| Risk of Bias | Yes | No | Unclear |
|-------------|-----|----|---------|
| **1. Was a consecutive or random sample of patients enrolled?** | □ | □ | □ |
| **2. Was a case control design avoided?** | □ | □ | □ |
| **3. Did the study avoid inappropriate exclusions?** | □ | □ | □ |
| **4. Is the spectrophotometry assay appropriate to correctly classify the target condition?** | □ | □ | □ |
| **5. Were replicate measures performed?** | □ | □ | □ |
| **6. Were quality control measurements included?** | □ | □ | □ |
| **7. Was there an appropriate interval between sample collection and spectrophotometry?** | □ | □ | □ |
| **8. Did all patients receive the same spectrophotometry assay?** | □ | □ | □ |
| **9. Were all patients included in the analysis?** | □ | □ | □ |

**Patient Selection**

**Spectrophotometry**

**Flow and Timing**

**Applicability**

| **Patient Selection** | **10. Was the target population applicable to the review?** | □ | □ | □ |
| **Spectrophotometry** | **11. Was the spectrophotometry assay applicable to the review?** | □ | □ | □ |

**Overall quality classifications:**

- **Low** = ‘Yes’ to all sub-questions with up to 1 ‘unclear’ for minor sub-questions.
- **Possible** = ‘No’ to only one minor sub-question.
- **High** = ‘No’ to one or more major sub-question(s).
- **Unclear** = ‘Unclear’ to at least one major sub-question or multiple minor sub-questions.

**bold font** = ‘major’ sub-question; **normal font** = ‘minor’ sub-question