

## Development And Validation Of Knowledge, Attitude, Practice Questionnaire Of Back Care And Back Pain Prevention Among Medical Officers

<sup>1</sup>Oon ZS; <sup>1</sup>Rajandra KK; <sup>1</sup>Zamzuri Z

<sup>1</sup>Department of Orthopedics, Traumatology and Rehabilitation, SASMEC@IIUM, Kuantan, Pahang, Malaysia

### INTRODUCTION:

Low back pain is the leading cause of disability worldwide. The medical officer's knowledge, attitude, and practice (K.A.P) directly affect patient outcomes. However, no valid questionnaire is available for such assessment. Therefore, we aimed to design and validate a questionnaire to evaluate the KAP of medical officers on back care and back pain prevention.

### METHODS:

A questionnaire (KAP-BCBPP) was drafted following literature reviews. Content validation was performed with the involvement of five experts from different specialties. A face validation was carried out among ten orthopedic medical officers working in the same institute. The questionnaire was then tested on 108 medical officers from three different departments (Orthopaedic, Emergency and Family Medicine) from thirteen various centres in Kuantan district to determine its construct validity and internal consistency. Internal consistency was analyzed using Cronbach's  $\alpha$  coefficients while construct validity was assessed by exploratory factor analysis.

### RESULTS:

A total of 106 participants consented and completed the questionnaire. This questionnaire has a strong content validity and an acceptable face validity index. The questionnaire has acceptable reliability with Cronbach's  $\alpha$  of 0.679, 0.82 and 0.78 for respective dimensions. After exploratory factor analysis, a total of 12 factors were extracted in 3 domains with a total of 33 items in the final questionnaire.

**Table 1** shows Internal Consistency

Variables	Cronbach' $\alpha$
Knowledge	0.679
Attitude	0.82
Practice	0.784

**Table 2** shows Construct Validity

Variables	(KMO) measure of sampling adequacy	Barlett's test of sphericity (p-value)
Knowledge	0.545	292.836 (p<0.001)
Attitude	0.833	308.632 (p<0.001)
Practice	0.781	232.580 (p<0.001)

### DISCUSSIONS:

A reliable questionnaire has a Cronbach's  $\alpha$  range from 0.65-0.9 [1]. Our limitations are a small sample size and no existing study for comparison.

### CONCLUSION:

The KAP-BCBPP questionnaire is adequately valid and reliable.

### REFERENCES:

1. Taber, K. S. (2018) The use of Cronbach's Alpha When Developing and Reporting Research Instruments in Science Education. *Research in Science Education*. 48, 1273-1296