Additional file 3

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

	Item No.	Recommendation	Section	Paragraph
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the	Title	
		abstract		
		(b) Provide in the abstract an informative and balanced summary of what was	Abstract	
		done and what was found		
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being	Introduction	1-2
		reported	Supplementary Material	
Objectives	3	State specific objectives, including any prespecified hypotheses	Introduction	3-4
Methods				
Study design	4	Present key elements of study design early in the paper	Introduction	3
			Methods - Design	1-2
Setting	5	Describe the setting, locations, and relevant dates, including periods of	Methods - Design	1-3
		recruitment, exposure, follow-up, and data collection		
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of	Methods - Design	1-3
		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		
		(b) Cohort study—For matched studies, give matching criteria and number of	N/A	
		exposed and unexposed		
		Case-control study—For matched studies, give matching criteria and the number		
		of controls per case		
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and	Methods – Measures	1-3
		effect modifiers. Give diagnostic criteria, if applicable	Supplementary Material	
Data sources/	8*	For each variable of interest, give sources of data and details of methods of	Methods – Measures	1-3
measurement		assessment (measurement). Describe comparability of assessment methods if	Supplementary Material	

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		there is more than one group		
Bias	9	Describe any efforts to address potential sources of bias	Methods – Statistical analyses	1, 3
Study size	10	Explain how the study size was arrived at	Results	1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable,	Methods – Measures	1-3
		describe which groupings were chosen and why	Supplementary Material	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for	Methods – Statistical analyses	1-4
		confounding		
		(b) Describe any methods used to examine subgroups and interactions	Methods – Statistical analyses	2
		(c) Explain how missing data were addressed	Methods – Statistical analyses	1
		(d) Cohort study—If applicable, explain how loss to follow-up was addressed	Methods – Statistical analyses	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		
		(\underline{e}) Describe any sensitivity analyses	Methods – Statistical analyses	3-4
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially	Results	1
		eligible, examined for eligibility, confirmed eligible, included in the study,		
		completing follow-up, and analysed		
		(b) Give reasons for non-participation at each stage	Results	1
		(c) Consider use of a flow diagram	N/A	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and	Table 1	
		information on exposures and potential confounders	Supplementary Table 1	
		(b) Indicate number of participants with missing data for each variable of interest	Results	1
			Table 1	footnote
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	N/A	
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over	N/A	
		time		
		Case-control study—Report numbers in each exposure category, or summary	N/A	
		measures of exposure		
		Cross-sectional study—Report numbers of outcome events or summary measures	Figure 1	

				Figure 2	
				Figure 3	
Main results		16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates	Table 2	
			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	N/A	
			(c) If relevant, consider translating estimates of relative risk into absolute risk for a	N/A	
			meaningful time period		
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses Su		Supplementary Material	
Discussion					
Key results	18	Summarise key results with reference to study objectives		Discussion	1-5
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision.		Discussion	6
		Discuss both	direction and magnitude of any potential bias		
Interpretation	20	Give a cautio	ous overall interpretation of results considering objectives, limitations, multiplicity of	Discussion	7
		analyses, res	sults from similar studies, and other relevant evidence		
Generalisability	21	Discuss the g	generalisability (external validity) of the study results	Discussion	6

^{*}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.