

PLATELET RICH PLASMA

Healing comparable to none: A Case Report

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ABSTRACT

Platelet rich plasma is an autologous source of platelet derived growth factor and transforming growth factor beta that is obtained by sequestering and concentrating platelets by gradient density configuration. Periapical surgery is an important treatment alternative in the presence of a periapical inflammatory lesion. Platelet Rich Plasma (PRP) preparation is a new biotechnology and can be used in many different surgical procedures. It consists of thrombocyte concentrates and high amounts of growth factors (GFs), especially platelet derived growth factor (PDGF), insulin-like growth factor (IGF-1) and transforming growth factor (TGF-?), which are important in wound healing and regeneration. In this case report, use of PRP in conjunction with Hydroxyapatite in the treatment of periapical inflammatory lesion and the results of 1 year has been reported.



FIG 1: Preop radiograph showing the defect after obturation



FIG 3: Defect after debridement of the lesion

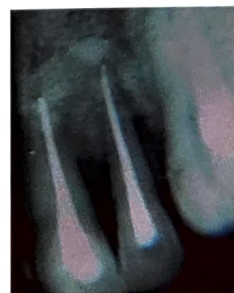


FIG 5: 16 week recall showing complete healing pattern of the defect



FIG 2: Immediate postop radiograph showing placement of graft material and PRP



FIG 4: Graft material along with PLATELET RICH PLASMA in the defect