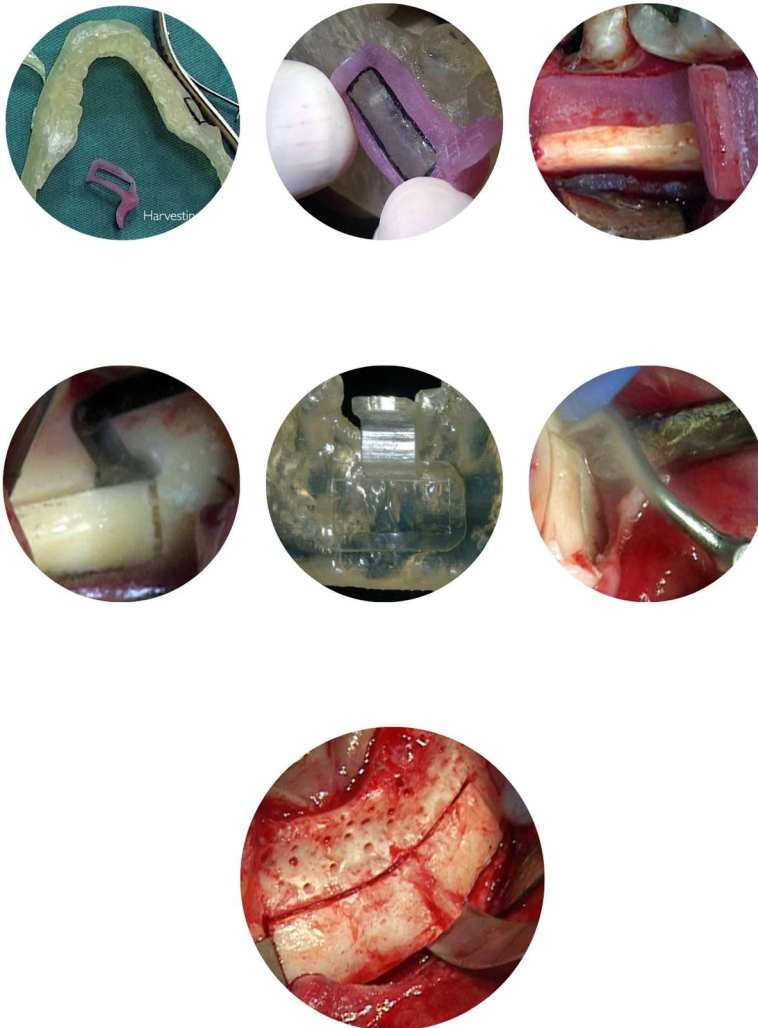


ESACROM R&D DEPT.

PRESENTS

# GUIDED OSTEOTOMY & BONE HARVESTING KIT

By **Dr. Marco Rinaldi**

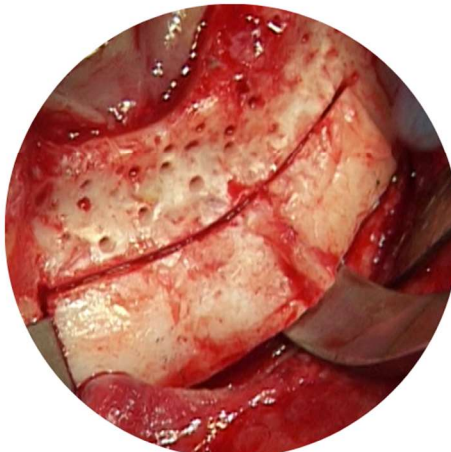
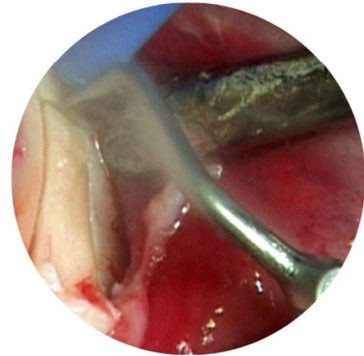
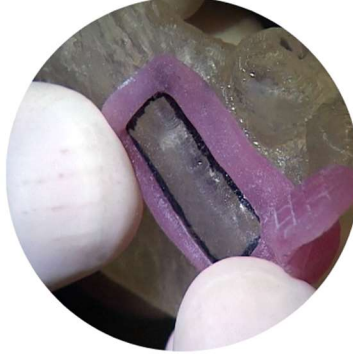


## INTRODUCTION

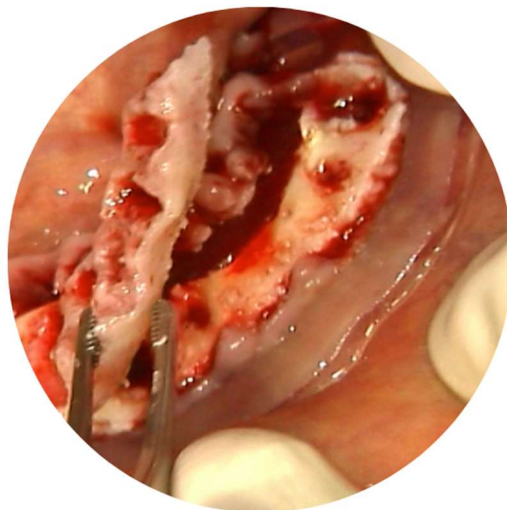
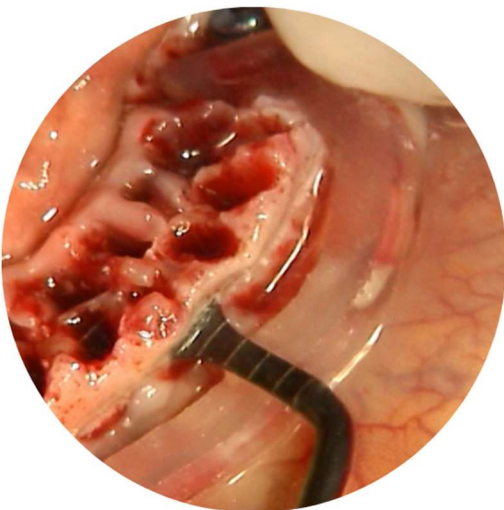
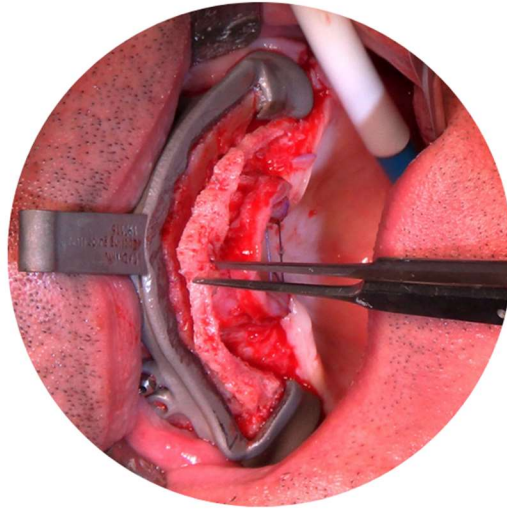
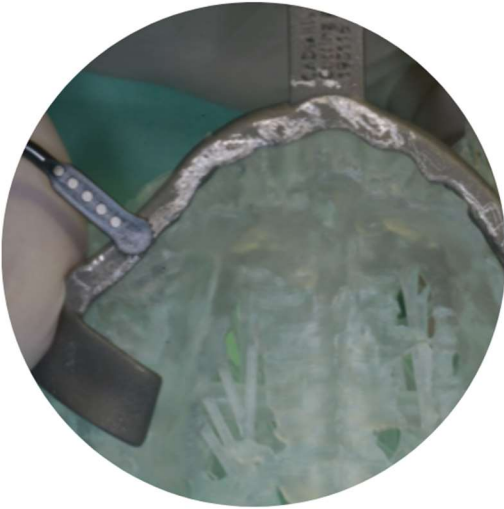
Study with CT - 3D images and a three-dimensional view of anatomy are necessary to properly plan many surgeries. Today we can use software, stereolithography models and surgical guides to perform many surgeries more accurately and safely. We have published specific protocols (Ganz-Rinaldi Surgical Protocols Using 3D Technologies, Elsevier 2009-2016) that provide for the use of specific surgical guides (Sinus Lifting Guide, Harvesting Guide, Zygomatic Surgical Guide) for the execution of sinus floor elevations (Sinus Augmentation Lateral Approach Protocol) for bone sampling (Harvesting Protocol), for reconstructive surgery (Reconstructive Surgery Protocol), for zygomatic implantology (Zygomatic Implants Protocol). Piezoelectric instruments are essential for the execution of these protocols as they allow you to easily follow the cutting guides and perform very precise guided osteotomies. For this reason we have organized specific surgical kits for these techniques: Guided Lateral Sinus Elevation Kit, Guided Osteotomy & Bone Harvesting Kit, Short Implants Kit.



# CLINICAL CASE: GUIDED BONE HARVESTING



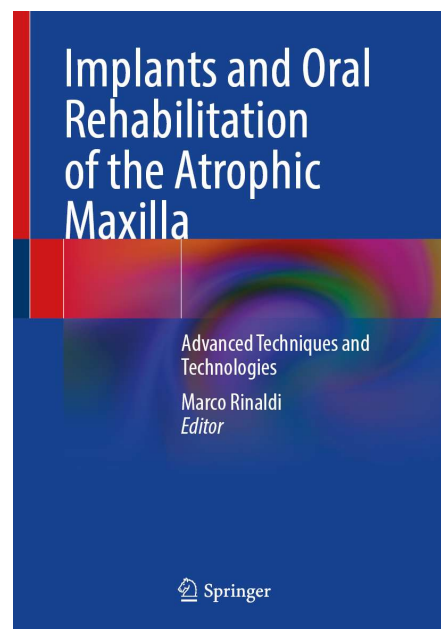
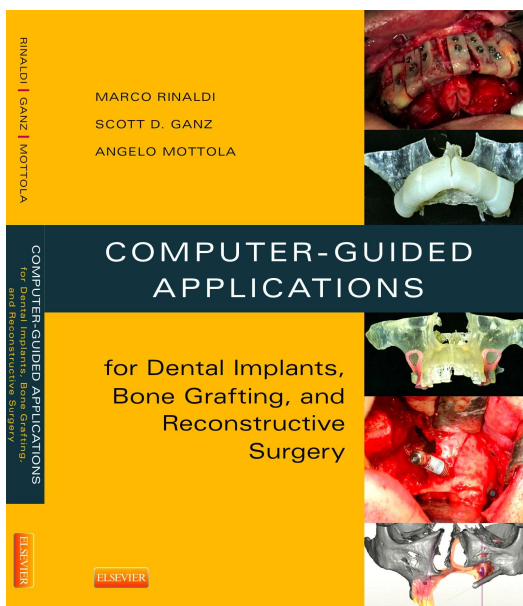
## CLINICAL CASE: GUIDED OSTEOTOMY



## Guided Osteotomy and Harvesting Protocol

From CT images, it is now possible to plan guided osteotomies to eliminate a knife edge crest and be able to insert implants, or modify the bone bases to create a more favorable anatomy for patient-specific subperiosteal implants (PSI) or even to plan bone samples and perform grafts. The planning to the software or directly on the stereolithographic model allows to define precise osteotomic lines and create surgical guides to carry out osteotomies in a guided way respecting the air cavities, nerve structures and surgical planning. We can use Harvesting Guides to take bone blocks from the body-branch or from the mandibular symphysis. We can use osteotomic guides (Osteotomy Guide) for vertical and horizontal bone reductions. Using surgical guides in combination with piezoelectric inserts designed to cut the bone we can perform very thin bone cuts and very precise osteotomies in compliance with the presurgical planning and anatomy of the patient.

## BOOKS



## DEDICATED TIPS

|  |  |  |
|--|--|--|
| ES007W1T   | ES007RT  | ES007LT  |
|   |   |   |
| ES009SFT   | ES015T   | ES007L5T   |
|  |  |  |

## PARAMETERS

|                  | ES007W1T | ES007RT | ES007LT | ES009SFT | ES015T | ES007L5T |
|------------------|----------|---------|---------|----------|--------|----------|
| <b>U</b>         | 40       | 40      | 40      | 40       | 40     | 40       |
| <b>V</b>         | 80       | 80      | 80      | 80       | 80     | 80       |
| <b>P</b>         | 100      | 100     | 100     | 100      | 100    | 100      |
| <b>MAX POWER</b> | 70       | 50      | 50      | 50       | 50     | 50       |

U: Suggested power

V: Suggested vibra

P: Suggested water pump

MAX POWER: Maximum power at which the insert can be used

## DR. MARCO RINALDI



Surgeon, specialist in odontostomatology. He has participated in international studies and research for the optimization of computer-guided surgery and for the use of stereolithographic models in pre-implant reconstructive surgery. Past-President Computer Aided Implantology Academy (CAI Academy) Past-President SimPlant Academy. Active Member International Academy for Digital Dental Medicine (IADDM), Active Member of the Italian Society of Odontostomatological Surgery, Life Member Academy of Osseointegration (AO), Honorary Member CAI Academy.

Member of the Editorial Board of some specialized journals.

Speaker at national and international congresses, in Italy and in many foreign countries.

Lecturer at university masters at various universities and author of numerous scientific publications and some books including: Computer Guided Applications for Dental Implants, Bone Grafting and Reconstructive Surgery, Elsevier USA (2015) published in English, Chinese and Spanish.

Implants and Oral Rehabilitation of the Atrophic Maxilla – Advanced Techniques and Technologies, Springer (2022).

He works as an Oral Surgeon at his own practice and at the Villalba Private Clinic (GVM Care & Research) in Bologna

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