

RegenDays Sofia

Joseph Choukroun

- **THEME**

Modern & efficient bone management with Osteo-immunology

Abstract:

Angiogenesis starts by an immune reaction. Bone cells are under the control of the immune system. It's now the new science concept named osteoimmunology. However, immunity works properly if the amount of antioxidants allows to balance oxidants. Excess of oxidants is named oxidative stress. Increased level of oxidants in osteoblast is one critical element of the pathophysiology of bone loss.

The marginal bone loss and peri-implantitis should be classified as an immune disease induced by an oxidative stress. Oxidative stress occurs during of biologic diseases as vitamin D deficiency or hypercholesterolemia. High pressure on bone during implant placement or tension during primary closure are also inducing high level of oxidants production and therefore, followed by bone loss. The role of keratinized mucosa will be analyzed as a barrier to inflammation of the periodontium.

PRF (platelet rich fibrin) should be considered as a powerful antioxidant and immunostimulant.

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- **CURRICULUM VITAE**

- MD, University of Montpellier, France 1979
 - Specialist in General Surgery, Anesthesiology & Pain management
 - Owner of Private Pain Clinic, Nice France.
 - President of **SYFAC**, international symposium on growth factors,
 - Inventor of the **PRF** techniques
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