

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

	Item No	Recommendation	Comment	
Title and abstract	1	(a) Indicate the study’s design with a commonly used term in the title or the abstract	Done	
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Done	
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	Done	
Objectives	3	State specific objectives, including any prespecified hypotheses	Done	
Methods				
Study design	4	Present key elements of study design early in the paper	Done	
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Done	
Participants	6	(a) <i>Cohort study</i> —Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up	NA	
		<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	NA	
		<i>Cross-sectional study</i> —Give the eligibility criteria, and the sources and methods of selection of participants	NA	
		(b) <i>Cohort study</i> —For matched studies, give matching criteria and number of exposed and unexposed	NA	
		<i>Case-control study</i> —For matched studies, give matching criteria and the number of controls per case	NA	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Done	
Data sources/measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	Done	
Bias	9	Describe any efforts to address potential sources of bias	Done	
Study size	10	Explain how the study size was arrived at	Done	
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Done	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Done	
		(b) Describe any methods used to examine subgroups and interactions	NA	
		(c) Explain how missing data were addressed	NA	
		(d) <i>Cohort study</i> —If applicable, explain how loss to follow-up was addressed	NA	
		<i>Case-control study</i> —If applicable, explain how matching of cases and controls was addressed	NA	
		<i>Cross-sectional study</i> —If applicable, describe analytical methods taking account of sampling strategy	Done	
		(e) Describe any sensitivity analyses	Done	
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	Done	
		(b) Give reasons for non-participation at each stage	NA	
		(c) Consider use of a flow diagram	NA	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Done	

		(b) Indicate number of participants with missing data for each variable of interest	NA	
		(c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount)	NA	
Outcome data	15*	<i>Cohort study</i> —Report numbers of outcome events or summary measures over time	NA	
		<i>Case-control study</i> —Report numbers in each exposure category, or summary measures of exposure	NA	
		<i>Cross-sectional study</i> —Report numbers of outcome events or summary measures	Done	
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	NA	
		(b) Report category boundaries when continuous variables were categorized	Done	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Done	
Discussion				
Key results	18	Summarise key results with reference to study objectives	Done	
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	Done	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Done	
Generalizability	21	Discuss the generalizability (external validity) of the study results	Done	
Other information				
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	NA	

*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.