

27th International Conference on

PSYCHIATRY & PSYCHOLOGY HEALTH

June 18-19, 2018 Paris, France

Development and psychometric analysis of mental health scale for Beijing residents

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The study aimed to develop a new Mental Health Scale for residents over 18 years old and under age 65 in Beijing. It contained three stages: Firstly, based on the Beijing residents' mental health evaluation system and the characteristics of Beijing residents, organizing and writing entries through the round of expert evaluation method to determine the first edition of the scale. Secondly, using stratified random sampling method to extract 850 Beijing residents and using item analysis and exploratory factor analysis to analyze the sample data and forming the draft of the second edition. Thirdly, using multistage stratified random sampling to select 700 residents sending out to scale and collecting 110 patients' answer of the scale to test reliability and validity of scale. This scale included six first-level dimensions of 80 entries. The Cronbach's α coefficient of the total scale was 0.969. The Pearson correlation coefficient between the secondary dimension and the first order dimension was between 0.579 and 0.746, $P < 0.01$. The correlation coefficient between the dimensions and the total scale was between 0.792 and 0.891 ($P \leq 0.01$). The scores of the patients were compared with the residents in the total scale $T=9.750$. The questionnaires TCSQ, PANAS, SQ, EPQ were used as the calibration questionnaire. The scores of these scales were significantly correlated with the dimensions of the same content measured in the Beijing Mental Health Scale. It is indicating that there's a good reliability and standard validity, which can be used as an effective assessment tool of Beijing residents' mental health.

Biography

Xin Ma has completed her BSM degree in 1983 from Peking University Health Science Center and went to Western State Hospital in Washington to study Geriatrics and Community Psychiatry in 1996. She is a Professor and a Doctoral Supervisor at Beijing Anding Hospital, Director of Beijing Mental Health Institute and Director of China Mental Health Association. She has published more than 30 papers in reputed journals.

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