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	Page1/Line32-Page2/Line40	Abstract/Paragraph2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page2/Line36-53	Abstract/Paragraph2-3
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page2/Line60-Page3/Line87	Introduction/Paragraph 1-2
Objectives	3	State specific objectives, including any prespecified hypotheses	Page3/Line93-101	Introduction/Paragraph 3
Methods				
Study design	4	Present key elements of study design early in the paper	Page4/Line113-119	Methods/Inclusion and exclusion criteria/Par
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page4/Line121-123	Methods/General data/Paragraph1
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	Page4/Line128-Page5/Line141	Methods/General data/Paragraph1
		(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	Page4/Line128-Page5/Line141	Methods/General data/Paragraph1
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page4/Line123-128	Methods/General data/Paragraph1
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	Page7/Line212-227	Methods/Follow-up and evaluation/Paragraph1
Bias	9	Describe any efforts to address potential sources of bias	Page7/Line231-234	Methods/Statistical analysis/Paragraph1
Study size	10	Explain how the study size was arrived at	Page4/Line121-123	Methods/General data/Paragraph1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page4/Line128-Page5/Line141	Methods/General data/Paragraph1

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page7/Line230-Page8/Line238	Methods/Statistical analysis/Paragraph1
		(b) Describe any methods used to examine subgroups and interactions	Page7/Line231-234	Methods/Statistical analysis/Paragraph1
		(c) Explain how missing data were addressed	Page4/Line128-132	Methods/General data/Paragraph1
		(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	Page4/Line128-Page5/Line141	Methods/General data/Paragraph1
		(e) Describe any sensitivity analyses	Page7/Line234-Page8/Line238	Methods/Statistical analysis/Paragraph1
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	Page8/Line242-244	Results/Surgical evaluation and functional outcomes/Paragraph1
		(b) Give reasons for non-participation at each stage	Page4/Line121-123	Methods/General data/Paragraph1
		(c) Consider use of a flow diagram	N/A	cue oncology surgeons.
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page4/Line121-Page5/Line142	Table 1;Methods/General data/Paragraph1
		(b) Indicate number of participants with missing data for each variable of interest	N/A	cr 2020 January were reviewed.
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Page4/Line121-123	Methods/General data/Paragraph1
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Page10/Line328;Page4/Line121-123	Table1;Methods/General data/Paragraph1
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	N/A	This study is a Cohort study.
		Cross-sectional study—Report numbers of outcome events or summary measures	N/A	This study is a Cohort study.
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	Page8/Line236-237	Methods/Statistical analysis/Paragraph1
		(b) Report category boundaries when continuous variables were categorized	N/A	There is no such requirement in this study
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Page9/Line277-287	Results/Tumor control and complications/Para
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	N/A	There is no such requirement in this study
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page12/Line391-395	Conclusion/Paragraph1
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	Page11/Line344-351	Conclusion/Paragraph5

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page11/Line355-360	Conclusion/Paragraph6
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page12/Line375-381	Conclusion/Paragraph7
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	Page12/Line398-400	Acknowledgments/Funding

*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.

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*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.