Testing and Validation of the Gender-Friendliness Barriers in Nursing Programs Questionnaire: A Confirmatory Factor Analysis

Hsiang-Chu Pai, PhD, RN
Department of Nursing, Chung-Shan Medical University; Chung-Shan Medical University Hospital, Taichung, Taiwan

Nai-Yu Liu, MS, RN
Department of Nursing, Chung Shan Medical University, Taichung, Taiwan

Chao-An Hung, MSN, RN
Department of Nursing, Chung Shan Medical University Hospital; Chung-Shan Medical University, Taichung, Taiwan

Pei-Ling Wu, PhD, RN
Department of Nursing, Chung Shan Medical University; Chung Shan Medical University Hospital, Taichung, Taiwan

Background

- Nursing is considered a female-oriented profession. Until recently, most nurses were female.
- The number of male nurses is increasing in recent years; however, they face many gender role strains in the current nursing environment.
- Gender stereotypes and gender bias toward nursing confuses male nursing students. An understanding of the nature of male students could help nursing educators develop proper teaching methods for nursing students.
- However, so far, there is no measurement instrument designed to examine male nurses’ perceived gender-friendliness barriers in nursing education programs in Taiwan.

Methods

This study adopted a cross-sectional and descriptive research design.

Participants were recruited from four universities in Central Taiwan. A convenience sample of 459 nursing students completed the GFB-NP questionnaire.

A confirmatory factor analysis (CFA) was used to examine the items and measurement model, using the LISREL program, Version 8.52.

Results

The CFA identified a 20-item second-order factor for GFB-NP questionnaire. The questionnaire contains three components: “barriers to belonging,” “barriers to clinical practice,” and “course-related barriers.” The fit indices showed an acceptable fit overall for the full model (chi-square/df = 492.5/161=3.06; normed fit index, NFI = 0.94; comparative fit index, CFI = 0.96; goodness of fit index, GFI = 0.90; and root mean square error of approximation, RMSEA = 0.067). The intercorrelation coefficients of the three components are as follows: between “barriers to belonging” and “barriers to clinical practice,” 0.53 (p < .01); “barriers to belonging” and “course-related barriers,” 0.57 (p < .01); and “barriers to clinical practice” and “course-related barriers,” 0.55 (p < .01).

Conclusion

The GFB-NP questionnaire is a reliable and valid method to examine nursing students’ perceived gender-friendliness barriers in clinical education programs. It could help nursing educators understand the nature of men and to develop and adopt proper teaching methods for nursing students.

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