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

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	6
		(b) Provide in the abstract an informative and balanced summary of what	6
		was done and what was found	
Introduction			1
Background/rationale	2	Explain the scientific background and rationale for the investigation being	8
	_	reported	
Objectives	3	State specific objectives, including any prespecified hypotheses	8
Methods			
Study design	4	Present key elements of study design early in the paper	10
Setting	5	Describe the setting, locations, and relevant dates, including periods of	10
		recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and	10
		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 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	10
		number of exposed and unexposed	10
		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,	10-
variables	,	and effect modifiers. Give diagnostic criteria, if applicable	11
Data sources/	8*	For each variable of interest, give sources of data and details of methods	10
	0	of assessment (measurement). Describe comparability of assessment	10
Bias		methods if there is more than one group	
	9	Describe any efforts to address potential sources of bias	10-
	9	Describe any enorts to address potential sources of bias	11
Study size	10	Explain how the study size was arrived at	
Study size	11	Explain how the study size was arrived at Explain how quantitative variables were handled in the analyses. If	NA 11
Quantitative variables	11		11
Statistical matheda	12	applicable, describe which groupings were chosen and why (a) Describe all statistical methods, including those used to control for	11
Statistical methods	12	confounding	11
		(b) Describe any methods used to examine subgroups and interactions	11
		(c) Explain how missing data were addressed	11
		(d) Cohort study—If applicable, explain how loss to follow-up was	NA
		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	1.
		(\underline{e}) Describe any sensitivity analyses	11

Continued on next page

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	
		(b) Give reasons for non-participation at each stage	12
		(c) Consider use of a flow diagram	27
Descriptive 14*		(a) Give characteristics of study participants (eg demographic, clinical, social) and	
data		information on exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of interest	24
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	24
Outcome data 1	15*	Cohort study—Report numbers of outcome events or summary measures over time	12-
			13
		Case-control study—Report numbers in each exposure category, or summary	NA
		measures of exposure	
		Cross-sectional study—Report numbers of outcome events or summary measures	NA
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and	12-
		their precision (eg, 95% confidence interval). Make clear which confounders were	13
		adjusted for and why they were included	
		(b) Report category boundaries when continuous variables were categorized	NA
		(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	
Discussion			
Key results	18	Summarise key results with reference to study objectives	14
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or	15
		imprecision. Discuss both direction and magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations,	14-
		multiplicity of analyses, results from similar studies, and other relevant evidence	17
Generalisability 21		Discuss the generalisability (external validity) of the study results	
			17

Other information

22

Funding

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.

applicable, for the original study on which the present article is based

Give the source of funding and the role of the funders for the present study and, if

22-23

^{*}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.