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Psychometric Properties of the Persian Version of the Short Beck Depression Inventory with Iranian Psychiatric Outpatients

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with the total BDI score and clinician ratings. ey assess the following symptoms and attitudes: depressed mood, pes-

T : Means and standard deviations of BDI- items.

BDI- items	Mean (SD)
() Depressed mood/sadness	. (.)
() Pessimism	. (.)
() Sense of failure	. (.)
() Lack of satisfaction/dissatisfaction	. (.)
() Guilty feelings	. (.)
() Self-hate/self-dislike	. (.)
() Self-punitive wishes/self-harm	. (.)
() Social withdrawal	. (.)
() Indecisiveness	. (.)
() Distorted body image/self-image	. (.)
() Work inhibition/work di culty	. (.)
() Fatigability	. (.)
() Loss of appetite	. (.)
Total score	. (.)

ese results suggest good internal consistency. Correlations between BDI- scores and BSIS, BHS, DOS, K , and GHQ-appear in Table . All of the correlations were positive and statistically signi cant at the . level, indicating the measure's good construct validity.

A . Fac. A A . A . A e criteria for a factor analysis were evaluated using Kaiser-Meyer-Olkin Measure of Sampling Adequacy (KMO) and Bartlett's Test of Sphericity. e KMO was . , indicating the adequacy of the sample, and Bartlett's Test of Sphericity (. , df 7 , .001) showed that the factor analysis was justi ed. Using a Principal Component Analysis and Varimax Rotation with Kaiser Normalization three components with eigenvalues greater than one were extracted using SPSS (see Table). e scree plot also suggested factors. Factor (items -) was labeled "A ective" and included items such as "I am so sad or unhappy that I can't stand it." Factor (items -) was labeled "Somatic/ Vegetative" and included items such as "I get tired more easily than I used to." Factor (items -) was labeled "Cognitive/Loss of Functioning" and included items such as "I am worried that I am looking old or unattractive."

4. Discussion

e present study aimed to explore the reliability, validity, and factor structure of the Persian version of the BDIwith an Iranian clinical sample. e BDI- demonstrated good internal consistency and construct validity in this sample of Iranian psychiatric outpatients. e most commonly endorsed depressive symptoms were items (depressed mood/sadness), (indecisiveness), (sense of failure), (lack of satisfaction/dissatisfaction), and (fatigability), (work inhibition/work di culty), respectively. Using the norms by Dadsetan and Mansour [], % scored in the normal range, . % were in the mild depression range, . % were in the mild to average depression range, . % were in the average depression range, and . % fell in the severe depression range. ese scores indicate that the participants

in this study reported higher level of depression symptom severity compared to previous studies [,] that recruited nonclinical college student samples.

All correlations of the BDI- with the other measures that are conceptually related to depression were positive and statistically signicant. In particular, the measures of suicide ideation, death obsession, general psychological distress, and mental health problems indicated moderate to strong correlations (ranging from . to .) with the BDI- . ese correlations provide strong evidence for the BDI- 's construct validity with an Iranian clinical sample.

e present study identi ed three components of the BDI-: A ective, Somatic/Vegetative, and Cognitive/Loss of Functioning. us, the construct of depression as measured by the BDI- in our sample comprised three dimensions, which is consistent with proposals for the multidimensionality of depression cross-culturally []. Our ndings di er somewhat from Rajabi's [] study, which obtained two factors in Iranian university students. In particular, eight

T : BDI- interitem correlations.

Item											
	.462 *										
	.508 *	.3 1									
	.521 *	.519 *	.542 *								
	.453 *	.581 *	421 ? : ? 317 261	.65 ? ? 2	3.37057 ? ??	??	. 41 ? ??	? ? ?	7 ? 1 ?	? ? .021	13 ? 0 ?
	.556 *	.573 *	.497 .465 *	.690 *	Tf 0.22619.6						

relatively small (52), which limits the interpretations of the results and introduces the possibility of overestimating the magnitude of associations. In addition, the study ndings may not generalize to other populations, such as psychiatric inpatients or outpatients from other medical clinics. Future research studies need to address these limitations by recruiting larger samples from diverse medical settings, such as primary care, specialty clinics, and inpatient units. Moreover, it will be bene cial to extend this research to other commonly used depression instruments and assess their psychometric properties in other countries in order to establish their crosscultural validity.

Competing Interests

e authors declare that they have no competing interests.

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