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Manuscript Title:

Periodontally Accelerated Osteogenic Orthodontics with Platelet-rich Fibrin in an Adult Patient with Periodontal Disease: An Interdisciplinary Case Report

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Abstract:

Background: In the clinical scenario, adult patients with periodontal diseases and dental malformation, characterized by dental crowding in lower anterior teeth with the thin biotype, often require orthodontic treatment. This case report aimed to evaluate the clinical and radiographic outcomes of periodontally accelerated osteogenic orthodontics (PAOO) combined with autologous platelet-rich fibrin (PRF) in an adult patient with class I malocclusion along with dental crowding, a thin periodontal biotype, and buccal plate deficiency.

Methods: A 32-year-old female complaining of dental crowding and gingival bleeding was referred to the orthodontic clinic. The patient underwent periodontal risk assessment prior to orthodontic treatment. She was diagnosed with a high risk of gingival recession (GR) due to dental crowding, root prominence, loss of buccal plates, and a thin gingival tissue biotype. The treatment regimen included PAOO combined with autologous PRF for alveolar augmentation and interproximal enamel reduction (IPR) for moderate dental crowding.

Results: Clinically, PAOO-assisted orthodontic tooth movement (OTM) in this case showed enhanced periodontium remodeling. Radiographic outcomes also showed statistically significant improvements ($P < 0.01$) in the mandibular buccal alveolar bone.

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