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	Page2/Li ne11–13	Abstact/Paragraph2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page2/Li ne11–24	Abstact/Paragraph2–4
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page2–3/Li ne30–34&1–21	l ntroduction/Paragraph 1–2
Objectives	3	State specific objectives, including any prespecified hypotheses	Page3/Li ne27–37	Introduction/Paragraph3
Methods				
Study design	4	Present key elements of study design early in the paper	Page4/Li ne5–24	Met hods/Par agr aph1–2
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page4/Li ne10–24	Met hods/Par agr aph2
Participants	6	<ul> <li>(a) <i>Cohort study</i>—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up</li> <li><i>Case-control study</i>—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</li> <li><i>Cross-sectional study</i>—Give the eligibility criteria, and the sources and methods of selection of participants</li> </ul>	Page4/Li ne17–24	Met hods/Par agr aph2
		(b) <b>Cohort study</b> —For matched studies, give matching criteria and number of exposed and unexposed <b>Case-control study</b> —For matched studies, give matching criteria and the number of controls per case	None	None
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page4-5/Li ne17-34&1-33	Net hods/Par agr aph2–7
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	Page5/Li ne1-33	Net hods/Par agr aph4–7
Bias	9	Describe any efforts to address potential sources of bias	Page4/Li ne10-24	Met hods/Par agr aph2
Study size	10	Explain how the study size was arrived at	Page4/Li ne25–28	Met hods/Par agr aph3
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Tabl e1-2	Tabl e1-2

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

12	(a) Describe all statistical methods, including those used to control for confounding	Page6/Li ne1–10	Met hods/Par agr aph8
	(b) Describe any methods used to examine subgroups and interactions	Page6/Li ne1–10	Net hods/Par agr aph8
	(c) Explain how missing data were addressed	None	None
	(d) <b>Cohort study</b> —If applicable, explain how loss to follow-up was addressed <b>Case-control study</b> —If applicable, explain how matching of cases and controls was addressed <b>Cross-sectional study</b> —If applicable, describe analytical methods taking account of sampling strategy	Page6/Li ne1–10	Met hods/Par agr aph8
	(e) Describe any sensitivity analyses	None	None
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	Page4/Li ne13–14	Net hods/Par agr aph2
	(b) Give reasons for non-participation at each stage	None	None
	(c) Consider use of a flow diagram	None	None
14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page6/Li ne20–22	Resul ts/Par agr aph1
	(b) Indicate number of participants with missing data for each variable of interest	None	None
	(c) <b>Cohort study</b> -Summarise follow-up time (eg, average and total amount)	None	None
15*	Cohort study – Report numbers of outcome events or summary measures over time	None	None
	Case-control study – Report numbers in each exposure category, or summary measures of exposure	None	None
	Cross-sectional study – Report numbers of outcome events or summary measures	Tabl e3	Tabl e3
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	Page6/Li ne23–28	Results/Paragraph2
	(b) Report category boundaries when continuous variables were categorized	Tabl e1–2	Tabl e1–2
	(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	None	None
17	Report other analyses done – eg analyses of subgroups and interactions, and sensitivity analyses	Page6/Li ne23–28	Results/Paragraph2
18	Summarise key results with reference to study objectives	Page10/Li ne8–19	Concl usi on/Paragraph1
19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	Page10/Li ne2–5	Di scussi on/Paragraph1
	13* 14* 15* 16 17 18	13*       (b) Describe any methods used to examine subgroups and interactions         (c) Explain how missing data were addressed       (c) Explain how missing data were addressed         (d) Cohort study—If applicable, explain how matching of cases and controls was addressed Case-control study—If applicable, explain how matching of cases and controls was addressed         (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         (b) Give reasons for non-participation at each stage       (c) Consider use of a flow diagram         14*       (a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders         (b) Indicate number of participants with missing data for each variable of interest       (c) Cohort study—Summarise follow-up time (eg, average and total amount)         15*       Cohort study—Report numbers of outcome events or summary measures over time         Case-control study—Report numbers of outcome events or summary measures       (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         (b) Report category boundaries when continuous variables were categorized       (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period         17       Report other analyses done—eg analyses of subgroups and interactions, and	Image: construct of the study of the study compares and interactions         Page8/Li nel-10           (b) Describe any methods used to examine subgroups and interactions         Page8/Li nel-10           (c) Cohort study—If applicable, explain how loss to follow-up was addressed         Page8/Li nel-10           Case-control study—If applicable, explain how loss to follow-up was addressed         Page8/Li nel-10           Case-control study—If applicable, explain how matching of cases and controls was addressed         Page8/Li nel-10           (c) Cohort study—If applicable, explain how matching of cases and controls was addressed         Page8/Li nel-10           (a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility.         Page4/Li nel3-14           (b) Give reasons for non-participation at each stage         None           14*         (a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders         Page6/Li ne20-22           (b) Indicate number of participants with missing data for each variable of interest         None           15*         Cohort study—Report numbers of outcome events or summary measures of exposure         None           15*         Cohort study—Report numbers in each exposure category, or summary measures of exposure         None           16         (a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interva)

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page7–9/Li ne1–33	D scussi on/Paragraph1– 9			
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page10/Li ne2–5	Di scussi on/Paragraph10			
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	Page10/Li ne26–27	Fundi ng/Par agr aph1			

\*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.