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About gravity and occlusal forces in the jaws - Review

Amos Ben Yehuda, Christine Singer, Joseph Katz

Abstract

Mechanical forces resulting from gravitation seem to be essential for structural adaptation and remodeling of skeletal bones. These forces have the capability of delivering powerfully distorting stimuli to skeletal bones in a very short time, several times a day, in a uniform direction. Facial and jaw bones are not subjected to gravity impact forces. These bones need a mechanism of "compensation" for this deficiency. The goal is achieved by a unique mechanism that substitutes for gravity impact forces - the mechanism of occlusal load transmission to the bone via the periodontal apparatus space. In cases of early loss of teeth and loss of PDL this mechanism will be missing resulting in premature bone aging.

Key words: Gravity, Occlusal, Forces, PDL, Implant, Bone



About gravity and occlusal forces in the jaws - Review



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Local factors such as occlusion, interocclusal distance, centric relation in harmony with ...

B. Support Support is defined as, "The resistance to vertical forces of mastication, [occlusal forces](#) and other ... the force of [gravity](#), adhesiveness of foods and the forces associated with the opening of the [jaws](#)"- GPT or it is the ability of ...

The adaptive response of jaw muscles to varying functional ...