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Predicting Pain Scores Using Personality Trait Facets and Personality Trait Domains Assessed by Personality Inventory for DSM-5

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Abstract

Personality disorder is different from mental illness because it is more persistent during adulthood, while mental illness results from a morbid process of a certain type and has a more recognizable onset and evolution. Pain is a subjective experience that is influenced by genetic, gender, social, cultural and personal parameters. The link between personality disorders and acute pain has been shown to be increasingly significant because the link is bidirectional and, in both cases, they act as risk factors for each other.

The psychometric assessment was performed using the PID-5, the pain test was performed using a submaximal effort tourniquet technique. The relationships of potential predictors and pain perception in the first, second and third minute were estimated using regression analysis, bootstrap being applied for model stability estimation.

The analysis of the prediction models for pain perception in 5 domains of personality states that no domain was found as a predictor in first minute model, Negative Affect and Detachment which are included in the internalizing category were found as predictors in the 2nd minute model, same as the facets which are included in this category. Both facets included in Psychoticism domain and the domain itself were found as predictors in the 3rd minute model, with the inverse relationship.

Our results allow us to consider that personality changes can change the perception of pain, which requires corrections in the diagnosis and therapeutic approach of disorders associated with pain.

Keywords: pains, personality disorders, psychometric assessments



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