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

Title and abstract	No 1	Recommendation	_	
		(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	4
Objectives	3	State specific objectives, including any prespecified hypotheses	_ Page	
Methods			_	
Study design	4	Present key elements of study design early in the paper	<u> </u>	5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment,		
		exposure, follow-up, and data collection	Page	: 5
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of	_	_
		selection of participants. Describe methods of follow-up	Page	5
		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 number of		
		exposed and unexposed		
		Case-control study—For matched studies, give matching criteria and the number of		
		controls per case	<u> </u>	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect		
		modifiers. Give diagnostic criteria, if applicable Page 5,	6 ,	7
Data sources/	8*	For each variable of interest, give sources of data and details of methods of		
measurement		assessment (measurement). Describe comparability of assessment methods if there		
		is more than one group Page 5	<u>,</u> 6,	7
Bias	9	Describe any efforts to address potential sources of bias	<u>P</u> age	7
Study size	10	Explain how the study size was arrived at	N/A	
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable,		
		describe which groupings were chosen and why		
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page	٦ ج
		(b) Describe any methods used to examine subgroups and 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 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	_ Page	8
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
		(b) Give reasons for non-participation at each stage
		(c) Consider use of a flow diagram
Descriptive 14 data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders Page 8, Table 3
		(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	15*	Cohort study—Report numbers of outcome events or summary measures over time age 8, Table
		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 10	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 8-9, Table 2
		(b) Report category boundaries when continuous variables were categorized
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period
Other analyses 17	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity
		analyses Page 8, Table 4
Discussion		
Key results	18	Summarise key results with reference to study objectives Page 9
Limitations 19	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 11
Interpretation 20	Discuss both direction and magnitude of any potential bias	
	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence Page 9, 10, 11
Generalisability	21	Discuss the generalisability (external validity) of the study results Page 11, 12
Other informati	ion	
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

^{*}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.