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### **Tissue engineering, platelet concentrates and its role in dental implant treatment**

Tissue engineering plays a great role in enhancing and accelerating tissue healing around implants or in a defect inside oral cavity. This started by showing the role of platelets concentrates through PRP in initiating faster healing mechanism then followed by the introduction of PRGF then the innovation done by Choukroun 2001 who introduced the Platelet-rich fibrin (PRF) which is the second generation platelet concentrate widely used to accelerate soft and hard tissue healing. Several trials were done to mix the PRF with bone graft particles through cutting the PRF into small pieces and mixing it with bone particles. This lecture will introduce the 3<sup>rd</sup> generation of the platelet concentrate which is the IPRF which is a PRF with integrated bone graft materials inside it which offers good bone stabilization inside the defect. Also allow neovascularization in between bone grafts particles and direct effect of cytokines on cells in between grafting material.

### **Biography**

Ahmed Halim Ayoub, DDS, MSc, is a Visiting Lecture at BPP University Faculty of Dentistry, London, England. His Diploma and Master's degrees are from Seville University, Spain. He developed expertise in Bone Augmentation and Sinus Elevation. He has a special interest in bone healing, role of growth factors and bone morphogenetic protein in bone growth. He is also highly interested in Dental Implants Education and developed his pioneer modules using live training throughout directing dental implants Post-graduate training in Egyptian Society of Oral Implantology, London Oral Restorative Academy, and London Dental Education Service. He is a distinguished speaker: in many international conferences and teaches in UK, Europe and the Middle East.

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