

## عنوان مقاله:

Platelet-rich plasma: a promising tool in dentistry

## محل انتشار:

اولین کنگره بین المللی مهندسی بافت و پزشکی بازساختی ایران (سال: 1397)

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## خلاصه مقاله:

The goal of periodontal therapy is to protect and maintain the patient's natural dentition for his or her lifetime. Platelet-rich plasma (PRP), made from autologous blood, is used in various medical fields particularly in oral and maxillofacial surgery. The use of PRP in surgical practice could have beneficial outcomes, reducing bleeding and enhancing soft tissue healing and bone regeneration. Studies conducted on humans have yielded promising results regarding the application of PRP to many dental and oral surgical procedures (i.e. tooth extractions, periodontal surgery, implant surgery). The various growth and trophic factors present in PRP are capable of forming a fibrin clot, promoting fibroblast proliferation and up-regulating collagen synthesis in the extracellular matrix. Thus, the use of PRP at injury sites might be able to promote wound healing and the regeneration of periodontal soft tissues. Moreover, the ability of these factors to accelerate bone repair by increasing the mitosis of osteoblasts and tissue vascularity might be useful in the treatment of infra-bony defects. Bone regeneration in mandibular fractures has been shown by direct application of the PRP along the fracture lines. PRP has revealed better results in periodontal therapy in association with other materials than when it is used alone, suggesting that the specific selection of agents/procedures combined with PRP could be important.

## کلمات کلیدی:

Periodontal therapy, PRP, Cell therapy, Regeneration

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