

Instrument	Variable Measured	Population	Description	Reliability	Validity	Languages	Copyrighted?	Fee?	Source	References
Heart Transplant Symptom Checklist	Measures extent to which patients are bothered by symptoms related to heart failure and heart transplantation  Comprehensive assessment of symptoms experienced pre- and post heart transplant; measures symptoms related to both heart failure and transplantation	Adult	92 statements to which patients respond on a 0 to 3 scale (0 = not bothered at all; 3 = very bothered).  6 subscales: cardiopulmonary, gastrointestinal, genitourinary, neuromuscular, dermatologic/soft tissue, and psychologic.  Scoring: Hand-scoring	Cronbach alpha for total scale: 0.95  Cronbach alphas for subscales: 0.46 to 0.91  Grady KL, Jalowiec A, Grusk BB, White-Williams C, Robinson JA. 1992. Symptom distress in cardiac transplant candidates. <i>Heart &amp; Lung, 21:434-439.</i>	Content validity supported by 3 sources: comprehensive review of cardiovascular and transplant literature/clinical expertise of research team; endorsement of symptoms by patients; and no new symptoms added over time.  Construct validity based upon contrasted groups approach. Utilized working vs. non-working heart transplant candidates.  Grady KL, Jalowiec A, Grusk BB, White-Williams C, Robinson JA. 1992. Symptom distress in cardiac transplant candidates. <i>Heart &amp; Lung, 21:434-439.</i>	English	Yes	Yes	Dr Anne Jalowiec, RN, PhD Professor Emeritus, Loyola University of Chicago Email: <a href="mailto:ajalowiec@yahoo.com">ajalowiec@yahoo.com</a> Address: 3030 Electra Drive Colorado Springs, CO 80906	Grady KL, Jalowiec A, Grusk BB, et al, 1992. Symptom distress in cardiac transplant candidates. <i>Heart &amp; Lung, 21:434-439.</i>  Grady KL, Jalowiec A, White-Williams C, et al, 1995. Predictors of quality of life in patients with advanced heart failure awaiting transplantation. <i>Journal of Heart and Lung Transplantation, 14(1), 2-10.</i>  Grady KL, Jalowiec A, White-Williams C. 1996. Improvement in quality of life in patients with heart failure who undergo transplantation. <i>Journal of Heart and Lung Transplant, 15:749-757.</i>  Grady KL, Jalowiec A, White-Williams C. 1998. Patient compliance at one year and two years after heart transplantation. <i>Journal of Heart and Lung Transplantation, 17(4), 383-394.</i>  Grady KL, Jalowiec A, White-Williams C. 1998. Quality of life 6 months after heart transplantation compared with indicators of illness severity before transplantation. <i>American Journal of Critical Care, 7(2), 106-116.</i>  Grady KL, Jalowiec A, White-Williams C. 1999. Predictors of quality of life in patients at one year after heart transplantation. <i>Journal of Heart and Lung Transplantation, 18(3), 202-210.</i>  Grady KL, Jalowiec A, White-Williams C. 1999. Preoperative psychosocial predictors of hospital length of stay after heart transplantation. <i>Journal of Cardiovascular Nursing, 14(1), 12-26.</i>

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Zung Self Rating Depression Scale	Depressive states pre and post cardiac and lung transplant recipients	Adults Pediatrics	Self-report scale that measures ratings of perceived depression; Likert scale format; Answers scored on a 1 to 4 scale: minimal to severe.  Administered pre operatively. Post operatively within first 6 months, between 6 and 12 months, then annually thereafter.  Self-report.  20 items.	Widely used.  Demonstrated reliability.	Validated in several patient populations.	English	No	No	Zung, W.W.K. (1965). A self rating depression scale. <i>Archives of General Psychiatry</i> , 112, 63-70.  Web: <a href="http://fpinfo.medicine.uiowa.edu/calculat.htm">http://fpinfo.medicine.uiowa.edu/calculat.htm</a>	Freeman AM, Folks DG, Sokol RS et al, 1988. Cardiac transplantation: Clinical correlates of psychiatric outcome. <i>Psychosomatics</i> , 29 (1), 47-54.  TenVergert EM, Essink-Bot ML, Geertsma A, et al 1998. The effect of lung transplantation on health-related quality of life. <i>Chest</i> , 113(2), 358-364.

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Mini-Mental State Exam (MMSE)	Mental status in cardiac transplant patients and clinical outcomes.	Adults Pediatrics	<p>Purpose: Assessment of cognitive function; Total of 30 questions that assess orientation, registration, attention/calculation, recall and language.</p> <p>Administered pre operatively. Post operatively administration when clinically stable (usually within 2 weeks post op).</p>	Has been demonstrated in adults	Has been demonstrated in adults	English	Yes	Yes	<p>Psychological Assessment Resources, Inc., 16204 N. Florida Avenue, Lutz, FL 33549-8119; Telephone: 800-331-8378; FAX: 800-727-9329; E-mail: <a href="mailto:custserv@parinc.com">custserv@parinc.com</a> Web: <a href="http://www.parinc.com">www.parinc.com</a></p>	<p>Freeman AM, Folks DG, Sokol RS et al, 1988. Cardiac transplantation: Clinical correlates of psychiatric outcome. <i>Psychosomatics</i>, 29 (1), 47-54.</p> <p>Chacko RC, Harper RG, Gotto J, et al, 1996. Psychiatric interview and psychometric predictors of cardiac transplant survival. <i>American Journal of Psychiatry</i>, 153(12), 1607-1612.</p>

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Heart Failure Functional Status Inventory	Functional capabilities and symptoms in patients experiencing heart failure	Adults	Adapted from self-report questionnaire designed by Stewart et al.  25 items self-assessment. Lists specific physical activities to which patient respond "yes, I can do this", "yes I can do this, but only slowly", or "no, I can't do this". If responds with the latter two responses, patient is instructed to indicate whether primarily due to shortness of breath, weakness without shortness of breath, fatigue, chest pain, or other reason. Activities assigned a metabolic equivalent of the task (MET).	Pearson product-moment correlation coefficients  $r = -0.31, p < 0.001$	Content validity established by judging panel of experts.	English	Yes	No	School of Nursing, University of California, San Francisco, San Francisco, California 94143-0604. Email: kathleen.dracup@nursing.ucsf.edu	Dracup K, Walden JA, Stevenson LW et al, 1992. Quality of life in patients with advanced heart failure. <i>Journal of Heart and Lung Transplantation</i> , 11(2): 273-279.

<b>Instrument</b>	<b>Variable Measured</b>	<b>Population</b>	<b>Description</b>	<b>Reliability</b>	<b>Validity</b>	<b>Languages</b>	<b>Copy-righted?</b>	<b>Fee?</b>	<b>Source</b>	<b>References</b>
Multiple Affect Adjective Checklist  Revised Version: Multiple Affect Adjective Checklist-Revised (MAACL-R)	Feeling states of anxiety, depression, and hostility	Adults	Utilizes 132 alphabetically arranged adjectives. Scored using (+) when subject checks them and (-) when not checked.	Demonstrated in number of different clinical populations.	Demonstrated in number of different clinical populations.	English	Yes – revised version	Yes – revised version	Educational and Industrial Testing Services, P.O. Box 7234 San Diego, CA 92167 800-416-1666 619-222-1666 Email: customerservice@edits.net Web: www.edits.net/POMS.html	Dracup K, Walden JA, Stevenson LW et al, 1992. Quality of life in patients with advanced heart failure. <i>Journal of Heart and Lung Transplantation</i> , 11(2): 273-279.

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Psychosocial Adjustment to Illness Scale (PAIS)	<p>Changes in individual experiences in variety of psychologic and social dimensions as result of physical illness.</p> <p>Degree to which levels of anxiety, depression, irritability, guilt, worry, self-esteem, and concerns about physical appearance are associated with occurrence of disease.</p> <p>Adjustment following heart transplant surgery.</p>	Adults Pediatric	46 item self-report covering 7 dimensions of psychosocial adjustment: health care orientation; vocational environment; domestic relationships; sexual relations; extended family relations; social & leisure activities; & psychologic distress. Four response statements scored 0-3; total score range 0-138. Higher scores reflect greater impairment. Seven subscales scored separately. Sum of subscales provides overall psychosocial-adaptation score.	<p>Established in variety of clinical populations.</p> <p>Internal consistency reliability (coefficient alpha) 0.78 in cardiac surgery patients.</p>	Established in variety of clinical populations	English	Yes	Yes	<p>Clinical Psychometric Research, Inc., P.O. Box 619, Riderwood, MD 21139; Telephone: 800-245-0277 or 410-321-6165; FAX: 410-321-6341; E-mail: mdero@aol.com; Web: derogatis-tests.com</p>	<p>Freeman AM, Folks DG, Sokol RS et al, 1988. Cardiac transplantation: Clinical correlates of psychiatric outcome. <i>Psychosomatics</i>, 29 (1), 47-54.</p> <p>Dracup K, Walden JA, Stevenson LW et al, 1992. Quality of life in patients with advanced heart failure. <i>Journal of Heart and Lung Transplantation</i>, 11(2): 273-279.</p> <p>Bohachick P, Anton BB, Powhatan J et al, 1992. Psychosocial outcome six months after heart transplant surgery: A preliminary report. <i>Research in Nursing and Health</i>, 15: 165-173.</p> <p>Chacko RC, Harper RG, Gotto J, et al, 1996. Psychiatric interview and psychometric predictors of cardiac transplant survival. <i>American Journal of Psychiatry</i>, 153(12), 1607-1612.</p> <p>Caine N, Sharples LD, Dennis C, et al. 1996. Measurement of health-related quality of life before and after heart-lung transplantation. <i>Journal of Heart and Lung Transplantation</i>, 15(10):1047-1058.</p>

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Rosenberg Self Esteem Scale	Feelings of self worth following heart transplantation.  Psychologic adjustment after heart transplantation.	Adult	10 item self- report self esteem scale utilized to assess patients' feelings of self worth.	Well researched.  Alpha = 0.86	Well researched.  Good convergent validity with other measures of self-esteem.	English  Many languages	Permission granted to use for educational and research purposes	No	The Morris Rosenberg Foundation c/o Dept. Of Sociology University of Maryland 2112 Art/Soc Building College Park, MD 20742-1315 <a href="http://www.bsos.umd.edu/socy/grad/socpsy_rosenberg.html">http://www.bsos.umd.edu/socy/grad/socpsy_rosenberg.html</a>	Jones BM, Taylor FJ, Wright OM et al, 1990. Quality of life after heart transplantation in patients assigned to double- or triple-drug therapy. <i>Journal of Heart Transplantation</i> , 9(4):392-396.  Dew MA, Simmons RG, Roth LH, et al, 1994. Psychosocial predictors of vulnerability to distress in the year following heart transplantation. <i>Psychological Medicine</i> , 24: 929-945.  Limbos MM, Chan CK, Kesten S. 1997. Quality of life in female lung transplant candidates and recipients. <i>Chest</i> , 112(5): 1165-1174.  Limbos MM, Joyce DP, Chan CKN et al. 2000. Psychological functioning and quality of life in lung transplant candidates and recipients. <i>Chest</i> , 118(2):408-416.

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Mastery Scale	Degree to which individuals felt they could control things that happen to them	Adult	7 items.  Higher vulnerability defined as scoring in the lower half of the distributions (lower self esteem; lower mastery).	alpha = 0.80  Used in variety of well and ill populations.	Used in variety of well and ill populations.	English	No	No	<a href="http://www.bsos.umd.edu/socy/faculty/word/Pearlin_Mastery.doc">http://www.bsos.umd.edu/socy/faculty/word/Pearlin_Mastery.doc</a>	Dew MA, Simmons RG, Roth LH, et al, 1994. Psychosocial predictors of vulnerability to distress in the year following heart transplantation. <i>Psychological Medicine</i> , 24:929-945.  Dew et al, 1996. Medical compliance and its predictors in the first year after heart transplantation. <i>Journal of Heart and Lung Transplantation</i> , 15(6), 631-645.



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Norbeck Social Support Questionnaire	Social support for those awaiting cardiac transplant.	Adult	<p>Measures three functional aspects (affect, affirmation, &amp; aid), and 5 structural aspects (network size, source of support, duration of relationships, frequency of contact, &amp; network loss).</p> <p>Patients asked to identify members of social network &amp; categorize each relationship as spouse, family, friend, health professional, clergy, previous transplant recipient, or other.</p> <p>Each network member is then rated on 5 point Likert scale according to amount of affective, affirmational, and practical support perceived to be available; the length of time known; &amp; frequency of contact.</p>	<p>Internal consistency functional items (.72-.97); structural items (.88-.96); between functional &amp; structural items (.69-.97).</p> <p>Cronbach's alpha .98 (n=31).</p> <p>One week test-retest reliabilities 0.85-0.92.</p>	<p>Concurrent validity reported through significant positive correlations with the Personal Resource Questionnaire.</p> <p>Support scores reported to buffer life stress as measured by the Life Experiences Survey, thereby having predictive validity.</p>	English	Permission is granted to researchers and clinicians to copy and use.	No	<p><i>Nursing Research</i>, 30 (5) 264-69; Sep-Oct 1981.</p> <p>Web: <a href="http://nurseweb.ucsf.edu/www/ffnorb.htm">http://nurseweb.ucsf.edu/www/ffnorb.htm</a></p>	Hirth, A., & Stewart, M., 1994. Hope and social support as coping resources for adults waiting for cardiac transplantation. <i>Canadian Journal of Nursing Research</i> , 26(3), 31-48.

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Jalowiec Coping Scale	Coping effectiveness for those awaiting heart transplant.	Adult	<p>Revised scale (1987) was utilized.</p> <p>60 coping strategies scored on Likert scale from 0 (never used) to 3 (often used).</p> <p>Also rated how helpful/effective each strategy was in managing the stress of waiting.</p> <p>Grouped into eight coping styles: Confronting; evasive, optimistic, fatalistic, emotive, palliative, supportive, and self-reliant.</p>	<p>Adequate psychometric support has been established for this instrument.</p> <p>Demonstrated in multiple populations.</p> <p>Reported test-retest reliability 0.79 for total coping scores; 0.85 for affective-oriented scores.</p> <p>Reported coefficient alpha levels ranged from 0.81-0.96.</p>	<p>Adequate psychometric support has been established for this instrument.</p> <p>Demonstrated in multiple populations.</p>	<p>English + 24 known foreign translations (Arabic, Chinese, Dutch, Finnish, French, Greek, Hebrew, Icelandic, Iranian, Italian, Japanese, Kannada, Korean, Malay, Maltese, Norwegian, Portuguese, Spanish, Swedish, Taiwanese, Tamil, Thai, Tagalog, Turkish)</p>	Yes	YES	<p>Dr Anne Jalowiec, RN, PhD Professor Emeritus, Loyola University of Chicago Email: <a href="mailto:ajalowiec@yahoo.com">ajalowiec@yahoo.com</a></p> <p>Address: 346 North Deer Mountain Rd. Florissant, CO 80816</p>	<p>Grady KL, Jalowiec A, Grusk BB et al, 1992. Symptom distress in cardiac transplant candidates. <i>Heart and Lung</i>, 21(5), 434-439.</p> <p>Hirth, A., &amp; Stewart, M., 1994. Hope and social support as coping resources for adults waiting for cardiac transplantation. <i>Canadian Journal of Nursing Research</i>, 26(3), 31-48.</p> <p>Porter RR, Krout L, Parks V, et al, 1994. Perceived stress and coping strategies among candidates for heart transplantation during the organ waiting period. <i>Journal of Heart and Lung Transplantation</i>. 13(1), 102-107.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1995. Predictors of quality of life in patients with advanced heart failure awaiting transplantation. <i>Journal of Heart and Lung Transplantation</i>, 14(1), 2-10.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1996. Improvement in quality of life in patients with heart failure who undergo transplantation. <i>Journal of Heart and Lung Transplantation</i>, 15(8), 749-757.</p> <p>Cupples SA, Nolan MT, Augustine SM et al., 1998. Perceived stressors and coping strategies among heart transplant candidates. <i>Journal of Transplant Coordination</i>, 8(3), 179-187.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1998. Patient compliance at one year and two years after heart transplantation. <i>Journal of Heart and Lung Transplantation</i>, 17(4), 383-394.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1998. Quality of life 6 months after heart transplantation compared with indicators of illness severity before transplantation. <i>American Journal of Critical Care</i>, 7(2), 106-116.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1999. Preoperative psychosocial predictors of hospital length of stay after heart transplantation. <i>Journal of Cardiovascular Nursing</i>, 14(1), 12-26.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1999. Predictors of quality of life in patients at one year after heart transplantation. <i>Journal of Heart and Lung Transplantation</i>, 18(3), 202-210.</p>

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Miller Hope Scale	Measured satisfaction with self, others, and life; avoidance of hope threats; & anticipation of a future with patients awaiting heart transplant.	Adult	40 item scale using a 6 point Likert format ranging from 1 (very strongly disagree) to 6 (very strongly agree).  Higher scores reflect greater hopefulness.	Cronbach's alpha for internal consistency .93 (n=31).  Two week test-retest reliability 0.82  Cronbach's alpha in current study .94	Positively correlated with the Psychological Well-Being Scale, Existential Well-Being Scale, and negatively correlated with the Beck Hopelessness Scale.	English	Contact Dr. Miller	No	Miller, J.F., & Powers, M.J. (1988). Development of an instrument to measure hope. <i>Nursing Research, 37(1)</i> , 6-10.  Judith Fitzgerald Miller, PhD, RN, FAAN Professor & Associate Dean for Graduate Programs & Research Marquette University College of Nursing P.O. Box 1881 Milwaukee, WI 53201-1881 Tel: 414-288-3869 Fax: 414-288-1597 Email: judith.miller@marquette.edu	Hirth, A. & Stewart, M., 1994. Hope and social support as coping resources for adults waiting for cardiac transplantation. <i>Canadian Journal of Nursing Research, 26(3)</i> , 31-48.

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Beck Depression Inventory	<p>Depressive states of cardiac transplant candidates as predictors of transplant survival.</p> <p>Psychological adjustment in heart transplant recipients.</p>	Adult	<p>21 item, multiple choice format.</p> <p>Each item attempts to assess specific symptom or attitude characteristic of depressed patients.</p> <p>Can be utilized to classify patients as mildly, moderately, or severely depressed.</p>	Test-retest reliabilities of 0.75.	Good discriminant validity.	English	Yes	Yes	<p>The Psychological Corporation, 19500 Bulverde Road, San Antonio, TX 78259; Telephone: 800-211-8378; FAX: 800-232-1223; E-mail: customer_care@harcourt.com; Web: www.PsychCorp.com</p>	<p>Jones BM, Taylor F, Downs K, et al. 1992. Longitudinal study of quality of life and psychological adjustment after cardiac transplantation. <i>Medical Journal of Australia</i>, 157:24-26</p> <p>Fisher et al, 1995. Changes in health-related quality of life and customer_care@harcourt.com; Web: www.PsychCorp.com</p> <p>Hodges B, Craven J, Littlefield C. 1995. Bibliotherapy for psychosocial distress in lung transplant patients and their families. <i>Psychosomatics</i>, 36(4): 360-368</p> <p>Squier et al, 1995. Quality of well-being predicts survival in lung transplantation candidates. <i>American Journal of Respiratory and Critical Care Medicine</i>, 152, 2032-2036.</p> <p>Chacko RC, Harper RG, Gotto J, et al, 1996. Psychiatric interview and psychometric predictors of cardiac transplant survival. <i>American Journal of Psychiatry</i>, 153(12), 1607-1612.</p> <p>Cohen L, Littlefield C, Kelly P, et al. 1998. Predictors of quality of life and adjustment after lung transplantation. <i>Chest</i>, 113(3): 633-644.</p> <p>Stilley CS, Miller DJ, Manzetti JD et al. 1999. Optimism and coping styles: A comparison of candidates for liver transplantation with candidates for lung transplantation. <i>Psychotherapy and Psychosomatics</i>, 68: 299-303.</p>

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Millon Behavioral Health Inventory (MBHI)	Cardiac transplant recipient's vulnerability/susceptibility to stress-related illness problems, coping styles, and compliance with treatment regimen.	Adult	<p>150 True/False items</p> <p>Completion Time: about 20 minutes</p> <p>Eight coping/adjustment styles associated with personality types: Introversive, Inhibited, Cooperative, Sociable, Confident, Forceful, Respectful, and Sensitive Styles.</p> <p>Six psychogenic attitude scales: Chronic Tension, Recent Stress, Pessimism, Future Despair, Social Alienation, and Somatic Anxiety.</p> <p>Three psychosomatic correlates scales: Allergic Inclination, Gastrointestinal Sensitivity, and Cardiovascular Tendency.</p> <p>Three prognostic scales: Pain Treatment Responsivity, Life Threat Reactivity, and Emotional Vulnerability.</p>	Not available	Not available	English	Yes	Yes	<p>Pearson Assessments 5601 Green Valley Drive 5th Fl. Bloomington, MN 55437 Call 1-888-627-7271 or 952-975-2990 Fax: 1-800-632-9011 or 952-681-3299 E-Mail: pearsonassessments@pearson.com Web: <a href="http://www.pearsonassessments.com/tests/mbhi.htm">Http://www.pearsonassessments.com/tests/mbhi.htm</a></p>	<p>Young LD, Schweiger J, Beitzinger J et al, 1991. Denial in heart transplant candidates. <i>Psychotherapeutics Psychosomatics</i>, 55: 141-144.</p> <p>Chacko RC, Harper RG, Gotto J, et al, 1996. Psychiatric interview and psychometric predictors of cardiac transplant survival. <i>American Journal of Psychiatry</i>, 153(12), 1607-1612.</p> <p>Harper RG, Chacko RC, Kotik-Harper D, et al 1998. Self-report evaluation of health behavior, stress vulnerability, and medical outcome of heart transplant recipients. <i>Psychosomatic Medicine</i>, 60: 563-569.</p>

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Symptom Checklist 90	Psychiatric symptom severity after cardiac transplantation.	Adult	<p>Subscales used included: depression, anxiety, and anger-hostility.</p> <p>Inquires about symptoms during 2 weeks preceding interview.</p>	<p>Psychometric properties well established.</p> <p>Reported internal consistency reliability for the depression, anxiety, and anger-hostility subscales: Cronbach's alpha 0.84, 0.85, and 0.70, respectively.</p>	Psychometric properties well established.	English	No	No	<p>Pearson Assessments 5601 Green Valley Drive 5th Fl. Bloomington, MN 55437 Call 1-888-627-7271 or 952-975-2990 Fax: 1-800-632-9011 or 952-681-3299 E-Mail: pearsonassessments@pearson.com Http://www.pearsonassessments.com</p>	<p>Dew MA, Simmons RG, Roth LH, et al, 1994. Psychosocial predictors of vulnerability to distress in the year following heart transplantation. <i>Psychological Medicine</i>, 24: 929-945.</p> <p>Dew et al, 1996. Medical compliance and its predictors in the first year after heart transplantation. <i>Journal of Heart and Lung Transplantation</i>, 15(6), 631-645.</p>

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<p>Coping Checklist (Billings &amp; Moos)</p> <p>Note: the author (Dr. Moos) assumes that Coping Checklist may be the earliest version of the current Coping Responses Inventory. They are very similar.</p>	<p>Strategies utilized by cardiac transplant recipients for coping with what they considered to be their most serious health problem since initial hospital discharge post transplant.</p>	Adult	<p>Three indexes of coping styles: Active behavioral coping; active cognitive coping; and avoidance coping.</p>	Validated and used in number of investigations.	Validated and used in number of investigations.	English	Yes	Yes	<p>Psychological Assessment Resources, Inc., 16204 N. Florida Avenue, Lutz, FL 33549-8119; Telephone: 800-331-8378; FAX: 800-727-9329; E-mail: <a href="mailto:custserv@parinc.com">custserv@parinc.com</a> Web: <a href="http://www.parinc.com">www.parinc.com</a></p>	<p>Dew MA, Simmons RG, Roth LH, et al, 1994. Psychosocial predictors of vulnerability to distress in the year following heart transplantation. <i>Psychological Medicine</i>, 24: 929-945.</p> <p>Dew et al, 1996. Medical compliance and its predictors in the first year after heart transplantation. <i>Journal of Heart and Lung Transplantation</i>, 15(6), 631-645.</p>

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Coping with Serious Illness Battery (CSIB)	Psychosocial resources (social support and personal control) and psychological and functional outcomes of heart transplant recipients.	Adult	<p>6 subscales of CSIB utilized to measure perceived level of helpfulness: Social Network Scale; Attachment/Expressive Scale; Understanding Scale; Advice Scale; Information Seeking Scale; and Sense of Control Scale.</p> <p>7 scales utilized to measure psychological outcomes: Optimism Scale; Satisfaction with Life Scale; Well-Being Scale; Self-Esteem Scale; Anger and Depression Scale; and Anxiety Scale.</p> <p>Functional Outcome measured by Personal Functioning Scale.</p> <p>Measurement taken after transplant but prior to hospital discharge and at 6 months post transplantation.</p>	<p>Internal consistency reliability coefficients for this sample: 0.82, 0.73, 0.57, 0.73, and 0.73 respectively.</p> <p>Reliability with this sample estimated as: 0.71, 0.74, 0.84, 0.69, 0.89, 0.91, and 0.62 respectively.</p> <p>Reliability estimated at 0.84 in this sample.</p>	Not available	English	Information Not Available	Information Not Available	No other sources found	Bohachick, P., Taylor, M., Sereika, S., Reeder, S. & Anton, B. (2002). Social support, personal control, and psychosocial recovery following heart transplantation. <i>Clinical Nursing Research, 11(1)</i> , 34-51.



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6 Minute Walk Test (6MWT)	Functional status in patients with heart failure.	Adult	<p>Patients told to walk at brisk pace as far as they could within the allotted time, resting as needed. No coaching during the 6 minutes.</p> <p>This is a submaximal exercise test.</p>	Demonstrated adequate reliability	Demonstrated adequate validity	English	No	No	<p>ATS committee on proficiency standards for clinical pulmonary function laboratories. (2002). ATS statements: guidelines for the six-minute walk test available in: <i>American Journal of Respiratory and Critical Care Medicine</i>, 166(1), 111-117.</p>	<p>Westlake et al, 2002. Correlates of health-related quality of life in patients with heart failure. <i>Heart &amp; Lung</i>, 31(2), 85-93.</p>

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Spiritual Perspective Scale (SPS)	Spirituality of heart failure patients.	Adult	<p>10 items assess individual's practice and belief system. Scored from 1 (not at all/strongly disagree) to 6 (about once a day/strongly agree).</p> <p>Higher scores reflect greater spiritual perspective and higher levels of transcendence.</p>	<p>Adequate psychometric support.</p> <p>Reed, P.G. 1986. Religiousness among terminally ill adults and health adults. Research in <i>Nursing and Health</i>, 9,35-41.</p>	<p>Adequate psychometric support.</p> <p>Reed, P.G. 1986. Religiousness among terminally ill adults and health adults. Research in <i>Nursing and Health</i>, 9,35-41.</p>	English	Yes. Note: The author asks that researchers who use the tool provide her with psychometric data to continue to evaluate its psychometric properties	No	<p>Pamela G. Reed, PhD, RN The University of Arizona College of Nursing. Professor Tel: 520-626-4131 Email: preed@nursing.arizona.edu</p>	<p>Westlake, C, Dracup, K, Creaser, J, et al, 2002. Correlates of health-related quality of life in patients with heart failure. <i>Heart &amp; Lung</i>, 31(2), 85-93.</p>

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Sickness Impact Profile (SIP)	Health stress related to transplantation through patient's self report of physical functional status.	Adult	<p>110 self-report items. Yes/No response set. Yes responses weighted by amount of disability.</p> <p>Subscales: Sleep/rest; emotional behavior; self-care; home management; mobility; social interaction; ambulation; alertness; communication, recreation; eating, and working.</p> <p>Impairment classified in this study by endorsement of 20% or of the items.</p>	<p>Extensive psychometric support.</p> <p>Bergner M, Bobbitt RA, Pollard WE et al. 1976. The Sickness Impact Profile: Validation of a health status measure. <i>Medical Care</i>, 14:57-67.</p> <p>Bergner M, Bobbitt RA, Carter WB et al. 1981. The Sickness Impact Profile: Development and final revision of a health status measure. <i>Medical Care</i>, 19:787-806.</p>	<p>Extensive psychometric support.</p> <p>Bergner M, Bobbitt RA, Pollard WE et al. 1976. The Sickness Impact Profile: Validation of a health status measure. <i>Medical Care</i>, 14:57-67.</p> <p>Bergner M, Bobbitt RA, Carter WB et al. 1981. The Sickness Impact Profile: Development and final revision of a health status measure. <i>Medical Care</i>, 19:787-806.</p>	English	Yes	Yes	Email library@ets.org or Phone 1-609-734-5689	<p>Grady KL, Jalowiec A, Grusk BB et al, 1992. Symptom distress in cardiac transplant candidates. <i>Heart and Lung</i>, 21(5), 434-439.</p> <p>Fisher DC, Lake KD, Reutzel TJ et al. 1995. Changes in health-related quality of life and depression in heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i>, 14(2), 373-381.</p> <p>Grady KL, Jalowiec A, White-Williams C. et al. 1995. Predictors of quality of life in patients with advanced heart failure awaiting transplantation. <i>Journal of Heart and Lung Transplantation</i>, 14(1), 2-10.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1996. Improvement in quality of life in patients with heart failure who undergo transplantation. <i>Journal of Heart and Lung Transplantation</i>, 15(8), 749-757.</p> <p>Hetzer R, Albert W, Hummel M, et al. 1997. Status of patients presently living 9-13 years after orthotopic heart transplantation. <i>Annals of Thoracic Surgery</i>, 64, 1161-1168.</p> <p>Salmon P, Mikhail G, Stanford SC, et al. 1998. Psychological adjustment after cardiac transplantation. <i>Journal of Psychosomatic Research</i>, 45(5), 449-458.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1998. Patient compliance at one year and two years after heart transplantation. <i>Journal of Heart and Lung Transplantation</i>, 17(4), 383-394.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1998. Quality of life 6</p>

										<p>months after heart transplantation compared with indicators of illness severity before transplantation. <i>American Journal of Critical Care</i>, 7(2), 106-116.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1999. Predictors of quality of life in patients at one year after heart transplantation. <i>Journal of Heart and Lung Transplantation</i>, 18(3), 202-210.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1999. Preoperative psychosocial predictors of hospital length of stay after heart transplantation. <i>Journal of Cardiovascular Nursing</i>, 14(1), 12-26.</p> <p>Konstam et al, 1999. Stress and health-related quality of life in individuals undergoing cardiac transplantation and their spouses. <i>Journal of Applied Rehabilitation Counseling</i>, 30(4), 22-28.</p> <p>Dew MA, Kormos RL, DiMartini AF, et al, 2001. Prevalence and risk of depression and anxiety-related disorders during the first three years after heart transplantation. <i>Psychometrics</i>, 42(4), 300-313.</p>
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Instrument	Variable Measured	Population	Description	Reliability	Validity	Languages	Copy-righted?	Fee?	Source	References
Rating Question Form	<p>Psychological state and physical/occupational function in heart transplant recipients.</p> <p>Globally measures stress level, coping ability, health perception, and overall quality of life in heart failure and transplant recipients.</p>	Adult	<p>7 self-report items. Global measure of single items with 10 point Likert scales.</p> <p>Items: stress, coping, health perception, quality of life, how well doing past 3 months, satisfaction with transplant surgery and decision to undergo transplant again.</p>	<p>Previously reported.</p> <p>Grady, K, Jalowiec, A, 1992. Report on psychometric results on quality of life in heart transplant study tools [Unpublished manuscript]. Chicago: Loyola University.</p>	<p>Previously reported.</p> <p>Grady, K, Jalowiec, A, 1992. Report on psychometric results on quality of life in heart transplant study tools [Unpublished manuscript]. Chicago: Loyola University.</p>	English	Yes	Yes	<p>Dr Anne Jalowiec, RN, PhD Professor Emeritus, Loyola University of Chicago Email: <a href="mailto:ajalowiec@yahoo.com">ajalowiec@yahoo.com</a></p> <p>Address: 3030 Electra Drive Colorado Springs, CO 80906</p>	<p>Grady KL, Jalowiec A, White-Williams C. 1995. 1996. Improvement in quality of life in patients with heart failure who undergo transplantation. <i>Journal of Heart and Lung Transplantation</i>, 15(8), 749-757.</p> <p>Grady KL, Jalowiec A, White-Williams C. 1999. Predictors of quality of life in patients at one year after heart transplantation. <i>Journal of Heart and Lung Transplantation</i>, 18(3), 202-210.</p>