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KEYWORDS

midlife.

Perceived Stress Scale, Validity, Reliability, Postmenopausal Women, Chinese

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construct validity. The PSS was also correlated with CES-D, STAI, menopausal symptoms, and health behaviors; hence the construct validity was further supported. Conclusions: The PSS appears to be a psychometrically sound instrument for measuring psychological perceived stress for Chinese women in

References

- [1] S. C. Ho, S. G. Chan, Y. B. Yip, A. Cheng, Q. Yi and C. Chan, "Menopausal Symptoms and Symptom Clustering in Chinese Women," Maturitas, Vol. 33, No. 3, December 1999, pp. 219-227.
- [2] S. M. McKinlay, D. J. Brambilla and J. G. Posner, "The Normal Menopause Transition," Maturitas, Vol. 14, No. 2, January 1992, pp. 103-115.
- [3] J. W. Eckert and S. C. Shulman, "Daughters Caring for their Aging Mothers a Midlife Developmental Process," Journal of Gerontological Social Work, Vol. 25, 1996, pp. 17-32.
- [4] H. Iso, C. Date, A. Yamamoto, H. Toyoshima, N. Tanabe, S. Kikuchi, et al., "Perceived Mental Stress and Mortality from Cardiovascular Disease among Japanese Men and Women: The Japan Collaborative Cohort Study for Eval-uation of Cancer Risk Sponsored by Monbusho (JACC Study)," Circulation, Vol. 106, No. 10, September 2002, pp. 1229-1236.
- [5] M. Hamer, G. J. Molloy and E. Stamatakis, "Psychological Distress as a Risk Factor for Cardiovascular Events: Pathophysiological and Behavioral Mechanisms," Journal of the American College of Cardiology, Vol. 52, No. 25, December 2008, pp. 2156-2162.

- [6] S. Cohen, D. A. Tyrrell and A. P. Smith, "Psychological Stress and Susceptibility to the Common Cold," New England Journal of Medicine, Vol. 325, No. 9, August 1991, pp. 606-612.
- [7] N. R. Nielsen, T. S. Kristensen, P. Schnohr and M. Gronbaek, "Perceived Stress and Cause-Specific Mortality among Men and Women: Results from a Prospective Cohort Study," American Journal of Epidemiology, Vol. 168, No. 5, September 2008, pp. 481-491.
- [8] A. Steptoe and M. Marmot, "Burden of Psychosocial Adversity and Vulnerability in Middle Age: Associations with Biobehavioral Risk Factors and Quality of Life," Psychosomatic Medicine, Vol. 65, No. 6, Novem-ber-December 2003, pp. 1029-1037.
- [9] S. Cohen and G. M. Williamson, "Perceived Stress in a Probability Sample of the United States," In S. Spacapan and S. Oskamp, Eds., The Social Psychology of Health, Newbury Park, Sage, California, 1988, pp. 31-67.
- [10] C. Mimura and P. Griffiths, " A Japanese Version of the Perceived Stress Scale: Translation and Preliminary Test," International Journal of Nursing Studies, Vol. 41, No. 4, May 2004, pp. 379-385.
- [11] E. Remor, "Psychometric Properties of a European Spanish Version of the Perceived Stress Scale (PSS)," Spanish Journal of Psychology, Vol. 9, No. 1, May 2006, pp. 86-93.
- [12] C. Song, G. Kenis, A. van Gastel, E. Bosmans, A. Lin, R. de Jong, et al., "Influence of Psychological Stress on Immune-Inflammatory Variables in Normal Humans. Part II. Altered Serum Concentrations of Natural Anti-Inflammatory Agents and Soluble Membrane Antigens of Monocytes and T Lymphocytes," Psychiatry Research, Vol. 85, No. 3, March 1999, pp. 293-303.
- [13] V. E. Burns, M. Drayson, C. Ring and D. Carroll, "Per-ceived Stress and Psychological Well-Being are Associated with Antibody Status after Meningitis C Conjugate Vaccination," Psychosomatic Medicine, Vol. 64, No. 6, November-December 2002, pp. 963-970.
- [14] H. Y. Yu, S. C. Ho, S. Y. Ho, S. G. Chan, J. Woo and A. T. Ahuja, "Carotid Atherosclerosis and the Risk Factors in Early Postmenopausal Chinese Women," Maturitas, Vol. 63, No. 3, July 2009, pp. 233-239.
- [15] S. Cohen, T. Kamarck and R. Mermelstein, " A Global Measure of Perceived Stress," Journal of Health and Social Behavior, Vol. 24, No. 4, December 1983, pp. 385-396.
- [16] L. S. Radloff, "The CES-D Scale: A Self-Report Depres-sion Scale for Research in the General Population," Ap-plied Psyhological Measurement, Vol. 1, 1977, pp. 385-401.
- [17] C. K. Cheung and C. Bagley, "Validating an American Scale in Hong Kong: The Center for Epidemiological Studies Depression Scale (CES-D)," Journal of Psychol-ogy, Vol. 132, No. 2, March 1998, pp. 169-186.
- [18] C. D. Spielberger, R. L. Gorsuch and R. E. Luschene, "State Trait Anxiety Inventory: A Test Manual/Test Form," Consulting Psychologists Press, Palo Alto, CA, 1970.
- [19] M. Tsoi, E. Ho and K. Mak, "Becoming Pregnant Again after Stillbirth or the Birth of a Handicapped Child," In: L. Dennerstein and I. Fraser, Eds., Hormone and Behavior, Elsevier Science, 1986, pp. 310-316.
- [20] D. T. Shek, "Reliability and Factorial Structure of the Chinese Version of the Purpose in Life Questionnaire," Journal of Clinical Psychology, Vol. 44, No. 3, May 1988, pp. 384-392.
- [21] D. T. Shek, "The Factorial Structure of the Chinese Version of the State Trait Anxiety Inventory: A Confirmatory Factor Analysis," Educational and Psychological Mea-surement, Vol. 51, 1991, pp. 985-999.
- [22] D. T. Shek, "The Chinese Version of the State-Trait An-xiety Inventory: Its Relationship to Different Measures of Psychological Well-Being," Journal of Clinical Psychology, Vol. 49, No. 3, May 1993, pp. 349-358.
- [23] N. E. Avis, P. A. Kaufert, M. Lock, S. M. McKinlay and K. Vass, "The Evolution of Menopausal Symptoms," Baillieres Clinical Endocrinology and Metabolism, Vol. 7, No. 1, January 1993, pp. 17-32.
- [24] J. A. Baecke, J. Burema and J. E. Frijters, " A Short Ques-tionnaire for the Measurement of Habitual Physical Activity in Epidemiological Studies," American Journal of Clinical Nutrition, Vol. 36, No. 5, November 1982, pp. 936-942.

- [25] S. C. Ho and S. G. Chan, "Habitual Physical Activity, Health Fitness and Behavior in Hong Kong Adults," Health Services Research Committee Report 216102, Hos-pital Authority, Hong Kong, 2002.
- [26] S. C. Ho, S. G. Chan, Y. B. Yip, S. Y. Chan and A. Sham, "Factors Associated with Menopausal Symptom Reporting in Chinese Midlife Women, Maturitas, Vol. 44, No. 2, February 2003, pp. 149-