Modular Bone Augmentation (MBA): evidence-based concepts & new tools for Guided Bone Regeneration

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Modular Bone Augmentation (MBA Protocol)

Patients with atrophic alveolar bone have a variety of different presentations, including vertical versus horizontal atrophy, anatomic features such as flat vs sloped defect walls or concavities, various bone density (eg cortical vs cancellous bone). Each of these features can affect the efficacy of bone augmentation, either in a favorable or unfavorable manner. The oral location (posterior vs anterior maxilla, post vs anterior mandible) requires special considerations. Therefore, the approach utilized needs to thoroughly analyze and classify the site and patient characteristics in order to select an appropriate technique, material and protocol. Another consideration is the potential of complications for the selected protocol and a risk assessment to determine the likelihood of encountering negative outcomes, based on patient features. Modular Bone Augmentation (MBA) refers to an approach, which is based on the convergence of several components required for successful bone regeneration. MBA will employ different components based on requirements of individual patient and site. The components of MBA include 1) Scaffold, 2) osteogenic cells, 3) osteogenic signals, 4) blood supply, 5) wound stabilization and 6) Primary coverage. The application of MBA to regeneration of alveolar bone and mucosa in will increase the likelihood of successful outcome and reduces the potential for complications.

EDUCATIONAL OBJECTIVES

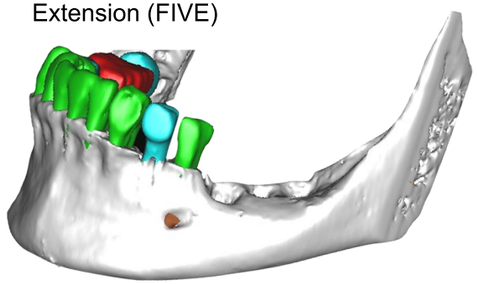
- Classification of alveolar ridge deficiencies
- Risk Assessment: Patient and site characteristics
- Management of patient/site risks
- Evidence on efficacy of GBR and other techniques
- Biology of wound healing of GBR
- Material Selection:
  - Autogenous: methods &location of harvesting
  - Xenograft: is sintering temperature important?
  - Allograft (freeze dried vs solvent dehydrated)
  - Allograft (mineralized vs demineralized)
  - Alloplast (HA, TCP, biphasic)
- Platelet Rich Fibrin (PRF):
  - biology,
  - protocol,
  - liquid PRF, solid matrix PRF,
  - applications
- Membrane selection:
  - Resorbable vs non-resorbable
  - Cross-linked vs native collagen
- Fixation screw system:
  - MODfixUNIfix
  - Tenting screws
  - Membrane fixation
- Piezosurgery
- Flap design: achieving low-tension flap
- Suture techniques: to prevent graft exposure
- Graft and membrane stabilization
- Decortication
- Soft tissue management:
  - connective tissue graft;
  - Free gingival graft
  - Xenogenic collagen matrix, allograft
  - Fibrin Immobilization Vestibular Extention (FIVE)
- Complications

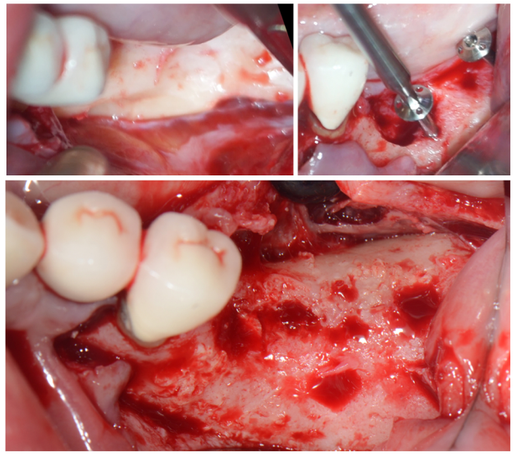
Pre- and post-operative Care:

- Antibiotics & Antiseptics
- Anti-inflammatory agents
- Supplements

Live Interactive Hands-on Workshop simulated Excercises

- MBA Guided bone regeneration
- Flap design:
  - Periosteal release
  - Lingual flap management
  - Vertical releasing incision
- Autogenous bone harvesting
- Membrane fixation
- Fixation system:
  - MODfixUNIfix
  - Tenting screws
  - Membrane fixation
- Suture techniques: to prevent graft exposure
- Graft and membrane stabilization
- Decortication
- Soft tissue management:
  - Biomaterial use: xenograft & allograft
  - Fibrin/collagen Immobilizarion Vestibular Extension (FIVE)





EDUCATIONAL FORMAT: on-demand online course

- All lectures and “hands-on workshop simulated excercises” are available online and can be accessed on-demand.
- All materials for hands-on workshops will be shipped to allow clinicians to follow the clear simulated excercises at home/office.
- Questions will be answered promptly by faculty.

CE units: 8 hours

Tuition: $695

Registration includes:

- On-demand access to online didactic and hands-on workshop simulted exercises.
- 2-way shipping of all workshop material, including:
  - Simulation model
  - Instruments
  - All material needed to conduct simulted exercises

Workshop material return policy:

- Credit card authorization for $1500 will be obtained but no charges will be submitted, provided instruments are shipped to VISTA Institute within 14 days after receipt by registrant
- $100 charges will be made thereafter for every week of late shipment of workshop material.
- If instruments are not shipped back to VISTA Institute within 6 weeks after receipt by registrant, $1500 will be charged.
- Charges may be applied for missing non-consumable items.

Cancellation policy:

- Prior to shipment of course material, tuition refund is subject to $50 processing fee.
- After shipment of course material, tuition refund is subject to $200 processing fee, if course material are received back at VISTA Institute within 14 days and online lectures were not accessed.

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