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
- 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

Hands-on exercise:

- Creating a virtual wax up
- Computer surgical planning of different clinical case scenarios
- Fabrication of an immediate provisional restoration

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Ziv Simon, DMD, MSc (Course Director)
Dr. Simon is a Diplomate of the American Board of Periodontology and a Fellow of the Royal College of Dentists of Canada. He publishes and lectures nationally and internationally on esthetics, tissue reconstruction and computer-guided implant dentistry. Dr. Simon is the founder of the Beverly Hills Multidisciplinary Dental Study Group and maintains a private practice limited to periodontics, dental implants and reconstructive surgery in Beverly Hills, California.

Phillip Mendelovitz, DDS
Dr. Mendelovitz is practicing restorative dentistry in the Los Angeles with focus on esthetics and digital dentistry. He graduated from the UCLA School of Dentistry in 1981 and continued teaching in the Hospital Dentistry, General Practice Residency and Advanced Education in General Dentistry programs at UCLA. He is currently the Director of Clinical CAD/CAM at the UCLA Center for Esthetic Dentistry. Dr. Mendelovitz is a mentor at the Scottsdale Center for Dentistry teaching doctors from around to world to incorporate digital dentistry in their practices.

Sam Alawie, MDT
Sam Alawie completed a master dental technician degree in Brussels, Belgium. He has extensive experience in fixed and removable restorations in complex full mouth rehabilitations. He currently owns and operates a dental laboratory in Beverly Hills and is collaborating with doctors around the nation. Sam Alawie is dedicated to educating doctors on advanced techniques and materials as well as on digital dentistry technologies in implant dentistry.

Diane Yamamoto, CRT, ARRT
Diane Yamamoto received her training in medical diagnostic radiology at the Santa Monica Hospital School of X-ray Technology and the House Clinic, Queen of Angels in 1969. She has advanced experience in maxillofacial imaging and regularly collaborates as a team member in the computer-guided implant workflow. Diane Yamamoto is one of the first operators of Cone Beam technology and an owner of a radiography practice in Beverly Hills for over 35 years. She is a member of the American Association of Dental Maxillofacial Technicians and the American Academy of Oral Maxillofacial Radiologists.

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

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