Standardization Of Closed Ended Questionnaire – Pediatric Functional Independence Measures in Arabic Language

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Introduction

- Pediatric/Wee-FIM Questionnaire
- Baseline & Outcome Measures.
- Children with developmental disabilities.
- Developed by UDSMR (Uniform Data System For Medical Rehabilitation)

Need for the study

- Difficulty for Non-Arabic professionals in deriving comprehensive data. (language)
- Contextual interference (Physical environment, Cultural factors)
- Lack of Normative data/Reference scores.

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Implications

• Self-directed one after standardization.
• Better parent reported outcomes.
• Ample time for parents.
• Easy to generate Normative data (stage 2 process)
• Ease for Non-Arabic entry level professionals
Methodology

- Longitudinal Cohort (stage 1)
- Criteria for Inclusion
- Content validity procedures.
- Cognitive Interview/De-briefing
- Re-test Reliability
- Inter-Rater/Observer
- Co-relation Analysis.
Cognitive Debriefing, Validity & Reliability through Non-Arabic & Arabic Professionals

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Cognitive Debriefing, Validity & Reliability through Non-Arabic & Arabic Professionals

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Linguistic Variables from 1\textsuperscript{st} - 10\textsuperscript{th} Session

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Cognitive Debriefing Scores of different Arab Nationalities scores before & after the Interview

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Results

• Content validity – 0.7 to 0.8
• Equivalency related to critical value is appropriate.
• Test-Retest Reliability – r > 0.87
• Inter – Rater Reliability – K= 0.9(P≤0.05)
• 3 co-relation analysis – r > 0.8, 0.7 & 0.8(p<0.05)
Discussion

- Psychometric properties are good.
- 36 parents – Literacy level is fair to good.
- Socio-Economic status- Average to High.
- Concurrent validity yet to be tested using PEDI.
- Considerable increase in population size by simplifying the questionnaire.
- Normative data for 204 children – stage 2 process
Conclusion

• Good Parent reported outcome.
• Sensitive to measure each components.
• Easy for parents, though the questionnaire is long.
• Reach towards literacy level of Parents from high school to graduation
• Best used by entry level Non-Arabic professionals.
Key References

- The role of Cognitive Debriefing & Linguistic Validation in Instrument, Bonnie Teschendorf, CRF health, 2011
- Functional Independence Measure (WeeFIM) for Chinese children, Virginia Wong, Pediatrics 2001
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Thank you