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

Section/item	Item 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	Page 2, line 33	Abstract, paragraph 2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 2, lines 36-51	Abstract, paragraphs 4-6
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Pages 4,5, lines 76-106	Introduction, paragraphs 1-3
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 5, lines 108-112	Introduction, paragraph 4
Methods				
Study design	4	Present key elements of study design early in the paper	Page 5, lines 116-117	Method, paragraph 1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Pages 6, lines 128-141	Method, paragraph 2
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	Pages 5, 6, lines 120-123	Method, paragraph 1
		(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	N/A, because this study is not a cohort study or	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page 6, lines 128-141	Method, paragraph 2
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	Pages 6-10, lines 127-214	Method, paragraphs 3-8
Bias	9	Describe any efforts to address potential sources of bias	N/A, because our study	
Study size	10	Explain how the study size was arrived at	Page 6, lines 123-124.	Method, paragraph 1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Pages 9, 10 , lines 199-214	Method, paragraph 7

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Pages 9, lines 199-206	Method, paragraph 7
		(b) Describe any methods used to examine subgroups and interactions	Pages 9,10, lines 206-214	Method, paragraph 8
		(c) Explain how missing data were addressed	N/A, because we do not	
		(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, describe analytical methods taking account of sampling strategy	Pages 9, lines 199-206	Method, paragraph 7
		(e) Describe any sensitivity analyses	N/A, because this study	
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	Page 10, lines 217-224	Result, paragraph 1
		(b) Give reasons for non-participation at each stage	Page 10, lines 218-221	Result, paragraph 1
		(c) Consider use of a flow diagram	N/A, because the inclusion	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 10, lines 217-224	Result, paragraph 1
		(b) Indicate number of participants with missing data for each variable of interest	Page 10, lines 218-221	Result, paragraph 1
		(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	Pages 10-13, lines	Result, paragraph 2-5
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	Pages 10-13, lines 226-283	Result, paragraph 2-5
		(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 sensitivity analyses	Pages 12-13, lines	Result, paragraph 5
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 13, lines 286-294	Discussion, paragraph 1
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	Page 16-17, lines 362-378	Discussion, paragraph 5

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Pages 13-17, lines 296-360	Discussion, paragraphs 2-4
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 17, lines 380-386	Discussion, paragraphs
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	Page 17, lines 389-395	Financial support, paragraph 1

*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/qims-21-813.
*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.