Advance in Soft and Hard Tissue Regeneration: Introducing the Made to Measure Surgery Concept Using 3D Printing Technology

PROGRAM DESCRIPTION:
Vertical and horizontal ridge augmentation in the posterior and anterior jaws, has represented a significant challenge. The use of titanium mesh housing 100% allograft on a deficient alveolar ridge is proving to be a valid and predictable technique providing the biological parameters sufficient for pre-implant periodontal, hard- and soft-tissue support for a functional prosthesis. Clinical adversities will be discussed, including anatomical limitations, which are inherent in securing a rigid non-resorbable membrane in order to maintain the space for the success of allograft. Three dimensional printing of the bony and dental anatomy allows for visualization and tactile examination, without the presence of the patient, and has shown to be a significant advantage that ameliorates these clinical challenges.

PROGRAM OBJECTIVES:
At the completion of the program, participants should be able to:
- Identify clinical situations where the use of titanium mesh to augment deficient alveolar ridges may be indicated.
- Describe ideal soft-tissue flap design for space maintenance.
- Review the challenges that may be encountered when augmenting the pre-maxilla.
- Understand how three dimensional printing may be advantageous for addressing the clinical challenges inherent to augmentation procedures.

Giuseppe Cicero, DDS
Dr. Giuseppe Cicero graduated from the University of Tor Vergata in Rome. He then spent his 4th year of dental school in the University of Valencia, Spain in the oral surgery and aesthetics department. Following graduation, Dr. Cicero practiced for 1 year as a general dentist in his family’s offices in Rome, Palermo and Marsala. He then graduated from the NYU Post-Graduate Periodontics Program. Dr. Cicero has done extensive research on dental pulp stem cells and bone regeneration and has developed novel clinical protocols for soft- and hard-tissue regeneration in the aesthetic zone introducing the application of 3D printing technology in Guided Bone Regeneration. He has lectured throughout the United States, Italy and Spain. Dr. Cicero has published articles on periodontal soft- and hard-tissue grafting and other subjects as well as a book on the topic of dental pulp stem cells.

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