AAID Maxi-Course- Boston

Harvard Club of Boston

2019-2020

Module 1

October 4-6, 2019

The Scope of Implant Dentistry

Brian J. Jackson, DDS

-Course overview and objectives
-Diagnosis and treatment planning

- **Case presentations**- basic surgical and restorative concepts

-Single unit
-Multi-unit
-Full Arch

Removable -OV-CDI
Removable- OV-SDI

Fixed:

- Abutment / ceramic metal
-FD- Fixed Detachable

Principles of Oral Implantology and Surgery

- Define Osseo integration- clinically/histologically
- Discuss socket grafting rational and protocols
- History of dental implants
- **How to become an expert GP?**
- **Introduction to "Dental Campus" online learning**
- Indications for dental implants "Town Meetings"- Practice management
- **Lunch and Learn- Tx planning session**
- Basic endosseous root form surgical principles
- Instrumentation
- Consent forms
- Post/Pre-Operative instructions
- **Videos**

- Site preservation- socket grafting- Saturday, October 5th

Hands on:

- **Basic endosseous root form techniques- Sunday October 6th- Single Posterior Implant**
  Saturday, October 5th

Objectives:

At the end of the module, the participants will:

- Comprehend the scope of implant dentistry through extensive case presentations
- Be able to understand the biological, histological and clinical concept of osseointegration
- Learn the history of dental implants
- Learn basic concepts for endosseous implant surgery and prosthetics
- Be able to perform initial diagnostic records
- Perform "hands on" model surgery for endosseous implant surgery and socket grafting
- Understand pre and post-operative instructions associated with implant surgery
- Comprehend diagnostic, case treatment sequences and decision trees for fixed and removable implant treatment

Module 2

November 22-24, 2019

Brian J. Jackson, DDS

-Neurological sheet
-Single tooth replacement
-Implant surgery –staging (1st/2nd stage surgery)
-Prosthetic aspect- Protocol, materials and instrumentation

-**Videos**

-Case presentation- Fixed and Removable Approach

Pharmacology and Platelet Concentrates for the Implant Patient

James Rutkowski, DMD
Diplomate- ABOI/ID
Fellow- AAID

Topics:

1. Scientific basis for platelet concentrates (PRP/PRF)
2. Management of Medical Emergencies
3. Pharmacology for Dental Patient
4. Pre/post-surgery: medication concerns
5. Discussion on importance of preparation of scientific papers in clinical dentistry

Lunch and Learn: Tx planning session

Saturday, November 23

- **Hands-on Venipuncture techniques, PRP, PRF development**

Advanced Treatment Planning and Prosthetic Reconstruction
November 24, 2019

Matthew Young, DDS
Diplomate- ABOI/ID
Fellow- AAID
Assistant Director/ Maxicourse Boston

Topics:

1) Implant Dentistry: Diagnosis and treatment planning
2) Root form implant surgical techniques and principles
3) Hard and soft tissue considerations for ideal restorations
4) Socket preservation and ridge repair

Sunday, November 24th
Hands-on: Fixed single/multi-unit restoration

Objectives:

At the end of the module, the participants will:

- Comprehend a medical assessment for the implant patient

- Learn how to perform a neurological evaluation for post-surgical altered sensation
- Comprehend the pharmacology essential for the dental implant patient
- Learn how platelet concentrates (PRP/PRF) enhance the implant healing process
- Understand what PRP/PRF is?
- Learn to perform “hands on” standard phlebotomy technique and PRP/PRF development
- Comprehend and learn to manage medical emergencies in the dental office
- Participate in a “Hands on” implant prosthetic procedure for the fixed prosthesis
- Learn surgery – incision and flap design
- Learn advanced implant treatment planning for removable and fixed cases
- Develop an understanding of 2D/3D radiographic anatomy and how it relates to clinical implant surgery
- Comprehend root form surgical techniques and principles
- Learn to evaluate pre-surgery hard and soft tissue clinically and radiographically (2D/3D- CBCT

Module 3

January 17-19, 2020

Basic Surgery and treatment planning

Matthew Young, DDS

Diplomate- ABOI/ID
Fellow- AAID
Assistant Director/ Maxicourse Boston

Implant Surgery- Staged approach

- Flap design
- Implant surgery staged approach
- Treatment planning- Implant position, numbers and considerations

- **Case presentations- Fixed Approach**
- Instrumentation
- Biologics and suturing materials
- **Lunch and learn Tx planning session**

Brian J. Jackson, DDS

Treatment planning: IPO Principles and Prosthetics

- Implant occlusal principles and biomechanics
- Treatment planning- Partially edentulous patient- Fixed
- Medical history- Key considerations
- Bone classification
- Radiology- 2-3D alternatives
- Implant Surgery- "step by step approach"
- **Case presentations-fixed and removable implant approach**

Friday, January 17th

- **Hands-on implant placement and osteotomy technique**

Saturday, January 18th

- **Hands-on prosthetic- Fixed cement/screw retained restorative "All on X" and Overdentures**
- **Videos**

Objectives: At the end of the module, the participants will:

- Comprehend advanced surgical techniques for implant placement
- Learn how guided surgery can enhance surgical outcomes
- Understand 3d planning software and how to design and fabricate surgical guides
- Able to perform prosthetic stages for a fixed and removable prosthesis
- Become familiar with implant surgical instrumentation, basic surgical and prosthetic instrumentation
- Learn "hands on" principles for suturing
- Learn "hands on" osteotomy and implant placement
- Learn "hands on" model prosthetic steps for removable overdenture procedure

- Observe case presentations to enhance understanding of implant treatment sequencing

Module 4

February 21-23, 2020

Surgery: Advanced Strategies
Pre surgical, Diagnostics, Imaging and Surgery

Dr. Bart Silverman, DDS

Oral and Maxillofacial surgeon
Diplomate- AOMS
Diplomate- ABOI
Fellow- AAID

Topics

1) CBCT analysis
2) Guided Surgery
3) Extraction technique
4) Implant placement
5) Sinus lifts
6) Bone Grafting

Friday, February 21st
Hands-on Sinus surgery- lateral approach

Lunch and learn- Tx planning session

Brian J. Jackson, DDS
Treatment Planning and Tx- Posterior Maxilla

- Posterior Maxilla- treatment considerations
    - Treatment planning and prosthetic considerations
    - Prosthetic protocols and materials

Saturday, February 22nd

- **Hands on: Sinus surgery- Lateral approach (model, egg)**

- **Videos**

Objectives: At the end of the module, the participants will:

- Comprehend advanced surgical procedures via CBCT analysis
- Familiar with robotic implant surgery
- Learn fundamental extraction protocols for immediate implant placement
- Learn various bone grafting materials and utilization in maxillary sinus augmentation
- Perform “hands on” sinus surgery (lateral/crestal) on model
- Be able to determine when to utilize lateral vs crestal approach for sinus augmentation
- Comprehend implant occlusal principles and biomechanics for the fixed prosthesis
- Understand key considerations in regards to patient medical history
- Review case presentations to reinforce implant concepts
- Perform “hands on” osteotomy and implant placement on models

Module 5

March 20-22, 2020

Hard and Soft tissue Grafting

Jason Kim, DDS

Diplomate- ABOI

Fellow AAID

Resident- Rutgers- Periodontics

March 21, 2020

1) Implant Dentistry in the Esthetic Zone
2) Treatment planning: radiological assessment
3) Guided bone regeneration principles
4) Advanced bone grafting
5) Soft tissue grafting, science and techniques
6) Basis for referral and clinical decision making

Lunch and learn: Tx planning session

Brian J. Jackson, DDS

Edentulous Patient: The Fixed conventional: Abutment ceramic metal Implant Approach

- **Radiology assessment/clinical evaluation**
- **Tx planning considerations: Maxillary/mandibular arch**
- **Surgical placement**
- **Jaw relationship records**
- **Prosthetic aspect- Impression techniques**
- **Laboratory, materials, time**
- **Lunch and Learn- Tx planning session**

Case Presentations

Saturday, March 21st

- **Hands-on GBR techniques, soft tissue grafts and suturing (Pig jaw)**

Sunday, March 22nd

- **Hands-on- Overdentures (Prosthetic aspect)**

Friday, March 20th

- **Hands-On- PRF/PRP**
- **Videos**

Objectives: At the end of the module, the participants will:

- Learn soft tissue grafting techniques, indications, and contraindications
- Perform “hands on” sub epithelial connective tissue graft on pig jaws
- Understand the principles of guided bone regeneration
- Learn various bone grafting materials: indications, advantages and disadvantages
- Understand the basis of referral after patient evaluation
- Learn advanced bone grafting procedures

- Learn the treatment options, advantages, disadvantages and limitations of the overdenture
- Comprehend how conventional and small diameter implants can be utilized in the overdenture patient
- Perform “hands on” overdenture prosthetic procedures on models
- Perform “hands on” PRP/PRF venipuncture and development on live participants
- View case presentations to enhance the understanding of implant therapy

Module 6

April 24-26, 2020

Cadaver session: Anatomy and Surgical Skill Development

Shankar Iyer, DDS, MDS

Prosthodontist- NYU, School of Dentistry
Diplomate- ABOI/ID
Fellow- AAID

Topics:

1) Gross anatomy for the implant dentist
2) Anatomical structures: Maxilla and Mandible
3) Maxillary sinus
4) Mandibular nerve (ION)
5) Anterior/Posterior maxilla (nerve, artery)
6) Anterior/Posterior mandible (nerve, artery)

- **Hands on: Cadaver**

    a. Suturing techniques
    b. Sinus augmentation protocol
    c. Block grafts protocol

Advanced Bone Grafting

- **Lunch and Learn: Tx planning session**
- Gross anatomy: Key relationships to implant surgery

- Sinus augmentation
    - Crestal and lateral approach
- Surgical management- complications
- Implant surgical techniques, Maxilla
- Advanced bone grafting- horizontal and vertical techniques
- **Videos**

Objectives: At the end of the module, the participants will:

- Learn critical anatomic structures for basic and advanced implant surgery
- Perform "hands on" cadaver sinus surgery, socket grafts, nerve repositioning, block grafts and osteotomy procedures
- Comprehend surgical techniques for various regions of mouth and how it relates to implant density
- Perform dissection of cadaver specimen to locate critical landmarks for implant dentistry
- Discuss and learn surgical complications associated with anatomical structures

Module 7

May 22-24, 2020

Edentulous Patient- The Fixed and Removable Implant Approach

Brian J. Jackson, DDS

Fixed Prosthesis

1. Conventional- cement/ abutment/ceramo-metal
2. Conventional- screw retained "all on X"

Removable prosthesis:

1) OV-Conventional Diameter Implants

2) OV-Small Diameter Implants

Case Presentations- Full arch: (Fixed: Cement/Screw retained) and removable overdentures

Lunch and Learn- Tx planning session

Friday, May 22nd

Hands-on:

Surgical techniques- Full arch "All on X"

Sunday, May 24th

Prosthetic techniques- model, Full arch

Videos

May 23, 2020

Advanced Treatment- 3D, CAD/CAM guided approach

Adam Folek, DMD

Diplomate- ABOI/ID
Fellow-AAID

Topics:

1) Surgical guides with CBCT and CAD/CAM dentistry
2) Fully guided surgery from placement to restoration
3) Implant placement and provisional stage
4) Integrating implants into your practice

Saturday, May 23rd

Hands-on- 3D diagnostic navigation

Objectives: At the end of the module, the participants will:

- Comprehend the fixed and removable implant approach for the edentulous patient
- Learn the areas of discussion for the removable overdenture fixed abutment and fixed detachable prosthesis
- View the fixed and removable treatment sequence for reconstruction "step by step" flow sheet

- Discuss implant occlusal principles, prognosis, progressive bone loading and treatment considerations for long term success
- Attend advanced treatment planning session
- Participate in a “hands on” exercise on models for full arch removable and full denture prosthesis
- Learn advanced treatment cases utilizing CBCT,CAD/CAM
- Participate on “Hands on” 3D navigation using planning software
- Understand what a full guided surgery is from diagnosis to prosthetic placement
- Learn how to integrate implants into your practice

Module 8

June 19-21, 2020

Management of Complications

Dr. Matthew Young, DDS

Diplomate: ABOI/ID
Fellow: AAID

Comprehensive Treatment Planning: Surgery/Prosthetics

Treatment plan: Review of maxilla/mandible

Diagnosis
- Max/Mandibular relationship
- Treatment plan considerations
- Surgery
- Prosthetics considerations
- Removable vs. fixed prosthetic approach

Overdentures, FD, Conventional Implant retained

Lunch and Learn: Treatment planning session

Brian J. Jackson, DDS- Immediate Implant Placement Restoration (IIPP)

- Protocol

- Implant occlusal principles
- Immediate load
- Immediate provisionalization
- IIPP- single tooth approach
- Verification jigs
- Evidence based decision trees
- **Videos**

Implant maintenance

Preparation of associate fellow exam

Case Presentations- "Single to Full Arch"

Friday, June 19th

Hands-On: Fixed single/Multi unit prosthesis

Course Overview

Saturday, June 20th

Hands on: IIPP

Jessica Woods, RDH, MPH

- Identify different implant types
- Discuss cleaning techniques for each implant prosthetic type
- Identify implant instruments
- Recommend different products safe for use with implants and prosthetics
- Show ultrasonic, scaling and polishing techniques

Objectives: At the end of the module, the participants will:

- Learn how to manage complications: simple and complex
- Comprehensive treatment planning of advanced cases-full arch with bone deficiencies
- Learn protocols, science and advantages of immediate implant placement with provisionalization (IIPP)

- Participate in a “hands on” procedure on models for IIPP
- Discuss immediate implant placement with type I and type II sockets
- Learn management of IIPP in infected sites
- Learn IIPP protocols in sinus augmentation
- Understand orthodontic considerations in implant dentistry for partial and fully edentulous arch
- Learn the management of surgical and prosthetic complications
- Learn preventive maintenance for an implant prosthesis