

Cross-cultural Adaptation and Validation of Lung Cancer Screening Health Belief Scales

Fang Lei, BSN, MSN, MPH, RN

Eunice Lee, Associate Professor, PhD, RN, FAAN

University of California at Los Angeles, School of Nursing, Los Angeles, CA

Background

Lung cancer is the leading cause of cancer deaths among Chinese Americans (CAs). It is the second and fourth most common cancer among CA males and females, respectively. This study aims to cross-culturally adapt and validate the Lung Cancer Screening (LCS) Health Belief Scales (HBS) for its application for CAs.

Methods

Two phases, including instrument adaptation and validation, will be conducted. In Phase I, instrument translation and modification will be conducted to adapt the LCS HBS. The backward translation method will be used to translate the original LCS HBS to Chinese. The Chinese LCS HBS will be reviewed and further modified by five bilingual experts and five high-risk CA participants (aged 55 to 74 years old, who were born in mainland China but presently live in the U.S., are current smokers or quit smoking in the past 15 years and smoked at least 30 package-year) by cognitive individual interviews. In Phase II, the psychometric properties of the adapted Chinese LCS HBS will be tested among 120 high-risk CAs. A convenience sampling method will be used to recruit participants. An online or mailed paper-based survey will be conducted, depending on the participant's preference. The collected data will be analyzed by SPSS. Construct validity using exploratory factor analysis, predictive validity using the known group comparison approach, content validity using expert review scores, and internal consistency reliability using Cronbach's alpha will be evaluated to establish the instrument's psychometric properties.

Results

This study is a doctoral dissertation-related study. It is still ongoing, and the data have not been collected yet.

Conclusions

This study will provide a culturally appropriate instrument to evaluate CAs' health beliefs about LCS and contribute to the design of tailored LCS programs to decrease cancer-related disparities in CAs.

Email me if you want to discuss more about this topic: alicelf@ucla.edu.

UCLA

**School of
Nursing**