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

File and abstract [a) Indicate the study's design with a commonly used term in the tile or the abstract Title (b) Provide in the abstract an informative and balanced summary of what was done and what was found Abstract introduction State specific objectives, including any prespecified hypotheses Introduction State specific objectives, including any prespecified hypotheses Introduction (paragraph 3) Vethods State specific objectives, including any prespecified hypotheses Introduction (paragraph 1,2,3) Stating Present key elements of study design early in the paper Materials and Methods (paragraph 1,2,3) Study design Present key elements of study design early in the sources and methods of selection of paragraph 1,2,3) Materials and Methods (paragraph 1,2,3) Participants 6 (a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up (paragraph 1,2,3) Participants 6 (a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up (b) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Not applicable (b) Cohort study—For matched studies, give matching criteria and number of controls per case Statistical analysis (paragraph 1,2) Variables 7		Item No.	Recommendation	Section
(b) Provide in the abstract an informative and balanced summary of what was done and what was found Abstract found	Title and abstract	1		Title
Background/rationale 2 Explain the scientific background and rationale for the investigation being reported Introduction Objectives 3 State specific objectives, including any prespecified hypotheses Introduction (paragraph 3) Methods	The und appract		(b) Provide in the abstract an informative and balanced summary of what was done and what was	
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Bias 9 Describe any efforts to address potential sources of bias Statistical analysis (paragraph)	Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment	
Study size 10 Explain how the study size was arrived at Not applicable	Bias	9		Statistical analysis (paragraph 2
	Study size	10	Explain how the study size was arrived at	

Quantitative	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which	Statistical analysis (paragraph 1,2)
variables		groupings were chosen and why	
Statistical	12	(a) Describe all statistical methods, including those used to control for confounding	Statistical analysis (paragraph 1,2)
methods		(b) Describe any methods used to examine subgroups and interactions	Statistical analysis (paragraph 1,2)
		(c) Explain how missing data were addressed	Materials and Methods (paragraph
			1)
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed	Materials and Methods (paragraph
		Case-control study—If applicable, explain how matching of cases and controls was addressed	1)
		Cross-sectional study—If applicable, describe analytical methods taking account of sampling	
		strategy	
		(<u>e</u>) Describe any sensitivity analyses	Not applicable
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study-eg numbers potentially eligible, examined	Results (paragraph 1)
		for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	Not applicable
		(c) Consider use of a flow diagram	Not applicable
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on	Results (paragraph 1,2)
		exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of interest	Not applicable
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	Results (paragraph 2)
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	Results (paragraph 3,4)
		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	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision	Not applicable
		(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	Results (paragraph 1,2)
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time	Not applicable
		period	

Continued on next page

Other analyses	17	Report other analyses done-eg analyses of subgroups and interactions, and sensitivity analyses	Not applicable
Discussion			
Key results	18	Summarise key results with reference to study objectives	Discussion (paragraph 9,10)
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss	Discussion (paragraph 10)
		both direction and magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of	Discussion (paragraph 1,2,3,4,5,6)
		analyses, results from similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	Not applicable
Other informati	on		
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the	Not applicable
		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.