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	1/16-21	Abstract Methods section
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	2/23-33	Abstract Results section
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	1/6-12	Abstract Background section
Objectives	3	State specific objectives, including any prespecified hypotheses	1/13-15	Abstract Background
Methods				
Study design	4	Present key elements of study design early in the paper	1/13-21	Abstract
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4/72-81	Main Methods section
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	Not applicable as evaluation was of contours on deidendtified MRI datasets	
		(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	as above	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Not applicable as not evaluating clinical	
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	4/72-92	Main methods section/ Statistical analysis
Bias	9	Describe any efforts to address potential sources of bias	4/83-92	Statistical analysis
Study size	10	Explain how the study size was arrived at	NA	
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	4/83-92	Statistical analysis

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	4/83-92	Statistical analysis
		(b) Describe any methods used to examine subgroups and interactions	4/87-92	Statistical analysis
		(c) Explain how missing data were addressed	no missing data	
		(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	Not applicable - no patients assessed	
		(e) Describe any sensitivity analyses	4/87-92	Statistical analysis
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	Not applicable as not analysing individual	
		(b) Give reasons for non-participation at each stage	Not applicable as no	
		(c) Consider use of a flow diagram		
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Not applicable as no patient involvement	
		(b) Indicate number of participants with missing data for each variable of interest	Not applicable as no	
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Not applicable as no	
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Not applicable as no	
		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		
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	5-9/95-130	Main results section
		(b) Report category boundaries when continuous variables were categorized	NA	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	NA	
Discussion				
Key results	18	Summarise key results with reference to study objectives	lines 142-154, 163-169	Main Discussion section
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	lines 152-170	Main Discussion section

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	11/173-179	Main Conclusion section
Generalisability	21	Discuss the generalisability (external validity) of the study results	11/173-174	Main Conclusion section
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	11/182	Acknowledgments section

*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.