



Assessment of chronic back pain patient characteristics using factor analysis of the MMPI-2: which dimensions are actually assessed?

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Abstract

Guided by the study of Deandorff *et al.* (*Pain*, 54 (1993) 153–158), the MMPI-2 data from 240 chronic back pain patients were factor-analysed in an attempt to discern the most important dimensions for this patient population. Principal components analysis with an oblique rotation revealed four underlying factors: Psychological disturbances, Introversion–extroversion, Fearfulness, and Somatic complaints. The factor structure reported by Deandorff *et al.* was thus successfully replicated. The stability of the factors was also supported using random split sub-samples. External measures relevant to pain were used to investigate the external validity of Somatic complaints in a subsample of patients ($n = 93$). Relations were found to number of painful sites, Waddell signs, fear of movement (measured isometric flexion and extension performance by dynamometry, and cardiovascular fitness (VO_2 -max)). Substantial differences emerged across genders. The derived MMPI-2 dimensions appear to coordinate important characteristics associated with chronic pain. It is concluded that MMPI-2 research into chronic pain may become more productive when the instrument and its clinical correlates are examined within a clear conceptual framework of distress and personality relevant for chronic pain and its treatment. © 1998 International Association for the Study of Pain. Published by Elsevier Science B.V.

Keywords: Chronic low back pain; Minnesota Multiphasic Personality Inventory-2; Factor analysis; Validity; Pain behavior; Fear of movement

1. Introduction

It is now generally recognized that psychological factors play an important role in chronic pain (Ganana, 1994). The psychological disturbances characteristic of chronic pain patients typically involve depression (e.g. Magni, 1987), sleep disturbances (e.g. Fisher and Chung, 1985), fear and anxiety (e.g. Asmundsen *et al.*, 1997), feelings of anger and hostility (Fernandez and Turk, 1995), and somatic preoccupation or what is frequently referred to as ‘somatic distress’ (Main *et al.*, 1992). These disturbances are often intermingled and usually present themselves outside the clinical range associated with DSM-IV categories. Studies have found only about one-third of the most dysfunctional group of chronic pain patients (i.e. those referred to pain

clinics), to meet the standard diagnostic criteria for major depression (Turner and Romano, 1984). Furthermore, studies have shown chronic pain patients to not form a homogeneous group with regard to the aforementioned disturbances. Using the Multidimensional Pain Inventory (MPI; Kerns *et al.*, 1985), for example, Turk and Rudy (1987, 1988) could clearly distinguish a group of interpersonally distressed chronic pain patients, and a group of globally dysfunctional patients, experiencing particularly high levels of pain interference.

Broad screening instruments for the aforementioned disturbances may be clinically useful for the assessment of chronic pain patients. The Minnesota Multiphasic Personality Inventory (MMPI; Hathaway and McKinley, 1943) is one such instrument with a long-standing tradition in this respect (Keller and Burcher, 1991). The MMPI was developed within a psychiatric context and is intended to assess psychopathology and personality characteristics along with

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