

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

	Item No.	Recommendation	Page No.	Relevant text from manuscript
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	4	In this case-control study...
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	4-5	METHODS & RESULTS
<b>Introduction</b>				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	6-7	Tuberculosis (TB) is a serious infectious disease...
Objectives	3	State specific objectives, including any prespecified hypotheses	7	In this case-control study, we explored five SNPs...
<b>Methods</b>				
Study design	4	Present key elements of study design early in the paper	7-8	Sample size estimation was based on...
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	7-8	<b>Study population</b>
Participants	6	(a) <i>Cohort study</i> —Give the eligibility criteria, and the sources 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	8	<b>Study population:</b> A stratified sampling method was used to select...
		(b) <i>Cohort study</i> —For matched studies, give matching criteria and number of exposed and unexposed <i>Case-control study</i> —For matched studies, give matching criteria and the number of controls per case	N/A	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	10	with the adjustment of possible confounders, such as age and sex
Data sources/	8*	For each variable of interest, give sources of data and details of methods of assessment	8-10	<b>Information and sample</b>

measurement		(measurement). Describe comparability of assessment methods if there is more than one group		<b>collection &amp; Selection of SNPs and Genotyping</b>
Bias	9	Describe any efforts to address potential sources of bias	10	using an unconditional logistic regression model, with the adjustment of possible confounders, such as age and sex
Study size	10	Explain how the study size was arrived at	7	Sample size estimation was based on...
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	10	Continuous variables were presented as mean $\pm$ standard deviation (SD). The independent-sample t-test was used for the analysis of continuous variables.
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	10	<b>Statistical analysis</b>
		(b) Describe any methods used to examine subgroups and interactions	10	The interaction of additive effects between SNP and tea drinking was analyzed and the relative excess risk of interaction (RERI) was used...
		(c) Explain how missing data were addressed	N/A	
		(d) <i>Cohort study</i> —If applicable, explain how loss to follow-up was addressed	N/A	
		<i>Case-control study</i> —If applicable, explain how matching of cases and controls was addressed		
		<i>Cross-sectional study</i> —If applicable, describe analytical methods taking account of sampling strategy		
		(e) Describe any sensitivity analyses	N/A	
<b>Results</b>				
Participants	13*	(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	11	A total of 503 TB patients and 494 healthy controls were included in the study...

		(b) Give reasons for non-participation at each stage	N/A	
		(c) Consider use of a flow diagram	N/A	
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	11, 20-21	There was no statistically significant difference ( $P > 0.05$ ) in terms of sex, age, marital status... & Table 1
		(b) Indicate number of participants with missing data for each variable of interest	N/A	
		(c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount)		
Outcome data	15*	<i>Cohort study</i> —Report numbers of outcome events or summary measures over time		
		<i>Case-control study</i> —Report numbers in each exposure category, or summary measures of exposure	11, 22	The distribution of SNPs at the selected five sites of the mTOR gene in each group is shown in Table 2
		<i>Cross-sectional study</i> —Report numbers of outcome events or summary measures		
Main results	16	(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	11-12	The univariate analysis showed that...
		(b) Report category boundaries when continuous variables were categorized	20-21	Table 1
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	N/A	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	11-12	<b>RESULTS</b>
<b>Discussion</b>				
Key results	18	Summarise key results with reference to study objectives	12-14	It is noteworthy that the frequencies of four SNPs (rs2295080, rs2024627, rs1057079, and rs7525957) of mTOR gene...
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	14-15	This study had some limitations...
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	13-14	<b>DISCUSSION</b>

Generalisability	21	Discuss the generalisability (external validity) of the study results	15	In conclusion, our present study provides...
<b>Other information</b>				
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	2	Supported by the National Natural Science Foundation of China...

\*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](http://www.strobe-statement.org).