STROBE Statement—Checklist of items that should be included in reports of ***cross-sectional studies***

	Item No	Recommendation	Part	Pages and lines
Title and abstract	1	(*a*) Indicate the study's design with a commonly used term in the title or the abstract	Title and the abstract	1 page，1-2 lines 2 page，39lines
		(*b*) Provide in the abstract an informative and balanced summary of what was done and what was found	Abstract	2 page，36-51lines
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	Introduction	3-4Page，81-109lines
Objectives	3	State specific objectives, including any prespecified hypotheses	Introduction	3-4Page，89-109lines
Methods				
Study design	4	Present key elements of study design early in the paper	Methods	5-7Page，111-150lines
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Methods	5-6Page，111-135lines
Participants	6	(*a*) Give the eligibility criteria, and the sources and methods of selection of participants	Methods	5Page，111-120lines
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Methods	6Page，122-135lines
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	Methods	6Page，122-135lines
Bias	9	Describe any efforts to address potential sources of bias	Methods	6-7Page，126-149lines
Study size	10	Explain how the study size was arrived at	Methods	6-7Page，126-149lines
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Methods	5Page，112-120lines
Statistical methods	12	(*a*) Describe all statistical methods, including those used to control for confounding	Statistical methods	7Page，145-149lines
		(*b*) Describe any methods used to examine subgroups and interactions	Statistical methods	7Page，145-149lines
		(*c*) Explain how missing data were addressed		
		(*d*) If applicable, describe analytical methods taking account of sampling strategy	Statistical methods	6-7Page，138-145lines
		(*e*) Describe any sensitivity analyses	Statistical methods	7Page，145-149lines
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	Characteristics of cases and controls	7Page，152-157lines

		(b) Give reasons for non-participation at each stage		
		(c) Consider use of a flow diagram	Fig. 1	Fig. 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Characteristics of cases and controls	7Page，152-157lines
		(b) Indicate number of participants with missing data for each variable of interest	Table 1	Table 1
Outcome data	15*	Report numbers of outcome events or summary measures	Characteristics of cases and controls	7Page，153lines
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	Results	7-8Page，158-177lines
		(*b*) Report category boundaries when continuous variables were categorized	Results	7-8Page，158-177lines
		(*c*) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Results	7-8Page，158-177lines
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Results	8Page，178-182lines
Discussion				
Key results	18	Summarise key results with reference to study objectives	Discussion	7-8Page，184-190lines
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	Discussion	11Page，235-242lines
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Discussion	9-10Page，191-224lines
Generalisability	21	Discuss the generalisability (external validity) of the study results	Discussion	11Page，235-236lines
Other information				
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	Author Contributions and founding	11-12Page，250-262lines

*Give information separately for exposed and unexposed groups.

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.