Psychometric Properties of the Keep it Simple Functional Analysis (KISFA) a New Tool to Simplify Measurement-Based Care

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Objectives

No other discipline in medicine has as much complexity for assessing outcomes as psychiatry. The absence of reliable and valid biomarkers and imaging has resulted in utilizing questionnaires as primary outcome measures. Despite this, the dizzying amount of options to assess psychopathology and treatment benefits are difficult for providers to understand, let alone patients. Developing a tool with strong psychometric properties that is easy to administer and understand for patients is critical for the future of our profession.

Method

A new questionnaire on patient functioning, simple to understand and brief to administer was developed and psychometric properties were tested. Internal consistency for the KISFA was tested via Cronbach's alpha. Reliability was assessed using Pearson correlation coefficients and concurrent validity was assessed by comparing items to those from the strengths and difficulties questionnaire (SDQ).

Results

Concurrent validity: 1201 youth aged 11-17, 948 adults aged 18+ and 2537 parents completed both the KISFA and SDQ. The KISFA overall functioning score was highly correlated with the SDQ total difficulties scale (r = -.39, p<.0001) as well as the SDQ impact factor (r = -.47, p<.0001). The KISFA friends score was highly correlated with the SDQ peer scale (r = -.47, P,.0001) and the KISFA school score was highly correlated with the SDQ hyperactivity score (r = -.31, P<.0001). Similar results were obtained for the both the self-report adult and parent surveys.

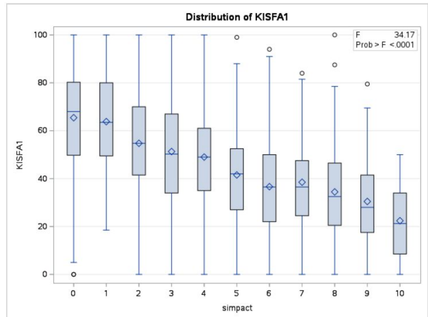
Come on Psychiatry! Let's catch up with the times and get simple, reliable and accurate outcome measures for our patients.

Results (Continued)

Test-retest reliability: 137 youth and 91 parents completed questionnaires within 72 hours of initial administration. Correlation coefficients ranged from .79 to .89 for items on the youth and parent KISFA (all highly significant at p<.0001 and above the agreed upon cut-off of 0.7 for good reliability).

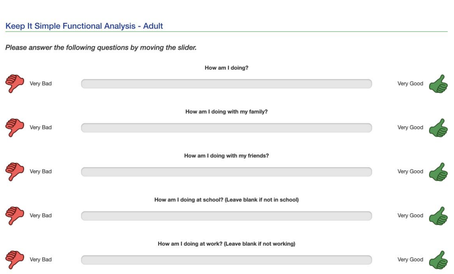
Internal Consistency: Cronbach's alpha for the youth questionnaires was .67, for the adult questionnaires was .76 and for the parent questionnaires was .83 indicating good internal consistency.

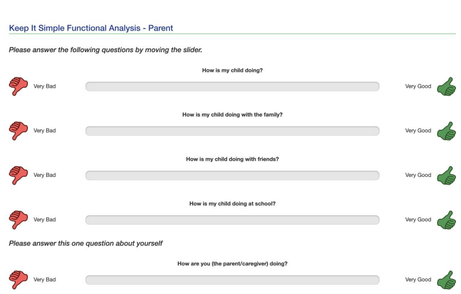
KISFA Overall Youth Well-Being Correlation with Strength and Difficulties Youth Impact Factor

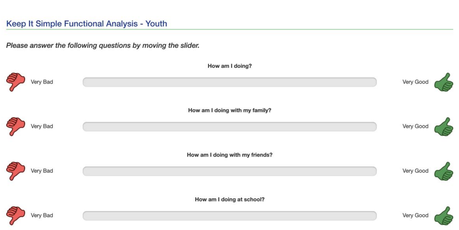
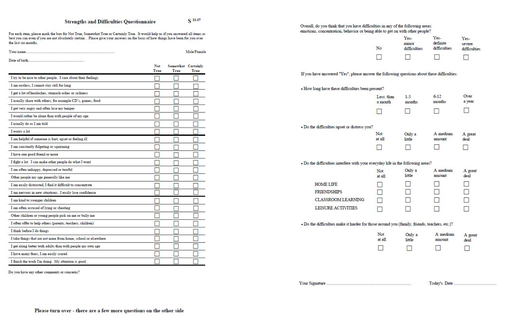


Conclusion

This study demonstrates that a brief (< 1 minute) survey can give similar information as a 34 item, 2 page questionnaire. Integrating simple, accurate and reliable outcome measures for patients in psychiatry is critical as our field continues to grow and gain increased recognition as a vital component of overall health.



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