

Online Resource 3. Adapted QUADAS-2 questions

Domain 1: Patient selection

Risk of bias: could the selection of patients have introduced bias?

- Was a consecutive or random sample of patients enrolled?
- Was a case-control design avoided?
- Did the study avoid inappropriate exclusions?
- A clear objective and description of inclusion criteria of the study population?
- A detailed description of the study population?

Domain 2: Index test

Risk of Bias: Could the Conduct or Interpretation of the Index Test Have Introduced Bias?

- Were the outcomes measured in a valid and reliable way
- Was appropriate cross-validation and evaluation method used

Domain 3: Reference standard

Risk of Bias: Could the Reference Standard, Its Conduct, or Its Interpretation Have Introduced Bias?

- Is the reference standard likely to correctly classify the target condition?

Domain 4: Flow and timing

Risk of Bias: Could the Patient Flow Have Introduced Bias?

- Was there an appropriate interval between the index test and reference standard?
- Did all patients receive the same reference standard?
- Were all patients included in the analysis?

Domain 5: Data management

Risk of Bias: Could data management have introduced bias?

- A clear description of the data source and how data was collected
- A valid and reproducible data collection and measurement method
- Attainment of ethical approval
- Were findings and implications discussed in detail