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DESIGN OF A METHODOLOGY FOR CULTURAL TRANSLATION AND ADAPTATION OF THE ADHERENCE TO REFILLS AND MEDICATIONS SCALE (ARMS)

J. González-Bueno¹, E. Calvo-Cidoncha², A. Rodríguez-Pérez³, M. D. Toscano-Guzmán 3, R. Cantudo-Cuenca⁴, B. Santos-Ramos⁴.

¹ Pharmacy. Hospital General de Vic (Barcelona). ²Pharmacy. Hospital Clinic I Provincial de Barcelona (Barcelona). ³Pharmacy. Hospital Virgen del Rocío (Sevilla). ⁴Pharmacy. Área de Gestión Sanitaria Sur de Sevilla (Sevilla).

Background

Development and Evaluation of the Adherence to Refills and Medications Scale (ARMS) among Low-Literacy Patients with Chronic Disease

Sunil Kripalani, MD, MSc,¹ Jessica Risser, MD, MPH,² Margaret E. Gatti, MPH,³ Terry A. Jacobson, MD⁴

The Adherence to Refill and Medications Scale (ARMS) is a tool for the measure of adherence validated in an English-speaking setting. The application of this scale into a different clinical practice setting requires a cross-culturally translation and adaptation process.



To design a methodology to translate and adapt the ARMS scale to a non English-speaking culture ensuring cross-cultural equivalence

Material and Methods

A symmetrical translation approach was selected for ensuring a semantic, conceptual and content equivalence between the source language (SL) and the target language (TL).

This approach was structured on three steps:

1) Forward translation

2) Blind-back translation

3) Synthesis-adaptation

Translators involved in step 1 and 2 had to rate (0-10 scale) the difficulty they had found assuring cross-culturally equivalence of every translated item. Difficulty rating is expressed as mean and standard deviation. Correlation analysis between the scores of each translator was performed using the Pearson's correlation coefficient.

Results

1) Forward translation

The 12-item ARMS scale (SL) was forward translated to the TL by an independent bilingual and bicultural translator whose mother language was the TL.

2) Blind-back translation



The preliminary translated version was back translated into the SL in a blinded fashion by other independent bilingual and bicultural translator whose mother language was the SL.

Both translators were health-care professionals knowledgeable about compliance terminology. The score for translation difficulty was 2.7 (SD: 1.5) in both cases. A non-significant correlation between translators was observed: 0,475 showing a specific difficulty for each language and translator.

3) Synthesis-adaptation

Items of the back-translation were compared with the original scale regarding format, wording, grammatical structure, similarity in meaning, and relevance. This step was performed by a third independent bilingual and bicultural translator whose mother language was the TL and by a methodologist & health-care professional. The translated scale was modified by consensus in case of discrepancies between the original and the back-translated scale.

Conclusion

The proposed methodology might be robust enough to provide reliable and cross-culturally translated tools able to be applied into clinical practice.