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

	No	Recommendation	
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	
		(b) Provide in the abstract an informative and balanced summary of what was done	⁻ P1
		and what was found	
Introduction			_
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	- _ P:
Objectives	3	State specific objectives, including any prespecified hypotheses	
Methods			
Study design	4	Present key elements of study design early in the paper	- P4
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment,	– P4-
		exposure, follow-up, and data 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 selection. Give the rationale for the choice of cases	P4
		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	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect	P!
		modifiers. Give diagnostic criteria, if applicable	_
Data sources/	8*	For each variable of interest, give sources of data and details of methods of	D.4
measurement		assessment (measurement). Describe comparability of assessment methods if there	P4
		is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	_P6
Study size	10	Explain how the study size was arrived at	P6
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable,	- Ре
		describe which groupings were chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	P6
		(b) Describe any methods used to examine subgroups and interactions	_P6
		(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	
		(e) Describe any sensitivity analyses	_
		(2) 2 collect mily completely minipole	

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	P7	
		(b) Give reasons for non-participation at each stage	=	
		(c) Consider use of a flow diagram	-	
Descriptive	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information	 on D7	
data		on exposures and potential confounders	1 /	
		(b) Indicate number of participants with missing data for each variable of interest	P17	
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	- P9	
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	P9	
		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	⁻ P7-1	
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	P7-1	
		(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	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	P10	
	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision.	P13	
		Discuss both direction and magnitude of any potential bias		
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity	- P10-	
		of analyses, results from similar studies, and other relevant evidence		
Generalisability	21	Discuss the generalisability (external validity) of the study results	P13	
Other informati	on			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable,	- P13	
		for the original study on which the present article is based	P13	

^{*}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.