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Beck Depression Inventory-II (BDI-II)**

Availability:	Please visit this website for more information about the instrument: Beck Inventory and Scales website.
Classification:	<p>Supplemental – Highly Recommended: Epilepsy</p> <p>Supplemental: Amyotrophic Lateral Sclerosis (ALS), Epilepsy, Headache, Multiple Sclerosis (MS), Parkinson’s Disease (PD), Sports-Related Concussion (SRC) Subacute (after 72 hours to 3 months) and Persistent/Chronic (3 months and greater post concussion), and Traumatic Brain Injury (TBI)</p> <p>Exploratory: Unruptured Cerebral Aneurysms and Subarachnoid Hemorrhage (SAH)</p>
Short Description of Instrument:	<p>Construct measured: This scale measures the existence and severity of symptoms of depression.</p> <p>Generic vs. disease specific: Generic.</p> <p>Means of administration: Self-administered.</p> <p>Intended respondent: Self-Report.</p> <p># of items: 21 items.</p> <p># of subscales and names of sub-scales: 2 subscales: Affective and Somatic subscales.</p> <p># of items per sub-scale: 8 for affective; 13 for somatic.</p>
Comments/Special instructions:	The Beck Depression Inventory-II (BDI-II) developed in 1996, was derived from the BDI. The 21-item self-administered survey is scored on a scale of 0–3 in a list of four statements arranged in increasing severity about a particular symptom of depression.
Scoring:	<p>Scoring: Each of the 21 items corresponding to a symptom of depression is summed to give a single score for the Beck Depression Inventory-II (BDI-II). There is a four-point scale for each item ranging from 0 to 3. On two items (16 and 18) there are seven options to indicate either an increase or decrease of appetite and sleep. Cut-off score guidelines for the BDI-II are given with the recommendation that thresholds be adjusted based on the characteristics of the sample, and the purpose for use of the BDI-II. Total score of 0–13 is considered minimal range, 14–19 is mild, 20–28 is moderate, and 29–63 is severe.</p>

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Rationale / Justification:	<p>Strengths: Easy to use, widely known, results easy to interpret. Item content improved over BDI-I to increase its correspondence with DSM-IV.</p> <p>Weaknesses: Includes several items assessing physical symptoms which may be elevated in ALS patients due to motor neuron degeneration and not depression. However non-ALS clinical studies have provided evidence of the presence of at least two factors, a cognitive-affective factor and a somatic depressive symptom factor, which is more stable than in the BDI. However, this factor structure requires confirmation in ALS.</p> <p>Psychometric Properties:</p> <p><i>Feasibility:</i> Easy to complete, relatively short compared to interview-based assessments.</p> <p><i>Reliability:</i> 1 week test-retest stability is high (.93). Internal consistency (coefficient alpha) is .92–.94 depending on the sample.</p> <p><i>Validity:</i> Construct validity was high when compared to the BDI (.93).</p> <p>Sensitivity to Change: Designed to assess mood within the most recent 2 week period, so comparison across assessments should reflect change over time.</p> <p>Relationships to other variables: BDI-II scores were not correlated with functional disability (ALSFRS-R scores) (Rabkin et al., 2005) in late-stage ALS patients, but did correlate with suffering, anger, perceived caregiver burden, weariness, and negative affect. In non-ALS studies, BDI-II scores correlate with measures of hopelessness, suicidal ideation and anxiety.</p> <p>Purpose of Tool: Screening for severity of depression.</p> <p>Used in: Observational studies.</p> <p>Administration time: 5 minutes, scoring 1 minute.</p> <p>Sport Concussion Specific:</p> <p>Advantages: Widely used and accepted instrument. Quantifies depressive symptoms, but is not a diagnostic instrument. Some symptoms overlap with "concussive symptoms". Any study looking at factors contributing to persistent symptoms should use this measure.</p> <p>Age Range: age 13 and older</p>
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References:	<p>Key References:</p> <p>Beck AT, Steer RA, Brown GK. Manual for The Beck Depression Inventory Second Edition (BDI-II). San Antonio: Psychological Corporation; 1996.</p> <p>Beck AT, Steer RA, Ball R, Ranieri W. Comparison of Beck Depression Inventories -IA and -II in psychiatric outpatients. <i>J Pers Assess.</i> 1996;67(3):588–597.</p> <p>Steer RA, Ball R, Ranieri WF, Beck AT. Dimensions of the Beck Depression Inventory-II in clinically depressed outpatients. <i>J Clin Psychol.</i> 1999;55(1):117–128.</p> <p>Storch EA, Roberti JW, Roth DA. Factor structure, concurrent validity, and internal consistency of the Beck Depression Inventory-Second Edition in a sample of college students. <i>Depress Anxiety.</i> 2004;19(3):187–189.</p> <p>Maizels M, Smitherman TA, Penzien DB. A review of screening tools for psychiatric comorbidity in headache patients. <i>Headache.</i> 2006;46 Suppl 3:S98–S109.</p> <p>ALS References:</p> <p>Taylor L, Wicks P, Leigh PN, Goldstein LH. Prevalence of depression in amyotrophic lateral sclerosis and other motor disorders. <i>Eur J Neurol.</i> 2010;17(8):1047–1053.</p> <p>Rabkin JG, Albert SM, Del Bene ML, O'Sullivan I, Tider T, Rowland LP, Mitsumoto H. Prevalence of depressive disorders and change over time in late-stage ALS. <i>Neurology.</i> 2005;65(1):62–67.</p> <p>Trail M, Nelson ND, Van JN, Appel SH, Lai EC. A study comparing patients with amyotrophic lateral sclerosis and their caregivers on measures of quality of life, depression, and their attitudes toward treatment options. <i>J Neurol Sci.</i> 2003;209(1-2):79–85.</p>
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