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Morphologic/Morphometrices alterations heads jaw mice's after decrease of occlusion dimensions

Objective: The main objective of the study is to verify the Pathological Decrease of the Vertical Dimension of Occlusion in Adult Rodents and also to check if morphologic alterations and/or morphometrics in their heads of the jaw if they would prevail.

Method: Twenty-four mice were divided in 3 experimental groups and of each group they were separate three animals that served as control. Wear and tear occlusals and incisals were proceeded until that if it reproduced a significant decrease of the vertical dimension of occlusion. The animals were sacrificed with their heads of the jaw, measured and analyzed morphometric and histologically, at the following intervals: 07 days for the 1st group, 14 days for the 2nd group and 28 days for the 3rd group.

Result: The analysis through stereoscopic magnifying glass have demonstrated that there were significant alterations and size in the heads of the jaws studied in comparison to control group and the area with more alterations suffered during the whole experimental period was the central area. The histological sheets showed great areas of bone reabsorption in images of degeneration of the head of the jaw in the 07 days experimental group, however we identified areas of bone neoformation starting from the 14 days experimental group, with strong presence of trabeculated bone in the 28 days experimental group.

Conclusion: There is a pathological decrease of the vertical dimension of occlusion in mice provoked morphologic and morphometrics modifications in the studied areas of the heads of the jaw. However after an initial period the happened adaptation if it completes with a remodelation process that, it takes to the re-establishment of the masticatory functions.

Comments to Organizers: Our objective was to verify the Pathological Decrease of the Vertical Dimension of Occlusion in Adult Rodents is capable to produce morphologic alterations and/or morphometrics in their heads of the jaw and in case they happen in that area would prevail.

Biography

Dentist-certified specialist in Orthodontics and Functional Orthopedics of Jaws, aimed at the care of patients with bad occlusions and bad formations of the cranio-maxillofacial complex. He has a Masters in Orthodontics and Facial Orthopedics. Also interested in academic work and coordination of specialization courses and disciplines in undergraduate courses in the health area. It also has an interest in public health and health management

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