

Development and psychometric assessment of the Basic Resuscitation Skills Self-Efficacy Scale

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Background: Nurses are usually the first responders to an in-hospital cardiac arrest. As bystanders, nurses are expected to master some basic resuscitation skills. Self-efficacy levels are a key component in the acquisition of basic resuscitation skills. **Aim:** To develop, test and validate a self-efficacy scale that accurately measures nursing students' confidence levels in their capabilities when responding to a cardiac arrest. **Methods:** This study enrolled a conveniently recruited sample of 768 nursing students from two different universities in Europe. The Basic Resuscitation Skills Self-Efficacy Scale (BRS-SES) was developed and its psychometrics established. Content validity, criterion validity, discriminant validity, and internal consistency were assessed. Performing item-analysis, principal component analysis and known group analysis evaluated construct validity. **Results:** Principal component analysis revealed the three-subscale structure of the final 18-item BRS-SES. A Cronbach's alpha of 0.96 for the overall measure demonstrated the internal consistency of the BRS-SES. Data also evidenced discriminant ability of the BRS-SES and known-group analysis showed its high sensitivity and specificity. **Conclusion:** The BRS-SES showed good psychometric properties for measuring self-efficacy in basic resuscitation skills that nursing students, as future first responders to an in-hospital cardiac arrest, will be expected to master. © The European Society of Cardiology 2014.

BLS

confidence

defibrillation

nurses

resuscitation skills

Self-efficacy

adult

alertness

Article

automated external defibrillator

Basic Resuscitation Skills Self Efficacy Scale

content validity

criterion related validity

defibrillation

discriminant validity

Europe

female

heart arrest

human

internal consistency

male

nursing competence

nursing student

principal component analysis

priority journal

psychometry

recognition

resuscitation

self concept

self-concept assessment

varimax rotation

clinical competence

nursing

psychology

questionnaire

resuscitation

self concept

sensitivity and specificity

standards

young adult

Adult

Clinical Competence

Europe

Female

Heart Arrest

Humans

Male

Principal Component Analysis

Psychometrics

Resuscitation

Self Efficacy

Sensitivity and Specificity

Students, Nursing

Surveys and Questionnaires

Young Adult