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 25	Abstract second paragraph
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	page 2, lines 21-43	Abstract
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 3, lines 46-62	Introduction, paragraphs 1-2
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 3, lines 59-62	Introduction , paragraph 3
Methods				
Study design	4	Present key elements of study design early in the paper	Page 3, lines 66-79	Materials and Methods
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 3-5, lines 66-103	Materials and Methods
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 3-5, lines 66-103	Materials and methods
		(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, not a cohort or case control study	N/A, not a cohort or case control study
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Pages 3-5, lines 66-103	Materials and Methods
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 3-5, lines 66-103	Material and Methods
Bias	9	Describe any efforts to address potential sources of bias	Page 3, lines 103-105	Materials and Methods
Study size	10	Explain how the study size was arrived at	Page 3, lines 67-68	Materials and Methods
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page 3-5, lines 66-105	Materials and Methods

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 5, lines 107-110	Materials and Methods
		(b) Describe any methods used to examine subgroups and interactions	N/A, no subgrups analyses	N/A, no subgrups analyses
		(c) Explain how missing data were addressed	Page 4, lines 78-79	Materials and Methods
		(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	Page 4, lines 77-79	Materials and Methods
		(e) Describe any sensitivity analyses	N/A	N/A
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 3-5, lines 66-103	Materials and Methods
		(b) Give reasons for non-participation at each stage	N/A, all patients	N/A, all patients
		(c) Consider use of a flow diagram	N/A, all patients	N/A, all patients
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Tables 1 and 2	Tables 1 and 2
		(b) Indicate number of participants with missing data for each variable of interest	N/A, data of all	N/A, data of all
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Page 5, lines 118-122	Results, Clinicopathologic
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Pages 5-7, lines 114-161	Results
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	N/A, not a case control	N/A, not a case control
		Cross-sectional study—Report numbers of outcome events or summary measures	N/A, not a cross-sectional	N/A, not a cross-sectional
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	N/A, there are no adjustments	N/A, there are no adjustments
		(b) Report category boundaries when continuous variables were categorized	N/A, there are no	N/A, There are no
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	N/A, There are no relative	N/A, There are no relative
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	N/A, there are no other	N/A, there are no other
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 8, lines 182-194	Discussion
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 10, lines 234-238	Discussion, last paragraph

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, lines 234-238	Discussion, last paragraph
Generalisability	21	Discuss the generalisability (external validity) of the study results	Pages 10-11, lines	Conslusions
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, lines 250-251.	Acknowledgements

*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/tau-21-477
*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.