**Project/Topic of your Clinical Question:**

**Reviewer:**

**Today’s Date:**

**Final Evidence Level:**

**Article Title:**

**Year:**

**First Author:**

**Journal:**

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Do the study aim/purpose/objectives and inclusion/exclusion criteria assist in answering your clinical question?

- [ ] Yes
- [ ] No
- [ ] Unknown

- **Study Aim/Purpose/Objectives:**

- **Inclusion Criteria:**

- **Exclusion Criteria:**

---

When reading the bolded questions, consider the bulleted questions to help answer the main question.

If you are uncertain of your skills in evidence evaluation, please consult a local evidence expert for assistance:

CCHMC Evidence Experts: [http://groups/ce/NewEBC/EBDMHelp.htm](http://groups/ce/NewEBC/EBDMHelp.htm)

Unfamiliar terms can be found in the LEGEND Glossary: [http://groups/ce/NewEBC/EBCFiles/GLOSSARY-EBDM.pdf](http://groups/ce/NewEBC/EBCFiles/GLOSSARY-EBDM.pdf)

### VALIDITY: ARE THE RESULTS OF THE PSYCHOMETRIC STUDY VALID OR CREDIBLE?

1. **Was the study purpose focused on examining one or more measurement properties (i.e., validity, reliability)?**
   - Yes
   - No
   - Unknown
   - **Comments:**

2. **Was the instrument clearly described?**
   - Yes
   - No
   - Unknown
   - **Comments:**

3. **Was the protocol for administration and scoring standardized?**
   - Yes
   - No
   - Unknown
   - **Comments:**

4. **Were the observers/raters appropriately trained or certified?**
   - Yes
   - No
   - Unknown
   - **Comments:**

5. **Were the data collected on a representative sample?**
   - Yes
   - No
   - Unknown
   - **Comments:**
6. Was the sample size adequate?
   - Do authors discuss whether the sample size is adequate?
     Comments:

7. Did the instrument make intrinsic sense – face validity (expert opinion/consensus)?
   Comments:

8. Did the instrument sample the content/domain adequately?
   Comments:

9. Was there evidence of the test’s construct validity (factor analysis)?
   - Did the test discriminate between two groups (known-groups method)?
   - Did the test values agree with values of a similar test or gold standard (concurrent/convergent validity) or with a future outcome (predictive validity)?
     If yes, then:
     - What was the strength of the correlation?
     - What were the confidence limits, if given?
   Comments:

10. Was there freedom from conflict of interest?
    - Sponsor/Funding Agency or Investigators
    Comments:

### RELIABILITY: ARE THE VALID STUDY RESULTS IMPORTANT?
ARE THE RESULTS OBTAINED WITH THESE MEASURES REPLICABLE? (TESTS, MEASURES, SCALES, INSTRUMENTS, ETC.)

11. What was the internal consistency (i.e., Cronbach’s alpha)?
    (Relevant where scales have multiple items that sum up to a total score)
    Comments:

12. Were appropriate statistical measures used to assess agreement between two or more occasions using the same observer (i.e., intra-rater reliability)?
    Comments:
13. Were appropriate statistical measures used to assess agreement between two or more observers (i.e., inter-rater reliability)?
   Comments:
   [ ] Yes  [ ] No  [ ] Unknown

14. Were appropriate statistical measures used to assess test-retest reliability (i.e., stability coefficient)?
   • Was an appropriate test-retest interval used?
   Comments:
   [ ] Yes  [ ] No  [ ] Unknown

15. Did the instrument capture important change (e.g., clinical significance)?
   Comments:
   [ ] Yes  [ ] No  [ ] Unknown

16. Was there evidence of floor or ceiling effects?
   Comments:
   [ ] Yes  [ ] No  [ ] Unknown

**APPlicability: Can I apply these valid, important study results to treating my patients?**

17. Can the results be applied to my population of interest?
   • Is use of the instrument feasible in my care setting?
   • Is the setting of the study applicable to my population of interest?
   • Do the patient outcomes apply to my population or question of interest?
   • Are the likely benefits worth the potential harm and costs?
   • Were the patients in this study similar to my population of interest?
   Comments:
   [ ] Yes  [ ] No  [ ] Unknown

18. Are my patient’s and family’s values and preferences satisfied by the use of the diagnostic test?
   Comments:
   [ ] Yes  [ ] No  [ ] Unknown

19. Would you include this study/article in development of a care recommendation?
   Comments:
   [ ] Yes  [ ] No  [ ] Unknown

**Addi**

**Additional Comments or Conclusions (“Take-Home Points”):**

____
Consider each “No” answer and the degree to which this limitation is a threat to the validity of the results, then check the appropriate box to assign the level of quality for this study/article.

Consider an “Unknown” answer to one or more questions as a similar limitation to answering “No,” if the information is not available in the article.

The Evidence Level is:
- Good Quality Psychometric Study [2a]
- Lesser Quality Psychometric Study [2b]
- Not Valid, Reliable, or Applicable

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*CCT = Controlled Clinical Trial

Development for this appraisal form is based on: