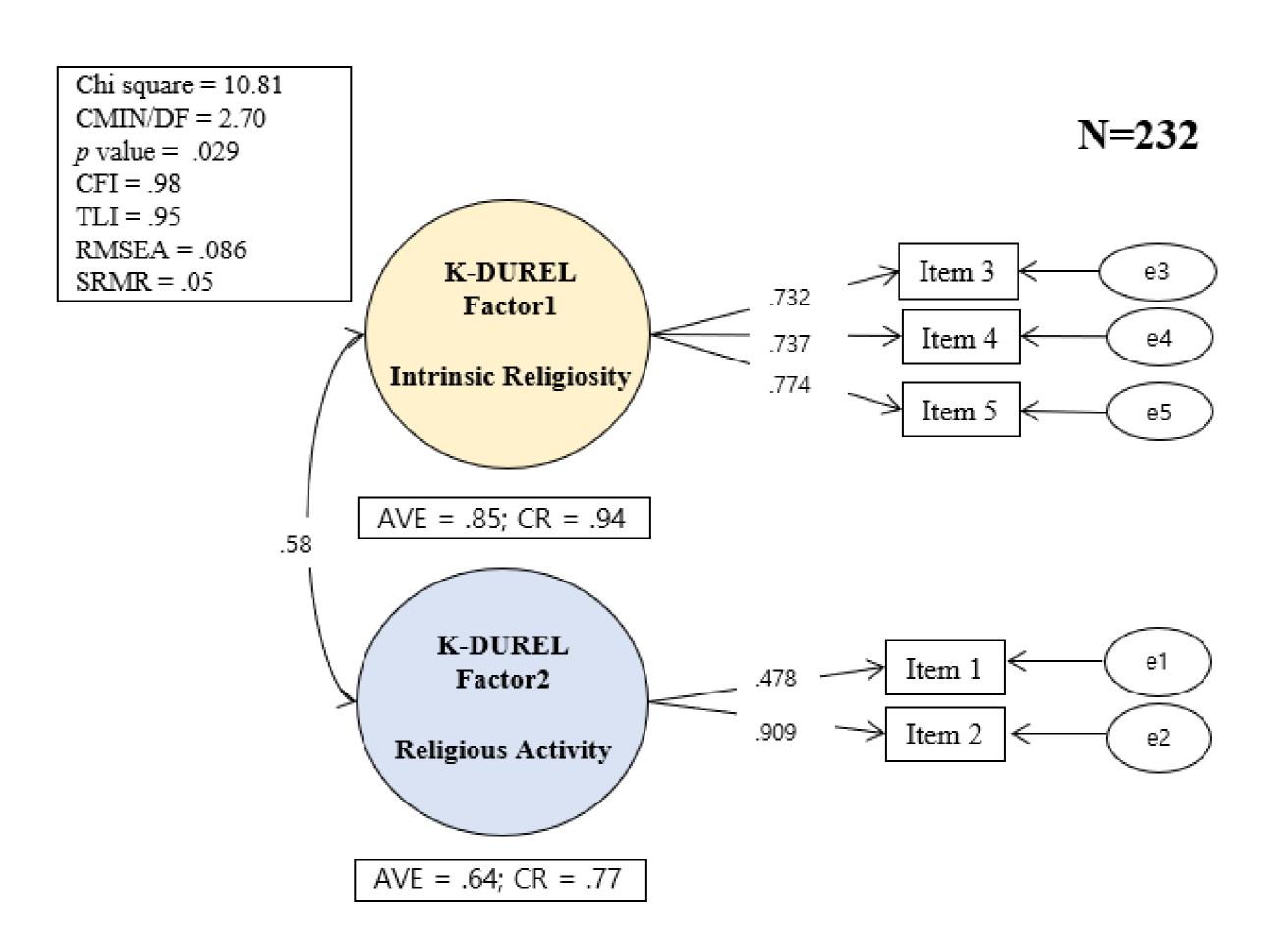


Validity and Reliability of the Korean Versions of the Duke University Religion Index (K-DUREL) and the Daily Spiritual Experience Scale (K-DSES)

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Background

- **Religion and spirituality have an influence on health**, and it is emphasized within the context of the holistic paradigm and health care.
- Healthcare professionals should provide spiritual intervention as an essential part of caring for human health.

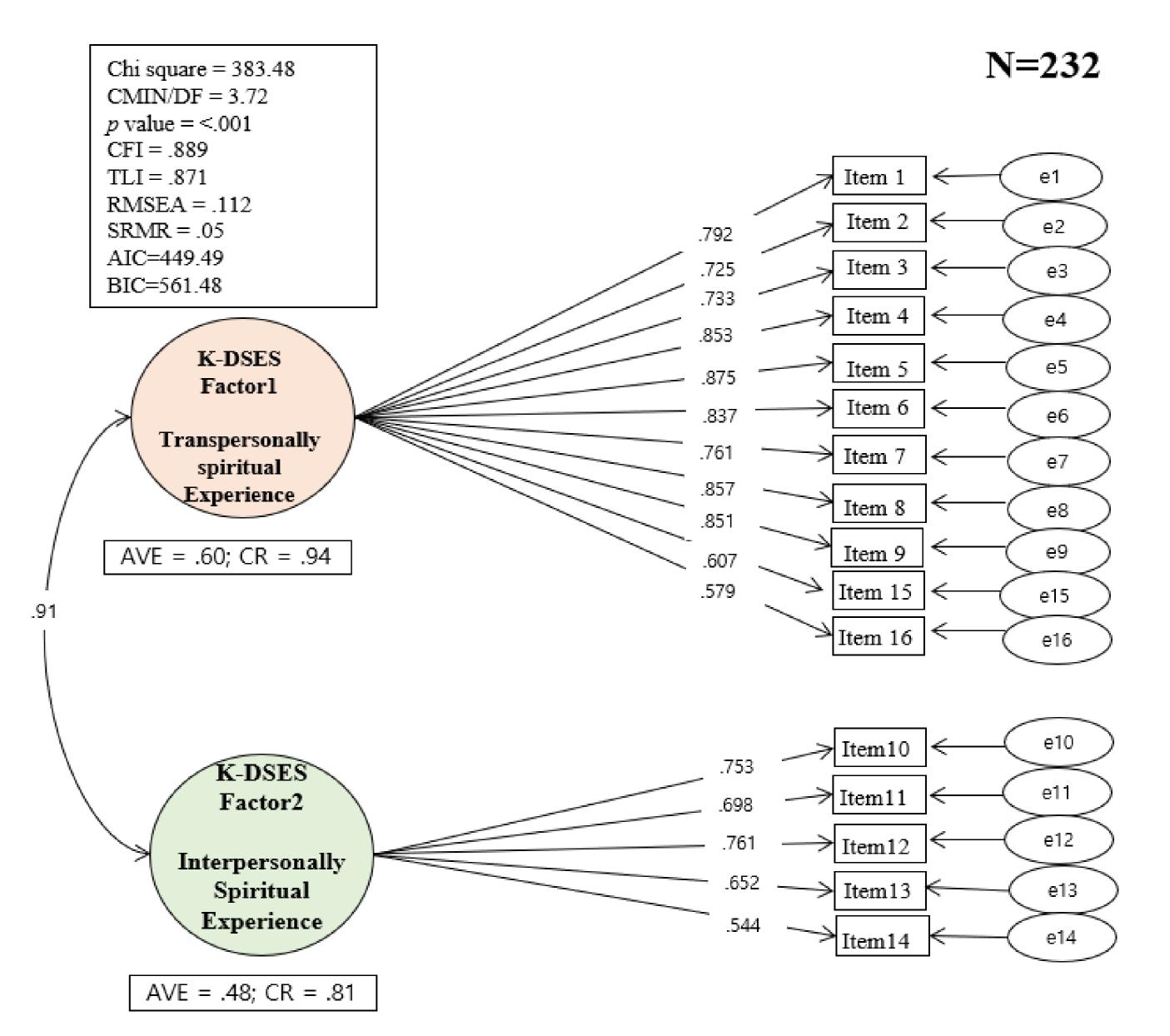


- However, the ability to measure the effectiveness of religious and spiritual interventions is hampered due to the abstract nature of the concept.
- One way to do this is by measuring the impact of religious activities and daily spiritual experiences on mental health to reveal and develop a deeper understanding of the mechanisms promoting mental health.

Purpose

The purpose of this study was to translate **Duke University Religion Index (DUREL) and the Daily Spiritual Experience Scale (DSES)** into Korean and test the validity and reliability of the instruments.

<Figure A> Path diagram of the K-DUREL's two-factor model



Method

- Korean version of DUREL and DSES were translated and back-translated by 6 bilingual experts and group discussions.
- Both exploratory and confirmatory factor analyses were conducted with **two data sets of secondary analysis study** to examine the factor structure and construct validity.
 - Data 1 is used EFA (N=385)
 - Data 2 is used CFA (N=232)
- Correlations with other variables were used to test validity and reliability.
- Data analyses were performed using SPSS 26.0 and AMOS 22.0

Result

• For **K-DUREL**, the final evaluation yielded **two factors**

<Figure B> Path diagram of the K-DSES's two-factor model

Variable	Spirituality r(p)	Depression r(p)	Life satisfaction r(p)
K-DUREL	.66 (<.001)	14 (.032)	.24 (<.001)
Intrinsic religiosity	.61 (<.001)	19 (.004)	.24 (<.001)
Religious activity	.51 (<.001)	04 (.538)	.18 (.007)
K-DSES	.69 (<.001)	24 (<.001)	.31 (<.001)
Transpersonal spiritual experience	.69 (<.001)	23 (<.001)	.27 (<.001)
Interpersonally spiritual experience	.58 (<.001)	24 (<.001)	.37 (<.001)

<Table 1>. Correlations of the Subscales of K-DUREL, K-DSES with Other Variables

Conclusion

- with 5 items: intrinsic religiosity (3 items)and institutional religious activity (2 items) (Figure A).
 K-DSES had two factors with 16 items: transpersonal spiritual experience (11 items), and interpersonal & environmental spiritual experience (5 items) (Figure B).
 K-DUREL and K-DSES were significantly positively correlated with spirituality, and life satisfaction, and had a negative correlation with depression (Table 1).
 Cronbach's alpha of K-DUREL and K-DSES were .67 and .96, respectively.
- Applying K-DUREL and K-DSES in theory-based research may contribute to knowledge about the religious activity and spiritual experiences in the health and well-being of a Korean.
- Both instruments showed good reliability and validity for the translated Korean versions.
- Two instruments have the potential to measure changes in religion and spirituality after spiritual or holistic nursing interventions.

