	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract - Page 1
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found – Page 3
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported Page 5
Objectives	3	State specific objectives, including any prespecified hypotheses - Page 6
Methods		
Study design	4	Present key elements of study design early in the paper – Page 7
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection - Page 7
Participants Variables Data sources/ measurement	6 7 8*	<ul> <li>(a) Cohortstudy—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up - Page 7</li> <li>Case-controlstudy—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</li> <li>Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of participants</li> <li>(b) Cohortstudy—For matched studies, give matching criteria and number of exposed and unexposed</li> <li>Case-controlstudy—For matched studies, give matching criteria and the number of controls per case</li> <li>Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable Page 8</li> <li>For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there</li> </ul>
		is more than one group - Page 8
Bias	9	Describe any efforts to address potential sources of bias – Page 9
Study size Quantitative variables	10 11	Explain how the study size was arrived at – Page 7 Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why - Page 8
Statistical methods	12	<ul> <li>(a) Describe all statistical methods, including those used to control for confounding <ul> <li>Page 8 &amp; 9</li> </ul> </li> <li>(b) Describe any methods used to examine subgroups and interactions <ul> <li>(c) Explain how missing data were addressed</li> <li>(d) Cohort study—If applicable, explain how loss to follow-up was addressed</li> <li>Case-control study—If applicable, explain how matching of cases and controls was addressed</li> <li>Cross-sectional study—If applicable, describe analytical methods taking account of sampling strategy</li> <li>(e) Describe any sensitivity analyses</li> </ul> </li> </ul>

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

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 9
		(b) Give reasons for non-participation at each stage
		(c) Consider use of a flow diagram
Descriptive	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information
data		on exposures and potential confounders - Page 15
		(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	15*	Cohort study—Report numbers of outcome events or summary measures over time – Page 9
		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 – Page 9 & 10
		(b) Report category boundaries when continuous variables were categorized
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaning ful
		time period
Otheranalyses	17	Report other analyses done-eg analyses of subgroups and interactions, and sensitivity
		analyses -
Discussion		
Key results	18	Summarise key results with reference to study objectives – Page 11
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 13
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity
		of analyses, results from similar studies, and other relevant evidence – Page 11, 12, 13, 14
Generalisability	21	Discuss the general is ability (external validity) of the study results - Page 14
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 original study on which the present article is based – Page 1

\*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.