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

	Item No.	Recommendation	Line/Page
Title and abstract	1	(a) Indicate the study's design with a commonly used term in	Page 1
		the title or the abstract	Page 3
		(b) Provide in the abstract an informative and balanced	Page 3 Line 3 to
		summary of what was done and what was found	P 4 Line 8
Introduction			•
Background/rationale	2	Explain the scientific background and rationale for the	Page 5 Line 2 to
· ·		investigation being reported	line 29
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 5 line 27- 29
Methods			
Study design	4	Present key elements of study design early in the paper	Page 6, line 2-
Setting	5	Describe the setting, locations, and relevant dates, including	Page 6, line 2-
		periods of recruitment, exposure, follow-up, and data collection	11
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	Page 6 line 13-
		sources and methods of case ascertainment and control	18
		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 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	Page 6 line 19 t
variables	,	confounders, and effect modifiers. Give diagnostic criteria, if	page 7 line 11
		applicable	page / line 11
Data sources/	8*	For each variable of interest, give sources of data and details of	Page 6 line 19 t
	Ü	methods of assessment (measurement). Describe comparability	page 7 line 11
measurement		of assessment methods if there is more than one group	page / inte 11
Bias	9	Describe any efforts to address potential sources of bias	
Study size	10	Explain how the study size was arrived at	Page 7 line 13-
Study Size	10	Explain now the study size was arrived at	16
Quantitative variables	11	Explain how quantitative variables were handled in the	Page 7 line 14-
		analyses. If applicable, describe which groupings were chosen	29
		and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to	Page 7 line 14-
Stanburgh memous	12	control for confounding	29
		(b) Describe any methods used to examine subgroups and	Page 7 line 14-
		interactions	29
		meraenona	2)
		(c) Explain how missing data were addressed	Page 7 line 14-

(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	
(e) Describe any sensitivity analyses	Page 7 line 14-
	29

Continued on next page

Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers	Page 8 line
		potentially eligible, examined for eligibility, confirmed eligible, included in	2-9
		the study, completing follow-up, and analysed	
		(b) Give reasons for non-participation at each stage	Page 8 line
			10-22
		(c) Consider use of a flow diagram	Diagram 1
Descriptive	14*	(a) Give characteristics of study participants (eg demographic, clinical, social)	Page 8 line
data		and information on exposures and potential confounders	10-22
		(b) Indicate number of participants with missing data for each variable of	Page 8 line
		interest	10-22
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over	
		time	
		Case-control study—Report numbers in each exposure category, or summary	Page 8 line
		measures of exposure	10-22
		Cross-sectional study—Report numbers of outcome events or summary	
		measures	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted	Page 8 line
		estimates and their precision (eg, 95% confidence interval). Make clear which	10-22
		confounders were adjusted for and why they were included	
		(b) Report category boundaries when continuous variables were categorized	Page 8 line
			10-22
		(c) If relevant, consider translating estimates of relative risk into absolute risk	Page 8 line
		for a meaningful time period	20-22
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and	Page 9 line
		sensitivity analyses	1-10
Discussion			
Key results	18	Summarise key results with reference to study objectives	Page 10
•		,	line 10-17
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias	Page 10
		or imprecision. Discuss both direction and magnitude of any potential bias	line 20-22
Interpretation	20	Give a cautious overall interpretation of results considering objectives,	Page 10 -
		limitations, multiplicity of analyses, results from similar studies, and other	page 13
		relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 13
J			line 2, 5

Other information

O ther miles miles			
Funding	22	Give the source of funding and the role of the funders for the present study	Page 13
		and, if applicable, for the original study on which the present article is based	line 10

^{*}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.