Validation of A Pregnancy Planning Measure for Arabic Speaking Women

Eman Almaghaslah MBBS 1,2, Roger Rochat MD2, Ghada Farhat PhD, MPH2
1. Ministry of Health, 2. Hubert department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA, USA

**Background**

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

**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**

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.

**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.

**Table 1. Reliability testing and exploratory factor analysis**

<table>
<thead>
<tr>
<th>Factor Matrix (EFA)</th>
<th>Factor 1</th>
<th>Factor 2</th>
<th>Cronbach's alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contraception</td>
<td>544</td>
<td>.296</td>
<td>.878</td>
</tr>
<tr>
<td>Timing</td>
<td>.804</td>
<td>.712</td>
<td></td>
</tr>
<tr>
<td>Intention</td>
<td>.930</td>
<td>.842</td>
<td></td>
</tr>
<tr>
<td>Desire</td>
<td>.889</td>
<td>.803</td>
<td></td>
</tr>
<tr>
<td>Partner</td>
<td>.778</td>
<td>.686</td>
<td></td>
</tr>
<tr>
<td>Preparation</td>
<td>.482</td>
<td>.331</td>
<td></td>
</tr>
</tbody>
</table>

**References**