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Differences between laserpuncture and electro puncture with neuroimaging the stimulation in auriculotherapy

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Statement of the Problem: Researchers have long researched the results of acupuncture, including the use of modern techniques such as a neuroimaging. There are few neuroimaging studies performed on microsystems such as auriculotherapy. There are points in auricular acupuncture with recommendations for soothing and other revitalizing effects, which are more conspicuous for practical practice than based on scientific research. Find good results in different sources of stimuli, such as electrotropuntura and laserpuncture, however, studies on these actions are timid. A functional autonomic nervous system (ANS) performance analysis is based on heart rate variability, vascular compensation response (HR min/HR max), obtaining autonomous amplitude and frequency. The individual and physiological variability associated with acupuncture have also been reported in the literature.

Objective: To evaluate an influence on the central nervous system by stimulating between laser and electro in auriculotherapy, through neuroimaging, anxiety control and heart rate.

Method: 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.

Result: It was observed with the data captured in the images that the stimulation with laserpuncture and electro puncture has an effective and differentiated response.

Conclusion: A neuroimaging allows to intensify the investigations with microsystems, to investigate its main points, different sources of stimuli and provoked neurophysiological reactions. Thus, it will direct an update and an evolution of auriculotherapy.

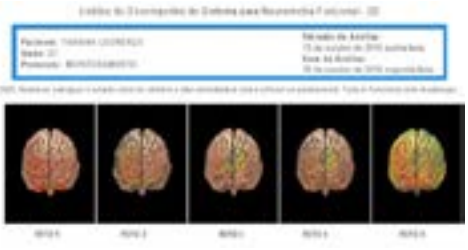

Figure 1: Neuroimaging

Recent Publications

Zhang et al. (2003) Relations between brain network activation and analgesic effect induced by low vs. high frequency electrical acupoint stimulation in different subjects: a functional magnetic resonance imaging study. Brain Res. 982:168–178.

Napadow V, Liu J, Kaptchuk T (2004) A systematic study of acupuncture practice: acupoint usage in an outpatient setting in Beijing, China. Complement. Ther. Med. 12:209–216.

Biography

Lirane Carneiro-Suliano is Master and PhD student from the Federal University of Paraná, Specialist in Acupuncture and Functional Orthopedics of Jaws. She had complementary training in auriculotherapy in France and in acupuncture in Beijing Traditional Medicine Training Center of the WFAS / China. She is a Postgraduate Professor in Acupuncture, Lectures and Scientific Research works given in the area of Acupuncture in several National and International Congresses (Boston - Harvard University, Beijing in China), Munich and Chicago). She is a member of the Research Nucleus of Acupuncture (NUPEA) of IBRATE Faculty, having main lines of research and studies published in the area of acupuncture and auriculotherapy. She is a founding member of the Brazilian Dental Society of Acupuncture (SOBA), Editorial board member and reviewer of the Brazilian Journal of Therapies and Health (RBTS), Member of the Commission of Integrative Practices of the Regional Council of Dentistry of Paraná (CRO-Pr), 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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