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Title: ***OSSEOINTEGRATION BETWEEN FEAR AND HOPE; A SIMPLIFIED APPROACH TO ACHIEVE OPTIMUM BONE-IMPLANT CONTACT UNDER DIFFERENT LOADING CONDITIONS***

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Abstract:

Osseointegration has been & still a unique phenomenon subjected to different debates as well as research strategies. Therefore, in order to accurately define the process of osseointegration, it might be defined from various points of views; from the literature viewpoint, it is a direct structural & functional connection between living bone & a load-carrying implant. While, from the viewpoint of microscopic biology, it is defined as a close apposition of new and reformed bone in harmony with the implant fixture. Regarding the viewpoint of macroscopic biology, the implant fixture is said to be osseointegrated if there is no progressive relative motion between the fixture & surrounding living bone. Finally, from the viewpoint of the patient, the implant fixture is said to be osseointegrated if it provides a stable & apparently immobile support of a prosthesis under different functional loadings and different loading protocols without pain, inflammation or loosening.

INTRODUCTION

The development of optimum Bone-to-implant contact has always been a magnificent treatment modality that represent a challenge to understand, to master and to adapt among many treatment modalities. Therefore, it always requires special training, precautions and new ways of thinking & practice.

Osseointegration had raised a series of interesting wide-ranging questions on many scales. Regarding the research question which started at the material level;

what are the optimum surface preparations that enhance osseointegration? Furthermore, what form should the implant fixture & the prosthesis should take to enhance osseointegration process?

On the Biological side, there are many & more complex questions; what cell & matrix components are responsible for the decision to integrate or not to integrate an implant fixture inside bone? Furthermore, what are the controls & limits to the rate of strength of the achieved osseointegration? In addition, what are the immunological & soft tissue responses that should be avoided to obtain successful osseointegration.

Regarding practical application, the most important question is how to achieve optimum implant-to-bone contact (on short-term as well as on long-term scale) under different loading conditions; whether immediate loading (functioning or non-functioning), early loading, progressive loading or delayed loading protocols.

Learning objectives:

1) Grasping the importance of osseointegration process in the implant treatment modality.
2) Practical achievement of optimum osseointegration.
3) Mastering the factors that enhance optimum and successful implant-to-bone contact.
4) The key of success of implant osseointegration in short-term as well as the long-term scale.
5) Achieving optimum implant-to-bone contact (on short-term as well as on long-term scale) under different loading conditions.

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Biography:

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EDUCATION

- ***PhD (DOCTOR degree) in IMPLANT_ PROSTHETIC DENTISTRY – Kasr El Aini - Cairo University 2013.***
- ***MSc (MASTER degree) in IMPLANT_ PROSTHETIC DENTISTRY – Kasr El Aini - Cairo University since 2010.***
- **Associate Professor in PROSTHETIC DEPARTMENT –CAIRO UNIVERSITY.**

- **Lecturer in PROSTHETIC DEPARTMENT –CAIRO UNIVERSITY** ***since 2010 till 2013.***
- **Demonstrator in PROSTHETIC DEPARTMENT –CAIRO UNIVERSITY** ***since 2007 till 2010.***
- ***RESIDENT IN PROSTHETIC DEPARTMENT –CAIRO UNIVERSITY since 2004 till 2007.***
- ***UNIVERSITY*: BA degree** from the **Faculty of Dentistry** year 2002,

  Kasr EL-Aini, Cairo University- Egypt with grade "*EXCELLENT WITH HONOURS*".

PROFESSIONAL EXPERIENCE & ADVANCED TRAINING ACTIVITIES

- ***DIPLOMAT IN DENTAL IMPLANTS 2003, Ain Shams University with 208 credit hours.***
- ***Advanced courses in dental Implantology.***
- ***Membership in ICOI, DGOI, ESOR, ESSDI.***
- ***Fellowship of ICOI.2008***
- ***Mastership of ICOI.2012.***
- ***DIPLOMAT OF ICOI.2016***
- ***Well familiar with all of dental implant systems.***
- ***Performing up to 3000 cases of implants with different treatment modalities.***
- ***Performing up to 100 cases of maxillofacial prosthesis with different treatment modalities.***
- ***Attendance of most dental conferences held in Egypt since 1998.***
- ***International speaker in many of worldwide conferences.***