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Stress, Perseverative Negative Thinking, and Sleep in University Students

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Introduction: The perception of stress does not automatically lead to prolonged activation. The cognitive representations of stressors need to be prolonged in order to extend their physiological concomitants (Brosschot, Gerin, & Trayer, 2006). It is shown that elevated levels of repetitive negative thinking appear to be causally involved in the maintenance of emotional problems (Ehring & Watkins, 2008).

Aims: To analyze the associations between Perceived Stress (PS), Perseverative NegativeThinking (PNT) and Sleep difficulties.

Methods: 549 students from two Portuguese Universities filled in the Portuguese version of Perceived Stress Scale (Cohen et al., 1983; Amaral et al., 2014), PerseverativeThinking Questionnaire (Ehring et al., 2011; Chaves et al., 2013), and three questions were used to access sleep difficulties (initiating sleep, sleepmaintenance, and early morning awakening).

Results: In the present sample the prevalence on difficulty initiating sleep was 29,8%, of maintaining sleep was 27,9% and of early morning awakening was 30,9%. The strongest correlations were observed between PS and PNT (from r=.338 to r=.520; p<.01), being slighthigher to Cognitive Interference and Unproductiveness dimension. The correlations between PS and difficulties in initiating and maintaining sleep were from r=.314 to r=.366 (p<.01). Considering PNT and Sleep associations, strongest correlations were observed in relation to difficulties of initiating sleep (from r=.206 to r=.222; p<.01) and weaker in relation to difficulties in maintaining sleep (from r=.125 to r=.198;p<.01).

Conclusions: The PS was strongly associated with PNT and both of these variables were associated with sleep difficulties (particularly initiating and maintaining sleep).