

MENTAL STATUS AND HEART RATE VARIABILITY

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Abstract

The results let us suppose that there are at least three periodical phenomena of HRV in frequency range related with mental status. Two of them have not been discovered and physiologically explained yet. The most powerful of these phenomena relates to mental status. It has frequencies from 0.25 to 0.5 1/beat and peak 0.35 1/beat. Despite of difference of the peak frequencies the waves of factor loadings are overlapped. Therefore, regression models would be more fit for useful evaluation of mental status, rather than power of spectral density within any frequency range.

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