	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or
		the abstract
		(b) Provide in the abstract an informative and balanced summary of what
		was done and what was found
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being
		reported
Objectives	3	State specific objectives, including any prespecified hypotheses
Methods		
Study design	4	Present key elements of study design early in the paper
Setting	5	Describe the setting, locations, and relevant dates, including periods of
		recruitment, exposure, follow-up, and data collection
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
		(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
Data sources/	8*	For each variable of interest, give sources of data and details of methods
measurement		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
Study size	10	Explain how the study size was arrived at
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If
		applicable, describe which groupings were chosen and why
Statistical methods	12	(a) Describe all statistical methods, including those used to control for
		confounding
		(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
		(e) Describe any sensitivity analyses (we had low prevalence of missing
		data)
		·

Results			_	
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers 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	11	
		(c) Consider use of a flow diagram	6, appendi	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	10-11	
		(b) Indicate number of participants with missing data for each variable of interest	11-12	
		(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	- 6 11	
		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 (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	12	
		(b) Report category boundaries when continuous variables were categorized	- _ 9	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	- 9	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	12-13	
Discussion			_	
Key results	18	Summarise key results with reference to study objectives	13	
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	17-18	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence		
Generalisability	21	Discuss the generalisability (external validity) of the study results	14	
Other informati	ion			
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	20	

**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.

<sup>\*</sup>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.