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, 2	
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	1, 2	
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	4, 5	
Objectives	3	State specific objectives, including any prespecified hypotheses	4, 5	
Methods				
Study design	4	Present key elements of study design early in the paper	5	
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	5-8	
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 and controls Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of participants	N/A	
		(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	5-8	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	5-8	
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	5-8	
Bias	9	Describe any efforts to address potential sources of bias	5-8	
Study size	10	Explain how the study size was arrived at	5-6	

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Quantitative	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which	9
variables		groupings were chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	9
		(b) Describe any methods used to examine subgroups and interactions	9
		(c) Explain how missing data were addressed	9
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed	8
		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	
		(\underline{e}) Describe any sensitivity analyses	N/A
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined	9-11
		for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	9-11
		(c) Consider use of a flow diagram	9-11
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on	9-11
		exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of interest	9-11
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	9-11
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	
		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	9-11
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision	9-11
		(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	9-11
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time	9-11
		period	

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Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	9-11	
Discussion				
Key results	18	Summarise key results with reference to study objectives	11-16	
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss	15-16	
		both direction and magnitude of any potential bias		
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of	11-16	
		analyses, results from similar studies, and other relevant evidence		
Generalisability	21	Discuss the generalisability (external validity) of the study results	11-16	
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	17	
		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.

Article information: https://dx.doi.org/10.21037/tp-21-371

^{*}As the checklist was provided upon initial submission, the page number reported may be changed due to copyediting and may not be referable in the published version.