

DAY 1

BONE, RIDGE & SOCKET GRAFTING

LEARNING OBJECTIVES

Day 1 consists of all day interactive lectures.

- Treatment planning and patient selection for grafting procedures
- Concepts and techniques in bone grafting from incision to suturing
- Extraction site management: immediate versus delayed implant placement with bone & soft tissue grafting
- The vertical and horizontal aspects of ridge augmentation
- The optimal selection of implant design, surface and position
- Treatment planning for esthetic cases and the development of gingival papilla support
- New technology using growth factors
- Implant complications, possibility of treatment and prognosis

INTERACTIVE LECTURE (1/2 Day)

Biological and clinical aspects of advanced implant and bone reconstruction including the key elements for esthetic success will be discussed along with steps to manage the patient and the implant site.

INTERACTIVE LECTURE with TREATMENT PLANNING (1/2 Day)

Vertical and horizontal aspects of ridge, bone and extraction site augmentation. The quality and quantity of existing bone within the implant site will be examined, and a variety of augmentation approaches will be addressed, including:

- Potential intra-oral donor sites, as well as techniques for harvesting such sites
- Bone filler materials and rhBMP-2 growth factors
- Resorbable and non-resorbable membranes for localized ridge augmentation
- Growth factor protocol and results

BONE, RIDGE & SOCKET GRAFTING

LEARNING OBJECTIVES

Day 2 consists of Live Surgery & Hands-On Workshop on porcine mandible model.

- Clinical solutions to biological bone regeneration and socket grafting
- Potential intra-oral donor sites, as well as techniques for harvesting such sites
- Decision making based on outcome of available soft tissue protocols
- Immediate extraction site techniques with internal grafting for maximum tissue preservation
- Prosthetic steps to assist in grafting and implant procedures for the clinician
- Learn the use of biomaterials and growth factors with autogenous bone and barrier membranes

LIVE SURGERY OBSERVATION (1/2 Day)

During this 4-hour session 2 live surgery cases will be demonstrated. The first case is a posterior case for ridge and sinus augmentation purposes. The second case is an anterior esthetic case where details for optimal implant placement and site development will be demonstrated. The live surgery session is video taped through a high-quality macro 2-camera angle and a live audio feed for interaction between participants and the clinical team.

HANDS-ON PORCINE LABORATORY (1/2 Day)

Participants will practice on mandible porcine models, with the latest implant designs, microsurgical hand instruments, bone tacks, bovine filler materials and resorbable, membranes and rhBMP-2 growth factors with ti-mesh. The training treatments will be:

- Horizontal ridge augmentation with simultaneous implant placement, layered bone graft with resorbable membrane placement & fixation sutures
- Horizontal ridge augmentation with resorbable membrane placement, bone tacks & 1:1 ratio mixed Xeno/Auto bone graft
- Vertical ridge augmentation with titanium reinforced PTFE cytoplast membranes, bone screws & 1:1 ratio mixed Xeno/Auto bone graft

SOFT TISSUE MANAGEMENT & GRAFTING

LEARNING OBJECTIVES

Day 3 consists of 1/2 Day Interactive Lecture and 1/2 Day Hands-On Workshop on porcine maxilla models.

- Identify advantages and disadvantages of various surgical approaches
- Flap Design, Flap Management and Suturing Methods
- Augmentation of Keratinized Tissue
- Augmentation of Soft Tissue Volume
- Complications and Compromised Attempts
- Abutment Design Modifications
- Perio-Implant Papilla Support

INTERACTIVE LECTURE (1/2 Day)

Biological and clinical aspects of advanced soft tissue surgical techniques including the key elements for esthetic success.

- Flap Design, Flap Management and Suturing Methods
- Augmentation of Keratinized Tissue
- Augmentation of Soft Tissue Volume
- Complications and Compromised Attempts
- Soft Tissue Autografts and Allografts
- Abutment Design Modifications
- Perio-Implant Papilla Support

HANDS-ON LABORATORY WITH MAXILLA MODEL (1/2 Day)

Participants will practice on fresh porcine maxilla models, with the latest implant designs, microsurgical hand instruments, bovine filler materials, resorbable and non-resorbable sutures, and dermal allograft.

- Full and Partial Thickness Flap Management
- Apical Repositioned Flap and Soft Tissue Graft Harvest
- Tunneling Procedure and Graft Placement
- Soft Tissue Autograft and Allograft Management
- Suturing Methods
- Growth-factor Application

SINUS ELEVATION & GRAFTING

LEARNING OBJECTIVES

Day 4 consists of 1/2 Day Interactive Lecture and 1/2 Day Hands-On Workshop on goat maxilla models.

- Learn to perform sinus elevation surgery predictably
- Identify the clinical and practical benefits of minimally invasive osteotome sinus elevation
- Learn the technique for performing highly predictable lateral window surgery
- Identify a biological protocol using graft materials for sinus elevation
- Learn how to prevent and treat complications
- Peri-implantitis incidence, etiology and management

INTERACTIVE LECTURE (1/2 Day)

A critical viewing of biological and clinical aspects of sinus elevation techniques including the key elements for implant success will be presented.

- Patient Selection and CT-Diagnosis
- Flap Management, sinus elevation techniques, and suturing methods
- Decision making and clinical protocol in osteotome versus Lateral window approach
- Bone Grafting layering protocol with autograft, Xenograft and barrier membrane
- New technology grafting protocol using growth factors and bone fillers
- Choice of implant system for sinus cases and when to stage the sinus bone graft
- Diagnosis of problems and management of sinus complications

HANDS-ON LABORATORY WITH GOAT MAXILLA MODEL (1/2 Day)

Participants will practice on fresh goat maxilla models, with the latest implant designs, microsurgical sinus hand instruments, osteotome instruments, bovine filler materials and resorbable membranes and rhBMP-2/INFUSE bone graft.

- Lateral window approach using bone-cutting instruments
- Lateral window approach using Piezo Surgery
- Internal sinus elevation using Osteotome techniques
- Internal sinus elevation using Piezo Surgery
- Bone graft layering technique with barrier membrane
- Sinus perforation treatment & repair