

Implant Placement in Deficient Esthetic Zones without Bone Graft

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Objectives: The objective of this study is to show our clinical experience through which we obtained very satisfying durable esthetic results for different critical clinical situations of bone deficiency in esthetic zones without going through sophisticated, long, painful and costly procedures of ridge management like bone grafting, ridge preservation and distraction osteogenesis.

Materials & Methods: Our clinical study comprised 98 implants placed on 60 patients in sites with bone deficiency in the anterior zones of the maxilla and mandible. Proper Implant Selection (Macro-Geometric Design, Size and Number), Appropriate Surgical Approach and Procedure using the Manual Atraumatic Bone Appreciation Osteotomy (esthetic osteotomy) preparation, Proper Implant Orientation and Subcrestal Position, Adapted Prosthetic Restoration specially with the use of integrated abutment crowns are factors we took into consideration to avoid pre-operative ridge management and bone augmentation procedures, with 3 years follow-up. Cases with sites without bone deficiency were excluded. Xenografts were used simultaneously in a few cases to give hard and soft tissue support, yet implants osseointegration was independent from the grafting material.

Results: When following our proposed Minimally Invasive Esthetic Concept in sites with bone deficiency, survival rate of 95.9% and a success rate of 100% were reported.

Conclusion: Satisfying esthetic results in sites with bone deficiency can be obtained without pre-operative ridge management procedures. We highlight the significance of implant design, implant orientation and subcrestal position, surgical approach and procedure, and finally adequate prosthetic restoration and fixation; all these elements clinically proved their efficiency to overcome going through long, complicated, risky, painful, and costly procedures. Thus achieving the Minimal Invasive Implantology and shifting the conventional "Restoration-Driven Implant Placement" concept towards "Surgical-Driven Implant Placement".

Biography:

Dr. Kadhim Al Himdani completed B.D.S. Dental College, Baghdad University, Ph.D. Dental Science Oral Implantology University of Paris VII M.Sc. Paediatric Surgery, Medical College (Paris VII), M.Sc. Oral Surgery University (Paris VII). Member of French National Academy of Dental Surgery, Oral Implantologiste, Consultant Maxillofacial Department of Paris Hospitals (Cochin & Bretenneau Hospitals), Lecturer for M.Sc. of Surgical & Prosthetic Implantology (Paris V)