## ${\tt STROBE} (Strengthening The Reporting of OBservational \ Studies in \ Epidemiology) Checklist$

A checklist of items that should be included in reports of observational studies. You must report the page number in your manuscript where youconsider each of the items listed in this checklist. If you have not included this information, either revise your manuscript accordingly before submitting or note N/A.

**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 <u>http://www.plosmedicine.org/</u>, Annals of Internal Medicine at <u>http://www.annals.org/</u>, and Epidemiology at <u>http://www.epidem.com/</u>). Information on the STROBE Initiative is available at <u>www.strobe-statement.org</u>.

Section and Item	ltem No.	Recommendation	Reported on Page No.
Title and Abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	2
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	2
Introduction	•		
Background/Rationale	2	Explain the scientific background and rationale for the investigation being reported	3-4
Objectives	3	State specific objectives, including any prespecified hypotheses	4
Methods			
Study Design	4	Present key elements of study design early in the paper	5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	5
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up	n/a
		<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	n/a
		<i>Cross-sectional study</i> —Give the eligibility criteria, and the sources and methods of selection of participants	5
		(b) Cohort study—For matched studies, give matching criteria and number of exposed and unexposed	n/a
		<i>Case-control study</i> —For matched studies, give matching criteria and the number of controls per case	n/a
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	5-6

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         Describe any efforts to address potential sources of bias         Explain how the study size was arrived at         Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why         (a) Describe all statistical methods, including those used to control for confounding         (b) Describe any methods used to examine subgroups and interactions         (c) Explain how missing data were addressed         (d) Cohort study—If applicable, explain how loss to follow-up was addressed         (d) Cohort study—If applicable, explain how matching of cases and controls was addressed         (e) Describe any sensitivity analyses	5-6 5 5 6 6 6 1/a 1/a 1/a 5
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<i>Cross-sectional study</i> —If applicable, describe analytical methods taking account of sampling strategy	5
sampling strategy	5 n/a
	p h/a
(e) Describe any sensitivity analyses	n/a
(a) Report numbers of individuals at each stage of study—eg numbers potentially	
eligible, examined for eligibility, confirmed eligible, included in the study,	n/a
completing follow-up, and analysed	
(b) Give reasons for non-participation at each stage	n/a
(c) Consider use of a flow diagram	n/a
(a) Give characteristics of study participants (eq demographic, clinical, social) and	
information on exposures and potential confounders	7
(b) Indicate number of participants with missing data for each variable of interest	n/a
(c) Cohort study—Summarise follow-up time (eg, average and total amount)	n/a
<i>Cohort study</i> —Report numbers of outcome events or summary measures over	
time	n/a
Case-control study-Report numbers in each exposure category, or summary	
	n/a
measures of exposure	
	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)         Cohort study—Report numbers of outcome events or summary measures over time         Case-control study—Report numbers in each exposure category, or summary

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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	8
		(b) Report category boundaries when continuous variables were categorized	n/a
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	n/a
Other Analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	n/a
Discussion			
Key Results	18	Summarise key results with reference to study objectives	9
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	12
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	n/a
Generalisability	21	Discuss the generalisability (external validity) of the study results	n/a
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

\*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.

Once you have completed this checklist, please save a copy and upload it as part of your submission. DO NOT include this checklist as part of the main manuscript document. It must be uploaded as a separate file.