



# BENEFITS

Better & Effective Nursing Education For Improving  
Transcultural nursing Skills

## Developing the “Better and Effective Nursing Education For Improving Transcultural nursing Skills (BENEFITS) Cultural Competence and Cultural Sensitivity Assessment Tool”

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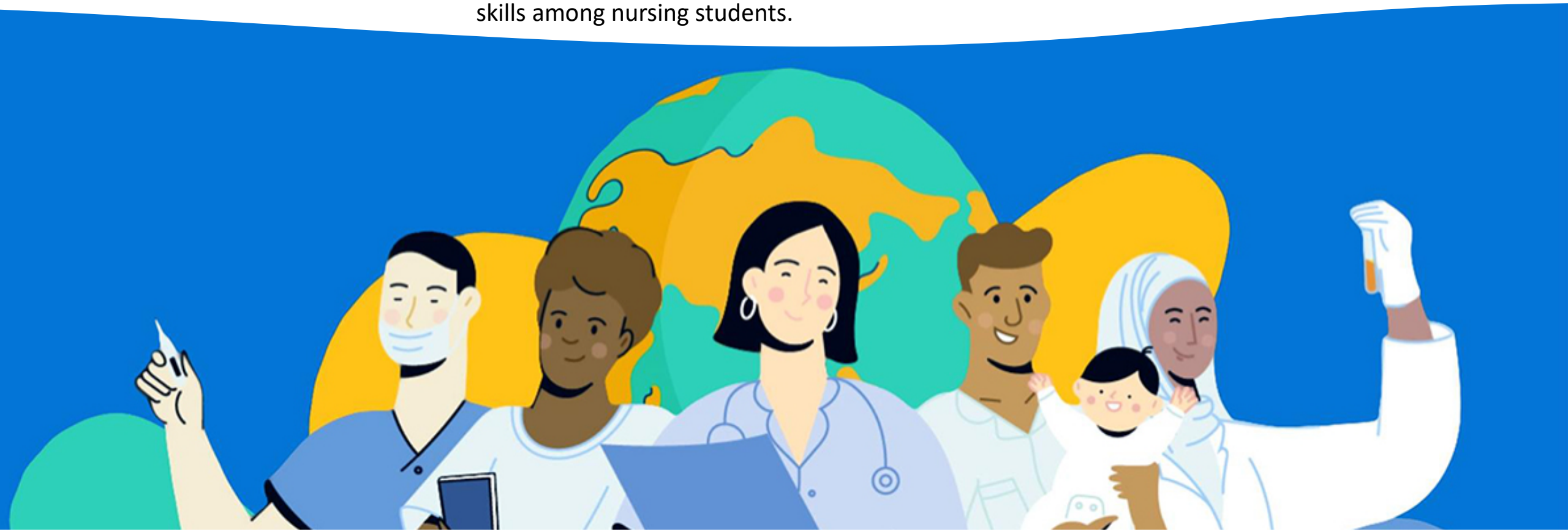
## Introduction

- In order to facilitate daily life within different cultural it is important that healthcare professionals are well equipped with appropriate cultural knowledge and skills that will meet the cultural needs of specific communities (Chae et al. 2020).



## Introduction

- Similarly, the need for nurses who can provide care with cultural competence has certainly increased. Therefore, it is crucial to equip nursing students with the necessary knowledge and skills on transcultural nursing care (Hultsjö 2019; Choi, & Kim 2018).
- For this reason, worldwide nursing scholars understand the importance and challenges of educational strategies for raising cultural competence and chase after developing curriculum studies and training programs for promoting cultural awareness, sensitivity, knowledge and skills among nursing students.





## Introduction

- In a recent systematic review, analyzing the relation between treated patient outcomes and educational strategies for promoting cultural competence of medical professionals, it is reported that assessment methods and results of the education programs mentioned in the studies were not sufficient, there were various educational strategies for cultural competence training, assessment methods used in these studies were making identifying the effects of educational strategies difficult but there were no clear results (Chae et al. 2020).

### Effectiveness of cultural competence educational interventions on health professionals and patient outcomes: A systematic review

Duckhee Chae, Jinhee Kim, Suhee Kim, Jina Lee, Seojin Park,

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#### Abstract

##### Purpose

This systematic review aimed to identify, appraise, and synthesize the best available evidence for the effectiveness of cultural competence educational interventions on health professional and patient outcomes.

##### Methods


We conducted a systematic review of randomized and non-randomized controlled trials. We searched seven electronic databases including MEDLINE, EMBASE, Cochrane Library, and four Korean databases in June 2018. Studies that provided cultural competence educational interventions for health professionals and measured the impact on health professional outcomes, patient outcomes, or both were included. A narrative synthesis of study findings was performed.

## Introduction

- Limited studies have generally proven the effectiveness of transcultural nursing education provided to nursing students. Although the education content, training methods and training periods were not standardized, researchers generally evaluated the education program using the same or similar measurement tools.
- This review showed that transcultural nursing education programs should be standardized in terms of content, duration and basic teaching methods for nursing students from all cultures.
- More comprehensive, valid and reliable measurement tools should be developed to evaluate those programs. In addition, nursing students' cultural competencies should be explored by observational and/or experimental studies to evaluate nursing education regarding cultural care.
- We consider that aspects such as communication, language, religion, social values and cultural norms should be further explored in the nursing curriculum to facilitate caring for patients and families of diverse origins.

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Addressing the effects of transcultural nursing education on nursing students' cultural competence: A systematic review

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ABSTRACT

**Aim:** This study aimed to synthesize the findings of studies evaluating educational programs providing curricular transcultural nursing education.

**Backgrounds:** Nursing care education about cultural diversity and experience with taking care of patients from different cultures and special populations are significant factors that could likely influence cultural competence. The effect of transcultural nursing education given to nursing students has been investigated by different researchers and different methods. Addressing the effects of transcultural nursing education on nursing students' cultural awareness, knowledge and attitudes can contribute to future transcultural nursing education activities and the creation of training content.

**Design:** This study was a methodological systematic review study.

**Methods:** Methodological quality was assessed following the PRISMA guidelines. PubMed, Science Direct, APA

## Aim

- This study was conducted to develop a measurement tool to measure the progress of nursing students', respect for diversities, cultural competence, culturally sensitive communication and transcultural nursing skills.



## *Ethical Considerations*

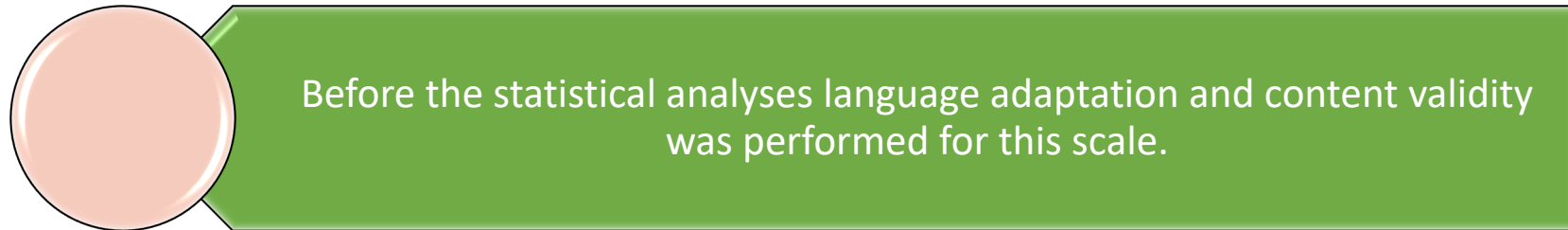
- Before starting the study, ethical approval was received from the faculty of health sciences ethical board of a university and permissions were received from the institutions where the study was conducted.
- Data collection was executed after the ethical approval and legal permission were received and informed consents of the participants were received online.



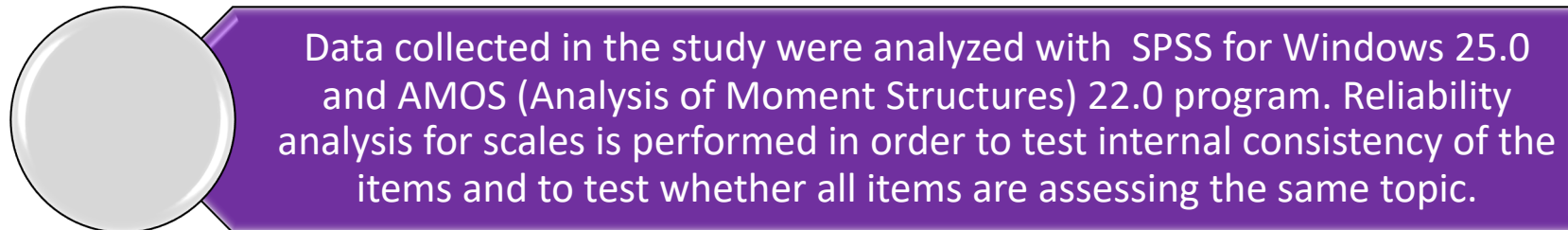
## *Methods*

- This methodological, scale development, validation and reliability study was conducted from April 2020 to April 2021 in a state university and a foundation university among postgraduate (n=60) (for pilot study) and third/fourth grade bachelor's degree nursing students (n=459).

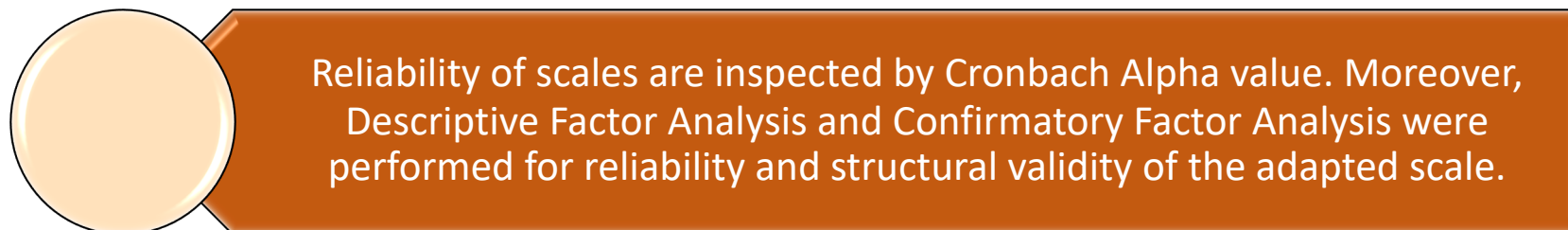
## Methods



Before the statistical analyses language adaptation and content validity was performed for this scale.



Data collected in the study were analyzed with SPSS for Windows 25.0 and AMOS (Analysis of Moment Structures) 22.0 program. Reliability analysis for scales is performed in order to test internal consistency of the items and to test whether all items are assessing the same topic.



Reliability of scales are inspected by Cronbach Alpha value. Moreover, Descriptive Factor Analysis and Confirmatory Factor Analysis were performed for reliability and structural validity of the adapted scale.

# Methods

Two data collection forms were used in the study.



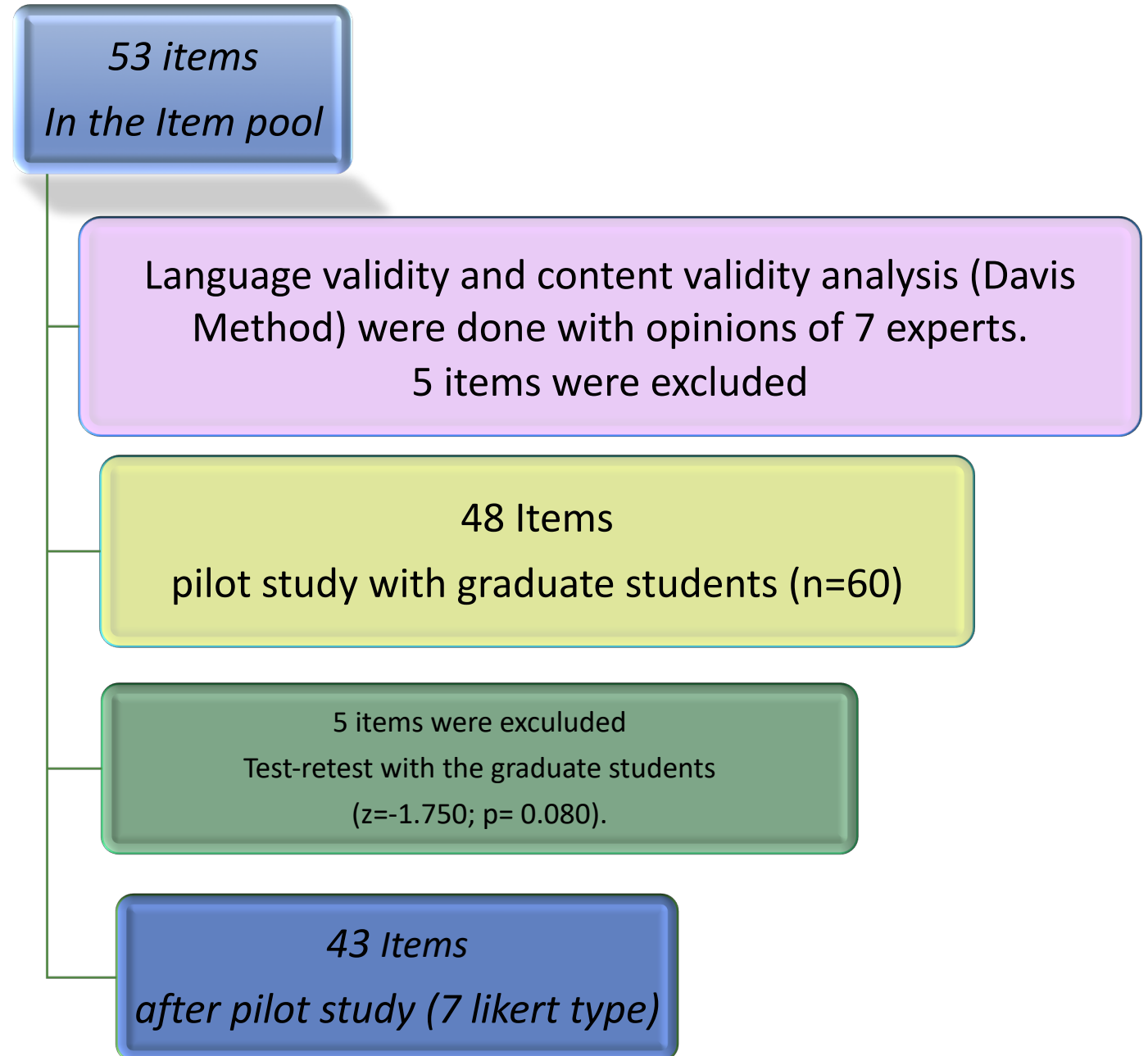
**Table 1.** Development methods and approach of (BENEFITS) Cultural Competence and Cultural Sensitivity Assessment Tool”

	<b>Scale development approach and inspected feature</b>	<b>Method</b>
1.	Systematic review of the literature and preparing the item pool	Nursing scholars from 6 different nations prepared the item pool in English. (innovative method)
2.	Language validity of the items in the pool	The draft question form was developed with translation/re-translation and expert panel method (Çapık et al.2018).
3.	Content Validity (Collecting expert opinions)	Davis Method, Content Validity Index
4.	Getting ethical board approval and institutional permissions for data collection during the scale development process	Application to the ethical board and University Administrations
5.	Pilot study (n=60 graduate degree nursing students) Data collection Time invariance (Reliability) Final scale development	Dependent groups t-test in comparison of Test/Retest scores ICC analysis
6.	Application of scale among bachelor’s degree nursing students (n=459)	Online data collection from participants.
7.	Descriptive statistics	Number (n), Percentage (%), Mean ± Standard Deviation, Median (IQR), Minimum and Maximum, Normality, Skewness and Kurtosis Test
8.	Internal consistency testing (Reliability)	Calculation of Cronbach’s alpha coefficient
9.	Item testing (Reliability)	Item analysis -Item Total Correlation
10.	Structural Validity	Definitive Factor Analysis - Defining KMO Coefficient (Barlett Significance Test) Confirmatory Factor Analysis (Evaluation of Subdimensions)

# Results

- In order to develop the draft scale 15 nursing scholars from Turkey, Spain, Czech Republic, Slovenia, Hungary and Belgium who have studies on transcultural nursing education made systematic review on studies regarding the effectiveness of transcultural nursing education provided to nursing students and established the pillars of **“item pool”** for assessment tool.

Kaiser-Meyer-Olkin Test	0.883
Barlett’s Test	$X^2=9683,680$
	df=325
	$p<0.0001$



# Results

- **BENEFITS Cultural Competence and Cultural Sensitivity Assessment Tool**, which was composed of 43 items, was developed to be multidimensional.
- During the scale development analysis, factor analysis 17 Items were excluded from the scale and the last version were gathered under **5 subdimensions.**

**Table 2.** Results of descriptive and factor analysis of the BENEFITS Cultural Competence and Cultural Sensitivity Assessment Tool and subdimensions

	Items	Theoretical Min-Max	Mean $\pm$ Sd	Cronbach Alpha	Explained Variance	Eigenvalue
Perceived meaning of cultural care (F1)	8	8-56	46,16 $\pm$ 6,26	0,891	18,664	8,471
Challenges and Barriers providing culturally competent care (F2)	5	5-35	19,79 $\pm$ 8,06	0,942	16,482	5,049
Respect for cultural diversity (F3)	6	6-42	37,91 $\pm$ 4,14	0,897	15,833	1,771
Culturally sensitive communication (F4)	4	4-28	11,99 $\pm$ 5,49	0,862	10,368	1,552
Achieving cultural competence (F5)	3	3-21	17,00 $\pm$ 2,77	0,789	8,514	1,328
<b>BENEFITS Cultural Competence and Cultural Sensitivity Assessment Tool</b>	26	26-182	132,86 $\pm$ 14,56	0,828	<b>TOTAL VARIANCE: 69,862</b>	

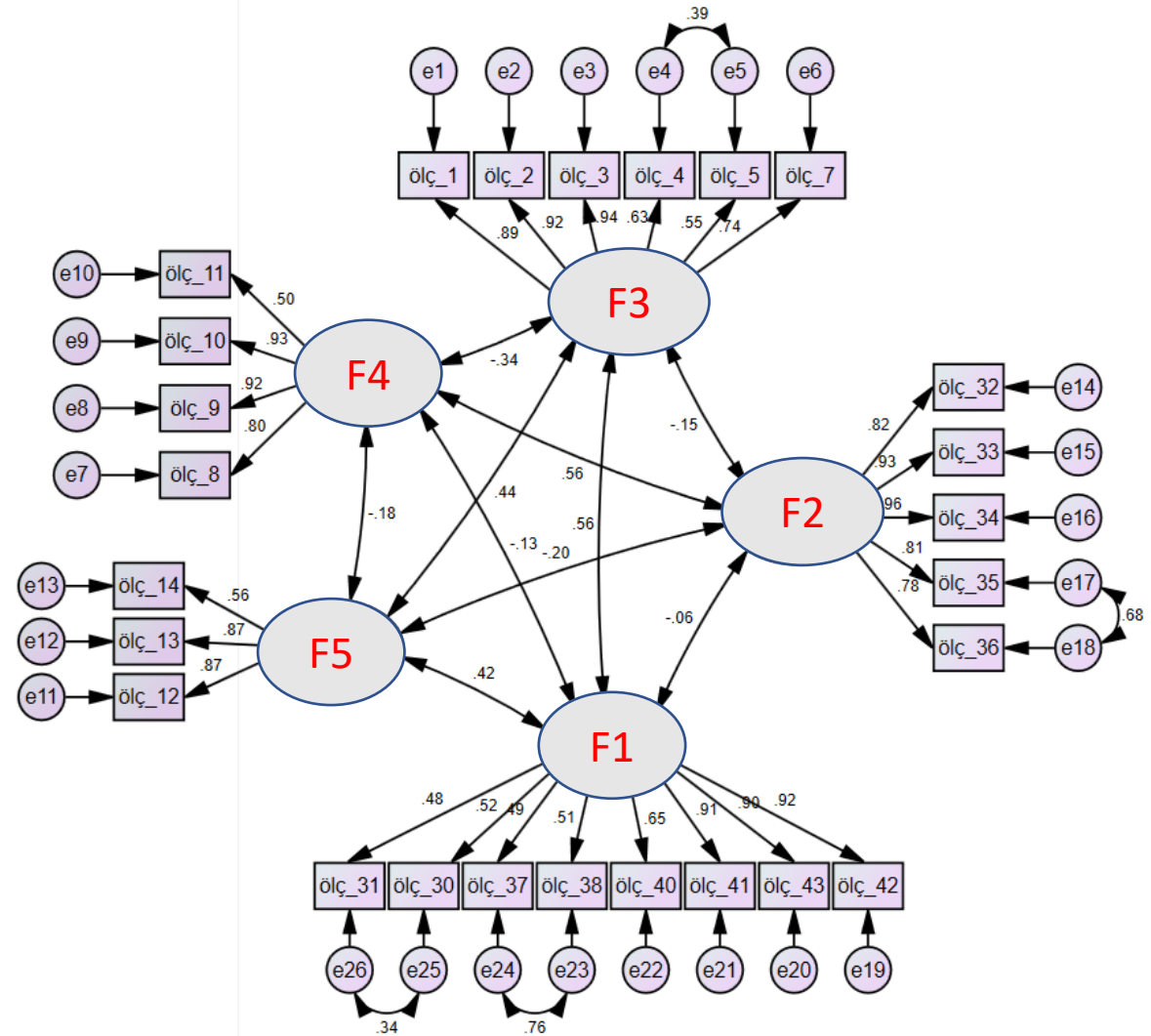
# Results

- The results of Varimax rotation showed that five factored structure was suitable for the items and items were forced into five factor structure during the analysis.
- These factors explained the 69.826% of the variance.
- For multifactorial patterns explained variance of 40-60 % is accepted as sufficient.
- In this context, contribution of a described factor to the total variance is observed to be enough.



# Results

- In confirmatory factor analysis of **BENEFITS Cultural Competence and Cultural Sensitivity Assessment Tool**, structural equation modeling results identified that the scale would be composed of 26 items with  $p < 0.0001$  significance level.
- After modification, analysis showed that Chi-Square Goodness of Fit Consistency ( $\chi^2 (285) = 3,572$ , CFI = 0.923, RMSEA= 0.075, NFI = 0.897, NNFI= 0.913, GFI = 0.848



# Conclusions

- The data obtained from this study reveal that “Better and Effective Nursing Education For Improving Transcultural nursing Skills (BENEFITS) Cultural Competence and Cultural Sensitivity Assessment Tool is a valid and reliable measurement tool to determine of cultural competence and culturally sensitivity of the nursing students.

# THANK YOU

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