Restorative Implant Residency

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Introduction
The Restorative Implant Residency Program is a comprehensive approach to Dental Implant Continuing Education utilizing the Team Approach. It is a four part all day lecture series with hands-on components. The main objective is to empower participating doctors and their team in building their implant practices. This hands-on approach allows for real-world experience with implant components and clinical techniques. All programs are 8 hours in length with 8 continuing education credits available. Session breakdown is as follows:

Session 1: Overview of Dental Implant
When compared with conventional fixed or removable prosthetic options for tooth replacement, implant therapy is a biologically conservative treatment approach with the potential for achieving rewarding treatment outcomes for both the patient and dentist. In order to accomplish consistent and predictable treatment outcomes in general practice, an understanding of the fundamental principles of implant biomechanics, prosthetic, surgical and treatment planning considerations is required. Dr. Leopardi’s objective for this presentation is to bring all of these factors into perspective, through an understanding of the current literature and how this relates to clinical practice. His discussion will include, but not be limited to:
- Conventional Dentistry vs. Implant Dentistry.
- Pre-Surgical Treatment Planning:
  - Patient Expectation.
  - Treatment planning.
  - Implant position.
  - Biomechanics.
  - The Team Concept
- Pre-Surgical Work-Up (session 2).
- Implant Site Preparation.
- Concepts of Prosthetic Implant Restorations (HANDS-ON).
- Abutment Choices.

Who Should Attend:
- General Dentists.
- Periodontists.
- Oral and Maxillofacial Surgeons.
- Dental Technicians.

Teaching Approach:
- Combination of lecture style seminar with a hands-on component. Maximum of 25 participants.
Session 1: Objectives

1. To understand the current situation of implant dentistry.
2. To understand the differences between conventional dentistry and implant dentistry.
3. To understand the basic patient requirements for implant dentistry.
4. To establish and select specific criteria necessary to accept and recommend a patient for treatment.
5. To determine surgical and restorative time parameters.
6. To understand the restorative sequence involved in varied patient situations.
7. To understand implant components and conventional impression techniques. (Hands-on).
Session 2: Treatment Planning
Doctor/Patient Participation

Each Doctor will be required to bring to the program the records of one or more private practice implant candidate* for diagnosis and treatment planning. The following is required for participants to bring to the program:
- Mounted study casts (preferable)
- Full mouth series of radiographs and/or panoramic radiograph
- Patient medical, dental and social history

- Each case will be discussed in an informal seminar format together within the group under the direction of Dr. Leopardi, participating surgeons and dental laboratory
- Surgical Guide/Template Considerations:
  - Computer Tomography assisted surgical guide fabrication.
- Please bring lap-tops for download of a free 6 month trial of the BioHorizons V.I.P CT Implant Planning Software. A hands-on demonstration of private practice implant candidates with the V.I.P program will be undertaken in the afternoon session.
- The Economics of Implant Dentistry
  - Surgical Fees
  - Restorative Fees
  - Component Costs
  - Laboratory Costs
- Economics: each case presented will be priced out.

*NOTE: The concept of this day is to take real life scenarios and implementing the information learned, develop a comprehensive treatment plan (including any non-implant related treatment needs) that will meet the expectations of the patient, restorative doctor and surgeon. It is not necessary that the patient complete the proposed treatment plan.

Patient Implant Treatment

If interested, patient’s treatment planned in Session 2 should undergo implant treatment as follows:
- Radiological/Surgical guides constructed and fitted utilizing design recommendations from Dr. Leopardi and BioHorizons V.I.P. service.
- Implant placement by participating surgeons with dentist present (if interested) during surgery (these surgical appointments are performed independent of the group).
- Implant restorative treatment by participating Doctor under the guidance of Dr. Leopardi and dental laboratory, if needed.
Session 3: Fixed Restorative Treatment Modalities

- Review of Diagnosis and Treatment Planning:
  - Restorative Knowledge of Surgical Considerations.
- Diagnostic Requirements:
  - Review of Radiographic and Surgical Stents.
  - Treatment from Stage One thru Stage Two surgery.
- Impression Procedures (hands-on):
  - Open Tray.
  - Closed Tray.
  - Conventional.
  - Splinted impression technique.
- Provisional Restorations: direct and indirect techniques.
- Implant fixed partial dentures (bridges): Included are advantages and disadvantages of cement and screw retained bridge work, impression techniques, fabrication of diagnostic wax up, choice of transfer technique (e.g., abutment jig and/or orientation markings) from model to mouth (cement retained), try-in of metal framework, cut and solder if necessary.
- Single tooth:
  - Anterior verses posterior zones.
  - Value of anterior provisional implant restorations.
  - Abutment Selection: Custom, CAD-CAM, Ceramic, Stock, Pre-Contoured.
- Multiple single restorations: splinting verses individual units.
- Occlusion and biomechanics of fixed implant therapy.
  - Differences between natural teeth and fixed implant occlusion
- Immediate placement and provisionalization criteria and techniques.
Session 3 Objectives:

1. To understand the difference between pick-up and transfer impression techniques and copings, and the benefits obtained from the accuracy of the splinted impression technique.
2. To expose participants to impression taking options, and the appropriate instrumentation necessary to make and take impressions (Hands-On).
3. To develop an understanding of appropriate abutment selection per case basis.
4. To understand the clinical procedures involved in cement and screw retained fixed implant restorations.
5. To understand the clinical procedures involved with the single tooth restoration, cement and screw retained.
6. To understand the role of occlusion in the success of fixed dental implant therapy.
7. To understand the biomechanics of fixed implant therapy.
8. To understand immediate placement and provisionalization criteria.
Session 4: Removable Restorative Treatment Modalities

- Overdenture treatment planning.
- Bar Overdenture
  - Advantages & disadvantages for Bar Overdentures.
  - Biomechanics.
- Verification Jig Techniques.
- Transmucosal abutments: indications and advantages in full-arch implant prosthetics (removable and fixed). (Hands-on)
- Impression Technique for Bar Overdenture:
  - Steps to follow for fabrication of Bar Overdenture.
  - Wax Rims.
  - Set up.
  - Fabrication of bar (lab procedures).
- Try in of the Bar Overdenture:
  - How to correct a non-fitting bar.
- Final Prosthesis:
  - Placement of transmucosal abutments.
  - Torque of abutments.
  - Seating of finished denture with attachments.
  - Patient recall discussion.
- Intra-oral pick-up technique for Zest Locator and Ball-Abutment Attachment Systems:
  - Seating of attachments.
  - Curing of attachments (optional hands-on procedure).
- Full Arch Fixed Prostheses for the completely edentulous patient.
  - Acrylic fused to metal.
  - Porcelain fused to metal.
  - All-Ceramic.
Session 4 Objectives:

1. To review diagnosis and treatment planning for removable implant prosthetics.
2. To review and understand the economics of removable overdenture implant therapy.
3. To understand the biomechanical differences between fixed and removable implant therapy.
4. To gain an understanding of the advantages of transmucosal abutment use in full arch implant prosthetics (removable and fixed).
5. To review impression techniques for removable implant therapy.
6. To understand the purpose and techniques involved with the construction of a verification jig.
7. To understand abutment selection for removable implant therapy.
8. To understand the clinical procedures involved with removable bar-overdenture therapy.
9. To understand the clinical procedures involved with the Zest Locator and Snap (ball) abutment attachment systems.
10. To understand the principles involved in fixed restoration of the edentulous Maxilla and Mandible.