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**Growth factors stimulated therapy****Lalith Vivekananda**

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In dentistry, there has been increasing interest in products which promote wound healing. Various procedures and methods have been developed to amplify the elements of healing and enhance the body's own healing ability. Recent advances in tissue engineering have led to the utilization of growth factors to promote early bone and soft tissue healing. The use of platelet concentrates may be a valuable aid in the field of regenerative medicine, to speed up the process of regeneration and healing. The new generation platelet concentrates in the form of Platelet Rich Fibrin (PRF), Concentrated Growth Factors (CGF) shows a higher tensile strength, has more growth factors, higher viscosity and higher adhesive strength. This exhibits better regenerative capacity and higher versatility when using the fibrin rich block. Hence the clinician can use these in implant site preparation, during the placement of implants to prevent crestal bone changes, treating periodontally affected tissues, as a barrier membrane to accelerate soft/hard tissue healing or can be mixed with bone graft to accelerate regeneration. The use of platelet concentrate throws a new opening for the clinician to consider this as a healing biomaterial, because it has a robust stimulating effect on various aspects of healing on soft and osseous tissue including angiogenesis, immune control and harnessing the circulating stem cells. The presentation highlights the clinical outcome of using PRF/CGF in the periodontal and implant surgeries.

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