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	1
		(b) Provide in the abstract an informative and balanced summary of what	1
		was done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	1-2
Objectives	3	State specific objectives, including any prespecified hypotheses	2
Methods			
Study design	4	Present key elements of study design early in the paper	2
Setting	5	Describe the setting, locations, and relevant dates, including periods of	3
		recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and	3
T		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	3
		number of exposed and unexposed	]
		Case-control study—For matched studies, give matching criteria and the	
		number of controls per case	
Variables	7		3
	/	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	3
Data sources/	8*	For each variable of interest, give sources of data and details of methods	3–4
measurement	Ü	of assessment (measurement). Describe comparability of assessment	,
		methods if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	3
Study size	10	Explain how the study size was arrived at	3
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If	4
Qualitimitive variables	11	applicable, describe which groupings were chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for	4
	12	confounding	-
		(b) Describe any methods used to examine subgroups and interactions	4
		(c) Explain how missing data were addressed	N/A
		(d) Cohort study—If applicable, explain how loss to follow-up was	N/A
		addressed	1 1/1
		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	
			N/A
		$(\underline{e})$ Describe any sensitivity analyses	1 <b>N</b> /F

Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers	3
		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	N/A
		(c) Consider use of a flow diagram	
Descriptive 1		(a) Give characteristics of study participants (eg demographic, clinical,	12
data		social) and information on exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of	N/A
		interest	
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	N/A
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures	12–15
		over time	
		Case-control study—Report numbers in each exposure category, or summary	N/A
		measures of exposure	
		Cross-sectional study—Report numbers of outcome events or summary	N/A
		measures	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted	4,12–15
		estimates and their precision (eg, 95% confidence interval). Make clear	
		which confounders were adjusted for and 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 absolute risk	N/A
		for a meaningful time period	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	5
Discussion			
Key results	18	Summarise key results with reference to study objectives	5,6
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias	7
		or imprecision. Discuss both direction and magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering objectives,	5–7
		limitations, multiplicity of analyses, results from similar studies, and other	
		relevant evidence	

*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.

Generalisability

Funding

Other information

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**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.

Discuss the generalisability (external validity) of the study results

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

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Title page