Computer-Guided Implant Dentistry

A hands-on course on virtual implant planning, computer-guided surgery and restorative collaboration

Herman Ostrow School of Dentistry of USC
Saturday - Sunday, August 2 - 3, 2014
9:00 am - 5:00 pm
Implant dentistry is a predictable treatment modality providing function and aesthetics. Proper implant positioning is a critical factor to ensure successful outcomes. There are many methods to place implants that allow for adequate osseointegration. However, these traditional techniques do not guarantee accurate implant positioning. Factors such as the surgeon’s hand stability, variation in bone quality, visual obstacles and improper surgical guides will compromise the implant surgery. The misplacement of implants leads to non-axial implant loading, complicated restorative process, increased expense, compromised esthetics as well as biologic and prosthetic complications.

This course will present optimal techniques and technologies for accurate placement of implants and their predictable restoration. Participants will be exposed to a restoratively driven process coordinated between the different members of the dental team. The course will review the process of pre-surgical design of the definitive restoration through laboratory wax-up or a computer-assisted design (CAD). The benefits of creating a virtual patient image, diagnostics and surgical simulation will be outlined. Course participants will be exposed to the advantages of computer surgical navigation leading to highly accurate implant positioning. The hands-on exercises will allow participants to virtually plan multiple cases and gain knowledge on using implant-planning software. Fabrication of an immediate restoration is included in the exercise.

The course’s goal is to provide clinicians with knowledge on the optimal way to practice implant dentistry from restoration design, through patient imaging and virtual implant simulation to a computer-guided surgery. This course is focused on proper treatment planning in implant dentistry to ensure accurate and predictable placement of implants while promoting patient safety.

Topics to be covered:
- Principles of proper implant positioning
- Limitations of traditional implant placement
- Creating a diagnostic and virtual wax-up
- Radiographic templates and scan appliances
- Patient imaging protocols (CT scan)
- How to “read” a CT scan?
- Using an implant-planning software
- Image analysis for anatomic and restorative diagnostics

Hands-on exercise:
- Creating a virtual wax up
- Computer surgical planning of different clinical case scenarios
- Fabrication of an immediate provisional restoration
- Virtual implant surgery – digital simulation
- Fabrication of surgical guides
- Computer-guided-surgery techniques
- Immediate implant provisional
- Creating a proper implant emergence profile
- How to create an effective work flow
- Limitations of computer-guided surgery
- Management of complications
- Capture of the peri-implant tissue for proper emergence profile
- Review of participants’ clinical cases with computer software and help with planning and obtaining surgical guides

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Computer-Guided Implant Dentistry
Saturday - Sunday, August 2 - 3, 2014 • Lecture & Hands-On Workshop

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Registration Fees:
Before July 1, 2014:
Dentist: $995
Auxiliary: $825

After July 1, 2014:
Dentist: $1,185
Auxiliary: $895

Fees include course material, continental breakfast, lunch and refreshments during.

Refunds are granted only if a written cancellation notification is received at least 21 days before the course. 50% of the tuition minus processing fee will be refunded if cancellation occurs within 14 days before this course. No refund is granted afterwards. A $75 fee is withheld for processing. For additional registrations, copy this form and send.

14 Hours of Continuing Education Units

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