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/Lines 40-42	Abstract/Para 2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 2/Lines 40-53	Abstract/Para 2-3
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 3/Lines 67-88	Introduction/Para 1-2
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 4/Lines 89-94	Introduction/Para 3
Methods				
Study design	4	Present key elements of study design early in the paper	Page 4/Lines 98-101	Methods/Para 1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Pages 4/Lines 98-112	Methods/Para 1-2
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 4/Lines 98-101	Methods/Para 1
		(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	NA-this was not a matched study	NA-this was not a matched study
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Pages 4-5/Lines 103-112	Methods/Para 2
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 4-5/Lines 103-112	Methods/Para 2
Bias	9	Describe any efforts to address potential sources of bias	NA-we did not identify	NA-we did not identify
Study size	10	Explain how the study size was arrived at	Pages 4/Lines 98-101	Methods/Para 1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page 5/Lines 114-117	Methods/Para 3

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 5/Lines 114-117	Methods/Para 3
		(b) Describe any methods used to examine subgroups and interactions	NA-subgroups and	NA-subgroups and
		(c) Explain how missing data were addressed	NA-there was no missing	NA-there was no missing
		(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	NA-this was retrospective study	NA-this was a retrospective study
		(e) Describe any sensitivity analyses	NA-sensitivity analyses	NA-sensitivity analyses
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 6/Lines 136-144	Results/Para 2
		(b) Give reasons for non-participation at each stage	NA-this was retrospective	NA-this was a
		(c) Consider use of a flow diagram	NA-flow diagram was not	NA-flow diagram was not
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 6/Lines 136-144	Results/Para 2
		(b) Indicate number of participants with missing data for each variable of interest	NA-participants did not	NA-participants did not
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	NA-this was a	NA-this was a
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Pages 6-8/Lines 146-182	Results/Para 3-5
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	NA-this was a cohort	NA-this was a cohort
		Cross-sectional study—Report numbers of outcome events or summary measures	NA-this was a cohort	NA-this was a cohort
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	NA-unadjusted/confounder estimates were not	NA-unadjusted/confounder estimates were not
		(b) Report category boundaries when continuous variables were categorized	NA-continuous variables	NA-continuous variables
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	NA-was not relevant for	NA-was not relevant for
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	NA-other analyses were	NA-other analyses were
Discussion				
Key results	18	Summarise key results with reference to study objectives	Pages 8-9/Lines 202-211	Discussion/Para 3
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 11/260-267	Discussion/Para 8

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Pages 11-12/Lines 269-279	Discussion/Para 9-10
Generalisability	21	Discuss the generalisability (external validity) of the study results	Pages 11-12/Lines	Discussion/Para 8-10
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	NA-no source of funding	NA-no source of 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.