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

	Item No	Recommendation	Page No
		(a) Indicate the study's design with a commonly used term in the title or	3
Title and abstract	1	the abstract	3
Title and abstract	1	(b) Provide in the abstract an informative and balanced summary of what	3
		was done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	5
Objectives	3	State specific objectives, including any prespecified hypotheses	5
Methods			•
Study design	4	Present key elements of study design early in the paper	6
zuan ausign	5	Describe the setting, locations, and relevant dates, including periods of	6-7
Setting		recruitment, exposure, follow-up, and data collection	
		(a) Cohort study—Give the eligibility criteria, and the sources and	
		methods of selection of participants. Describe methods of follow-up	6-8
		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	
Participants	6	Cross-sectional study—Give the eligibility criteria, and the sources and	
1 articipants	U	methods of selection of participants	
		(b) Cohort study—For matched studies, give matching criteria and	N/A
		number of exposed and unexposed	
		Case-control study—For matched studies, give matching criteria and the	
		number of controls per case	1
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders,	9
		and effect modifiers. Give diagnostic criteria, if applicable	6-8
Data sources/	0*	For each variable of interest, give sources of data and details of methods	
measurement	8*	of assessment (measurement). Describe comparability of assessment	
n.	0	methods if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	N/A
Study size	10	Explain how the study size was arrived at	6-8
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If	N/A
		applicable, describe which groupings were chosen and why	
		(a) Describe all statistical methods, including those used to control for	8-9
		confounding	
	12	(b) Describe any methods used to examine subgroups and interactions	8-9
		(c) Explain how missing data were addressed	N/A
		(d) Cohort study—If applicable, explain how loss to follow-up was	
Statistical methods		addressed	
		Case-control study—If applicable, explain how matching of cases and	N/A
		controls was addressed	
		Cross-sectional study—If applicable, describe analytical methods taking	
		account of sampling strategy	
		(\underline{e}) Describe any sensitivity analyses	N/A
Continued on next nage		<u> </u>	

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,	N/A
		completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	N/A
		(c) Consider use of a flow diagram	N/A
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	N/A
		(b) Indicate number of participants with missing data for each variable of interest	N/A
		(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 over time	N/A
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	N/A
		Cross-sectional study—Report numbers of outcome events or summary measures	N/A
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and	10-
		their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	12
		(b) Report category boundaries when continuous variables were categorized	N/A
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	N/A
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and	10-
		sensitivity analyses	12
Discussion			
Key results	18	Summarise key results with reference to study objectives	13

		imprecision. Discuss both direction and magnitude of any potential bias	16			
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations,				
		multiplicity of analyses, results from similar studies, and other relevant evidence	16			
Generalisability	21	Discuss the generalisability (external validity) of the study results	N/A			
Other information						
Funding	22	Give the source of funding and the role of the funders for the present study and, if	2			

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

Discuss limitations of the study, taking into account sources of potential bias or

15-

Limitations

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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.

^{*}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.