

The relation between leptin hormone and orthodontic alignment

Basma Ezzat Mustafa
International Islamic University, Malaysia



Abstract

During orthodontic tooth movement, the early response of periodontal tissues to mechanical stress is an acute inflammatory reaction. Mechanical stress from orthodontic appliances is believed to induce cells in the periodontal ligament (PDL) to form biologically active substances, such as enzymes and cytokines, responsible for connective tissue remodeling. Leptin, a polypeptide hormone has been classified as a cytokine. Earlier findings concluded that leptin at high local concentrations protects the host from inflammation and infection as well as maintaining bone level. It has been also suggested that leptin plays a significant role in bone formation by its direct effect on osteoblast. Leptin in saliva shows high association with tooth movement during initial orthodontic alignment stage.

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Biography:

Basma Ezzat Mustafa was the head of research in faculty of dentistry international Islamic university Malaysia 2012-2019, she started working there since 2009 in academic and research fields, in research she is doing her researches in the field of pharmacology, microbiology, and immunology in relation to oral health in several type of research in the field of natural products.

Speaker Publications:

1. Al-Ahmad BEM, Kashmoola MA, Mustafa NS, Hassan H, Arzmi MH. The relationship between tooth loss, body mass index, and hypertension in postmenopausal female. European Journal of Dentistry. 2018 Jan-Mar;12(1):120-122. DOI: 10.4103/ejd.ejd_322_17.
2. Mustafa, Nazih & Kashmoola, Muhannad & Ezzat, Basma & Al-Ahmad, Mustafa (2012) The Use of Intraoral Camera in the