# **Journal of Dentistry Forecast**

## **Treatment of Gingival Recessions**

### EL Kholti W\* and Kissa J

Department of Periodontology, University of Hassan II of Casablanca, Morocco

## **Editorial**

Gingival recession is an oral exposure of the root surface due to an apical displacement of the gingival margin below the cemento-enamel junction [1,2]. It is a process which involves both gingival margin and the underlying bone. Thus, bone dehiscence should be present for gingival recession to occur. These deficiencies in alveolar bone may be anatomical, pathological, traumatic or iatrogenic [3]. From an epidemiologic point of view, the prevalence, the extent, and the severity of gingival recession increased with age and it is significantly more frequent in males than females [4-6]. The current evidence suggests that the etiology of gingival recession could be multifactorial and numerous factors should be taken into account in diagnosis phase. These etiological factors include anatomical conditions, bacterial plaque, periodontal diseases, tooth brushing, iatrogenic factors... [7]. Treatment of gingival recessions is indicated mainly to cover the recession defect, as well as to improve clinical attachment level and, whether needed, create or improve the keratinized tissue amount [2,7]. The main goal of the treatment of gingival recessions consists in the complete root coverage, with minimal probing depth after healing and good aesthetic appearance related to the adjacent soft tissues [7]. The increasing demand in esthetics and the need to solve related problems of gingival recessions have yielded to the development of numerous surgical procedures that allow the coverage of denuded roots [1,7]. Gingival recessions can be treated with different surgical procedures, and root coverage can be obtained irrespective of the surgical approach adopted [7]. The prognostic anticipation of clinical outcomes after surgical procedures is a complex process including numerous factors. The prognosis for a successful treatment is one of the main criteria for deciding whether or not and how to perform root coverage surgery [3]. The prognostic factors can be categorized into tree groups: defect related factors (Recession classification and size, adjacent papilla dimension, keratinized tissue...), patient related factors (Plaque control, Tooth brushing, Tobacco smoking) and operator related factors [3,8]. Hence, critical consideration and analysis of all these factors are crucial for the clinician to choose the most adequate surgical approach and to assess the predictability of root coverage. The surgical techniques used in root coverage may be categorized in pedicle flaps (Coronally Advanced Flap (CAF), Laterally Positioned Flap (LPF)), autogenous grafts (Free Gingival Graft (FGG), Connective Tissue Graft (CTG)) and regenerative procedures (Emdogain...) [1,7]. In addition, different alternatives for CTGs have been recently proposed in order to reduce morbidity due to graft harvesting (Acellular Dermal Matrix (ADM), Collagen Matrix (CM)) [7,9]. Even though no single technique could be considered better than all the others, the bilaminar technique (CAF+CTG) appears to be the most predictable approach in terms of recession reduction, complete root coverage and keratinized tissue gain and it could be considered the gold standard in root coverage for localized Miller Class I and II gingival recessions [10-17]. Regarding cases of multiple gingival recessions, additional factors may render the root coverage more difficult to achieve. These factors may include the increased avascular area, the root prominence, the reduced vascular bed, the limited blood supply... [7]. In such a case, the bilaminar technique or the modified coronally advanced tunnel technique could be considered as the predictable procedures to achieve complete root coverage [18-20].

### References

- 1. Amine K, El Kholti W, Mortaziq A, Kissa J. Root coverage: Prognostic factors and surgical techniques. Rev Stomatol Chir Maxillofac Chir Orale. 2016; 117: 403-410.
- 2. Chambrone L. Evidence based periodontal and peri-implant plastic surgery. A clinical roadmap from function to aesthetics. 2015.
- 3. Zuhr O, etHurzeler M. Plastic-esthetic periodontal and implant surgery. A microsurgical approach. 2012.
- 4. Albandar JM and Kingman A. Gingival Recession, Gingival Bleeding, and Dental Calculus in Adults 30 Years of Age and Older in the United States. 1988-1994. J Periodontol. 1999; 70: 30-43.
- 5. Kassab MM, Cohen RE. The etiology and prevalence of gingival recession. J Am Dent Assoc. 2003; 134:

ISSN 2643-7104

**OPEN ACCESS** 

\*Correspondence:

EL Kholti Wafa, Department of

E-mail: welkholti@gmail.com

Received Date: 04 Dec 2017

Accepted Date: 15 Jan 2018

Published Date: 26 Jan 2018

Citation: EL Kholti W, Kissa J. Treatment of Gingival Recessions. J

Dent Forecast. 2018; 1(1): 1003.

of Casablanca, Morocco.

Tel: +212677874671

Periodontology, University of Hassan II

the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Copyright © 2018 EL Kholti W. This is

an open access article distributed under

1

#### EL Kholti W, et al.

220-225.

- Susin C, Haas AN, Oppermann RV, Hangerjirden O, Albanadar JM. Gingival Recession: Epidemiology and Risk Indicators in a Representative Urban Brazilian Population. J peridontol. 2004; 75: 1377-1386.
- Zucchelli G, Mounssif I. Periodontal plastic surgery. J Periodontol. 2015; 68: 333–368.
- 8. de Sanctis M, Clementini M. Flap approaches in plastic peri- odontal and implant surgery: critical elements in design and execution. J Clin Periodontol. 2014; 41: S108-122.
- Amine K, El Amrani Y, Chemlali S, Kissa J. Alternatives to connective tissue graft in the treatment of localized gingival recessions: A systematic review. J Stomatol Oral Maxillofac Surg. 2017; 30: 154-154.
- Cairo F, Pagliaro U, Nieri M. Treatment of gingival recession with coronally advanced flap procedures: a systematic review. J Clin Periodontol. 2008; 35: 136–162.
- Chambrone L, Sukekava F, Araujo M, Pustiglioni F, Chambrone, Lima LA. Root-Coverage Procedures for the Treatment of Localized Recession-Type Defects: A Cochrane Systematic Review. J Periodontol. 2010; 81: 452-478.
- 12. Buti J, Baccini M, Nieri M, La Marca M, Pini-Prato GP. Bayesian network meta-analysis of root coverage procedures: ranking efficacy and identification of best treatment. J Clin Periodontol. 2013.
- Zucchelli G, Mounssif I, Mazzotti C, Stefanini M, Marzadori M, Petracci E, Montebugnoli L. Coronally advanced flap with and without connective tissue graft for the treatment of multiple gingival recessions: a comparative short- and long-term controlled randomized clinical trial. J Clin Periodontol. 2014; 41: 396–403.

- 14. Cairo F, Nieri M, Pagliaro U. Efficacy of periodontal plastic surgery procedures in the treatment of localized gingival recessions. A systematic review. J Clin Periodontol. 2014.
- Tonetti MS, Jepsen S. Clinical efficacy of periodontal plastic surgery procedures: Consensus Report of Group 2 of the 10<sup>th</sup> European Workshop on Periodontology. J Clin Periodontol. 2014; 41: S36–S43.
- 16. Tatakis DN, Chambrone L, Allen EP, Langer B, McGuire MK, Richardson CR, et al. Periodontal soft tissue root coverage procedures: a consensus report from the AAP Regeneration Workshop. J Periodontol. 2015; 86: S52-55.
- Chambrone L, Tatakis DN. Periodontal soft tissue root coverage procedures: a systematic review from the AAP Regeneration Workshop. J Periodontol. 2015; 86: S8-51.
- Aroca S, Keglevich T, Nikolidakis D, Gera I, Nagy K, Azzi R, et al. Treatment of class III multiple gingival recessions: a randomized-clinical trial. J Clin Periodontol. 2010; 37: 88–97.
- 19. Aroca S, Molna\_r B, Windisch P, Gera I, Salvi GE, Nikolidakis D, et al. Treatment of multiple adjacent Miller Class I and II gingival recessions with a Modified Coronally Advanced Tunnel (MCAT) technique and a collagen matrix or palatal connective tissue graft: a randomized, controlled clinical trial. J Clin Periodontol. 2013; 40: 713–720.
- 20. Bherwani C, Kulloli A, Kathariya R, Shetty S, Agrawal P, Gujar D, et al. Zucchelli's technique or tunnel technique with subepithelial connective tissue graft for treatment of multiple gingival recessions. J Int Acad Periodontol. 2014; 16: 34-42.