	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in	2;¶2
		the title or the abstract	
		(b) Provide in the abstract an informative and balanced	2;
		summary of what was done and what was found	¶2, 3
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the	3; ¶2-4
		investigation being reported	
Objectives	3	State specific objectives, including any prespecified hypotheses	3; ¶5
Methods			
Study design	4	Present key elements of study design early in the paper	4
Setting	5	Describe the setting, locations, and relevant dates, including	4; ¶1
		periods of recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources	5;¶1
-		and methods of selection of participants. Describe methods of	
		follow-up	
		<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	
		<i>Cross-sectional study</i> —Give the eligibility criteria, and the	
		sources and methods of selection of participants	
		(b) Cohort study—For matched studies, give matching criteria	NA
		and number of exposed and unexposed	
		· ·	
		<i>Case-control study</i> —For matched studies, give matching criteria and the number of controls per case	
Variables	7		Methods;
variables	/	Clearly define all outcomes, exposures, predictors, potential	,
		confounders, and effect modifiers. Give diagnostic criteria, if	Sections 3.2
	0*	applicable	3.7
Data sources/	8*	For each variable of interest, give sources of data and details of	Methods;
measurement		methods of assessment (measurement). Describe comparability	Sections 3.2
		of assessment methods if there is more than one group	3.6
Bias	9	Describe any efforts to address potential sources of bias	Methods;
			Section 3.7
Study size	10	Explain how the study size was arrived at	Methods;
			Section 3.1;
			Figure 1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses.	Methods;
		If applicable, describe which groupings were chosen and why	Section 3.7
Statistical methods	12	(a) Describe all statistical methods, including those used to	Methods;
		control for confounding	Section 3.7
		(b) Describe any methods used to examine subgroups and	Methods;
		interactions	Section 3.7
		(c) Explain how missing data were addressed	Methods;
			Section 3.7

(d) Cohort study—If applicable, explain how loss to follow-up	Results;
was addressed	Section 4.1
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	
(e) Describe any sensitivity analyses	NA

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	Section
		study, completing follow-up, and analysed	3.1;
			Figure 1;
			Results:
			Section
			4.1
		(b) Give reasons for non-participation at each stage	Methods;
			Section
			3.1;
			Figure 1;
			Results:
			Section
			4.1
		(c) Consider use of a flow diagram	Figure 1
Descriptive	14*	(a) Give characteristics of study participants (eg demographic, clinical, social)	Results;
data		and information on exposures and potential confounders	Section
			4.1;
			Table 1
		(b) Indicate number of participants with missing data for each variable of	Figure 1;
		interest	Results:
			Section
			4.1
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	Table 1
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over	Table 1
		time	
		Case-control study—Report numbers in each exposure category, or summary	
		measures of exposure	
		Cross-sectional study—Report numbers of outcome events or summary	
		measures	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates	Results;
		and their precision (eg, 95% confidence interval). Make clear which	Section
		confounders were adjusted for and why they were included	4.2;
			Table 3
		(b) Report category boundaries when continuous variables were categorized	NA
		(c) If relevant, consider translating estimates of relative risk into absolute risk	NA
		for a meaningful time period	

Other analyses 17		7 Report other analyses done—eg analyses of subgroups and interactions, and	
		sensitivity analyses	Section
			4.2 ¶2
Discussion			
Key results	18	Summarise key results with reference to study objectives	Section 5
			¶1
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or	Section 5
		imprecision. Discuss both direction and magnitude of any potential bias	¶ 6
Interpretation	20	Give a cautious overall interpretation of results considering objectives,	Section 5
		limitations, multiplicity of analyses, results from similar studies, and other	¶ 7
		relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	Section 5
			¶ 6
Other information	on		
Funding	22	Give the source of funding and the role of the funders for the present study and,	17

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

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*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.