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

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title	3
		or the abstract	
		(b) Provide in the abstract an informative and balanced summary of	3
		what was done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	5-6
Objectives	3	State specific objectives, including any prespecified hypotheses	5-6
Methods		3 J T 1 J T	
Study design	4	Present key elements of study design early in the paper	18
Setting Setting	5	Describe the setting, locations, and relevant dates, including periods of	18
betting	3	recruitment, exposure, follow-up, and data collection	10
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and	18
rancipants	O	methods of selection of participants. Describe methods of follow-up	10
		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 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	18-20
variables	,	confounders, and effect modifiers. Give diagnostic criteria, if applicable	27-28
Data sources/	8*	For each variable of interest, give sources of data and details of	18-20
measurement	0	methods of assessment (measurement). Describe comparability of	10-20
measurement		assessment methods if there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	NA
Study size	10	Explain how the study size was arrived at	18, 36
Quantitative variables	11	Explain how the study size was arrived at  Explain how quantitative variables were handled in the analyses. If	27-28
Qualititative variables	11	applicable, describe which groupings were chosen and why	21-20
Statistical methods	12	(a) Describe all statistical methods, including those used to control for	27-31
Statistical methods	12	confounding	27-31
		(b) Describe any methods used to examine subgroups and interactions	27-31
		(c) Explain how missing data were addressed	36
		(d) Cohort study—If applicable, explain how loss to follow-up was	NA
		addressed	1111
		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	
		taking account of sampling strategy	ļ

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Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially	36
		eligible, examined for eligibility, confirmed eligible, included in the study,	Figure
		completing follow-up, and analysed	1
		(b) Give reasons for non-participation at each stage	Figure
			1
		(c) Consider use of a flow diagram	Figure
Description	1.4 *	(a) Cinc alternativistics of study posticionate (and suppose alicinal contains)	1
Descriptive	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and	46 (Tob)
data		information on exposures and potential confounders	(Tabl.
			1)
		(b) Indicate number of participants with missing data for each variable of interest	36
			(Fig
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	1) NA
Outcome data	15*	Cohort study—Report numbers of outcome events or summary measures over time	INA
Outcome data	13.		
		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	36
		Cross-sectional study—Report humbers of outcome events of summary measures	(Fig
			1)
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates	7-12
Wani results	10	and their precision (eg, 95% confidence interval). Make clear which confounders	7 12
		were adjusted for and why they were included	
		(b) Report category boundaries when continuous variables were categorized	NA
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a	NA
		meaningful time period	1111
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and	12-13
,		sensitivity analyses	
Discussion			
Key results	18	Summarise key results with reference to study objectives	17
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or	17
		imprecision. Discuss both direction and magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations,	14-17
r		multiplicity of analyses, results from similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	14-17
Other informati		<u> </u>	1
Funding	22	Give the source of funding and the role of the funders for the present study and, if	32-33
1 unumg	22	applicable, for the original study on which the present article is based	32-33
		application, for the original study on which the present article is based	I

<sup>\*</sup>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 available at www.strobe-statement.org.	y at http://www.epidem.com/). Informati	on on the STROBE Initiative is