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

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| # | Headers | Recommendations | Page # |
| 1 | |  | | --- | | **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 | | 1, 4-5 |
| 2 | |  | | --- | | Background/rationale | | |  | | --- | | Explain the scientific background and rationale for the investigation being reported | | 5 |
| 3 | |  | | --- | | Objectives | | |  | | --- | | State specific objectives, including any prespecified hypotheses | | 6 |
| 4 | |  | | --- | | Study design | | |  | | --- | | Present key elements of study design early in the paper | | 6 |
| 5 | |  | | --- | | Setting | | |  | | --- | | Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection | | 6 |
| 6 | |  | | --- | | Participants | | |  | | --- | | (*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 | | 6-7 |
| 7 | |  | | --- | | Variables | | |  | | --- | | Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable | | 6-7 |
| 8 | |  | | --- | | Data sources/ measurement | | |  | | --- | | 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 | | 6-7 |
| 9 | |  | | --- | | Bias | | |  | | --- | | Describe any efforts to address potential sources of bias | | 6-7 |
| 10 |  |  |  |
| 11 | |  | | --- | | Study size | | |  | | --- | | Explain how the study size was arrived at | | 6-7 |
| 12 | |  | | --- | | Quantitative variables | | |  | | --- | | Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why | | 6-7 |
| 13 | |  | | --- | | Statistical methods | | |  | | --- | | *Cross-sectional study*—If applicable, describe analytical methods taking account of sampling strategy | | 7 |
| 14 | Participants | |  | | --- | | 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 | |  | | 7 |
| 15 | Descriptive data | |  | | --- | | (a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders | | (b) Indicate number of participants with missing data for each variable of interest | | 6-7 |
| 16 | Outcome data | *Cross sectional study\_—*Report numbers of outcome events or summary measures | 6-7 |
| 17 | Main results | |  | | --- | | (*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 | | 7-9 |
| 18 | Key results | Summarise key results with reference to study objectives | 9-11 |
| 19 | Limitations | Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias | 11 |
| 20 | Interpretation | Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence | 9-11 |
| 21 | Generalisability | Discuss the generalisability (external validity) of the study results | 12 |
| 22 | Funding | 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 | 12 |
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