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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.

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.

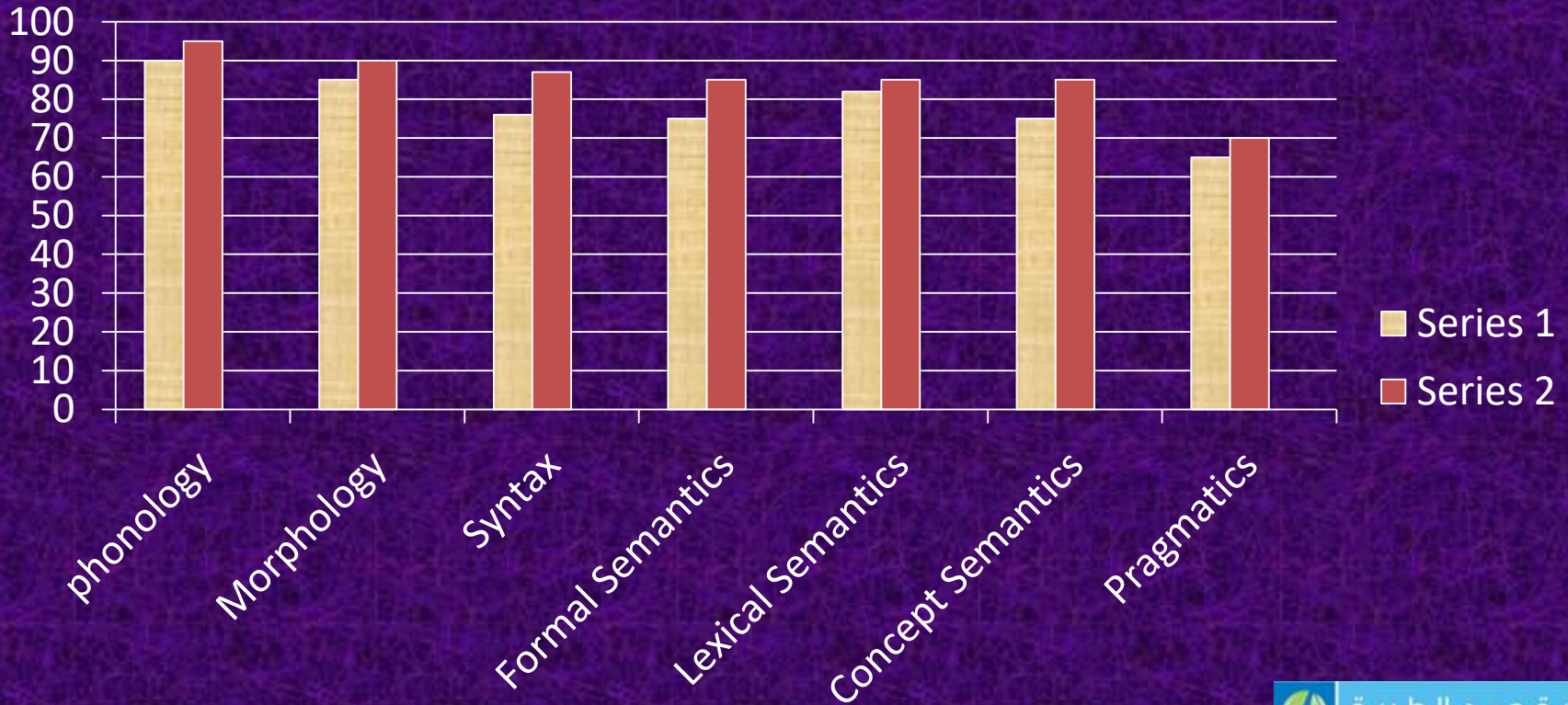
Cognitive Debriefing, Validity & Reliability through Non-Arabic & Arabic Professionals



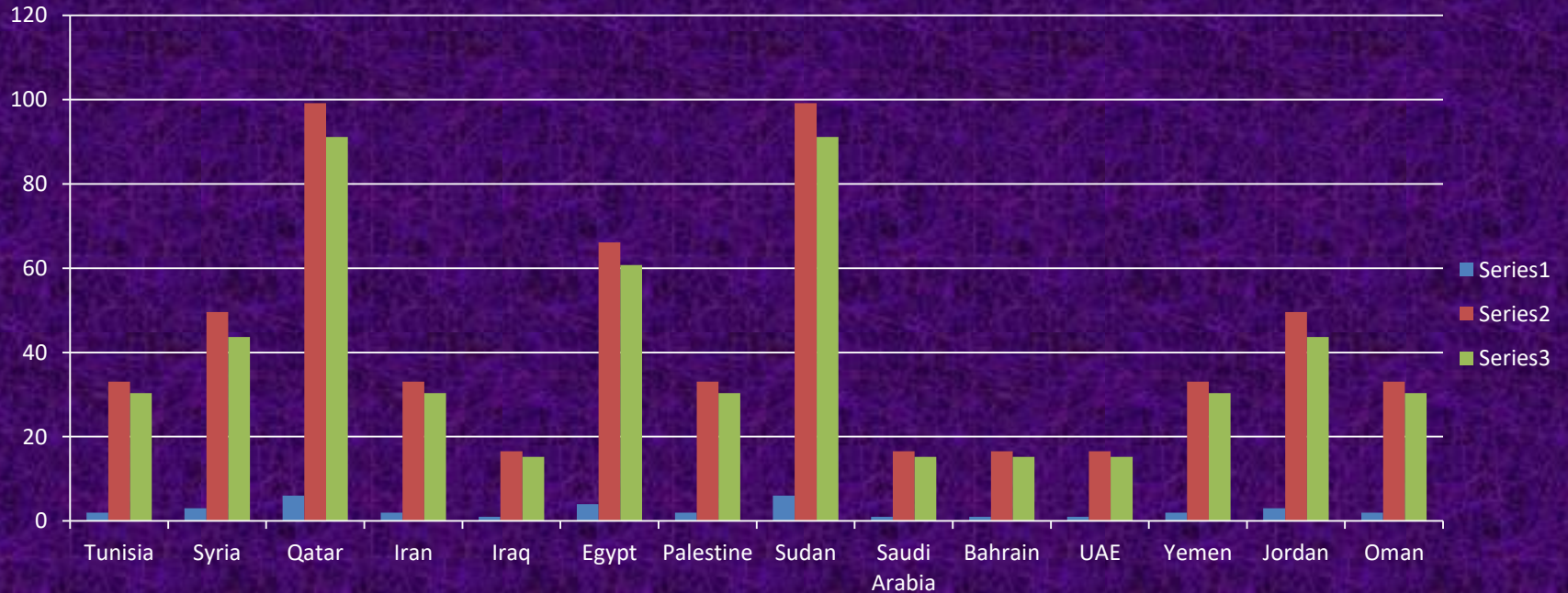
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Linguistic Variables from 1st -10th Session



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



Results

- Content validity – 0.7 to 0.8
- Equivalency related to critical value is appropriate.
- Test-Retest Reliability – $r > 0.87$
- Inter – Rater Reliability – $K = 0.9 (P \leq 0.05)$
- 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