



Treatment of gummy smile by surgical technique

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Abstract:

Background and objectives: Gummy smile also referred to excessive gingival display, it's an aesthetic disorder that can be managed by a variety of procedures include; modified lip repositioning surgery and botulinum toxin type-A injection. This study aimed to evaluate and compare the effect of treatment of gummy smile by surgical technique (modified lip repositioning surgery) and non-surgical technique (botulinum toxin type-A injection) 1 and 4 months after treatment.

Properties and Methods: A clinical comparative study was conducted from November 2018 to November 2019, in the Department of Periodontics / Collage of Dentistry/ Hawler Medical University, Kurdistan Region-Iraq. Forty (40) adult patients, aged 18-35 years, with a gingival display 4 mm caused by soft tissue disorders (hyperactive upper lip and short upper lip) were included in the study. Patients divided into two equal groups; Group (1): included 20 patients treated by modified lip repositioning surgery, and Group (2): included 20 patients treated by 2.5 units of botulinum toxin type-A injection. The amount of gingival display, upper lip mobility and internal lip length were evaluated after 1 and 4 months of the treatments by millimeter ruler and Autodesk AutoCAD computer program.

Results: The study showed a significant reduction in the amount of gingival display and upper lip mobility in both groups after 1 and 4 months of the treatment (P-value = 0.001) with non-significant differences between both groups after 1 and 4 months of follow up (P value > 0.05). Also, a significant reduction in the mean value of ILL



in the group (1) after 1 and 4 months of surgery (P-value = 0.001) with no significant differences in the group (2) (P-value>0.05). A significant difference was present between three times (baseline, 1 month and 4 months) in relation to gingival display and upper lip mobility in both groups and internal lip length for only the surgical group (P-values p 0.001).

Conclusion: Both modified lip repositioning surgery and botulinum toxin type-A injection techniques were effective treatment modalities for patients suffering from gummy smile after 1 and 4 months of treatments.

Keywords: Gummy Smile, Gingival Display, Upper Lip Mobility, Lip Reposition Surgery, Botulinum Toxin Type A Injection.

Biography:

Dr. Blend Ahmed Omar is currently working as a Former Dentist at Hawler Medical University / College of Medicine.