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

<table>
<thead>
<tr>
<th>Item No</th>
<th>Recommendation</th>
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<tbody>
<tr>
<td><strong>Title and abstract</strong></td>
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</table>
| 1 | (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** | | |
| 2 | Explain the scientific background and rationale for the investigation being reported |
| 3 | State specific objectives, including any prespecified hypotheses |
| **Methods** | | |
| 4 | Present key elements of study design early in the paper |
| 5 | Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection |
| 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  
   (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 |
| 7 | Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable |
| 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 |
| **Variables** | | |
| **Data sources/measurement** | | |
| 9 | Describe any efforts to address potential sources of bias |
| 10 | Explain how the study size was arrived at |
| 11 | Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why |
| 12 | (a) Describe all statistical methods, including those used to control for confounding  
   (b) Describe any methods used to examine subgroups and interactions  
   (c) 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 was addressed  
   Cross-sectional study—If applicable, describe analytical methods taking account of sampling strategy  
   (e) Describe any sensitivity analyses |

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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
(b) Give reasons for non-participation at each stage
(c) Consider use of a flow diagram

Descriptive data 14*
(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
(c) Cohort study—Summarise follow-up time (eg, average and total amount)

Outcome data 15*
(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders
(b) Give reasons for non-participation at each stage
(c) Consider use of a flow diagram

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
(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
Summarise key results with reference to study objectives

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

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 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

*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.