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Neuroimaging regarding the stimulation of the point of joy in auriculoterapia

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Problem Statement: There are few neuroimaging studies performed on microsystems such as auriculotherapy. Researchers have long researched the results of acupuncture, including using modern techniques such as a neuroimaging. There are points in auricular acupuncture with recommendations for possible calming effects and other revitalizing ones, which are consecrated more by practical experience than based on scientific research. There are good results in different sources of stimuli, such as electropuntura and laser puncture. However, studies on these actions are timid. Functional autonomic nervous system (ANS) performance analysis is based on cardiac rhythm variability, vascular compensation response (HR min / HR max), obtaining autonomic amplitude and frequency. The individual variability and physiological changes associated with acupuncture have also been reported in the literature.

Objective: The objective of this study is to evaluate an immediate influence on the ANS by stimulating the joy point with different materials in auriculotherapy, through neuroimaging, anxiety control and heart rate.

Theoretical methodologies: Equipment with brain and peripheral sensors was used to capture changes in brain images, anxiety control and real-time heart rate with different stimuli used at auricular points.

Conclusion: It was observed with the data captured in the images that the stimulation with laser puncture, electropuntura, needle and seed of vacancy in the use of Alegria point has an effective and differentiated response. A neuroimaging allows intensifying the investigations with microsystems, to investigate its main points, different sources of stimuli and provoked neurophysiological reactions. Thus, it will direct an actuation and an evolution of auriculoterapia.



Fig.1: Placement of the seed at the point of Joy (4) and etimulus at the point of joy (5)

Biography

Lirane Carneiro-Suliano is a Master's and PhD student from the Federal University of Paraná. She is a Specialist in Acupuncture and Functional Orthopedics of Jaws. She has learnt complementary training in Auriculotherapy in France and in Acupuncture in Beijing Traditional Medicine Training Center of the WFAS/China. She is the Post-graduate Professor in Acupuncture. She is the Founding Member of the Brazilian Dental Society of Acupuncture (SOBA) Editorial Board Member and Reviewer of the *Brazilian Journal of Therapies and Health* (RBTS). She is also a Member of the Commission of Integrative Practices of the Regional Council of Dentistry of Paraná (CRO-Pr). She is the author of Atlas of Auriculotherapy from A to Z, Omnipax and chapter Acupuncture in the Treatment of Sports Dentistry in the book Sports Dentistry.

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