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Blood & its products as regenerative agents in dentistry

Abstract:

Bone regeneration in dentistry involves the use of cells, biological or artificial biometric scaffolds, and biofactors 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 chemotaxis, differentiation, proliferation and synthetic activity of bone cells, thereby regulating physiological remodeling and bone healing. That makes the use of the 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 potentials in the field of dentistry.

Biography :

Dr. Preetinder Singh (MDS) is working as a Senior Professor in Department of [Periodontology](#) & Oral Implantology in SDD Hospital & Dental College, India and as a Senior Consultant in various dental offices around the country. Dr. Singh is an AMBASSADOR, AMERICAN ACADEMY OF ORAL SURGERY. He is the Editor in Chief of [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. Dr. Singh is an invited senior reviewer for 5 leading [international journals](#) indexed in PUBMED. He also has three textbooks published internationally, attached to his career till date. Dr. Singh has a great interest in periodontal & implant research field and is an invited KEYNOTE speaker for corporate lectures on his expertise in dentistry at a national & international level. He also holds a place of doing the first study in INDIA on use of recombinant PDGF in 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 as the centre of excellence in dental implants in his state.



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