



European Association of Methodology



PSYCHOMETRIC ANALYSIS OF THE ROSENBERG SELF-ESTEEM SCALE IN PATIENTS DIAGNOSED WITH BREAST CANCER

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BACKGROUND

- > The changes associated with breast cancer can affect patients' self-esteem, altering their psychological adjustment. Understanding and evaluating their self-esteem, defined as the attitude towards oneself and the subjective judgments of personal value and self-acceptance, can be key for these patients.
- Rosenberg Self-Esteem Scale (SES; Rosenberg,1965) is a widely used tool to assess self-esteem in the general population; it consists of 10 items (five of which are reverse-coded). Higher scores indicate higher levels of self-esteem.
- > Aims: To validate the scale with women diagnosed with breast cancer, in order to be able to use it and help guide psychological intervention on this aspect during the disease process.

METHOD

- > Participants: 170 breast cancer patients, residing in Spain.
- Procedure: Participants were recruited following a convenience sampling strategy. They were all volunteers and did not receive any incentives.
- ➤ Data analysis: Validity evidence based on internal structure was analyzed through CFA (ULS estimation method), testing the single-factor structure found in previous studies. The reliability of the scores was assessed using Cronbach's alpha and McDonald's omega coefficients. Validity evidence based on the relationship with other variables was examined through associations with emotional distress, well-being, and optimism variables.
- > Instruments: Spanish version of:
 - Self-Esteem Scale (Rosenberg, 1965).
 - 21-item version of the Depression, Anxiety, and Stress Scales (DASS-21; Lovibond & Lovibond (1995)
 - Satisfaction with Life Scale (SWLS; Diener et al., 1985)
 - Flourishing Scale (FS; Diener et al., 2010)
 - Positive and Negative Affect Schedule (PANAS; Watson et al., 1994)
 - Life Orientation Test-Revised (LOT-R; Scheier et al., 1994)

RESULTS

- The CFA results showed that the internal structure of the scale is unidimensional, χ^2 (35) = 71.98, p < .001, with acceptable fit indices, such as: CFI = .95; NNFI = .94; RMSEA = 0.079 [0.053, 0.105]. All factor loadings were statistically significant.
- \succ The reliability coefficients of the SES scores were satisfactory: Cronbach's $\alpha = .81$; McDonald's $\omega = .83$.
- Figure 1 shows the standardized factor loading of the tested model.
- Correlations between all variables show in Table 1.

Figure 1. Standardized factor loading of the unidimensional model of SES.

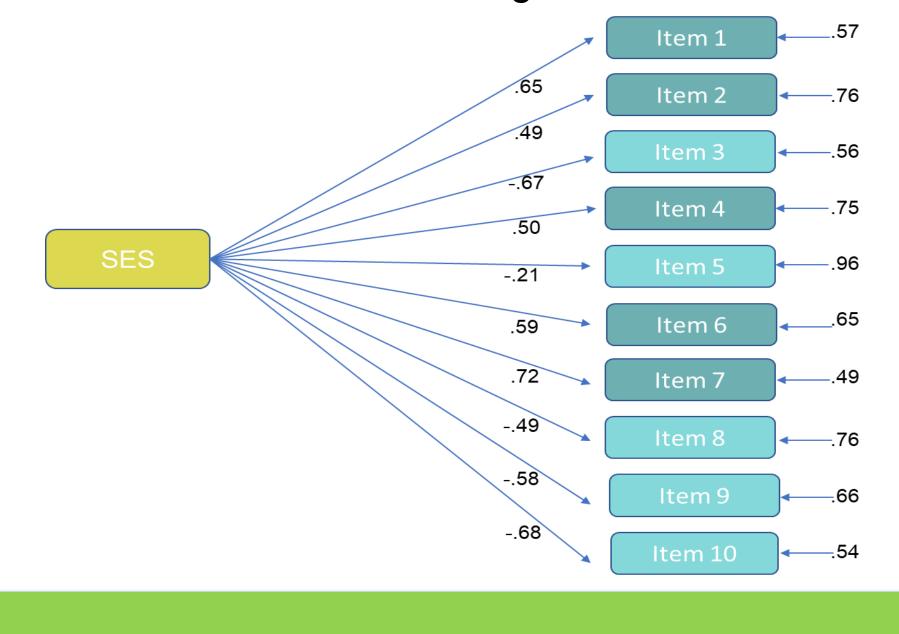


Table 1. Pearson correlations (r_{xv}) between all variables (N = 170)

Instruments	r_{xv}
Depression DASS-21	50 **
Anxiety DASS-21	39**
Stress DASS-21	 35**
Distress DASS-21 Total	 45**
Life satisfaction SWLS	.50**
Flourishing FS	.65**
Positive affect PANAS	.44**
Negative affect PANAS	34**
Optimism LOT-R	.46**
Pessimism LOT-R	37**

CONCLUSIONS

The CFA yielded acceptable fit indices for the unidimensional factorial model, however, model fit could potentially improve with a larger sample size.
 The score on the SES could be a useful measure of the impact on self-esteem in breast cancer patients, allowing for decisions regarding specific interventions in this psychological area.

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