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

	Item No	Recommendation	Location in study
Title and abstract	1	(a) Indicate the study's design with a commonly used term	Title, page 1
		in the title or the abstract	
		(b) Provide in the abstract an informative and balanced	Abstract, pages 3-4
		summary of what was done and what was found	
Introduction		•	
Background/rationale	2	Explain the scientific background and rationale for the	Introduction, pages 5-6
		investigation being reported	
Objectives	3	State specific objectives, including any prespecified	Introduction, pages 6-7
		hypotheses	
Methods		· · ·	
Study design	4	Present key elements of study design early in the paper	Methods, page 7
Setting	5	Describe the setting, locations, and relevant dates, including	Methods, pages 7-8
Setting	-	periods of recruitment, exposure, follow-up, and data	
		collection	
Participants	6	(a) Cohort study—Give the eligibility criteria, and the	Methods, page 7-8
	, in the second s	sources and methods of selection of participants. Describe	, F. 8. / ¢
		methods of follow-up	
		<i>Case-control study</i> —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	
		<i>Case-control study</i> —For matched studies, give matching	
		criteria and the number of controls per case	
Variables	7	Clearly define all outcomes, exposures, predictors, potential	Methods, page 8-9
		confounders, and effect modifiers. Give diagnostic criteria,	
		if applicable	
Data sources/	8*	For each variable of interest, give sources of data and	Methods, pages 7-8
measurement		details of 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	Not relevant
Study size	10	Explain how the study size was arrived at	Not relevant
Quantitative	11	Explain how quantitative variables were handled in the	Methods, pages 9
variables		analyses. If applicable, describe which groupings were	
		chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to	Methods, page 9
		control for confounding	
		(b) Describe any methods used to examine subgroups and	Methods, pages 9
		interactions	

		(c) Explain how missing data were addressed	Not relevant
		(d) Cohort study—If applicable, explain how loss to follow-	Not relevant
		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	
		( <u>e</u> ) Describe any sensitivity analyses	Not relevant
Results	1.0.4		D 1. 10
Participants	13*	<ul> <li>(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-</li> </ul>	Results, pages 10
		up, and analysed	
		(b) Give reasons for non-participation at each stage	Not relevant
		(c) Consider use of a flow diagram	Included
Descriptive	14*	(a) Give characteristics of study participants (eg	Not relevant
data		demographic, clinical, social) and information on exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of interest	Not relevant
		(c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount)	Not relevant
Outcome data	15*	Cohort study—Report numbers of outcome events or	Results, page 10-11
		summary measures over time	
		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	
		(b) Report category boundaries when continuous variables were categorized	Not relevant
		(c) If relevant, consider translating estimates of relative risk	Not relevant
04	17	into absolute risk for a meaningful time period	N. t
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Not relevant
Discussion	_		
Key results	18	Summarise key results with reference to study objectives	Interpretation, pages 11-13
Limitations	19	Discuss limitations of the study, taking into account sources of	Limitations, pages 13
		potential bias or imprecision. Discuss both direction and	
		magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering	Conclusion, pages 13-
		objectives, limitations, multiplicity of analyses, results from	14

		similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study	Not relevant
		results	
Other informatio	n		
Funding	22	Give the source of funding and the role of the funders for the	Page 1
		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.