

A Validated Scale to Measure the Person-Centeredness of Research Products

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Background/Research Question:

Using data from community engagement studios and translational studios that collected project specific input across a broad range of research areas, we developed a quantitative instrument to measure the patient-centeredness of research products.

Methods

A multi-step approach to scale development and validity included: 1) content and item generation, 2) evaluation of item candidates, 3) testing of initial scale, 4) scale revision, and 5) testing of revised scale. Both community/patient stakeholders and researchers served as reviewers. 60 research abstracts (RA) (30 PCORI RA and 30 ACTS RA) were rated with the first scale version (11 items, 4-point Likert scale). Feedback was also collected. The second version (7 items, 5 point Likert scale) was developed and tested using 40 RA (20 PCORI/20 ACTS). Factor analysis and Cronbach's alpha was computed to determine internal consistency and reliability.

Results

The first version internal consistency was high ($\alpha = 0.930$). Items showed correlation coefficients ranging from $r = 0.60$ to $r = 0.86$ with the scale total score. All items were included in one single factor explaining 59% of the variance. The second version showed high internal consistency ($\alpha = 0.957$) and items were highly intercorrelated (from $r = 0.63$ to $r = 0.90$). All items were included in one single factor explaining 80% of the variance. Mean score for PCORI RA was $7.15 (\pm 7.96)$ and for ACTS RA was (-2.08 ± 9.50) .

Conclusion

The quantitative Person-Centeredness of Research scale can be used by others in the field to help standardize this work and evaluate the patient (person) centeredness of research products.