USE OF COLLAGEN MATRIX TO CHANGE GINGIVAL BIO-TYPE OVER APICECTOMY; CASE REPORT



Email: dai@boneinstitute.info

OBJECTIVE

- Change in keratinized mucosa due to fistula associated with periapical granuloma may alter the outcome of apicectomy procedure.
- Aim of this study is to evaluate the possibility of use of collagen matrix (Derma® Osteobiol) to change biotype over apicectomy.

METHODS

- 32 years female patient with periapical lesion related to upper left lateral incisor exhibiting fistula in the buccal surface.
- Quality of keratinized mucosa assist photography and clinical using endodontic file.
- Surgical removal of periapical lesion was performed according to the surgical protocol after endodontic treatment for the affected tooth.
- Bony defects were augmented using bone substitute.
- * Fistula was surgically removed.

AUTHOR:

Atef Ismail Mohamed BDS, HDD, MSD, NLPD, Bone Institute, Cairo - Egypt

- Collagen matrix is fashioned to cover the defect size and surrounding area.
- * Flap suturing and antibiotic regime for 10 days.
- Clinical, photographic and radiographic evaluation follow-up extended for one year.

RESULTS

- Complete closure of fistula and thickened keratinized mucosa were observed demonstrating a change of biotype from thin biotype to a thick one maintained through one year follow-up.
- Radiographic evaluation reveals successful apicectomy procedure.

CONCLUSION

- This clinical report reveals possible change of biotype by using collagen matrix over apicectomy site.
- This provides secured media for successful apicectomy procedure.



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