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

	Item No	Recommendation	Page
Title and abstract	1	(a) Indicate the study's design with a commonly used term in	
		the title or the abstract	1
		(b) Provide in the abstract an informative and balanced	2.2
		summary of what was done and what was found	2-3
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the	1 5
		investigation being reported	4-5
Objectives	3	State specific objectives, including any prespecified	5
		hypotheses	<u> </u>
Methods			
Study design	4	Present key elements of study design early in the paper	6
Setting	5	Describe the setting, locations, and relevant dates, including	
		periods of recruitment, exposure, follow-up, and data	6
		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	7-11
		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	N/A
		Case-control study—For matched studies, give matching	14/11
		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	7-11
		applicable	
Data sources/	8*	For each variable of interest, give sources of data and details	
measurement		of methods of assessment (measurement). Describe	7-11
		comparability of assessment methods if there is more than	
		one group	
Bias	9	Describe any efforts to address potential sources of bias	7-11
Study size	10	Explain how the study size was arrived at	7
Quantitative variables	11	Explain how quantitative variables were handled in the	
		analyses. If applicable, describe which groupings were chosen	29
		and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to	7-11
		control for confounding	
		(b) Describe any methods used to examine subgroups and	7-11
		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	7-11			
cases and controls was addressed	/-11			
Cross-sectional study—If applicable, describe analytical				
methods taking account of sampling strategy				

 $(\underline{e})$  Describe any sensitivity analyses

Continued on next page

Results			Page
Participants	13*	(a) Report numbers of individuals at each stage of study—eg	
		numbers potentially eligible, examined for eligibility, confirmed	12
		eligible, included in the study, completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	N/A
		(c) Consider use of a flow diagram	N/A
Descriptive	14*	(a) Give characteristics of study participants (eg demographic,	
data		clinical, social) and information on exposures and potential	22-23
		confounders	
		(b) Indicate number of participants with missing data for each	<b>N</b> I/A /
		variable of interest	N/A (no missing)
		(c) Cohort study—Summarise follow-up time (eg, average and	24.2
		total amount)	26-27
Outcome data 15	15*	Cohort study—Report numbers of outcome events or summary	
		measures over time	26-27
		Case-control study—Report numbers in each exposure category, or	
		summary measures of exposure	N/A
		Cross-sectional study—Report numbers of outcome events or	
		summary measures	N/A
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	24-25
		why they were included	
		(b) Report category boundaries when continuous variables were	
		categorized	N/A
		(c) If relevant, consider translating estimates of relative risk into	27/
		absolute risk for a meaningful time period	N/A
Other analyses	17	Report other analyses done—eg analyses of subgroups and	
		interactions, and sensitivity analyses	7-11
Discussion		· ·	
Key results	18	Summarise key results with reference to study objectives	12-13
Limitations	19	Discuss limitations of the study, taking into account sources of	
		potential bias or imprecision. Discuss both direction and	16-17
		magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering	
		objectives, limitations, multiplicity of analyses, results from	14-16
		similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	17
Other information		<u> </u>	
Funding	22	Give the source of funding and the role of the funders for the	
C		present study and, if applicable, for the original study on which the	19
		present study and, if applicable, for the original study on which the	17

<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.