

Name of Measure: CES-D Scale (Radloff, 1977)

Purpose of Measure: To measure frequency of depression symptoms.

Author(s) of Abstract:

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Reference: Gupta, R., & Yick, A. (in press). Validation of the CES-D Scale for older Chinese immigrants. *Journal of Mental Health and Aging*, 7(2).

Description of measure: The Center for Epidemiological Studies-Depression Scale (CES-D) is a 20-item scale for epidemiological research that was developed by The National Institute of Mental Health. Respondents are asked to choose from four possible responses in a Likert format, where "0" is "rarely or none of the time (less than 1 day)", and "4" is "almost or all of the time (5-7 days)". Scores range from 0 to 60 with higher scores reflect greater levels of depressive symptoms while lower scores reflect lower levels of symptoms. The CES-D has 4 separate factors: Depressive affect, somatic symptoms, positive affect, and interpersonal relations. The CES-D has very good internal consistency with alphas of .85 for the general population and .90 for a psychiatric population.

Language Availability: translated and back translated into Chinese and English

Translation Comments: Not described

Description of Asian Population: A total of 76 older Chinese immigrant adult respondents (57.9% men and 42.1% women). Ninety-six percent of the sample immigrated to the U.S. Respondents ranged from 50 years to 86 years of age, with a median age of 60 years. About 82.9 percent of the sample were married, and 93.4 percent had adult children. The mean household income was \$55,368 annually. The overall mean score on the CES-D for this sample 11.7 (SD = 4.6). Fourteen percent of the sample (N=11) received scores above 16.

Norms: Confirmatory factor analysis was conducted. The results indicated that the 20 item, 4 factor structure did not fit these data (Comparative Fit Index = .34, $\chi^2/df = 2$). Based on a re-examination of inter-item correlations and factor loadings, a re-specified 20 item, 3 factor structure was identified (Comparative Fit Index = .70, $\chi^2/df = 1.8$). The three factors are:

Re-specified CES-D for Chinese Adults: Reliability coefficients for sub-scales, item means and standard deviations.

Subscale and items	Mean	S.D.	Alpha
Somatic/Depressed Affect			.74
1. Bothered by things	.26	.57	
2. Poor appetite	.13	.38	
3. Shake off blues	.21	.64	
5. Trouble mind	.30	.54	
6. Depressed	.24	.54	
7. Everything effort	.50	.76	

Subscale and items	Mean	S.D.	Alpha
12. Restless sleep	.54	.87	
11. Crying spells	.01	.12	
20. Can't get going	.29	.54	
Positive Affect			.64
4. Good just as others	1.92	1.13	
8. Hopeful future	2.03	.88	
13. Happy	2.04	.86	
17. Enjoyed life	1.87	.98	
Interpersonal/Depressed Affect			.77
9. Life failure	.15	.42	
10. Fearful	.08	.32	
14. Talked less	.26	.55	
15. Felt lonely	.32	.68	
16. Unfriendly	.26	.57	
18. Felt sad	.15	.39	
19. Dislike me	.15	.43	

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Reliability: Cronbach alphas for sub-scales reported in table.

Validity: See Radloff (1977).

Original reference to instrument: Radloff, L. S. (1977). The CES-D Scale: A self-report depression scale for research in the general population. *Applied Psychological Measurement*, 1(3), 385-401.

Corcoran, K. & Fischer, J. (1987). *Measures for clinical practice: A sourcebook*. New York, N.Y.: Free Press.

How to obtain a copy of instrument: See Corcoran & Fischer (1987).