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Concentrated growth factor for the treatment of intrabony defects in aggressive periodontitis with diabetic adolescents

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Background
Periodontitis is a disease which causes to the peripheral tissues' breakdown of the tooth. Regeneration of these tissues has become the most vital aim of periodontal surgery. For this situation, bone greft, syntetic materials and growth factors have been researching for years. Recently, there is a new material found and called "Concentrated Growth Factor" (CGF).
Aim
The current study was designed to evaluate the efficacy of CGF, with open flap debridement (OFD) , in treatment of infrabony defects in aggressive periodontitis with diabetic adolescents.
Method
Twelve patients with single defects were categorized into two equal treatments groups: group l: OFD alone, group ll: OFD with CGF. Clinical parameters like site Plaque Index (PI), Gingival Index (GI), Gingival Bleeding Index (GBI), Probing Pocket Depth (PPD), Relative Attachment Levels (RAL) were recorded at baseline, before surgery and 6 months post-operative. Percentage radiographic intra-bony defect depth reduction was evaluated using computer-aided software at baseline and 6th month.
Results
OFD with CGF group showed significant PD and RAL gain than OFD alone group. Group ll sites showed a significantly greater percentage radiographic defect depth reduction as comparated to Group l at 6th month.
Discussion
OFD + CGF group showed greater improvement in clinical parameters with greater percentage radiographic defect depth reduction as compared to OFD alone group in treatment of infrabony defect in aggressive periodontitis in adolescents with type 1 diabetes mellitus.
I have no potential conflict of interest to disclose