
		Case-control study—If applicable, explain how matching of cases and controls was addressed	applicable	
		Cross-sectional study—If applicable, describe analytical methods taking account of sampling		
		strategy		
		(\underline{e}) Describe any sensitivity analyses	Not	Not applicable
			applicable	
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined	Not	Not applicable
		for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	applicable	
		(b) Give reasons for non-participation at each stage		
		(c) Consider use of a flow diagram	5/113	5/113/Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on	5/121	5/121/table 1
		exposures and potential confounders		
		(b) Indicate number of participants with missing data for each variable of interest	Not	Not applicable
			applicable	
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	5/112	5/112/results
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	5/120-128	5/120-128/results
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	Not	Not applicable
			applicable	
		Cross-sectional study—Report numbers of outcome events or summary measures	Not	Not applicable
			applicable	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision	Not	Not applicable
		(eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were	applicable	
		included		

(b) Report category boundaries when continuous variables were categorized	Not	Not applicable
	applicable	
(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time	Not	Not applicable
period	applicable	

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Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Not	Not applicable		
			applicable			
Discussion						
Key results	18	Summarise key results with reference to study objectives	5/120-128	5/120-128/results		
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss	8/184-189	8/184-189/discussion		
		both direction and magnitude of any potential bias				
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of	8/184-189	8/184-189/discussion		
		analyses, results from similar studies, and other relevant evidence				
Generalisability	21	Discuss the generalisability (external validity) of the study results	-	-		
Other information						
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the	Not	Not applicable		
		original study on which the present article is based	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.

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^{*}As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.