

A systematic review of patient-reported outcome measures for maternal postpartum depression using the COnsensus-based Standards for the selection of health Measurement INstruments (COSMIN) checklist

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Background

Postpartum depression

- Frequently reported in the postpartum period.
- Key domain of postpartum recovery.
- No consensus regarding which Patient Reported Outcome Measure (PROM) we should use to screen for postpartum depression.
- We performed a systematic review to evaluate the psychometric properties postpartum depression using COSMIN criteria.

1. Sultan P, Sadana N, Sharawi N, et al. Evaluation of Domains of Patient-Reported Outcome Measures for Recovery After Childbirth: A Scoping and Systematic Review. *JAMA Network open*. 2020;3(5):e205540. doi:10.1001/jamanetworkopen.2020.5540

Methods

- Following registration with PROSPERO, we search 4 databases for validated PROMS used to screen for postpartum depression.
- Studies were considered if they evaluated at least 1 domain of postpartum depression and ≥ 1 psychometric measurement property of a PROM
- Essential postpartum depression domains to include for instrument assessment were decided by author consensus.
- Unidimensional measures such as single-item numerical rating scales were excluded.
- An overall rating was assigned based upon COSMIN criteria and the Grading of Recommendations Assessment, Development, and Evaluation (GRADE) approach was used to assess the level of evidence for psychometric properties of included PROMs.

Results

43 studies

18 different languages

22,093 postpartum women

Between 1987-2014

10 validated PROMs for
depression

Beck Depression Inventory I
Beck Depression Inventory II
Center for Epidemiologic Studies Depression Scale
Edinburgh Postnatal Depression Score
General Health Questionnaire-12
Hopkins Symptom Checklist-10
Hospital Anxiety and Depression Scale
Patient Health Questionnaire-9
Postpartum Depression Screening Scale
Zung Depression scale



Results & Conclusions

4 Domains



Affective, Behavioral, Somatic and Interference.

Content Validity



Satisfactory in all 10 PROMs

CLASS A recommendation



Adequate content validity and at least a low level of evidence for sufficient internal consistency

Edinburgh
Postpartum
Depression
Scale

Conclusion: The EPDS is the best currently available PROM of maternal postpartum depression. Future studies should focus on evaluating the cross-cultural validity, reliability, and measurement error of EPDS in order to improve our understanding of its psychometric properties and clinical utility.