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

	Item No
Title and abstract	
	(a) Indicate the study's design with a commonly used term in the title or the abstract
	(b) Provide in the abstract an informative and balanced summary of what was done and what was found
Introduction	and white was found
Background/rationale	2 / 5 11 1
Objectives	2 Explain the scientific background and rationale for the investigation being reported
	3 State specific objectives, including any prespecified hypotheses
Methods	
Study design	4 Present key elements of study design early in the paper
Setting	Describe the setting, locations, and relevant dates, including periods of recruitment,
	exposure, follow-up, and data collection
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 rouses and the sources
	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 confounders, and effect modifiers. Give diagnostic criteria, if applicable
Data sources/	8* For each variable of interest since
measurement	variable of interest, give sources of data and details of methods as
	assessment (measurement). Describe comparability of assessment methods if there is more than one group
Bias	
Study size	any criticis to address potential sources of bias
Quantitative variables	The stady size was arrived at
Committee Antiquies	and a quantitative variables were handled in the analyses. If applicable
Statistical methods	gestribe 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
	(e) Explain how missing data were addressed
	(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
	municissed
	Cross-sectional study—If applicable, describe analytical methods taking account of
	sampling strategy
	(e) Describe any sensitivity analyses
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Results	
Participants	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed
	(b) Give reasons for non-participation at each stage
Descriptive	(c) Consider use of a flow diagram 14* (a) Give characteristics of study participants (c)
data	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)
Outcome data Main results	15* Cohort study—Report numbers of outcome events or summary measures over 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
	(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
	(b) Report category boundaries when continuous variables were categorized
	(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period
Other analyses	17 Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses
Discussion	
Key results	18 Supamarise key results with reference to study objectives
Limitations	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias
Interpretation	20 Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence
Generalisability	21 Discuss the generalisability (external validity) of the study results
Other informati	on /
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

^{*}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.

