

STROBE guidelines checklists

Section/topic	Item number	Recommendation	Answer	Location
Title and abstract	1	Indicate the study’s design with a commonly used term in the title or the abstract	Y	Title
		Provide in the abstract an informative and balanced summary of what was done and what was found	Y	Abstract: methods, results and conclusion
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	Y	Introduction: line19-line27
Objectives	3	State specific objectives, including any prespecified hypotheses	Y	Introduction: line 28-line31
Methods				
Study design	4	Present key elements of study design early in the manuscript	Y	Materials and methods: study design: Page5 line 4-line22
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up and data collection	Y	Materials and methods: study design: line 4-line22
Participants	6	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 sources and methods of cases and controls Cross-sectional study - give the eligibility criteria, and the sources and the methods of selection of participants	Y	Materials and methods: study design: Page5 line 11-line22

		Cohort study - for matched studies, give matching criteria and the 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	Y	Materials and methods: study design: Page5 line 23-line29
Data sources/measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement); describe comparability of assessment methods if there is more than one group	Y	Materials and methods: Health-related quality of life measurement: Page5 line 31-Page6 line 14 Materials and methods: statistical analysis: Page6 line16-page7 line8
Bias	9	Describe any efforts to address potential sources of bias	Y	Materials and methods: statistical analysis: Page6 line22- line27
Study size	10	Explain how the study size was arrived at	Y	Materials and methods: study design: page5 line 8-line11
Quantitative variables	11	Explain how quantitative variables were handled in the analyses; if applicable, describe which groupings were chosen and why	Y	Materials and methods: study design: Page5 line 23-line29
Statistical methods	12	Describe all statistical methods, including those used to control confounding	Y	Materials and methods: statistical analysis: Page6 line24- line31
		Describe any methods used to examine subgroups and interactions	Y	Materials and methods: statistical analysis: Page7 line1-5
		Explain how missing data were addressed	Y	Materials and methods: statistical analysis: Page6 line17- line25

		Cohort study- if applicable, explain how loss to follow-up was addressed	Y	Materials and methods: statistical analysis: Page6 line16- line20
		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		
		Describe any sensitivity analyses	Y	Materials and methods: statistical analysis: Page6 line20- line24
Results				
Participants	13*	Report numbers of individuals at each stage of study – e.g., numbers potentially eligible, examined for eligibility, confirmed eligibility, included in the study, completing follow-up, and analyzed	Y	Results: characteristics: page 7 line12-18, Fig 1
		Give reasons for nonparticipation at stage	Y	Fig 1
		Consider use of a flow diagram	Y	Fig 1
Descriptive data	14*	Give characteristics of study participants (e.g., demographic, clinical, social) and information on exposures and potential confounders	Y	Table 1
		Indicate number of participants with missing data for each variable of interest	Y	Fig 1
		Cohort study- summarize follow-up time (e.g., average and total amount)	Y	Results: characteristics: page 7 line16-18
Outcome data	15*	Cohort study- report numbers of outcome events or summary measures over time	Y	Results: page7 line29-page8 line2, page9 line1-3, page9 line13-16, Table 2-3

		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		
Main results	16	Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (e.g., 95% confidence interval); make clear which confounders were adjusted for and why they were included	Y	Results: page7 line29-31, page9 line1-3, page9 line13-16, Table 2-3
		Report category boundaries when continuous variables were categorized	Y	Results: page9 line22-23
		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-e.g., analyses of subgroups and interactions, and sensitivity analyses	Y	Results: regression: page9 line29- page10 line6, page8 line13-23, page9 line24-26
Discussion				
Key results	18	Summarize key results with reference to study objectives	Y	Discussion: page10 line8-24
Limitation	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision; discuss both direction and magnitude of any potential bias	Y	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of	Y	Discussion: page10 line12- 20, page11 line29-page12 line2, page 13 line4-19

		analyses, results from similar studies, and other relevant evidence		
Generalizability	21	Discuss the generalizability (external validity) of the study results	Y	Discussion: page10 line28- page11 line17

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups and cross-sectional studies