

INFLUENCE OF NOISE ON AUTONOMIC NERVOUS SYSTEM

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The literature has already demonstrated that auditory stimulation with different styles influences the autonomic system. It was showed in a previous study a strong correlation ($r>0.7$; $p<0.05$) between noise intensity and vagal-sympathetic balance. White noise exposure above 50 dB significantly activated the sympathetic modulation of autonomic nervous system. It was hypothesized that dopamine release in the striatal system induced by auditory stimulation are involved in the cardiac autonomic regulation. In this context, brain areas involved in autonomic regulation may be also related to auditory process.

Key words: Auditory Stimulation; Autonomic Nervous System; Music.