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Histomorphometric analysis for GMSCs in healthy versus inflamed and hyperplastic gingival tissue

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Objective: To detect Gingival mesenchymal stem cells (GMSCs) in tissue samples from healthy versus inflamed (chronic periodontitis) and hyperplastic (drug induced) using histomorphometric analysis.

Methods: Twenty six tissue samples from different subjects of patients in periodontics department of Stony Brook school of dental medicine, whom been divided to three different groups: Healthy (gingival tissues of crown lengthening and distal wedge), Inflamed (gingival collars of apical repositioning flaps), Hyperplastic (gingival tissue of gingivectomy surgeries). Stem cells were detected using different markers namely Oct 3 / 4, CD 105, CD 90, Nucleostatin. Cells were counted in 5 different fields and mean was calculated.

Results: Using ANOVA comparing the results of the three groups, no significant difference was found between chronic periodontitis samples and healthy, while statistical significant difference was found between hyperplastic samples and both other groups.

Conclusion: GMSCs are found in healthy as well as inflamed gingival tissues with no statistically significant difference, while drug induced hyperplastic gingival tissue show significant difference in number of stem cells, which indicated that drug induced hyperplasia may recruit and/or stimulate the division of stem cells.

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Impacted teeth dilemma in orthodontics

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Orthodontic management of impacted teeth considered from the most interesting topics in orthodontics, treatment of such cases requires comprehensive treatment plan-accurate flap design and excellent traction method, so I will give small hint about this topic, new trends in diagnosis, differences between types of flap, open versus closed traction-and the new in orthodontic mechanics, I will present many cases of my own practice,, I will deal in orthodontic traction of impacted centrals in particular and the uses of Damon brackets in treatment.

Introduction: The use of self ligating brackets (Damon) has great effect in orthodontic traction of impacted teeth, as it contains double horizontal slot so we can increase our anchorage by putting stainless rectangular wire in large basic horizontal slot and putting the other flexible wire in the second slot which responsible for the traction-this technique called double wire technique (piggy back) I will present a case treated by this philosophy, and I will deal with new tricks that facilitate traction by videos and clinical photos.

Learning Objectives:

1. Diagnostic tricks in impacted teeth
2. Open traction versus closed traction
3. How I can benefit from Damon system in impacted teeth traction
4. Traction strategy

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