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Platelet Rich Fibrin (PRF):- A Divine Blessing for Dentistry

Nishant Kumar Tewari

Kiran Dental Clinic & Maxillofacial Surgery Centre, Patna, Bihar, India

Immediately following tooth removal, a healing process begins that affects the eventual alveolar bone volume and architecture of the alveolar ridge. Satisfactory and timely healing are essential to obtain ideal functional reconstruction. Traumatic removal of a tooth or a poor healing response may lead to excessive bone loss, delaying tooth replacement, necessitating expensive and time-consuming procedures, or even be impossible to correct. Patients and clinicians could benefit if a cost-effective, simple technique were available that decreased bone-healing time and increased the predictability of favorable results.

Socket healing is a highly coordinated sequence of biochemical, physiologic, cellular and molecular responses involving numerous cell types, growth factors, hormones, cytokines and other proteins, which is directed towards restoring tissue integrity and functional capacity after injury. The development of bioactive surgical additives, regulating, enhancing healing and regeneration of tissues and bone remains one of the great challenges in clinical research.

Platelet-Rich Fibrin—A Natural Fibrin Matrix

Platelet-rich fibrin represents a new step in the platelet gel therapeutic concept with simplified processing without any artificial biochemical modification. Unlike other platelet concentrates, this technique requires neither anticoagulants nor bovine thrombin (nor any other gelifying agent), making it no more than centrifuged natural blood without additives. The PRF production protocol attempts to accumulate platelets and released cytokines in a fibrin clot.

This new biomaterial can be used in socket preservation, filling up of maxillofacial bony defects, as a membrane to cover the tissue defects, sinus lift along with other bone grafts, etc. It also has found numerous applications in other branches of dentistry as well, such as Periodontics and Oral Implantology.

Biography

Nishant Tewari has done his BDS from the prestigious Manipal University in the year 2009 and his MDS in Oral & Maxillofacial Surgery from Rajiv Gandhi of Health Sciences, Bangalore in 2014. Ever since, he is concentrating on private clinical practice and is the Director of Kiran Dental Clinic & Maxillofacial Surgery Centre, Patna, Bihar. He has published more than 15 papers in reputed national and international journals and has been a guest lecturer for various CDE programs and State Dental Conferences all over the state of Bihar.

nishantkumar.tewari@gmail.com