	Item No	Recommendation
Title and abstract	1-4	(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	4-5	Explain the scientific background and rationale for the investigation being reported
Objectives	4-5	State specific objectives, including any prespecified hypotheses
Methods		1 3 7 2 71 1 71
Study design	5-7	Present key elements of study design early in the paper
Setting	5-7	Describe the setting, locations, and relevant dates, including periods of recruitment,
		exposure, follow-up, and data collection
Participants	5-7	(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	5-7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect
		modifiers. Give diagnostic criteria, if applicable
Data sources/	5-7*	For each variable of interest, give sources of data and details of methods of
measurement		assessment (measurement). Describe comparability of assessment methods if there
		is more than one group
Bias	5-7	Describe any efforts to address potential sources of bias
Study size	5-7	Explain how the study size was arrived at
Quantitative variables	5-7	Explain how quantitative variables were handled in the analyses. If applicable,
		describe which groupings were chosen and why
Statistical methods	5-7	(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
Continued on next page		

Results			
Participants	8- 10*	(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	
		(c) Consider use of a flow diagram	
Descriptive	8-	(a) Give characteristics of study participants (eg demographic, clinical, social) and	
data	10*	information on exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of interest	
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	
Outcome data 8		Cohort study—Report numbers of outcome events or summary measures over time	
	10*	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	8-10	(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	
		(b) Report category boundaries when continuous variables were categorized	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a	
		meaningful time period	
Other analyses 8-10		Report other analyses done—eg analyses of subgroups and interactions, and sensitivity	
		analyses	
Discussion			
Key results	10-	Summarise key results with reference to study objectives	
	14		
Limitations	10-	Discuss limitations of the study, taking into account sources of potential bias or imprecision.	
	14	Discuss both direction and magnitude of any potential bias	
Interpretation	10-	Give a cautious overall interpretation of results considering objectives, limitations,	
	14	multiplicity of analyses, results from similar studies, and other relevant evidence	
Generalisability	10-	Discuss the generalisability (external validity) of the study results	
	14		
Other informati	on		
Funding	-	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	

^{*}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.