

Checklist for Intervention research. Systematic Review Monitoring

Title

AuthorDevice.....

Journal, publication date

Reviewer.....Date.....

Relevance	Yes	No	Unclear
1. Is the spectrum of patients representative of a general hospital ward population?	()	()	()
2. Provides the investigated device or system decision support, analyzing the signals to present state a patients' health?	()	()	()
3. Is the monitoring device wireless?	()	()	()
4. Is the monitoring device contactless?	()	()	()
5. Is the test device easily applicable in low care clinical practice?	()	()	()

Validity

Quality/ design

5. Randomized allocation?	()	()	()
6. Sampling: Cohort / Case-Control / Case series / other			()
7. Was the sample size calculation preformed?	()	()	()
8. Was the method of recruitment/sampling systematically performed?	()	()	()
9. Were primary and secondary outcome measures clearly predefined?	()	()	()
10. Time span: How long was the intervention delivered?			()
11. Who assessed/ acted on the initial results from the monitor?			()
12. Who was blinded to the study condition assignment? Participants / care providers / those assessing outcomes *			()
13. Statistical method to compare groups for outcomes:			()

Quality / study execution

14. Population, setting:			()
15. When was the study performed (Date)			()
16. Participants. Baseline characteristics reported?	()	()	()

	Patients	Age	Male			
Study group						
Usual care						

17. Index monitor, name:			()
18. Method of respiratory observation (e.g. pulse oximetry):			()
19. Measurement (e.g. humidity in expired air):			()
20. Sensor placement (e.g. on the ear):.....			()
21. Additional vital sign measurements (e.g. HR):.....			()
22. Was standardized care applied at all times?	()	()	()
23. Were any other health care changes made along with the introduction of the monitoring system?	()	()	()
24. Primary endpoint			()
Secondary endpoints			()
25. Was the flow of participants through each stage clear: enrollment, assignment, allocation, intervention, follow-up?	()	()	()
Enrollment: (no. participants screened for eligibility)			()
Assignment: (no. participants assigned to a condition)			()
Intervention exposure: (no. participants receiving each intervention)			()
Follow-up (no. participants who completed follow-up)			()

* delete what is not applicable

*Checklist Systematic Review Continuous Monitoring in general hospital wards.
Based on the CONSORT and TREND checklist.*

	Yes	No	Unclear
26. Was a summary of results provided for each primary- and secondary outcome?	()	()	()
27. Mortality			()
28. ICU admission			()
29. Length of hospital stay			()
30. Length of ICU stay			()
31. Cardiopulmonary arrests			()
32. Other:.....			()

Quality / article

33. Is the research question clearly stated?	()	()	()
34. Is the target population and study sample clearly described?	()	()	()
35. Is the intervention clearly described to allow replication?	()	()	()
36. Is the data acquisition described sufficiently?	()	()	()
37. Were the results/ outcomes clearly and correctly reported?	()	()	()
38. Were the indeterminate results (artifacts) and outliers reported?	()	()	()
39. Were the results discussed taking into account	()	()	()
-the trial limitations?	()	()	()
-generalisability?	()	()	()
-benefit and harms?	()	()	()

Checklist for diagnostic studies. Systematic Review Monitoring

Title

AuthorDevice.....

Journal, publication date

Reviewer.....Date.....

Relevance	Yes	No	Unclear
1. Is the spectrum of patients representative of a general hospital ward population?	()	()	()
2. Provides the investigated device or system decision support, analyzing the signals to present state a patients' health?	()	()	()
3. Is the monitoring device wireless?	()	()	()
4. Is the monitoring device contactless?	()	()	()
5. Is the test device easily applicable in low care clinical practice?	()	()	()

Validity

Quality / design

6. Diagnostic accuracy / comparing accuracy between tests / methods-comparison*			()
7. Sampling: Cohort / Case-Control / Case Series / other: *			()
8. Was a sample size calculation performed?	()	()	()
9. Was the method of recruitment/sampling performed systematically?	()	()	()
10. Were cutoff points (normal vs. abnormal) or categories of both reference test and investigated device determined previously?	()	()	()
11. Were the reference measurements performed simultaneously with the index measurements (cross-sectional)?	()	()	()
12. Blinding of the index monitor?	()	()	()
13. Blinding of the reference monitor?	()	()	()

Quality/ study execution

14. Population, setting:			()
15. When was the study performed (Date)			()
16. Participants, baseline characteristics reported?	()	()	()

	Patients	Age	Male			
No. %						

17. Index monitor, name:			()
18. Method of respiratory observation (e.g. pulse oximetry):			()
19. Measurement (e.g. humidity in expired air):			()
20. Sensor placement (e.g. on the ear):.....			()
21. Additional vital sign measurements (e.g. HR):.....			()
22. Reference test:.....			()
23. Was standardized care applied at all times?	()	()	()
24. Were any other health care changes made along with the introduction of the monitoring system?	()	()	()

25. Is a cross tabulation reported?	()	()	()
-------------------------------------	----	----	----

	Ref+	Ref-
Test+		
Test-		

26. Is diagnostic accuracy and statistical uncertainty reported?	()	()	()
--	----	----	----

Sens	Spec	PPV	NPV	LR+	LR-

27. If comparability between tests is tested: Is a Bland Altman analysis done?	()	()	()
--	----	----	----

Mean	SD	-limit	+limit

*Checklist Systematic Review Continuous Monitoring on general hospital wards.
Based on the STARD Checklist*

Quality / article

- | | | | |
|---|-----|-----|-----|
| 28. Is the research question clearly stated? | () | () | () |
| 29. Is the target population and study sample clearly described? | () | () | () |
| 30. Is the index monitor clearly described? | () | () | () |
| 31. Is the reference monitor clearly described? | () | () | () |
| 32. Is the data acquisition described sufficiently? | () | () | () |
| 33. Were the results/ outcomes clearly and correctly reported? | () | () | () |
| 34. Were the indeterminate results (artifacts) and outliers reported? | () | () | () |
| 35. Is clinical applicability of study findings reported? | () | () | () |

** delete what is not applicable.*