Clinical modules

Three full-day clinical module programs will focus on a different topic each day. The “Dental Implant” module will take place on Thursday, Oct. 1, the “Dentoalveolar” module on Friday, Oct. 2, and the “Anesthesia” module on Saturday, Oct. 3. Each of these module programs will begin with a large audience plenary session, followed by a number of smaller break-out sessions as the morning progresses. After lunch, the “Dental Implant” and “Dentoalveolar” sessions will include oral abstracts and “How I Do It” clinical presentations. The “Anesthesia” afternoon session will include a review of OMSNIC closed case files. Tickets are not required for these three clinical module programs. Space will be available on a first-come, first-served basis. Please indicate your intention to attend on your meeting registration form.

Clinical courses

Each clinical course has been designated as one of the following course types: case study, innovative techniques, point/counterpoint, refresher course or open forums; CIG programs; and OMS guidelines; and identify and address challenges of the surgical patient.

General meeting registration grants must be submitted by an AO member, faculty member or student who conducts research in any academic dental institution, at least one person on the research team must be an AO member. First place grant recipients are required to present their results at the 2017 AO Annual Meeting, as well as to submit a research manuscript to The International Journal of Oral and Maxillofacial Implants no later than December 31, 2017.

2015-2016 award recipients

The 2015-2016 AO/Osseointegration Foundation research grant recipients are listed below. First place recipients will present their findings at AO’s 31st Annual Meeting to be held Feb. 17-20 in San Diego.

Basic Science

First Place, $30,000: “MicroRNA Expression and Their Role During Osteoblast Differentiation on Nanoscale Titanium Surfaces,” by Gustavo Mendonca, DDS, MS, PhD, University of Michigan.

Second Place, $15,000: “Mimic the Natural Bone Regeneration by Using Three-dimensional Co-culture of Adipose-Derived Macro Spheroids with Monoocytes” by Hidemi Nakata, DDS, PhD, Tokyo Medical And Dental University.

Applied Science

First Place, $30,000: “Adhesion, Proliferation and Osteogenic Differentiation Potential of Gingival Mesenchymal Stem Cells Over Failed Implants” by Julio Carion, DMD, PhD, Stony Brook University.

Second Place, $15,000: “3D Printing Cell Sheet Technology: Development of Patient-Specific In Vitro Assessment Tools for Evaluation of Implant Surface” by Hyunmin Choi, BDS, Yonsei University.

About the Osseointegration Foundation

The Osseointegration Foundation is the philanthropic arm of the AO and is chartered to develop and provide financial support for the art and science of osseointegration. Grants are awarded annually for research as well as patient treatment.
Guided surgery for implant placement provides great benefits for clinicians but can also create complications. Because of this dichotomy, some dentists shy away from its use. As part of the new webinar series for the Academy of Osseointegration (AO), Dr. Jaime Lozada presented the advantages and disadvantages of guided surgery. He also shared how to minimize some of the common complications associated with it.

The webinar was titled “Guided Surgery: Heaven or Hell?” but Lozada explained that it’s actually neither of those.

“It truly is a down-to-earth tool that we use in implant dentistry,” he said, emphasizing that guides do not replace insufficient level of training. “We need to use adequate clinical judgment and be well trained with our surgical and prosthetics skills to execute some of these procedures.”

The AO chose Lozada to present on the topic as he is instrumental in the training of residents and fellows in the latest techniques of oral implant surgery and prosthodontics. He is a professor at Umma Linz School of Dentistry, as well as the director of graduate programs, restorative dentistry and oral implant dentistry there.

Guided surgery has a 16-year history, which yielded significant literature in the process. Lozada presented the consensus on the advantages and disadvantages of the treatment procedure, including:

Advantages of guided surgery (Heaven):
- Reduction of surgical errors
- Accurate implant placement
- Less invasive and less pain for patients
- Improved treatment time efficiency
- Simplified prosthetics rehabilitation

Disadvantages of guided surgery (Hell):
- Increased treatment time preparation
- Increased surgical errors

Lozada also discussed the conclusions of a systematic review of the literature on guided surgery. The conclusions revealed there is no difference to implant survival rate between conventional and guided implant treatments. The systematic review also showed guided surgery cannot be considered easier than conventional surgery and there were some common complications.

“If we are able to deliver a very strong provisional rate, now we are going to minimize the very high complication rate that has been described in the literature,” he said.

Lozada recommended the following considerations to minimize the disadvantages or the “Hell” side of guided surgery:
- Consider minor soft tissues reflection to minimize the damage and improve the bone support around the dental implant.
- Correct within the guide as needed if you feel the implant isn’t going in the right position (most of the newer guides allow for this type of correction).
- Use preprocessed acrylic monoblock for digital dentures to minimize the complications.
- Avoid definitive restorations at placement.
- Ensure the provisional restorations provide soft-tissue support.

Lozada emphasized that the treatment has merit and in the right hands it can be a great solution for today’s clinicians placing implants for their patients.

Members of the AO can download the webinar for free. Simply use your member login to the AO website and select the webinar to download to your device. Non-members may access it for a $50 fee AO is an ADA CERP Recognized Provider and designates the completion of this webinar activity for one-hour continuing education credit.

About the Academy of Osseointegration
With 6,000 members in 70 countries around the world, the AO is recognized as the premier international association for professionals interested in implant dentistry. AO serves as a nexus where specialists and generalists can come together to evaluate emerging research, technology, and techniques; share best information, and coordinate optimal patient care using timely, evidence-based science and methods.

Scientific poster sessions
Posters will be available online and on-site during the meeting. Poster topics include anesthesia, infection, dental implants, nerve repair, OSA, orthognathic surgery, pathology, TMD, trauma, dentoalveolar, cleft and craniofacial surgery, cosmetic maxillofacial surgery and medicine. Continuing education credit is not offered for these sessions. Tickets are not required for the poster sessions.

Oral abstract sessions
Oral abstract sessions will be presented on Friday, Oct. 2. Each session will begin with a relevant presentation by an expert in the field, followed by oral abstract presentations. Tickets are not required for the oral abstract sessions.

For more information about the AAOMS annual meeting or to register and obtain hotel and travel information, visit www.aaoms.org.