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	2	Abstract, paragraph 2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	2	Abstract, paragraph 2-4
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	4-5	Background, paragraph 1-4
Objectives	3	State specific objectives, including any prespecified hypotheses	5	Background, paragraph 4
Methods				
Study design	4	Present key elements of study design early in the paper	5	Methods, paragraph 1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	5-6	Methods, paragraph 1-3
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	Methods, paragraph 1-3
		(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	6	Methods, paragraph 2-3
Data sources/	8*	For each variable of interest, give sources of data and details of methods of assessment	6	Methods, paragraph 2-3
measurement		(measurement). Describe comparability of assessment methods if there is more than one group		
Bias	9	Describe any efforts to address potential sources of bias	6	Methods, paragraph 2-3
Study size	10	Explain how the study size was arrived at	6	Methods, paragraph 2-3

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Quantitative	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which	7	Statistical analysis
variables		groupings were chosen and why		-
Statistical	12	(<i>a</i>) Describe all statistical methods, including those used to control for confounding	7	Statistical analysis
methods		(b) Describe any methods used to examine subgroups and interactions	NA	
		(c) Explain how missing data were addressed	NA	
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed	NA	
		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	NA	
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study-eg numbers potentially eligible, examined	8-9	Results, paragraph 1-3
		for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed		
		(b) Give reasons for non-participation at each stage	NA	
		(c) Consider use of a flow diagram	NA	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on	9	Results, paragraph 3 & table 1
		exposures and potential confounders		
		(b) Indicate number of participants with missing data for each variable of interest	9-12	Results, paragraph 3-8
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	NA	
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	NA	
		Case-control study-Report numbers in each exposure category, or summary measures of exposure	NA	
		Cross-sectional study-Report numbers of outcome events or summary measures	9	Results, paragraph 3 & table 1
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision	NA	
		(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	11	Results, paragraph 8
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time	10	Results, table 1
		period		

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Other analyses	17	Report other analyses done-eg analyses of subgroups and interactions, and sensitivity analyses	10-12	Results
Discussion				
Key results	18	Summarise key results with reference to study objectives	12-15	Discussion
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	14	Discussion
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	14	Discussion
Generalisability	21	Discuss the generalisability (external validity) of the study results	14	Discussion
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 original study on which the present article is based	15	

*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.