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Stress, Cognitive Emotion Regulation, and Sleep in University Students

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Introduction: The appropriate regulation of thoughts and emotions decreases the likelihood of pathogenic activation of stress response (Gross, 2007). Stress is closely related to impaired sleep incross-sectional studies (Akerstedt, 2006) and can elicit profound and lasting effects on sleep (Hall et al., 2004).

Aims: To analyze the associations between perceived stress, cognitive coping strategies and sleep difficulties.

Methods: 549 students (80.1% females) from two Portuguese Universities filled in the Portuguese version of Perceived Stress Scale 10 (PSS, Cohen et al., 1983; Amaral et al., 2014), Cognitive Emotional Regulation Questionnaire (CERQ, Garnefski et al., 2001; Castro et al., 2013) and three questions were used to access sleep difficulties (initiating sleep, sleep maintenance, and early morning awakening).

Results: In the present sample the prevalence for difficulty initiating sleep was 29,8%, of maintaining sleep was 27,9% and of early morning awakening was 30,9%. Considering stress, cognitive coping strategies and sleep, consistent and strongest positive correlations were observed between Perceived Stress and Rumination (from r=.263 to r=.486; p<.01), Catastrophizing (from r=.263 to r=.391; p<.01) and negatively correlated with Positive reappraisal and planning (from r=-.109; p<.05 to r=-.346; p<.01). The correlations between perceived stress and difficulties in initiating and maintaining sleep were from r=.249 to r=.356(p<.01). Strongest correlations were observed between Rumination, Self-blame and Catastrophizing and difficulties in initiating and maintaining sleep (fromr=.152 to r=.258; p<.01).

Conclusions: Rumination, Self-blame and Catastrophizing were the cognitive coping strategies consistently associated with perceived stress and difficulties in initiating and maintaining sleep.