Section/item	ltem No	Recommendation	Reported on Page Number/Line Number	Reported on Section/Paragraph
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	page2/Line25-31	abstract
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	page2/Line25-31	abstract
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	page2-3/Line35-58	Introduction/Para1-2
Objectives	3	State specific objectives, including any prespecified hypotheses	page3/Line58-61	Introduction/Para2
Methods				
Study design	4	Present key elements of study design early in the paper	page3/Line64-67	Methods/Para1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	page3/Line64-67	Methods/Para1
Participants	6	<ul> <li>(a) Cohort study – Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up</li> <li>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</li> <li>Cross-sectional study – Give the eligibility criteria, and the sources and methods of selection of participants</li> </ul>	page4/Line70-79	Methods/Para2
		(b) <b>Cohort study</b> —For matched studies, give matching criteria and number of exposed and unexposed <b>Case-control study</b> —For matched studies, give matching criteria and the number of controls per case	page3/Line64-67	Methods/Para1
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	page6/Line116-121	Methods/Para7
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	page4-6/Line81-115	Methods/Para3-6
Bias	9	Describe any efforts to address potential sources of bias	page4-6/Line81-115	Methods/Para3-6
Study size	10	Explain how the study size was arrived at	page3/Line64-67	Methods/Para1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	page6/Line116-121	Methods/Para7

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

12	(a) Describe all statistical methods, including those used to control for confounding	page6/Line122-126	Methods/Para8
	(b) Describe any methods used to examine subgroups and interactions	page6/Line122-126	Methods/Para8
	(c) Explain how missing data were addressed	N/A	N/A
	(d) <b>Cohort study</b> —If applicable, explain how loss to follow-up was addressed <b>Case-control study</b> —If applicable, explain how matching of cases and controls was addressed <b>Cross-sectional study</b> —If applicable, describe analytical methods taking account of sampling strategy	page3/Line64-67	Methods/Para1
	(e) Describe any sensitivity analyses	page6/Line122-126	Methods/Para8
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	Page7/Line128-130	Results/Para1
	(b) Give reasons for non-participation at each stage	N/A	N/A
	(c) Consider use of a flow diagram	N/A	N/A
14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page7/Line128-130	Results/Para1
	(b) Indicate number of participants with missing data for each variable of interest	N/A	N/A
	(c) <b>Cohort study</b> —Summarise follow-up time (eg, average and total amount)	N/A	N/A
15*	Cohort study – Report numbers of outcome events or summary measures over time	N/A	N/A
	Case-control study – Report numbers in each exposure category, or summary measures of exposure	Table 1	Table 1
	Cross-sectional study – Report numbers of outcome events or summary measures	N/A	N/A
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	Page7-8/Line131-151	Results/Para2-6
	(b) Report category boundaries when continuous variables were categorized	Page7-8/Line131-151	Results/Para2-6
	(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	N/A	N/A
17	Report other analyses done-eg analyses of subgroups and interactions, and sensitivity analyses	N/A	N/A
<u>.</u>	·	·	
18	Summarise key results with reference to study objectives	Page9-11/Line171-208	Discussion/Para2
19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction	Page11/Line209-216	Discussion/Para3
	13* 14* 15* 16 17 18	13*       (a) Bescribe any methods used to examine subgroups and interactions         (b) Describe any methods used to examine subgroups and interactions         (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, explain how matching of cases and controls was addressed         (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         (b) Give reasons for non-participation at each stage         (c) Consider use of a flow diagram         14*         (a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders         (b) Indicate number of participants with missing data for each variable of interest         (c) Cohort study—Report numbers of outcome events or summary measures over time         Case-control study—Report numbers of outcome events or summary measures         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         (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period         (f) Report other	(b) Describe any methods used to examine subgroups and interactions       Page6/Line122-126         (c) Explain how missing data were addressed       N/A         (d) Cohort study—If applicable, explain how loss to follow-up was addressed       Page5/Line64 67         Case-control study—If applicable, explain how matching of cases and controls was addressed       Page5/Line64 67         Cross-sectional study—If applicable, explain how matching of cases and controls was addressed       Page5/Line122-126         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       N/A         (b) Give reasons for non-participation at each stage       N/A       N/A         (c) Consider use of a flow diagram       N/A       N/A         14*       (a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders       Page7/Line128-130         (b) Indicate number of participants with missing data for each variable of interest       N/A         15*       Cohort study—Report numbers of outcome events or summary measures over time       N/A         16       (a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interva). Make clear which confounders were adjusted for and why they were included       Page7.8/Line131-151         (c) Indicate number of parti

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page11/Line209-219	Discussion/Para3				
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page9-11/Line171-208	Discussion/Para2				
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	N/A	N/A				

\*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.

Article information: https://dx.doi.org/10.21037/tp-21-437

\*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.