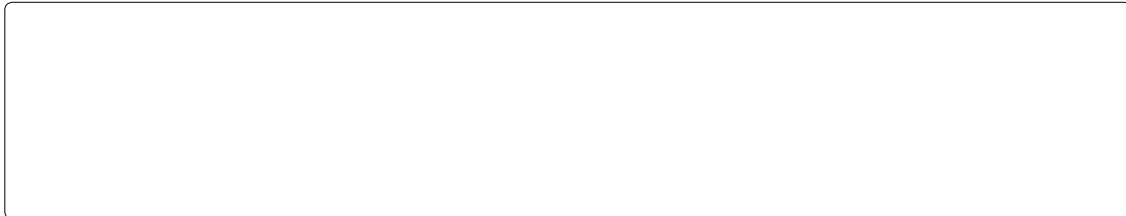


## PRF in Oral Surgery: A Literature Review

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### Introduction

Oral surgery is confronted to a diversification of interventions

### PRF and Periodontal Regeneration

The aim of periodontal therapy is to arrest and control the periodontal infection and to regenerate all tissues of the periodontium (periodontal ligament, bone, cementum, and connective tissue) [11]. Currently, the local application of growth factors, has been investigated for use in the promotion of bone healing. Platelet-rich plasma (PRP) has been an effective modality of regenerative treatment for periodontal intra-bony defects [16]. Prasad had compared the clinical and radiological effectiveness of autologous PRF gel in the treatment of intra-bony defects of chronic periodontitis patients with conventional periodontal flap surgery alone [12]. He showed a significant reduction in probing depth and clinical attachment level gain both groups (test and control group) when compared with baseline and 9 months. However, there was more probing depth reduction ( $4.56 \pm 0.37$ ) and gain of clinical attachment ( $3.69 \pm 0.44$ ) in the PRF treated group. The percentage of intra bony defect fill in the PRF group (46.92%) was higher than the conventionally treated subjects (28.66%); suggesting that the various growth factors present in the PRF may enhance regeneration [13]. Also, Panda showed that the use of PRF can be effective as a sole regenerative material, in combination with open flap debridement [15]. Lekovic et al. [13] evaluated the effectiveness of PRF membrane in promoting clinical signs of periodontal regeneration in human intra-bony defects.

### What is PRF?

Platelet-rich plasma (PRF) described by Choukroun et al. [1] is a second-generation platelet concentrate which contains platelets and growth factors in the form of plasma membranes prepared from

SODWHOHWLFLKMDKDWZHZVLWVDFWLRQRLWVVRZSRORHLVDWLRZKLFKSHPLWVWRSLFNSWKHJZWKIDFWRU  
LOLGHWKHERVHK7KHVHIDFWRVMDQGNWRDVRZHOHDVHSHPLWDORFDVWLPNDWLRQWKHKHDOLQVLPHDVZHOO

Nowadays, with the use of the PRF, the oral surgery undergoes a lot of controversies. The clinical observations are in advance in regard to the scientific evidence. In spite of the encouraging results, research are to be deepened to get a complete scientific validity.





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