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167 - RESEARCH PROJECT: A NEW CONCEPT IN IMPLANTOLOGY (FUNCTIONAL PERIIMPLANT OSTEO-INDUCTION)

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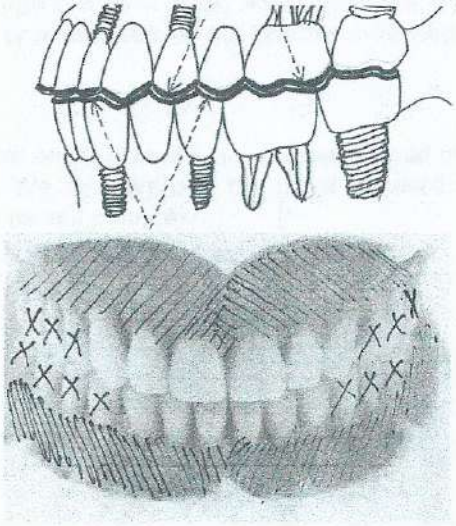
Keywords: Functional, Osteo-Tolerance, Induction

Objectives: For patients who have undertaken implant therapies and with the goal of reproducing a more physiological chewing, we are researching the way to remove or substitute the function and influence that the alveolodental ligaments achieve daily, with the installation in the crown set, pillar and implant, of elastic devices, so that the occlusive moment becomes less shocking and aggressive in the peri-implant areas, transforming this phenomenon in one more similar to the normal physiology, the objective of our research.

Materials and methods: Crown, screw, pillar and implant constitute a functional unit to which we propose to incorporate a device that, respecting it, transmits "physiology" and dynamism to the set through the incorporation to the Crown and/or in the pillar by now, of an elastic capsule, that would act as the alveolo-dental ligaments, as if they were dental structures, and with the idea of achieving what we dare to name inside the classical term of osteo-integration and, more in our line, as functional preimplant osteo-tolerance.



Figs. 1, 2: *Installation of elastic devices in patients under implant therapy.*

Results: With our dockable elastic sheet, place in the corresponding Crown fundus, stimulable in the interoclusal function or for similar effects, superimposed specifically as a capsule to the pillar like springs or similar but, all with the idea that in the chewing act, instead of and impacting occlussion, a more physiological occlussion took place, as when there are alveolo-dental ligaments, so that in the periimplant area, transmissible dento-maxillo-mandibular sensations triggered, without obviating, maybe centro-neural sensations.

Conclusion: We are determining if our elastics could change the bone anatomy in the peri implant areas and/or could influence even the anatomophysiology of the soft periodontal tissues, that is, the alveolo-dental mucosas.

We continue assessing the possibility of surrounding the implant/s to install to achieve an elastic adherence of an osteointegrative type.

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CERTIFIES THAT

the following e-poster has been accepted and presented for the Congress:

Research project a new concept in implantology (functional periimplant osteo-induction)

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