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	Line 38	Section 2, abstract
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Line 42	Section 3, abstract
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Line 56	Paragraph 1, introduction
Objectives	3	State specific objectives, including any prespecified hypotheses	Line 75	Paragraph 3, introduction
Methods				
Study design	4	Present key elements of study design early in the paper	Line 86	Paragraph 4, methods
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Line 87	Paragraph 4, 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	Line 88	Paragraph 4, 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 - study not matched	N/A - study not matched
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Line 105	Paragraph 5, 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	Line 93	Paragraph 5, methods
Bias	9	Describe any efforts to address potential sources of bias	N/A not formally addressed	N/A not formally addressed
Study size	10	Explain how the study size was arrived at	Line 86	Paragraph 4, methods
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Line 105	Paragraph 5, methods

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Line 105	Paragraph 5, methods
		(b) Describe any methods used to examine subgroups and interactions	Line 122	Paragraph 5, methods
		(c) Explain how missing data were addressed	Line 231	Paragraph 18, discussions
		(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	Line 88	Paragraph 4, methods
		(e) Describe any sensitivity analyses	N/A not performed	N/A not performed
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	Line 114	Paragraph 6, methods
		(b) Give reasons for non-participation at each stage	N/A not formally assessed	N/A not formally assessed
		(c) Consider use of a flow diagram	Line 108	Paragraph 5, methods
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Line 122	Paragraph 5, methods
		(b) Indicate number of participants with missing data for each variable of interest	Line 231	Paragraph 18, discussions
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	N/A not assessed	N/A not assessed
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	N/A not assessed	N/A not assessed
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	N/A not assessed	N/A not assessed
		Cross-sectional study—Report numbers of outcome events or summary measures	N/A not assessed	N/A not assessed
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	Line 133	Paragraph 8, results
		(b) Report category boundaries when continuous variables were categorized	N/A not formally assessed	N/A not formally assessed
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	N/A not formally assessed	N/A not formally assessed
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Line 139	Paragraph 9, results
Discussion				
Key results	18	Summarise key results with reference to study objectives	Line 139	Paragraph 9, results
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	Line 231	Paragraph 18, discussions

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Line 163	Paragraph 11, discussions
Generalisability	21	Discuss the generalisability (external validity) of the study results	N/A - service improvement	N/A - service improvement
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	No funding received	No funding received

*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.