Section/item	ltem 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	P1,2 / L1-45	Title page, Abstract
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	P1,2 / L1-45	Title page, Abstract
Introduction	1		L	1
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	P4 / L67-87	Introduction/ P1,2
Objectives	3	State specific objectives, including any prespecified hypotheses	P4,5/L88-95	Introduction/ P3
Methods	I			
Study design	4	Present key elements of study design early in the paper	P6/L118-126	Method/ P2
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	P6,7/L118-145	Method/ P2,3,4
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 	P6,7/L128-136	Method/ P3
		(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	P6,7/L128-136	Method/ P3
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	P7,8/ L147-177	Method/ P5
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	P7,8/ L147-177	Method/ P5
Bias	9	Describe any efforts to address potential sources of bias	P7,8/ L147-177	Method/ P5

STROBE Statement—checklist of items that should be included in reports of observational studies

Study size	10	Explain how the study size was arrived at	N/A: It is retrospective population based cohort study	N/A: It is retrospective population based cohort study
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	P7,8/ L147-177	Method/ P5

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Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	P9/L180-202	Method/ P6
		(b) Describe any methods used to examine subgroups and interactions	P9/L180-202	Method/ P6
		(c) Explain how missing data were addressed	N/A: There was no missing data	N/A: There was 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	P9/L180-202	Method/ P6
		(e) Describe any sensitivity analyses	P9/L180-202	Method/ P6
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	P10/L204-212	Results/P1
		(b) Give reasons for non-participation at each stage	P10/L204-212	Results/P1
		(c) Consider use of a flow diagram	N/A: There was no missing data	N/A: There was no missing data
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	P10/L204-212	Results/P1
		(b) Indicate number of participants with missing data for each variable of interest	N/A: There was no missing data	N/A: There was no missing data
		(c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount)	P10/L204-212	Results/P1

Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	P10/L204-212	Results/P1
		<i>Case-control study</i> —Report numbers in each exposure category, or summary measures of exposure	N/A: It is retrospective population based cohort study	N/A: It is retrospective population based cohort study
		Cross-sectional study—Report numbers of outcome events or summary measures	N/A: It is retrospective population based cohort study	N/A: It is retrospective population based 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	P10/ L214-225	Results/P2
		(b) Report category boundaries when continuous variables were categorized	P10/ L214-225	Results/P2
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	P10/ L214-225	Results/P2
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	P11/ L228-241	Results/P3
Discussion				
Key results	18	Summarise key results with reference to study objectives	P12/L248-256	Discussion/ P1
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	P14,15/L313-322	Discussion/ P6
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	P12/L257-263	Discussion/ P2
Generalisability	21	Discuss the generalisability (external validity) of the study results	P12/L257-263	Discussion/ P2
Other information			1	1
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	N/A: No funding received	N/A: 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.

Updated on April 13, 2020