	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstractPage
		(b) Provide in the abstract an informative and balanced summary of what was done
		and what was found Page 5 -6
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported Page
Objectives	3	State specific objectives, including any prespecified hypotheses Page 8 lines 9-26
Methods		
Study design	4	Present key elements of study design early in the paper Page 9 line 6
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment,
		exposure, follow-up, and data collection Page 9
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of
		selection of participants. Describe methods of follow-up  Page 9-10
		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 Page 10
Data sources/	8*	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 Page 9-11
Bias	9	Describe any efforts to address potential sources of bias Page 10-13
Study size	10	Explain how the study size was arrived at Page 13-14
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable,
		describe which groupings were chosen and why Page 11
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  Page 12
		(c) Explain how missing data were addressed Page 13
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed N/A
		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 Page 12-13
Continued on next page		

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  Page 14			
		(b) Give reasons for non-participation at each stage			
		(c) Consider use of a flow diagram Figure1			
Descriptive	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information			
data		on exposures and potential confounders Table3			
		(b) Indicate number of participants with missing data for each variable of interest Table3			
		(c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount)			
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time Page 15			
		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 Table4			
		(b) Report category boundaries when continuous variables were categorized N/A			
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period N/A			
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity			
J		analyses Table 5.6			
Discussion					
Key results	18	Summarise key results with reference to study objectives Page 16			
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 Page 18.19			
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity			
-		of analyses, results from similar studies, and other relevant evidence Page 16-19			
Generalisability	21	Discuss the generalisability (external validity) of the study results Page 18.19			
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 N/A			

<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.

**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.