Mood & Anxiety Measures

BAI, BDI, STAIC, MASC, RCMAS, CDI, RADS, HAM-D, GDS

Beck Anxiety Inventory



Administration

- 21-Item, Self-Report Questionnaire
- 5-10 minutes to complete
- 4-point Likert-type scale
 Not all (0), Mildly (1), Moderately (2), Severly(3)
- Paper & Pencil or Computer Administered versions are available
- Can be administered as an interview if necessary

Population & Use

- Age range typically 17 to 80

 Has been used in peer-reviewed studies with adolescents age 12 and older
- 13 different language translations
- Intended use as screening measure that discriminates anxiety from depression
- Recommended for clinical and research populations

Development

- Developed by Aaron Beck in 1988 (published 1990) to address need for an instrument that would reliably discriminate anxiety from depression
- Developed with a focus on subjective, somatic, or panic related symptoms of anxiety
- Designed to address both physiological and cognitive components of anxiety

Norms

- Original norms apply to both males and females
- Three normative samples of psychiatric outpatients drawn from consecutive evaluations (n = 1086)
- 42% males, mean age =36.4 years, SD = 12.4
- 58% females, mean age =35.7, SD =12.1
- Research suggest the need for separate norms by gender and age, women on average score higher than men, and there is now a BAI for youth aged 7-14

Reliability

- High internal consistency and item total correlations, ranging from .30 to .71 (medium = .60)
- Cronbach's alpha ranged from .90 -.94 in samples of psychiatric inpatients (n = 250), outpatients (n = 40 and 160), undergraduates (n = 326), and adults in community (n = 255)
- · Has satisfactory to high test-retest reliability
- 1 week test-retest interval r = .67 to .93
- 7 week test-retest interval r = .62

Validity

- Good convergent validity with other measures of anxiety in adults, adolescent psychiatric patients, older psychiatric patients, and community samples
- Correlations with
- Hamilton Anxiety Rating Scale (HARS): r = .51
- State-Trait Anxiety Inventory: r = .47-.58
- Symptom Checklist 90 Revised: r = .81

Interpretation

- The BAI assesses anxiety and discriminates between anxiety and depression
- Anxiety symptoms include nervousness, inability to relax, dizziness or light headedness, and heart pounding or racing
- Scores range from 0 to 63
- Score of 0 21 indicates very low anxiety

 This is usually a good thing, however could indicate unrealistic assessment or denial, also too little anxiety could indicate being detached from self, others and environment

Interpretation

- Score of 22 35 indicates moderate anxiety
 - Need to look for patterns to explain symptoms being experienced, conflicts may need to be resolved
- Score 36 63 indicates severe anxiety
 - Look for patterns of time when symptoms occur, anxiety at this level can have impact mentally and physically

Strengths

- Quick screening measure used to identify anxiety symptoms
- Measure can be self-reported or orally administered
- Discriminates anxiety symptoms from depression
- The measure is reliable and valid across age, gender, and in numerous cultures

Limitations

- A screening measure and a tool to assist in diagnosis, but not a diagnostic measure in itself
- Measures somatic symptoms, but not symptoms that commonly appear in trauma-exposed individuals
- Given research that females score higher than males, separate norms are needed by gender, but as of yet have not been developed
- Most studies use predominantly white samples, more research is needed involving greater ethnic and socioeconomic diversity

Beck Depression Inventory II

BDI-II

Administration

- 21-item, multiple choice self-report questionnaire
- 5-10 minutes to complete
- Each item has a series of 4 statements that describe symptom severity along an ordinal continuum from absent (a score of 0) to severe (a score of 3)
- Paper & pencil or computer administered versions
- Measure can be administered as an interview if necessary (15 minutes)

Population & Use

- Age range 13 to 80
- 11 different language translations
- Intended use as a screening measure
- The most widely used instrument for detecting depression in adolescents and adults
- Recommended for clinical, non-clinical and research settings

Development

- Developed by Aaron Beck in 1961 to measure current presence of depression in adolescents and adults
- Revised in 1978 (BDI-IA) to eliminate duplicate descriptors and lengthen time frame for assessment to the "last week, including today"
- Modified in 1996 (BDI-II) to reflect DSM-IV criteria and lengthen time frame for assessment to the "past two weeks, including today"
- Developed with focus on behavioral, cognitive, and emotional symptoms of depression

Norms

- Original norms included psychiatric inpatient and outpatients
- Normative sample for BDI-II was 500 outpatients in rural and suburban locations
- 63% women, 37% men
- Age range 13 86, mean age = 37.20 years
- Racial/ethnic makeup was 91% white, 4% African American, 1% Asian American and Hispanic

Reliability

- Internal consistency coefficients measured on meta analysis was high range .73 to .95
 - Sample consisted of schizophrenic, substance abusers, college students and depressed patients
- · Cronbach's alpha ranged from
 - .76 to .95 in psychiatric population
 - .82 to .92 in student population
 - -.73 to .90 in non-psychiatric sample

Reliability

- Good test-retest on original BDI scores 1-6 hours later (r = .83), 4-6 hours (r = .81)
- Test-retest on BDI-II one week apart correlation coefficient *r* = .93

Validity

- Good convergent validity between BDI and BDI-II (r = .93)
- Content validity evaluates well with symptoms associated with depression (r = .77)
- Correlation with
 - Hamilton Rating Scales for Depression (Ham-D) r = .61-.86
 - Symptom Checklist-90 (SCL-90) depression subscale r = .76
 - Minnesota Multiphasic Personality Inventory Depression
 - Scale (MMPI-D) r = .60
 - Beck Hopelessness Scale (BHS) r = .60

Interpretation

- Intended to assess the existence and severity of symptoms of depression
- Scores range from 0 to 63
- Scores of 0-13 is considered minimal range, which indicates the absence of or very low level of depression
- Scores of 14-19 mild range, indicate a low level or potential for depression

Interpretation

- Scores of 20-28 in moderate range
 - Indicates symptoms of depression that need resolving, but client is still able to function at general level
- Scores of 29-63 are in the severe range
 Depression levels are elevated and disrupt individual functioning mentally and physically

Strengths

- Quick screening measure to identify depression symptoms
- Sensitivity in measuring change in depressive symptoms and severity
- Used in studies to assess efficacy of pharmacological interventions
- Reliable for assessing depression in adolescents and adults 13 years of age and older, and can be used with clinical and non-clinical populations

Limitations

- Developed as a symptom inventory, not a diagnostic instrument
- Inappropriate use of BDI as a diagnostic instrument can lead to misleading information and overestimate the prevalence of depressive illness

State-Trait Anxiety Inventory for Children

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Administration

- The STAIC is comprised of two separate self-report scales that measure two distinct anxiety concepts: state anxiety (A-State) and trait anxiety (A-Trait)
- STAIC Form C-1 is a 20 –Item A-State Self-Report Questionnaire
- STAIC Form C-2 is a 20 Item A-Trait Self-Report Questionnaire
- Time to complete is 8-12 minutes for either scale, and 20 minutes for both

Administration

- Paper & Pencil version used with children
- Standard procedure for administration is for an examiner to read the directions aloud while the child reads them silently

Population & Use

- Constructed for age range 9-12
 - May also be used with younger children with average or above reading ability and older children with below average ability
- Designed for the study of anxiety in 4th, 5th & 6th grade children
- A-State scale measures transitory anxiety from perceived feelings of apprehension, tension, and worry that vary in intensity and fluctuate over time

Population & Use

- A-Trait scale measures relatively stable individual differences in anxiety proneness between children in their tendency to experience anxiety
- Recommended for Educational, Psychological and health research

Development

- Developed in 1970 by Charles Spielberger in collaboration with Drew Edwards, Robert Lushene, Joseph Montuori, and Denna Platzek
- Developed initially as a research tool for the study of anxiety in elementary school children
- Developed with a focus on state anxiety and trait anxiety

Norms

- Norms are fourth, fifth, and sixth grade elementary children (reported by gender and by grade level)
- Sample size of 1554 from in six different schools
- 53% males, 47% females
- 59% white, 40% black, 1% other
- The mean A-Trait scores for girls = 38, SD = 6.68
- The mean A-Trait scores for boys = 36.7, SD = 6.32
- The mean A-State scores for girls = 30.7, SD = 6.01
- The mean A-State scores for boys = 31.0, SD = 5.71

Reliabiliy

- Internal consistency coefficient is reasonably good
- · Cronbach's alpha of
 - A-State scale was .82 for males, and .87 for females
 - A-Trait scale was .78 for males and .81 for females
- Test-retest reliability of A-State scale are low at .31 males, and .47 females
 - This is expected for a measure designed to be sensitive to influence of situational factors
- Test-retest reliability of A-Trait scale are moderate at .65 males, and .71 females
 - Reflects instability of the personality structure of children of this age

Validity

- Concurrent validity demonstrated in A-Trait scale correlation
 - The Children's Manifest Anxiety Scale (CMAS): r = .75
 - General Anxiety Scale for Children (GASC): r = .63
- Construct validity of the A-State scale demonstrated in a sample of 900 fourth, fifth, and sixth grade students with Norm and Test conditions
 - Mean scores for A-State scale were considerably higher in Test conditions (males, 41.76: females, 43.79)
 - Mean scores for A-State scale were lower in Norm conditions (males, 31.10; females, 31.03)

Interpretation

- Children respond to the STAIC by selecting one of the three alternative choices for each item which best describes their anxiety
- The STAIC A-Trait and A-State scale are each 20 item self-report measures
- Each STAIC item is a 3-point rating scale having values of 1,2, or 3 assigned
- Scores range from 20 to 60

Interpretation

- The stem for all 20 statements of STAIC A-State items is "I feel"
- The A-State scales 20 statements ask how children feel at a particular moment in time
 - Terms in half the items indicate presence of anxiety (e.g., very nervous = 3, nervous = 2, not nervous = 1)
 - Terms in half the items indicate absence of anxiety (e.g., very calm = 1, calm = 2, not calm = 3)

Interpretation

- The STAIC A-Trait 20 statements indicate how the child generally feels
- A-Trait indicates the frequency of occurrence of the behavior described (e.g., item 6 "I worry to much", hardly ever = 1, sometimes = 2, often = 3)

Strengths

- Quick and easy to administer and score
- Measure of both temporary and dispositional anxiety
- State and Trait anxiety define different aspects of anxiety
- A-State demonstrates the sensitivity of the influence of environmental factors on males and females
- A-Trait shows moderate genetic effects, and substantial non-shared environment effects

Limitations

- The ability of children to articulate their true psychological condition
- Children must meet a minimum reading and comprehension level to be able to successfully complete the measure

Multidimensional Anxiety Scale for Children



Administration

- 39-item self-report rating scale
- 10-15 minutes to complete
- 4-point Likert scale ranging from 1 = never to 4 = often
- Can be administered with computer program or paper & pencil Quikscore forms

Population & Use

- Age range 8 to 19
- Intended use as a screening measure and as part of diagnostic assessment to assess the major dimensions of anxiety in children and adolescents
- Assesses four domains

 Physical symptoms, social anxiety, harm avoidance, and separation/panic anxiety
- Assess six subdomains

 Restless symptoms, somatic/autonomic symptoms, perfectionism, anxious coping, humiliation/rejection fears, and performance fears
- Used in schools, outpatient clinics, residential treatment centers, child protective services, juvenile detention centers, and private practice

Development

- John Marsh at Multi-Health Systems Inc. developed the MASC in 1997
- Developed to assess anxiety symptoms across clinically significant symptom domains in children and adolescents
- Developed for tracking of psychosocial and pharmacological treatments of youth

Norms

- Separate norms are provided for males and females
- The norm sample consisted of 2,698 children and adolescents ages 8-19
- Racially diverse sample

 53.3% Caucasians, 39.2% African American, 7% Hispanic/Latin American, 1.4% Asian American, 2.4% Native American, and 3% other
- Norm sample was based on a 4th grade reading level

Reliability

- Internal reliability coefficient for main factors and subfactors were satisfactory, ranging from .60 .85
- Internal reliability of the total score was .90, with equally high reliability for boys (.85) and girls (.87)
- Correlation coefficients of 3 week test-retest reliabilities were *r* = .79, 3 month test-retest reliabilities were *r* = .93

Reliability

- The 3 week and 3 month test-retest reliabilities for subscales were > .70
- Test-retest was unaffected by age – Children r = .77, adolescents r = .79
- Test-retest for males r = .81, females r = .75

Validity

- Has good convergent validity with other measures of anxiety such as the Revised Children's Manifest Anxiety Scale
- Correlates minimally with measures of depression and not at all with measures of disruptive behavior
- Discriminates between patients with anxiety and healthy control group
 - Sensitivity 90%, specificity 84%, kappa coefficient .74, and overall correct classification 87%
- Mean scores for baseline, posttreatment, and follow-up conditions were 74.46, 53.58, and 44.93, demonstrating sensitivity

Interpretation

- Can be used to screen children and adolescents for the presence of anxiety disorders
- MASC factors and subfactors measure separate dimensions of anxiety
 - Makes the measure well suited for discriminating patterns of anxiety in subgroups of children with anxiety disorders
- High scores on certain subfactors would suggest problem areas to be targeted ad well as types of treatment to be undertaken

Strengths

- Screening measure used to identify anxiety disorders in children and adolescents
- High sensitivity and specificity rates of the measure discriminate children with anxiety from healthy control subjects
- The MASC is particularly useful for informing treatment selection
- High test-retest reliability suggest the MASC has potential use in monitoring treatment responses over time

Limitations

- The MASC is a screening measure , and can assist in diagnosis, but not as a diagnostic measure in itself
- All data supporting the utility of the MASC currently come from the scale developer, therefore data from independent investigations are needed
- No validity data regarding the ability of non-native English speakers to respond to the test items is provided

Revised Children's Manifest Anxiety Scale



Administration

- 37-item self-report instrument
- May be administered either individually or to a group
- The child responds to each statement by circling a "Yes" or "No" answer
- Paper & pencil is the standard version used
- For children who have difficulty reading or circling the appropriate response, the items may be read and the indicated response circled by an examiner

Population & Use

- Designed for children and adolescents ages 6 to 19 years old
- Based on a trait theory of manifest anxiety
- Assesses a Total Anxiety Scale
- Assesses three anxiety subscales and a Lie scale

 Physiological Anxiety, Worry/Oversensitivity, and Social Concerns/Concentration
- This instrument is used is school settings for grades 1-12

Development

- Original CMAS was criticized for having words that were to difficult for children and for not assessing certain areas of anxiety
- The RCMAS was developed in 1978 to address the concerns of the CMAS
- Developed to assess the level of anxiety in children across five scales
- Developed for use in psychoeducational assessments and personality assessments

Norms

- Recommend using the separate norms provided according to age, sex, and ethnicity
- Standardization sample of 4,972 children and adolescents
- 44% white males, 44% white females, 5.8% African American males, and 6% African American females
- The normative sample covered a variety of geographic regions throughout the United States

Reliability

- The primary interest of reliability of the RCMAS was the accuracy of scores at time of assessment and stability of scores across time
- Internal consistency coefficient alpha for Total Anxiety scores were consistent across ethnicity, sex, and age
- For entire age range, reliability estimates were .84 for white males, .85 for black males, .85 for white females, and .78 for black females

Reliability

- For the anxiety subscales, reliability is considered adequate range of .50 to .80
 - Physiological Anxiety subscale alpha reliability range .60s and .70s
 - Worry/Oversensitivity subscale alpha reliability range .70s and .80s
 - Social Concerns/Concentration subscale alpha reliability range .50s and .70s
 - For the Lie subscale, reliability is surprisingly good, consistently in .70s and .80s

Reliability

- Little research has been done on test-retest reliability, only available for the Total Anxiety score and the Lie subscale
- 9 month length of time between test
 - Total Anxiety reliability coefficient was .68, which indicates stability of general trait anxiety
 - Lie subscale correlated at .53 across 9 months, which is still encouraging
- 3 week test-retest interval
 - Total Anxiety r = .97 males, and .98 females
 - Lie subscale 3 week test-retest interval r = .90 males, and .98 females

Validity

- Preliminary factor analysis study lends strong support to the construct validity of the RCMAS and to contention that anxiety is multidimensional in nature
 - Factor I Physiological Anxiety produced a KR20 reliability of .65
 - Factor II Worry/Oversensitivity produced a KR20 reliability of .64
 - Factor III Social Concern/Concentration KR20 reliability of .60
- Another larger factor analysis found the three anxiety factors were essentially the same as the preliminary analysis

Validity

- Showed substantial convergent validity with the STAIC Trait scale (*r* = .89, *p* < .001)
- Divergent validity is indicated by the lack of correlation between RCMAS and STAIC State scale (r = .24, p <.05)
- Results provide considerable support for the construct validity of the RCMAS as a measure of chronic manifest anxiety, independent of state anxiety

Interpretation

- Consist of five scores
- The Total Anxiety score is based on 28 anxiety items

 These 28 items are also divided into three anxiety subscales: Physiological Anxiety, Worry/Oversensitivity, and Social Concern/Concentration
- The remaining 9 items are part of the Lie subscale
 The raw score on each subscale is the number of items circled "Yes", score may vary from 0 to 28

Interpretation

- High score on Physiological Anxiety suggest that the child has a physiological response during anxiety such as sleep difficulty, nausea, and fatigue
- High score on Worry/Oversensitivity subscale suggest a child who internalizes much of the anxiety such as worry, fear and mental stress
- High score on Social Concern/Concentration subscale suggest a concern about the self with other people, such as feeling not as good, effective, or capable as others

Interpretation

- The Lie subscale raw score vary from 0 to 9
- The Lie subscale indicates the child is revealing a picture of an 'ideal" behavior that is generally not characteristic of anyone, such as (I never get angry)
- High score on the Lie subscale may be quite indicative of an inaccurate self-report

Strengths

- The RCMAS is a good measure for identifying the presence of anxiety
- Measure can be self-reported or given by an examiner
- The measure is reliable and valid across age, gender, and ethnicity

Limitations

- Should never be used as the sole determinant of anxiety
- Another limitation resides in the ability of some children to understand its purpose, and therefore scores could be subject to distortion
- Lack of data and established norms on different cultural groups

CHILDREN'S DEPRESSION INVENTORY



Administration

- 27-item self-report measure
- Time to complete 15-20 minutes
- Each item has 3 statements that use a 3-point scale to describe symptom severity ranging from 0 (absence of the symptom) to 2(definite symptom)
- A QuikScore Form, paper & pencil, and computer version are available
- Can be administered individually or in small groups

Population & Use

- Age range 7-17 years old
- Intended use as a screening measure of depressive symptoms in children and adolescents
- Assesses a range of depressive symptoms, including disturbed mood, anhedonia, negative self-evaluation, ineffectiveness, and interpersonal problems
- CDI is readable at the first-grade level
- Utilized in clinical, non-clinical, school, and research settings

Development

- Developed Maria Kovacs in 1981
- The CDI was initially developed because of concerns of the use of the BDI with younger populations
- Developed in response to a need for an economical, easy-to-administer, and readily analyzable measure of depression in children

Norms

- Normative sample included 1266 public school students in Florida in grades 2–8
 - 592 boys ages 7-15 and 674 girls ages 7-16
- 77% white, 23% African American, Native American, or Hispanic
- The population was mostly middle class, with 20% from single homes
- Norms were also collected on a group of 134 clinically diagnosed children
- Separate norms developed based on ages (7-12 and 13-17), as developmental trends result in higher scores for the older group

Reliability

- Good internal consistency coefficients

 Cronbach's alpha estimates from the normative sample range from .59 (Interpersonal Problems) to .68 (Negative Self-Esteem) for the five factors
- Test-retest reliability for 1-2 week intervals range from .38 (psychiatrically healthy youths) to .87 (psychiatric inpatients)
- Test-retest 1-week to 1-month reliabilities > .60
- 1-year stability coefficients ranges from .41 to .69

Validity

- Has shown convergent validity with other measures of childhood depression, including Reynolds Adolescent Depression Scale (RADS), Hamilton Rating Scale for Depression (HAM-D), and the Child Assessment Scale (CAS)
- Correlates with measures of related constructs, such as anxiety with the Revised Children's Manifest Anxiety Scales
- Demonstrates discriminate validity between children with depressive disorders and healthy control subjects
- Additional studies from randomized clinical trials are necessary to further support the measures sensitivity to change

Interpretation

- Designed to be used as a screening instrument or as a measure of depression symptom severity in children and adolescents
- Scores range from 0 to 54
- Each item is scored from 0 to 2: Score of 0 = absence of symptoms, 1 = mild symptoms, and 2 = definite symptoms
- The child rates his or her own behavior / feeling by selecting one statement

Interpretation

- Subscales are Negative Mood, Interpersonal Problems, Ineffectiveness, Anhedonia, and Negative Self-Esteem
- A total score and five subscale scores are derived
- A high score is a indication of high levels of depressive symptoms

Strengths

- Economical, easy-to-administer, interpret and score
- Can be administered individually or to small groups
- Measures five factors of depressive symptoms
- Able to use it with younger children as well as adolescents

Limitations

- A screening measure, not a diagnostic measure in itself
- Inappropriate use of the CDI as a diagnostic instrument can lead to misleading information and overestimation of the prevalence of depressive illness

Reynolds Adolescent Depression Scale, 2nd Edition



Administration

- 30-item self-report questionnaire
- 5-10 minutes to complete
- 4-point Likert-type scale: Almost never (1), Hardly ever (2), Sometimes (3), Most of the time (4)
- Paper & pencil, machine and mail-in administration versions are available
- Measure can be administered individually and in small or large groups

Population & Use

- Age range 11– 20 years old
- Intended as screening measure, and as part of a larger battery of diagnostic instruments
- Written for 3rd Grade reading level
- Measure of depressive symptoms in adolescents
- The RADS-2 measures four dimensions of depression; Dysphoric Mood, Anhedonia/Negative Affect, Negative Self-Evaluation, and Somatic Complaints
- Recommended for clinical, school, institutional and research settings

Development

- The RADS was developed by William M. Reynolds Ph.D. in 1981
- Revised to the RADS-2 in 1987
- Developed for the purpose of measuring depressive symptoms in adolescents
- Developed for evaluations of individuals, large scale intervention and prevention programs, and for evaluating treatment outcomes

Norms

- Norms are available for both boy and girls
- Sample size of 2,460 from students grades (7-9) and grades (10-12)
- Equal numbers of males and females
- 75.8% white, 20.6% black, and 3.6 percent other
- Norm sample is from urban/suburban community in the Midwestern USA

Reliability

- Internal consistency coefficient alpha ranged from .909 to .96
- Split-half reliability coefficient for the standardization sample was .91
- Test-retest reliability
 - 6-week test-retest interval r = .80
 - 3-month *r* = .79

— 1-year *r* = .63

Validity

- Demonstrates content validity associated with symptoms of depression, correlation coefficients were in the .50s and .60s
- Good concurrent validity, correlation with the – Hamilton Rating Scale was .83
 - Beck Depression Inventory (BDI) range .68 to .76
 - STAI-T scale ranged between .78 to .80
 - Beck Hopelessness Scale (BHS) range .50 to .54

Interpretation

- The RADS-2 is a brief 30-Item self-report measure that evaluates the current level of an adolescent's depressive symtomatology
- Standard T score and clinical cutoff scores provide the clinician or research with an indication of the individual's depressive symptoms (normal, mild, moderate, or severe)
- Scores range from 30 to 120
- Scores on each item are weighted from 1 to 4 (1=Almost Never, 2 = Hardly Ever, 3=Sometimes, 4=Most of the time)
- A cutoff T-score of 77 and above has been determined to indicate a level of symptoms associated with clinical depression

Strengths

- Is a quick screening measure to identify depressive symptoms
- Provides an efficient and economical method for individual, small or large group screening
- Measure demonstrated good reliability and validity outcomes
- Overall the RADS-2 is a helpful instrument for school aged students who might be at risk for depression or suicide

Limitations

- Not a diagnostic instrument
- Inappropriate use of the RADS-2 as a diagnostic instrument can lead to misleading information and overestimate the prevalence of depression

HAMILTON RATING SCALE FOR DEPRESSION

Administration

- The HAM-D is a 21-item multiple choice questionnaire
- Time to complete is 15-20 minutes

Should be administered by a clinician experienced in working with psychiatric patients

Population & Use

- Age range typically 18 years of age and older, can be used with younger psychiatric patients •
- The HAM-D is the most commonly used observer-rated depressive symptom rating scale
- Designed to measure the severity of symptoms in patients with primary depressive illness, such as low mood, insomnia, agitation, anxiety and weight loss
- The quantification of symptom severity may be used to - 1) estimate symptom severity before treatment
 - 2) gauge the effect of treatment on symptoms

 - 3) detect a return of symptoms (e.g., relapse or recurrence)

Development

- The HAM-D was developed by Max Hamilton in 1960
- Developed to be used by clinicians such as physicians, psychologists, and social workers who have experience with psychiatric patients
- The first rating scale developed to quantify the severity of depressive symtomatology

Norms

- The HAM-D normative samples are on psychiatric inpatient and outpatients
- The norms are generally representative of gender, ethnicity, SES, and geographic regions

Reliability

- The reliability varies with conditions but is generally acceptable
- Internal consistency as measured by Cronbach's alpha was .76 in a study of 141 subjects and .92 in a study of more that 300 patients
- The internal consistency tends to be higher > .80 with structured that with unstructured interviews
- When 10 raters administered this instrument to 989 subjects, 75% in a current episode and 25% with a past episode of major depressive disorder, the intraclass correlation coefficient was .92

Validity

- The HAM-D has correlations with global measures of depressive severity that ranges between .65 and .90
- Correlation with the Montgomery-Asberg Depression Rating Scale (MADRS) and the Inventory of Depressive Symptomatology (IDS) range between .80 and .90
- Validity is not high in all populations

 Depressive symptoms of older patients, who are more likely to have general medical illness may be overrated because of the reliance of the HAM-D on somatic symptoms

Interpretation

- 21-item multiple choice questionnaire
- Only the first 17 items are scored, because the last 4 items either occur infrequently (e.g., depersonalization) or describe aspects of illness rather than the severity (e.g., diurnal variation)
- Scores range from 0 to 50
- Score of 0-7 = Normal, which indicates the absence of depression

Interpretation

- Score of 8-13 = Mild Depression, indicates a low level or potential for depression
- Score of 14-18 = Moderate Depression, indicates symptoms of depression that need resolving
- Score of 19-22 = Severe Depression, depression levels are elevated and disruptive to the individual
- Score of > 23 =Very Severe Depression, indicates critical adverse affects mentally and physically on the individual

Strengths

- The most commonly used clinician-rated measure to identify depression symptoms
- Sensitive in monitoring change in depressive symptoms
- Beneficial in comparing the efficacy of various interventions if the patient requires more than one type of treatment

Limitations

- The validity and reliability is less in some subgroups, such as older people and individuals with general medical illness
- It gives more weight to somatic symptoms than to cognitive symptoms
- It also includes several noncriterion symptom items on anxiety that may reduce its specificity as a measure for depressive symptoms

GERIATRIC DEPRESSION SCALE

Administration

- The GDS Long Form is a 30-item self-report questionnaire, each answered by circling yes or no
- The GDS Short Form is a brief 15-item self-report questionnaire, each answered by circling yes or no
- Time to complete for the Long Form 10-15 minutes, Short Form 5-7 minutes
- Paper & pencil version is available
- Measure can be administered by an interviewer if necessary

Population & Use

- Developed to assess depression in geriatric populations

 Depression affects nearly 5 million of the 31 million Americans aged 65 and older
- Both major and minor depression is reported in 13% of community dwellings, 24% of older medical outpatients, 30% of older acute care patients, and 43% of nursing home dwelling older adults
- The GDS may be used with healthy, medically ill and mild to moderately cognitively impaired older adults. It has been extensively used in community, acute, and long-term care settings

Development

- The original GDS was developed by J.A. Yesavage and T.L. Brink in 1983, and the Short Form was developed in 1986
- The GDS was developed as a Screening Measure of depression in older adults
- The Short Form was developed because it is more easily used by physically ill and mildly to moderately demented patients who have short attention spans and/or feel easily fatigued
- While there are many instruments available to measure depression, the GDS was created specifically for the purpose of being used with older populations

Norms

- The GDS was constructed using a two-stage design
- An initial sample of 47 subjects (both men and women over age 55) of depressed and nondepressed subjects
- The second sample consisted of 40 nondepressed and 60 depressed subjects

Reliability

- Internal consistency values were higher than those obtained when the Zung SDS was administered to the same subjects and about equal to those obtained using the HAM-D
- Cronbach's alpha was high at .94
- Split-half reliability was high at .94
- Test-retest reliability after 1 week indicated a r = .85

Validity

- The GDS shows high concurrent validity with scores on the Zung SDS (*r* = .84) and the HAM-D (*r* = .83)
- Discriminate validity is indicated with both the Long Form and Short Form in differentiating depressed from non-depressed adults, with a high correlation r = .84
- The GDS was found to have a 92% sensitivity and an 89% specificity when evaluated against diagnostic criteria

Interpretation

- The GDS is used to screen for depressive illness in geriatric patients
- On the Long Form scores range from 0 to 30
- Score of 1 9 is considered Normal, indicates the absence of depression
- Score of 10 22 is considered Mildly depressed
- Score of 23 30 is considered Very depressed

Interpretation

- On the GDS Short Form scores range from 0 to 15
- Scores of 0-4 are considered Normal
- Scores of 5-8 indicates mild depression
- Scores of 9-11 indicates moderate depression
- Scores of 12-15 indicates severe depression

Strengths

- A useful screening tool in clinical settings to facilitate assessment of depression in older adults
- Long and short forms are available

Limitations

- The GDS is not a substitute for a diagnostic interview by mental health professionals
- Does not assess for suicidality