بسم الله الرحمن الرحيم

∞∞∞∞

تم رفع هذه الرسالة بواسطة /صفاء محمود عبد الشافى

بقسم التوثيق الإلكتروني بمركز الشبكات وتكنولوجيا المعلومات دون أدنى مسئولية عن محتوى هذه الرسالة.

ملاحظات: لايوجد

“The use of Perforated Barrier Membranes and IPRF Nano-micro Sticky Bone in Horizontal Alveolar Ridge Augmentation” (Controlled Clinical and Histomorphometric Study)

Thesis

Submitted to Faculty of Dentistry, Oral Medicine, Periodontology, oral Diagnosis and Radiology Department
for partial
fulfillment of Doctor degree in Periodontology

Submitted by:

Marwan Farahat Antar

MSc Ain Shams University 2016
B.D.S Cairo University 2010

Faculty of Dentistry - Ain Shams University
2022

Supervisors

Prof. Dr. Ahmed Yousef Gamal

Professor of Oral Medicine, Periodontology, Oral Diagnosis and Radiology, Faculty of Dentistry, Ain Shams University. Vice Dean of post graduate studies, Faculty of Dentistry, October 6 University

Prof. Dr. Ehab Saeed Abd Elhamid

Professor of Oral pathology, Faculty of Dentistry, Ain Shams University. Dean of Faculty of Dentistry, Badr University

Ass. Prof. Dr. Mohamed Sherif Elmofty

Associate Professor of Oral Medicine, Periodontology, Oral Diagnosis and Radiology, Faculty of Dentistry, Ain Shams University. Vice Dean of Faculty of Dentistry, Nahda University

Dr. Fatma Hamed Mohammed El-Deemrdash

Lecturer of Oral Medicine, Periodontology, Oral Diagnosis and Radiology, Faculty of Dentistry, Ain Shams University

Faculty of Dentistry - Ain Shams University

2022

سورة البقرة الآية: ٣٢

Acknowledgment

First of all I would like to show my full gratitude to Allah for giving me the strength and knowledge to complete this journey.

My greatest gratitude is also for the great professor ***Prof. Dr. Ahmed Yousef Gamal-*** *ViceDean of post graduate studies, Faculty of Dentistry, 6th of October University. Professor of Oral Medicine, Periodontology, Oral Diagnosis and Radiology Department, Faculty of Dentistry, Ain Shams University, for his support and knowledge that he gave me through the period of this study, it's my pleasure to work and learn under his supervision.*

My great gratitude ***to Prof. Dr. Ehab S. Abd Elhamid-*** *Dean of Faculty of Dentistry, Badr University. Professor of Oral pathology Department, Faculty of Dentistry, Ain Shams University, for helping me and giving me the due time and efforts throughout all the steps of this work both practically and theoretically.*

I am deeply thankful for ***Ass. Prof. Dr. Mohamed Sherif Elmofty-*** *Vice Dean of Faculty of Dentistry, Nahda University. Associate Professor of Oral Medicine, Periodontology, Oral Diagnosis and Radiology Department, Faculty of Dentistry, Ain Shams University, for his patience and help to me during the work of this thesis, working with him added much value to the work.*

Great thanks should be also addressed to ***Dr. Fatma Hamed Mohammed El-Deemrdash****- Lecturer of Oral Medicine, Periodontology, Oral Diagnosis and Radiology Department, Faculty of Dentistry, Ain Shams University, for her efforts and for helping me greatly to complete and achieve such success in this work.*

Marwan Farahat Antar

Dedication

I do dedicate this work to My Father, My Mother and My dearest Sisters. Thank you for always being by my side & for helping me through all my life steps. I owe you all the success of this work

Abstract

Purpose

Clinical and radiographic studies were used to examine the amount of horizontal bone gain 4 months following alveolar ridge augmentation using IPRF Nano-micro Sticky Bone with perforated collagen membrane against occlusive barrier membrane.

Methods

The study represents an observational analytic randomized Case controlled study of twenty patients having Horizontal alveolar ridge defect, where augmentation was done for them by using IPRF Nano-micro Sticky Bone. Patients were divided randomly into two groups. Randomization was performed by using coin flip method. Each Group included ten patients, (Group 1) had horizontal alveolar ridge augmentation using IPRF Nano- micro Sticky Bone with occlusive collagen membrane, while (Group 2) had a horizontal alveolar ridge augmntation using IPRF Nano-micro Sticky Bone with perforated collagen membrane. A radiographic assessment using CBCT, as well as a clinical assessment, was done for both groups after a follow up period of 4 months. The study was approved by the ethics and research committee of the Faculty of Dentistry, Ain Shams University.

Results

1) Both Perforated collagen and occlusive membranes in association with nano micro sticky bone showed a significant improvement in horizontal alveolar ridge augmentation.

2) A slight bone reduction in the two studied groups was observed after the 4 months follow up, in comparison to post-operative readings. Those differences were found to be statistically highly significant. The mean percent of bone reduction for perforated membrane was lower than that for non-perforated membrane group during follow up. That difference was also found to be statistically significant.

Keywords:
Horizontal bone augementation, collagen membrane, perforated membrane, iprf, sticky bone, Nano hydroxyapatite, micro nano bone

List of Contents

List of Tables

List of Figures

List of Figures

List of Figures

List of Figures

List of Figures

List of Figures