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Evaluation of clinical efficacy of amniotic membrane, collagen membrane and connective tissue graft in correction of gingival recession

Introduction & Aim: Gingival recession is among one of the most common periodontal conditions affecting large number of patients. The most common etiological factors are periodontal diseases, mechanical forces like faulty tooth brushing, high frenum attachment, trauma from occlusion, iatrogenic factors like orthodontic tooth movement, poor restoration and some anatomic conditions. In this study a comparative evaluation of amniotic membrane, collagen membrane and connective tissue graft was done for the treatment of gingival recession.

Materials & Methods: A total of 21 patients were enrolled in the study after obtaining informed consent. 7 patients were randomly allocated in three groups, amniotic membrane, collagen membrane and sub-epithelial connective tissue was respectively applied for the corrective surgery. The clinical outcomes were evaluated using plaque index, gingival index, recession depth, width and probing pocket depth with keratinized mucosa.

Results: The results showed that amniotic membrane, collagen membrane can be used as an alternative material for correction of gingival recession. No significant difference was observed in the clinical parameters in all the three groups. All groups showed an overall improvement by reduction in the recession depth and width. A gain in clinical attachment level with keratinized gingiva was observed in all the groups.

Conclusion: Amniotic and collagen membrane can be used as a good clinical alternative for correction of gingival recession. The clinical outcomes observed were at par (comparable) with the gold standard sub-epithelial connective tissue graft.

Biography

Nand Lal passed BDS from King George's Medical College, Lucknow in 1991. Completed his MDS from King George's Medical College, Lucknow in 1996. Worked as a faculty member in Sarjug Dental College, Darbhanga, Bihar from 15th March, 1997 to 14th March, 2002 (forenoon). Joined as Assistant Professor in King George's Medical College, Lucknow from 14th March 2002 (afternoon) to 13th March, 2006. Promoted to Associate Professor on 14th March 2006 and remained till 24th March, 2011. Promoted to Professor, from 25th March 2011 to till date. Became Head of Department from 1st July 2016 to till date. Has more than 25 National and International Publications. Has attended more than 50 National conferences and workshops. Has presented my research paper in San Antonio, USA on 14th November 2017 in American World Dentistry 2017 held from 13-14 November 2017. Has completed 2 years Research Project in 2015 from DST (Department of Science and Technology, New Delhi India). Has been the Examiner and Paper Setter for most of the universities in India for MDS, BDS and Dental Hygienist. Has guided more than 10 Thesis as Chief Guide. Has been Co-guides in more than 25 MDS and MD Thesis. Has been as an expert for faculty selection in various reputed institutions including R.I.M.S. Ranchi, UP Institute of Medical Sciences Saifai Etawah, Aligarh Muslim University Aligarh, and All India Institute of Medical Sciences, New Delhi India. Working as Additional Proctor, in King George's Medical University, UP Lucknow.

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