

29<sup>th</sup> Annual World Congress on

# Dental Medicine & Dentistry

October 16-18, 2017 New York, USA

## A step ahead in periodontal regeneration: Platelet rich fibrin (PRF)- A second-generation platelet concentrates

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In the past decade attempts have been made to discover biomaterials with significant contribution in healing and regeneration of soft and hard tissues in those suffering from periodontal disease. Now, the focus has further shifted on an autogenous material called platelet rich fibrin which provides an osteoconductive scaffold along with growth factors in a fibrin matrix to stimulate patient's own cells towards a regenerative response. Further, the clinical research demands development of a bioactive surgical additive which regulates the inflammation and increase the speed of healing process. And in this sense, platelet rich fibrin (PRF) appears as a natural and satisfactory alternative with favorable results and low risks. The slow polymerization during centrifugation and fibrin-based structure makes PRF a better healing biomaterial than platelet rich plasma (PRP) and other fibrin adhesives. PRF is a natural fibrin-based biomaterial without any artificial biochemical modification and has a potential role in periodontal regeneration. It is easy to prepare, non-toxic or biocompatible to living tissues and economically cheap that might result in the local release of growth factors accelerating the tissue healing process. This material is routinely used in periodontally involved patients in our Institute. Detailed procedure will be discussed at the time of poster presentation.

### Biography

Tanvi Samujh is a student at Dr. Harvansh Singh Judge College of Dental Sciences &amp; Hospital.

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