

Supplement S3: Modified STROBE quality score systems.

Criteria items	Score (0 to 40)
<i>Title and Abstract</i>	
1. Title and Abstract: Indicate the study design (case-control or cohort study) in the title or the abstract	()0 ()1
2. Abstract: Provide an informative and balanced summary of the study	()0 ()1
3. Introduction: Explain the scientific background and rationale for the investigation	()0 ()1
4. Introduction: State specific objectives, including any prespecified hypotheses	()0 ()1
<i>Methods</i>	
5. Study Design: Present key elements of study design	()0 ()1
6. Setting: Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	()0 ()1
7. Participants: Give the eligibility criteria of case	()0 ()1
8. Participants: Give the sources and methods of case ascertainment and control selection	()0 ()1
9. Participants: Give matching criteria and the number of controls	()0 ()1
10. Variables: Clearly define all outcomes, exposures, predictors, potential confounders, effect modifiers	()0 ()1
11. Data sources/Measurement: Give sources of data and details of methods of assessment	()0 ()1
12. Data sources/Measurement: Describe comparability of assessment methods	()0 ()1
13. Bias: Describe any efforts to address potential sources of bias	()0 ()1
14. Study size: Explain and describe the estimation of the study size	()0 ()1
15. Quantitative variables: Explain how quantitative variables were handled in the analyses	()0 ()1
16. Quantitative variables: Give group included criteria in the analyses	()0 ()1
17. Statistical methods: Describe all statistical methods, including those used to control for confounding	()0 ()1
18. Statistical methods: Describe any methods used to examine subgroups and interactions	()0 ()1
19. Statistical methods: Explain how missing data were addressed	()0 ()1
20. Statistical methods: Explain how matching of cases and controls was addressed	()0 ()1
21. Statistical methods: Describe any sensitivity analyses	()0 ()1
22. Hardy-Weinberg equilibrium: HWE was assessed	()0 ()1
23. Hardy-Weinberg equilibrium: HWE of control group was assessed	()0 ()1
<i>Results</i>	
24. Participants: Report the numbers of individuals at each stage of the study, such as numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up and analyzed	()0 ()1
25. Participants: Give reasons for non-participation at each stage	()0 ()1
26. Participants: Give a flow diagram	()0 ()1
27. Descriptive data: Give characteristics of study participants (e.g. demographic, clinical diagnosis, ethnicity, sex ratio, etc.)	()0 ()1
28. Descriptive data: Indicate the number of participants with missing data	()0 ()1

29. Outcome data: Report numbers in each exposure category, or summary measures of exposure	()0 ()1
30. Main results: Give unadjusted estimates and confounder-adjusted estimates and their 95% confidence intervals	()0 ()1
31. Main results: Make clear which confounders were adjusted for and why they were included	()0 ()1
32. Main results: If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	()0 ()1
33. Other analyses: Report other analyses such subgroups, interactions, and sensitivity analyses	()0 ()1

Discussion

34. Key results: Summarize key results with reference to study objectives	()0 ()1
35. Main results: Report category boundaries when continuous variables were categorized	()0 ()1
36. Limitations: Discuss limitation of the study, taking into account sources of potential bias or imprecision	()0 ()1
37. Limitations: Discuss both direction and magnitude of any potential bias	()0 ()1
38. Interpretation: Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	()0 ()1
39 Generalizability: Discuss the generalizability (external validity) of the study results	()0 ()1

Other

40. Funding: Give the source of funding and the role of the funders for the present study	()0 ()1
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