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Does platelet rich fibrin increase stability of implants in the posterior of maxilla?

Touba Karagah
Qazvin University of Medical Sciences, Iran

Aim: The effect of Platelet-Rich Fibrin (PRF) of bone healing around dental implant in poor bone quality has not been studied. The aim of this study was to evaluate implant stability during healing with or without use of PRF in D4 bone. This is a split-mouth randomized clinical trial study.

Material & Method: Subjects who had missing teeth in the molar region of the maxilla were studied. Randomization was performed using a sealed envelope with a computer-generated random allocation for each patient to determine the side for use of PRF. In group-1, before the placement of implant, the fibrin matrix was placed in the implant site and then a fixture was inserted. In group-2, the same size implant was placed without PRF. The stability of the implants was assessed with Resonance Frequency Analysis (RFA) in two (time1), four (time 2) and six (time3) weeks after implant placement.

Result: Twenty subjects were studied. Assessment of the data showed a significant difference for RFA between group-1 and group-2 at time 1, 2 and 3 ($P<0.05$).

Conclusion: According to this study results, it seems that use of PRF may enhance post- insertion stability of dental implants during healing period in D4 bone.

aida_karagah@yahoo.com