

Validation of A Pregnancy Planning Measure for Arabic Speaking Women

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Background

Unplanned pregnancy has an effect on maternal and infant outcomes (Figure 1)

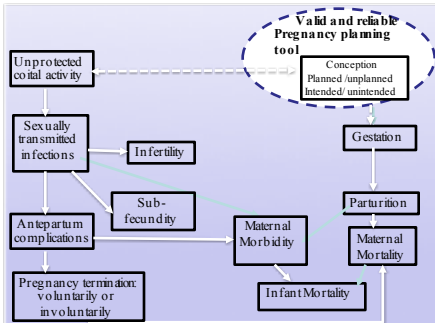


Figure 1. Pathways for the impact of unplanned pregnancy on maternal and newborn outcomes [1]

Unplanned pregnancy has not been thoroughly investigated in Saudi Arabia, largely due to the unavailability of an assessment tool

Aim Statement

This study aims to develop an Arabic version of the London Measure of Unplanned Pregnancy and test its psychometric properties in Arabic-speaking women.

Method

- Piloted the Arabic version of the LMUP and tested its psychometric properties (Figure 2)
- Introduced culturally sensitive modifications
- The Arabic tool was disseminated via an online survey using social media platforms (e.g. WhatsApp, Facebook).
- Family planning Experts ratings for the appropriateness of the LMUP items to the women context.

Analysis & Results

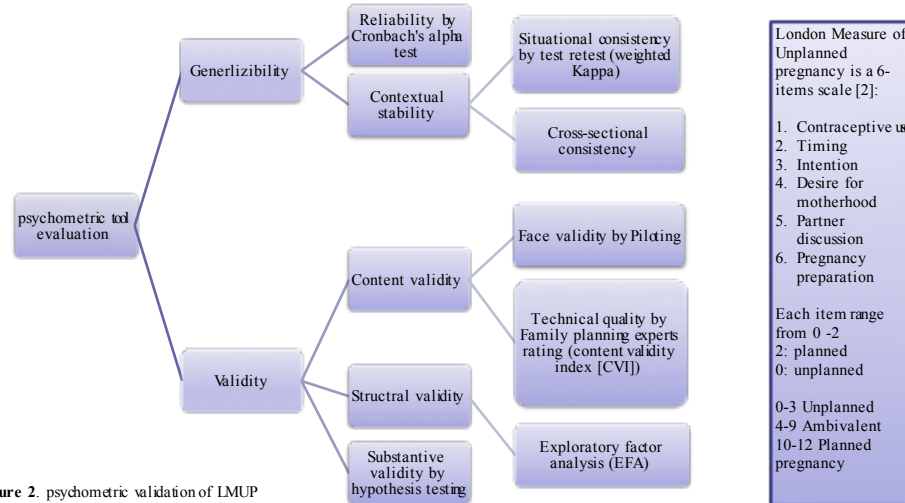


Figure 2. psychometric validation of LMUP

The Arabic LMUP version psychometric analysis (Figure 2) exhibited valid and reliable properties. The CVIs for individual items and the full scale were > 0.7 . EFA confirmed a unidimensional extraction of the scale item. Hypothesis testing confirmed the expected associations for parity and pregnancy planning (Figure 3) and the bimodal education influence on pregnancy planning (Figure 4). The tool was stable with weighted kappa = 0.78.

Table 1. Reliability testing and exploratory factor analysis

Factor Matrix (EFA)	Factor 1	Factor Communalities	Cronbach's alpha
Contraception	.544	.296	.878
Timing	.804	.712	
Intention	.930	.842	
Desire	.889	.803	
Partner	.778	.686	
Preparation	.482	.331	

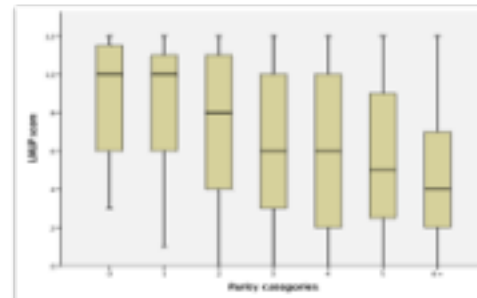


Figure 3. Distribution of London Measure of Unplanned Pregnancy (LMUP) score of Saudi women parity. 0 parity consisted of women who are had no prior born child, and/or currently pregnant with the firstone.

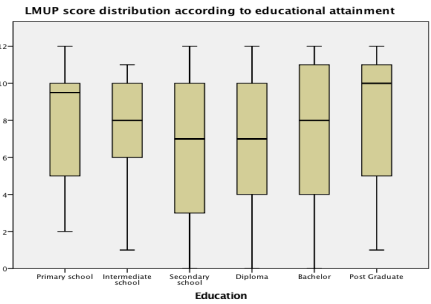


Figure 4. Distribution of LMUP according to the maternal educational attainment

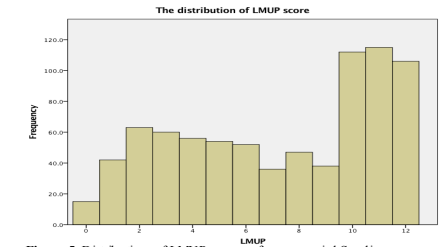


Figure 5. Distribution of LMUP scores of Never-married Saudi women

Future research

- Study confirmed the validity and reliability of the Arabic LMUP
- This Arabic LMUP can be used in research studies among Arabic-speaking women to measure unplanned pregnancy, and to investigate its correlates and outcomes.

References

- 1- Tsui, A. O., McDonald-Mosley, R., & Burke, A. E. (2010). Family Planning and the Burden of Unintended Pregnancies. *Epidemiologic Reviews*, 32(1), 152-174. <https://doi.org/10.1093/epir/evq012>
- 2- Geraldine Barrett, J. H. (13/8/2016). London Measure of Unplanned Pregnancy (LMUP) ANALYSIS GUIDANCE. Retrieved from www.lmup.com