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 1, Line 2 to 3	Abstruct/Para1-2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 2, Line 18 to Page 3,	Abstruct/Para1-4
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	page 4, Line 46 to 55	Introduction/Para1
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 4, Line 55 to 59	Introduction/Para1
Methods				
Study design	4	Present key elements of study design early in the paper	Page 6, Line 87 to 89	Materials and
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 5, Line 63 to 64	Materials and Methods/para1
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	Page 5, Line 63 to 66.	Materials and Methods/para1
		(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	Page 5, Line 63 to 66.	Materials and Methods/para1
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	There were no definite because this study was	
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	Page 6, Line 87 to Page 7, Line 106	Materials and Methods/para4
Bias	9	Describe any efforts to address potential sources of bias	There were no description	
Study size	10	Explain how the study size was arrived at	There were no description	
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page 7, Line 102 to 105	Materials and Methods/para5

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 7, Line 108 to 109	Materials and
		(b) Describe any methods used to examine subgroups and interactions	There were no description	
		(c) Explain how missing data were addressed	There were no description	
		(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	There were no description because this study was not applicable.	
		(e) Describe any sensitivity analyses	Page 7, Line 111 to 112	Materials and
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	There were no description because this study was	
		(b) Give reasons for non-participation at each stage	There were no description	
		(c) Consider use of a flow diagram	There were no description	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 7, Line 115 to Page 8, Line 129	Results/Para1
		(b) Indicate number of participants with missing data for each variable of interest	There were no description	
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)		
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	Page 8, Line 130 to 131	Results/Para2
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	Page 9, Line 140 to 149	Results/Para3
		(b) Report category boundaries when continuous variables were categorized	There were no description	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	There were no description	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	here were no description	
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 9, Line 152 to Page	Discussion/Para1
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 11, Line 173 to 181	Discussion/Para3

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page 10, Page 156 to 164	Discussion/Para1
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 10, Page 165 to Page	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	Page 11, Line 190 to 191	Conflict of interest

*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: http://dx.doi.org/10.21037/jtd-20-1170
*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.