

## **Research Work**

<b>S No.</b>	<b>Description</b>	<b>Guide</b>	<b>Co-guide</b>
1.	<b>Effect of oral alprazolam as pre-medication in impacted mandibular third molar tooth removal surgery under local anesthesia: an observational study</b>	Dr. Pravesh Mehra	Dr. Harmeet Singh Rehan Dr. Ekta
2.	<b>To study and compare the effect of platelet rich fibrin (PRF) with conventional healing on bone regeneration following surgical removal of impacted mandibular 3<sup>rd</sup> molar in adults</b>	Dr. Pravesh Mehra	Dr. Harmeet Singh Rehan

## **RESEARCH WORK IN THE DEPT**

### **To study and compare the effect of platelet rich fibrin (prf) with conventional healing on bone regeneration following surgical removal of impacted mandibular 3<sup>rd</sup> molar in adults**

Alveolar bone deficiency is a major complication after extraction of teeth, periodontal disease or traumatic injury leading to tooth loss. For the purpose of maintaining a healthy alveolar ridge architecture to facilitate adequate prosthetic rehabilitation various allogeneous, alloplastic and xenoplastic graft materials have been used for example- decalcified freeze dried bone graft, bovine bone, bovine collagen, platelet rich blood derivatives (platelet rich plasma-PRP, platelet rich fibrin- PRF, concentrated growth factor-CGF) etc. Our study aims to clarify the rationale behind the clinical application of platelet rich fibrin(PRF) in bone healing by reviewing the literature and outlining the observation in our basic research. The outcomes of interest for our study include bone regeneration, adverse events, pain and quality of life.

### **Effect of oral alprazolam as premedication in impacted mandibular third molar tooth removal surgery under local anesthesia: an observational study**

Most patients awaiting elective surgery experience preoperative anxiety which may cause patients to avoid a planned operation. Acute physical or psychological stress activates the HPA axis, resulting in increased serum cortisol concentrations. Surgery is one of the most potent activators of the HPA axis. Anxiety can cause white coat hypertension or other stress induced situations which further precipitate complications which may adversely influence patient recovery, as well as decrease patient satisfaction with perioperative experience. These patients may require premedication to allay anxiety. Our research aims at establishing a definitive protocol to use oral alprazolam as premedication in impacted third molar tooth removal surgery in view of paucity of data regarding the same.