STROBE Statement—Checklist of items that should be included in reports of cross-sectional studies

	Item No	Recommendation	Page Number
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or	1
		the abstract	
		(b) Provide in the abstract an informative and balanced summary of	1
		what was done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation	3-6
		being reported	
Objectives	3	State specific objectives, including any prespecified hypotheses	6-7
Methods			
Study design	4	Present key elements of study design early in the paper	7
Setting	5	Describe the setting, locations, and relevant dates, including periods of	7-10
-		recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection	7
		of participants	
Variables	7	Clearly define all outcomes, exposures, predictors, potential	8-10
		confounders, and effect modifiers. Give diagnostic criteria, if applicable	
Data sources/	8*	For each variable of interest, give sources of data and details of	8-10
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	7, 18
Study size	10	Explain how the study size was arrived at	7, 10-11
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If	10-13
Quantitative variables	- 11	applicable, describe which groupings were chosen and why	10 13
Statistical methods	12	(a) Describe all statistical methods, including those used to control for	13-14
Statistical methods	12	confounding	13-14
		(b) Describe any methods used to examine subgroups and interactions	13-14
		(c) Explain how missing data were addressed	13-14
		(d) If applicable, describe analytical methods taking account of	
		sampling strategy	
			12 14
		(e) Describe any sensitivity analyses	13-14
Results			10.10
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers	10-13
		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	10-13
		(c) Consider use of a flow diagram	25-32
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical,	10-13
		social) and information on exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable	10-13
		of interest	
Outcome data	15*	Report numbers of outcome events or summary measures	13-14
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted	13-14
		estimates and 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	13-14
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	13-14
Discussion			
Key results	18	Summarise key results with reference to study objectives	15-18
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	18
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	18-19
Generalisability	21	Discuss the generalisability (external validity) of the study results	18-19
Other information			
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	Title page

^{*}Give information separately for exposed and unexposed groups.

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.