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treatment protocols based on them. These possibilities open up new perspectives for personalized interventions in psychotherapy. The affective neurosciences that link psychopathological phenomena to the hypersensitization of emotional systems are an excellent field of application of deep learning algorithms

Objectives: In this contribution we present the standardization of a psychodiagnostic test that can be analyzed with a deep learning algorithm for the development of personalized treatments for depressive disorders in a perspective of precision psychotherapy Methods: Previously we have constructed a psychodiagnostic test that correlates the psychopathological characteristics to the emotional systems described in affective neuroscience. The construction of this test was carried out with the use of a neural network that discriminated 161 items from a pull of 300 psychopathological and character descriptions. In the present work, the 161 selected items were compared, in a sample of 600 subjects, with the measurement of sadness described in the Panksepp model. Comparation was performed with linear and non-linear statistical analysis methods. Results: The items emerging from the statistical analyzes as strongly indicative of a hypersensitivity of the sadness system outline a psychopathological profile for which it is possible to adapt specific psychotherapeutic treatment protocols.

Conclusions: In future prospect, neurobiological and psychophysiological variables such as heart rate variability, skin conductance and activity of the areas of the cortex, measured with a scanner of the near infrared photons, will be correlated to these descriptors of psychopathology.

Keywords: Personality; psychopathology; test; Artificial Intelligence

EPP0962

Mental health in time of pandemics: Study protocol to incorporate risk and protective factors contributing to psychological stress among portuguese and swiss higher education students

C. Laranjeira¹*, A. Querido¹, O. Valentim², Z. Charepe³ and M. Dixe¹

¹Citechcare, Polytechnic of Leiria, Leiria, Portugal; ²School Of Health Sciences, Polytechnic of Leiria, Leiria, Portugal and ³Instituto De Ciências Da Saúde, Universidade Católica Portuguesa, Lisboa, Portugal *Corresponding author.

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Introduction: The ongoing COVID-19 pandemic is inducing fear, and a timely understanding of mental health status is urgently needed for society. Previous research has revealed a profound and wide range of psychosocial impacts on people at the individual, community, and international levels. On an individual level, people are likely to experience fear of falling sick or dying themselves, feelings of helplessness, and stigma. Currently, there is little understanding of mental well-being assessment under scenarios of pandemics that oblige to social isolation and quarantine.

Objectives: This study aims to: a) establish the prevalence of psychiatric symptoms; b) identify risk and protective factors contributing to psychological stress; and c) identify coping strategies to promote better adjustment during and after the pandemic crisis.

Methods: We will adopt a mixed-method approach, firstly with a cross-sectional survey design (in both Portugal and Swiss context) to

assess the higher education student's psychosocial response during and after the pandemic, by using an anonymous online questionnaire. In a 2nd phase, and in order to gain more insight into the psychological stress faced by the students as a result of pandemic, a qualitative approach was chosen, focusing on the experiences of the participants. **Results:** This study has received ethical approval from both international and local institutional review boards. Data collection will start in November 2020 and will be completed at February 2021. **Conclusions:** The findings of this study will provide important data to assist government agencies and healthcare professionals in safeguarding the psychosocial wellbeing of the community in the face of COVID-19 outbreak expansion.

Keywords: Study protocol; pandemics; psychological stress; higher education students

EPP0963

Professional stress-related disorders in first-line responders- how far are we from real prevention strategies?

O. Vasiliu*

Psychiatry, University Emergency Central Military Hospital Dr. Carol Davila, Bucharest, Romania

*Corresponding author. doi: 10.1192/j.eurpsy.2021.1219

Introduction: In the context of COVID-19 pandemic, first-line responders (FLR) are exposed to multiple stress factors, ranging from lack of adequate protective equipment to worries about family health due to work-related exposure to the new coronavirus. Therefore, FLR became themselves a vulnerable population that need prevention strategies for professional stress-related disorders (PSRD).

Objectives: To explore the literature in order to find evidence-based prevention strategies for PSRD in FLR, strategies resulted from other epidemiological crisis situations (MERS-CoV, H1N1, SARS-CoV) that may be applied in the current pandemic.

Methods: A literature review was performed through the main electronic databases (PubMed, CINAHL, SCOPUS, EMBASE) using the search paradigm "professional stress-related disorders" AND "first line responders" AND "prevention". All papers published between January 2000 and June 2020 were included.

Results: Reported prevalence of post-traumatic stress disorder in FLR involved in epidemiological crises was between 10% and 33%. Evidence-based recommendations for PSRD prevention are lacking, and only general advices have been detected. These suggestions were clustered on institutional level (e.g., involving of medical personnel in administrative decisions, encouraging personal initiatives, longer pauses between shifts) and individual level (e.g., training of coping abilities, relaxation techniques, and peer-focused group support). Several guidelines for prevention of mental disorders in workplace exist, but they are not focused on FLR.

Conclusions: The need to elaborate guidelines for prevention of PSRD in FLR can not be overemphasized, especially in the pandemic period, in order to avoid the onset of stress-related complications, and to preserve a good quality of the medical activity.

Keywords: professional disorders; stress-related disorders; prevention strategies; COVID-19