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

Section/item	Item No	Recommendation	Reported on Page Number/Line Number	Reported on Section/Paragraph
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	Page 1 / Line 1	Title
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 3 / Line 1	Abstract
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 6 / Line 1	Introduction
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 6 / Line 23	Introduction
Methods				
Study design	4	Present key elements of study design early in the paper	Page 8 / Line 3	Methods / Study design
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 8 / Line 4	Methods / Study design and participants
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 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	Page 8 / Line 7	Methods / Study design and 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	N/A, This is not a matched study.	N/A, This is not a matched study.
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page 8 / Line 20 Page 9 / Line 10	Methods / Variables Methods / Outcomes
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	Page 8 / Line 3 Page 9 / Line 10	Methods / Study design and participants
Bias	9	Describe any efforts to address potential sources of bias	Page 9 / Line 14	Methods / Outcomes
Study size	10	Explain how the study size was arrived at	N/A, We evaluated all the	N/A, We evaluated all the
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page 9 / Line 18	Methods / Outcomes

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 10 / Line 2	Methods / Statistical
		(b) Describe any methods used to examine subgroups and interactions	Page 9 / Line 18	Methods / Outcomes
		(c) Explain how missing data were addressed	N/A, In statistical analysis,	N/A, In statistical analysis,
		(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	N/A, Patients with missing data on baseline or follow-up spirometry results were excluded	N/A, Patients with missing data on baseline or follow-up spirometry results were excluded
		(e) Describe any sensitivity analyses	N/A, No sensitivity	N/A, No sensitivity
Results				
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	Page 11 / Line 3	Results / Baseline characteristics
		(b) Give reasons for non-participation at each stage	Page 11 / Line 3	Results / Baseline
		(c) Consider use of a flow diagram	Figure 1	Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 11 / Line 9	Results / Baseline characteristics
		(b) Indicate number of participants with missing data for each variable of interest	N/A, No missing data in	N/A, No missing data in
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Page 11 / Line 7	Results / Baseline
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Page 11 / Line 20	Results / Variables
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	N/A, This is cohort study	N/A, This is cohort study
		Cross-sectional study—Report numbers of outcome events or summary measures	N/A, This is cohort study	N/A, This is cohort study
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	Page 11 / Line 22 Table 2	Results / Variables associated with
		(b) Report category boundaries when continuous variables were categorized	Page 12 / Line 2	Results / Variables
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	N/A, It is not relevant.	N/A, It is not relevant.
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Page 12 / Line 8	Results / Interaction effect
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 14 / Line 2	Discussion
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	Page 16 / Line 21	Discussion

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page 18 / Line 2	Conclusions
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 18 / Line 5	Conclusions
Other information				
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	Page 19 Line 1	Acknowledgments

*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.

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*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.