

PROSTHODONTICS

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Blood and its products as regenerative agents in dentistry

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Bone regeneration in dentistry involves the use of cells, biological or artificial biometric scaffolds, and bio factors that promote cell growth and differentiation along complex pathways to repair the tissue. Growth factors have a crucial role in this process since they influence the chemotaxis, differentiation, proliferation, and synthetic activity of bone cells, thereby regulating physiological remodeling and bone healing. That makes the use of autologous and recombinant growth factors (GF) a rapidly growing field of regenerative dentistry focusing on manipulating GF and secretory proteins to maximize the healing of bone and soft tissues. Most of the growth factors derived from autologous blood is released upon platelet activation, and their clinical use has been popularized with Platelet-rich plasma (PRP), Platelet-rich fibrin (PRF) & its advancements namely A-PRF & i-PRF, Concentrated Growth Factors (CGF), Sticky Bone Concept, etc. It is time to use this 'BLOOD' in different ways to achieve regenerative potential in the field of dentistry.

Recent publications:

1. Singh, Preetinder & Gupta, Rashmi & Dev, Yashpaul & Sardana, Shipra & Rathee, Kirti & Sethi, Mallika. (2019). Effectiveness of Controlled Release Chlorhexidine Chip as an Adjunctive to Scaling and Root Planning for the Treatment of Chronic Periodontitis. The Journal of Contemporary Dental Practice. 20. 1402-1405.
2. Kaur, Manvir & Sharma, YashPaul & Singh, Preetinder & Sharma, Shivli & Wahi, Ankur. (2018). Comparative evaluation of efficacy and soft tissue wound healing using diode laser (810 nm) versus conventional scalpel technique for second-stage implant surgery. Journal of Indian Society of Periodontology. 22. 228.
3. Singh, Preetinder & Dev, Yash & Khuller, Nitin & Singh, Anahita & Kaur, Prabhjot & Singh, Raghav. (2016). rhPDGF Mediated Root Coverage Procedure Using Coronally Advanced Flap in Treatment of Multiple Recession Defects: A Case Report. Dental Journal of Advance Studies. 04. 059-064..

Biography

Preetinder Singh (MDS) is working as a Senior Professor in the Department of Periodontology & Oral Implantology at SDD Hospital & Dental College, India, and as a Senior Consultant in various dental offices around the country. He is the Editor in Chief of the Journal of Periodontal Medicine & Clinical Practice and Associate Editor of various other famous journals. He was awarded the Best Graduate Award and Gold Medal by Kurukshetra University, Haryana, India during his BDS, based on his outstanding academic record. He has a keen interest in academics, research, and clinical practice. He has around 55 research publications in various national and international journals of repute. He is an invited senior editor & reviewer for 5 leading international journals indexed in PUBMED. He also has three textbooks published internationally, attached to his career to date. He has a great interest in the periodontal & implant research field and is an invited speaker for corporate lectures on his expertise in dentistry at a national & international level. He also holds a place in doing the first study in INDIA on the use of recombinant PDGF in the treatment of gingival recession defects. He is presently working on microsurgery, advanced Implantology, PRF, LANAP, etc. Under his guidance and work, his department was awarded the center of Excellence in dental implants in his state.

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