P-778 - S100B SERUM PROTEIN DOES NOT HAVE A CIRCADIAN RHYTHM IN HEALTHY SUBJECTS

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Introduction: Circadianity is a characteristic of several human biological variables, such as testosterone, melatonin and cortisol. There is little information whether or not S100B serum protein presents a circadian rhythm.
Material and methods: 44 healthy subjects (24 female and 20 male, age 39.7 ± 9.4) participated in the study. Blood was sampled in July at 09:00, 12:00 and 24:00 h. Blood was centrifuged and serum was aliquot in Eppendorf tubes and frozen at -70º C. Serum S100B was measured by ELISA.
Results: Serum S100B concentrations at 09:00 (56.3 ± 18.1 pg/ml), 12:00 (53.8 ± 23.1 pg/ml) and 24:00 h. (55.3 ± 20.3 pg/ml) were not significantly different.
Conclusions: Our results point to the absence of a circadian rhythm of S100B serum protein concentrations. The lack of the disadvantage may allow researchers on this area to sample subjects at any time of the day.

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