

26th EURO DENTISTRY CONGRESS

September 17-18, 2018 | Amsterdam, Netherlands



Tanya Verma

Nilamber Pitamber University, India

Platelet rich fibrin: An adjunct in wound healing

In the world of synthetic products, the evolution of a natural healing agent that is obtained from the shelf is a ray of hope for all researchers. Platelet rich fibrin is the activated form of plasmatic molecule called fibrinogen which plays a determining role in platelet aggregation during hemostasis. It works as a protective wall along vascular breaches. Various studies have proved that it is vigorously used in bone grafts, Endo-Perio lesions, gingival recession, necrotic pulp and open apex. The purpose of this study is to review and discuss the role of platelet rich fibrin in regenerative pulpotomy. On radiographic analysis, radiolucency was seen approaching pulp horn and the tooth had open apex. Coronal pulp was removed and pulpotomy was performed with the help of platelet rich fibrin, Mineral Trioxide Aggregate MTA and Glass Ionomer Cements GIC. His 10 ml blood was withdrawn and centrifuged at 3000 rpm for 10 min. Three layers were formed after centrifugation, 2nd layer was separated and right after cleaning the tooth PRF was infused in coronal pulp. Later tooth was restored with MTA and GIC. Patient was followed up after 1, 7, 21 days. There were no signs of pain after 7 days. After 6 months tooth was completely developed into a healthy form. Platelet rich fibrin has a tendency of slow polymerization, forms 3D network forming a matrix aiding in cytokine retention for extended periods, forms a membrane that possess elasticity and flexibility. These properties make it superior than other healing materials and can be used in several ways as endodontic wound healing aid.

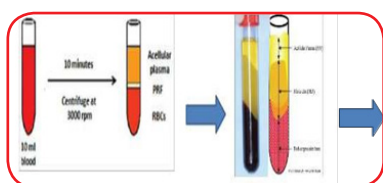


Figure 1: showing extraction of platelet rich fibrin off the blood



Figure 2: showing properties of platelet rich fibrin

Biography

Tanya Verma is presently working as an Assistant Professor in Vananchal Dental College and Hospital. She has completed her PG Diploma in Clinical Cosmetology and Medical Trichology from University of Greifswald, Germany. She is a very proficient Clinician and Academician. Apart from this, she is a leading anchor and has been awarded several times for her exceptional presentation skills. She has been Elected as the Secretary of Junior Doctors Association in her university. Being a curious Endodontist and always driven to learn, she is carrying her research work actively and looking forward to contributing her efforts in the world of dentistry and medicine.

dr.tanyaverma@gmail.com