## 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 3<br>Lines 37 | Abstract/<br>Paragraph 2 |
| | | (b) Provide in the abstract an informative and balanced summary of what was done and what was found | Page 3<br>Lines 43-56 | Abstract/Paragrap<br>h 3 |
| **Introduction** | | | | |
| Background/ rationale | 2 | Explain the scientific background and rationale for the investigation being reported | Page 6<br>Lines 72-94 | 1.Introduction/<br>Paragraphs 1-3 |
| Objectives | 3 | State specific objectives, including any prespecified hypotheses | Page 6<br>Lines 95-97 | Introduction/<br>Paragraph 3 |
| **Methods** | | | | |
| Study design | 4 | Present key elements of study design early in the paper | Page 7<br>Lines 101-107 | 2.Methods/<br>Paragraph 1 |
| Setting | 5 | Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection | Pages 7-8<br>Lines 101-128 | 2.Methods (2.1)/<br>Paragraphs 1-3 |
| Participants | 6 | (a) ***Cohort study***—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up<br>***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<br>***Cross-sectional study***—Give the eligibility criteria, and the sources and methods of selection of participants | Page 7<br>Lines 102-107;<br>113-115 | 2.Methods (2.1)/<br>Paragraphs 1-2 |
| | | (b) ***Cohort study***—For matched studies, give matching criteria and number of exposed and unexposed<br>***Case-control study***—For matched studies, give matching criteria and the number of controls per case | N/A (No matching studies done) | N/A (No matching studies done) |
| Variables | 7 | Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable | Page 7<br>Lines 109-113 | 2.Methods (2.1)/<br>Paragraphs 2 |
| 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 7<br>Li9nes 109-120 | 2.Methods (2.1)/<br>Paragraphs 2 |
| Bias | 9 | Describe any efforts to address potential sources of bias | Page 7<br>Lines 122 and 125 | 2.Methods (2.1)/<br>Paragraphs 3 |

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| Study size | 10 | Explain how the study size was arrived at | Page 7<br>Lines 101-103 | 2.Methods (2.1)/<br>Paragraphs 1 |
| Quantitative variables | 11 | Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why | Page 7<br>Lines 111-113 and 115-120 | 2.Methods (2.1)/<br>Paragraphs 2 |

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| Statistical methods | 12 | (a) Describe all statistical methods, including those used to control for confounding | Page 7<br>Lines 115-120 | 2.Methods (2.1)/<br>Paragraphs 2 |
| | | (b) Describe any methods used to examine subgroups and interactions | Page 7-8<br>Lines 112-128 | 2.Methods (2.1)/<br>Paragraphs 2-3 |
| | | (c) Explain how missing data were addressed | N/A (no missing data) | N/A (no missing data) |
| | | (d) ***Cohort study***—If applicable, explain how loss to follow-up was addressed<br>***Case-control study***—If applicable, explain how matching of cases and controls was addressed<br>***Cross-sectional study***—If applicable, describe analytical methods taking account of sampling strategy | N/A (none lost to follow-up) | N/A (none lost to follow-up) |
| | | (e) Describe any sensitivity analyses | N/A (none done) | N/A (none done) |
| **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 14<br>Lines 254-258 | Results/<br>Paragraph 1 |
| | | (b) Give reasons for non-participation at each stage | N/A (it's a retrospective study that included all redo cases within the study period) | N/A (it's a retrospective study that included all redo cases within the study period) |
| | | (c) Consider use of a flow diagram | N/A (not used) | N/A (not used) |
| Descriptive data | 14* | (a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders | Page 12<br>Line 254<br>+ Table 2 | Result/ Paragraph 1 + Table 2 |
| | | (b) Indicate number of participants with missing data for each variable of interest | N/A (no missing data) | N/A (no missing data) |
| | | (c) ***Cohort study***—Summarise follow-up time (eg, average and total amount) | Page 14<br>Lines 305-322 | Results/<br>Paragraph 9 |
| Outcome data | 15* | ***Cohort study***—Report numbers of outcome events or summary measures over time | Page 12-14<br>Lines 254-322 | Results/<br>Paragraphs 1-9 |
| | | ***Case-control study***—Report numbers in each exposure category, or summary measures of exposure | N/A (This is a cohort study) | N/A (This is a cohort study) |
| | | ***Cross-sectional study***—Report numbers of outcome events or summary measures | N/A (This is a cohort study) | N/A (This is a cohort study) |

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| 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 | N/A (none calculated) | N/A (none calculated) |
| | | (b) Report category boundaries when continuous variables were categorized | Page 12-14 Lines 254-322 | Results/ Paragraphs 1-9 |
| | | (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period | N/A (none calculated) | N/A (none calculated) |
| Other analyses | 17 | Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses | Page 12-14 Lines 254-322 | Results/ Paragraphs 1-9 |
| **Discussion** | | | | |
| Key results | 18 | Summarise key results with reference to study objectives | Page 18-19 Line 433-439 | Conclusion/ Paragraph 1 |
| 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 18 Lines 432-434 | Discussion/ Paragraph 8 |

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| Interpretation | 20 | Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence | Page 18-22 Lines 325-431 | Discussion/ Paragraphs 1-7 |
| Generalisability | 21 | Discuss the generalisability (external validity) of the study results | Page 18 Lines 432-434 | Discussion/ Paragraph 8 |
| **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 20 Line 446 | Acknowledgment |

*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.

Article information: https://dx.doi.org/10.21037/jtd-24-417
*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.