The role of sleep in emotional memory processing in PTSD patients

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The role of sleep in emotional memory processing in PTSD patients
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Sleep appears to play an important role in emotional memory processing and emotional coping. Disturbed sleep (nightmares and insomnia) is one of the key symptoms of posttraumatic stress disorder (PTSD) and may play an important role in the aetiology and/or maintenance of PTSD. Polysomnographic studies in PTSD patients have reported mainly on changes in REM characteristics and arousal regulation. However, little is known about the relation between sleep disturbances and emotional memory processing in PTSD. A previous sleep study in healthy subjects suggests the occurrence of adaptive changes in sleep architecture after emotional experiences, which benefit emotional housekeeping and the attenuation of emotional responses towards negative emotional experiences (manuscript under submission). The current controlled patient study assesses the impact of an induced, emotionally distressing experience on sleep parameters in PTSD patients, including the distribution of sleep stages, REM sleep-related variables, and EEG power spectral parameters. In addition, we will analyse how sleep changes in response to the stressor relate to emotional attenuation over sleep. The main experimental groups are traumatized police officers and veterans with PTSD (N = 25) and without PTSD (N = 25). We will also include a control group of non-trauma exposed controls (N = 25). The experimental set up involves presentation of neutral or distressing film fragments in the evening, followed by polysomnography (EEG – F3, F4, C4, O2- referenced to linked A1 + A2; EOG; EMG; ECG; respiratory signals; limb movements) of undisturbed, whole night sleep, and cued recall of film content on the next day.
issues by developing and validating a new scale that measures both trauma-related guilt and shame experiences. The scale contains two guilt subscales that assess negative behavior-evaluations (cognitive) and the tendency to repair (behavioral) following a traumatic event, and two shame subscales that measure negative self-evaluations and withdrawal behavior following a traumatic event. Our scale's ability to distinguish these two classes of responses (cognitive and behavioral) and its ability to include both trauma-related guilt and shame represents a vital advantage of the scale over existing instruments. Consequently, it has the potential to be an important tool for identifying trauma-related guilt and shame.

The degree of dissociative and posttraumatic stress in oncology

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A traumatic event is considered a stressful event that overwhelms the resilience of the subject. A traumatic event can be an isolated incident or repetitive causing a chronic trauma in the patient. The shift to the subjective experience of trauma led to a definition of traumatization as an individual response at cognitive, affective and defensive level. In this sense, an event becomes “traumatic” according to the way in which the subject experiences it in his or her inner world, i.e., in relation to the quality of his or her personal reality. Traumatic experiences act on splitting up higher integrative functions and this creates the existence of dissociative phenomena and psychopathological disorders such as posttraumatic stress disorder (PTSD). The disruption resulting from psychological trauma however does not seem to be a defense of the mind, but rather a side effect that has grave repercussions on the ability of the individual to regulate emotional, and metacognitive capabilities in relation to one’s own identity. The seriousness of the dissociative disorder and PTSD when associated with traumatic histories of development can worsen the prognosis if they are present as an illness in combination with other disorders. In fact, if we try to analyze a dramatic context such as cancer, it is noted that the communication of a poor diagnosis can be characterized as a critical time for the development of this phenomenon. In this situation, it seems to be essential for a specific intervention to reduce symptoms and return the patient to a normal level of functioning in order to be able to manage the organic pathology.

References


Psychometric properties of the Hungarian versions of the Impact of Event Scale-Revised and the Impact of Future Events Scale

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A study that investigated the psychometric properties of the Hungarian versions of the Impact of Event Scale-Revised (IES-R; Weiss & Marmar, 1996) and the Impact of Future Events Scale (IFES; Derevensky & Holmes, 2010) in a sample of healthy subjects is presented. The IES-R is a 22-item scale that was developed based on the IES-R and assesses the impact of intrusive, prospective, relevantly important imagery.