**Dennis P. Tarnow, D.D.S.**

Controversies and Innovations in Implants and Esthetic Dentistry - What we know, What we think we know and What we still don't know

July 25 - 28, 2019

### Course Itinerary

**Thursday, July 25**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>07:25 am</td>
<td>Meet in the lobby for shuttle from the Hotel Pullman San Francisco Bay to IDEA</td>
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<tr>
<td>07:45 am</td>
<td>Breakfast at IDEA</td>
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| 08:30 am - 01:00 pm | **Lecture:** Biology of Osseointegration  
  - The latest concepts for implant design from the abutment connection to the tip of the implant  
  - What is the best surface texture for integration to be maximized? Is there such a thing as too rough?  
  - Does internal vs. external really make a difference?  
  - Controversy about the use of Bisphosphonates and Seratonin Uptake inhibitors (SSRIs) and their effect on implant success and survival  
  - What is Osseointegration? - Light microscope and electron microscope  
  - How does time and loading effect the bone implant interface?  
  - How does height and width of surface peaks effect the amount of bone deposition and speed of integration?  
  - How does HA effect short and long term healing of bone and soft tissues?  
  - Should we be blasting surfaces, etching them or coating them?  
  - How does thread pattern and pitch on implant effect placement and loading time in different bone densities?  
  - Internal versus external connections - pros and cons of each |
| 12:30 pm - 01:30 pm | Lunch |
| 02:00 pm - 05:30 pm | **Lecture:** Medical aspects of implant success:  
  - Diabetes, age (young and old), osteoporosis, prior radiation treatment, long term pregnisone use, smoking, and recalcitrant periodontal patients  
  - Length and width of implants  
  - Effect of biologic width on implant design and placement procedures  
  - Tapered vs. straight side screws - placement differences  
  - What are the long term periodontal results of different implant levels of surface roughness?  
  - Crestal vs. muco-buccal fold incisions. Pros and cons of each O.R. sterility vs. office sterility. Reflected flap versus punch versus true flapless surgery  
  - Heat production from drilling (Is 37 degrees really true?)  
  - Effect of pressure on bone during Insertion |
Attached gingival - do we need it for long term success around all implants?
When to extract a tooth and place an implant or try to save it?

05:30 pm – 07:00 pm  Welcome Reception and “Networking” Dinner at IDEA

07:00 pm  Shuttle from IDEA to the Hotel Pullman San Francisco Bay

Friday, July 26

07:25 am  Meet in the lobby for shuttle from the Hotel Pullman San Francisco Bay to IDEA
07:45 am  Breakfast at IDEA
08:30 am – 01:00 pm  Lecture:
Immediate vs. Delayed Socket Placement
• Socket Shield Therapy and PET (Partial Extraction Therapy) - What are the potential benefits and shortcomings of this new technique?
• Use of PDGF, PRP, PRF and BMP-2 other growth factors in implant therapy. Are they vital to the outcome short and long term for sockets, ridge augmentation and sinus lifts?
• Time savings, Cost effectiveness
• Esthetic considerations - interproximal and buccal height of tissue
• Clinical healing - histologic healing- the critical gap distance (is it valid?)

Socket Management and Crestal Bone Resorption
• Type 1- Buccal plate present and soft tissue present at time of extraction
• Type 2- Buccal plate missing and soft tissue present
• Type 3- Buccal plate missing and soft tissue

Bone graft materials
• Autogenous
• Xenografts
• Allografts
• Synthetics

Membranes
• Non-Absorbable- Advantages and Disadvantages
• Absorbable- Collagen
• Synthetic
• Times of absorption and by products of absorption

01:00 pm – 02:00 pm  Lunch

02:00 pm – 03:00 pm  Lecture:
Overdentures and Implants
• When to use an overdenture vs. a fixed hybrid vs. a fixed bridge,
• Use of porcelain fused metal vs. Zirconia frameworks. One piece construction vs framework with porcelain veneering
• Treatment planning for fixed anterior bridgework supported by implants with a distal extension partial vs. an overdenture
- Maxilla vs. mandible for partial edentulous esthetic considerations
- Esthetic considerations
- Alveolar ridge resorption considerations
- Psychological considerations
- Hygiene considerations
- Combination syndrome
- Types of bars - rotational, non-rotational
- Types of attachment - locators, ERA, ball
- Phonetic consideration

**Ridge Augmentation**

- Particulate grafts
- Block grafts
- Membranes
- Horizontal Augmentation
- Vertical augmentation
- Distraction osteogenesis

03:00 pm – 03:30 pm  **Break**

03:30 pm - 06:30 pm  **Hands-on:**

**Implant placement**

- Placement of implants into healed ridges and immediate sockets. This will include using wide body implants placed into molar extraction sockets
- The Ice cream cone technique for type 2 sockets and where delayed placement is indicated
- Dual Zone grafting of sockets
- Co-Axial Implant placement for immediate anterior sockets to avoid cement problems
- Implant placement and flap design
- Some thoughts on suturing
- Implant placement in healing ridge
- Implant placement in fresh socket
- Grafting fresh socket

07:00 pm  Shuttle from IDEA to the Hotel Pullman San Francisco Bay

**Saturday, July 27**

07:25 am  Meet in the lobby for shuttle from the Hotel Pullman San Francisco Bay to IDEA

07:45 am  Breakfast at IDEA

08:30 am – 12:30 pm  **Lecture:**

**Occlusion and Loading of Implants vs. Teeth**

- All on 4, 5, or 6. The pros and cons of this treatment
- Styles of Occlusion - Cuspid Guidance vs. Group Function vs. Balanced occlusion
- Splinting to natural teeth, how to avoid it, how and when to do it to avoid intrusion of the natural teeth
• Immediate loading - full arch cases, partially edentulous cases, and for single teeth
• Early loading
• Delayed loading
• Progressive loading
• Occlusal overload during healing and after osseointegration
• Occlusal materials - porcelain, vs. acrylic vs. metal
• Splinting to natural teeth
• Splinting to other implants
• Styles of occlusion
• Cement vs. screw retained crowns – pros. and cons. of each

Peri-Implantitis
• Types of bacteria
  Pathway of inflammation around teeth vs. implants
• Surface textures effect - short and long term on bone and soft tissues
• Repair vs. re-osseointegration
• Treatment alternatives
• Prosthetic treatment planning considerations
• Platform switching – What it does and does not do.

01:00 pm – 02:00 pm  Lunch

02:00 pm – 03:00 pm  Lecture:
Sinus Lift Procedures
• Osseodensification bur use for vertical sinus lifts
• Piezotome use for lateral windows to help prevent sinus perforation
• Timing for healing, when to wait 3, 6 or 9 months before implant placement
• What is the rate of Ossification of the graft placed into the sinus
• What % of vital new bone is needed to successful loading of implants placed into sinus grafts
• Incision design
• Instrumentation to lift the membrane
• How to deal with underwood's clefts
• When to make 2 windows and how
• Types of graft materials
• Simultaneous vs. delayed implant placement
• Implant design for the best outcomes

03:00 pm – 03:30 pm  Break

03:30 pm - 06:30 pm  Hands-on:
Sinus lift procedures
• Use of osseodensification burs to do vertical sinus lifts
• Use of Piezo special burs to lift the membrane and decrease change of perforations
• Simultaneous placement of implants into grafted sinus
• Sinus lift - lateral window procedure
• Sinus lift - osteotome procedure

07:00 pm  Shuttle from IDEA to the Hotel Pullman San Francisco Bay
Sunday, July 28

07:25 am
Meet in the lobby for shuttle from the Hotel Pullman San Francisco Bay to IDEA

07:45 am
Breakfast at IDEA

08:30 am – 1:00 pm
Lecture:
**The Serial Extraction Case**
- How to simplify treatment planning in the most complicated cases
- How to avoid removable partials and dentures in treatment planning using innovative fixed temporization techniques
- Case selection
- Advantages and disadvantages of the serial case
- Special provisionalization techniques
- Sequence of therapy - selective extractions
- Periodontal considerations
- Endodontic considerations
- Transitional implants
- Immediate vs. delayed socket placement

12:30 pm – 1:30 pm
Lunch

02:00 pm – 4:00 pm
Lecture:
**Esthetics and Implants**
The interdental papilla between teeth
The interdental papilla between teeth and implants
The interdental papilla between two adjacent implants
Forced eruption for site development
Buccal-lingual placement considerations
Mesial-distal placement
Occlusal-gingival placement
Putting it all together - the three dimensional placement

04:00 pm – 5:30 pm
Lecture:
**Management of Esthetic problem cases**
Putting it all together into a comprehensive and properly times sequence of therapy
The Ultimate level of knowledge and skill for the ultimate esthetic outcome for our patients

05:30 pm - 7:00 pm
Graduation Ceremony and Celebration Dinner at IDEA

07:00 pm
Shuttle from IDEA to the Hotel Pullman San Francisco Bay

"After 25 years of hearing Dr. Tarnow at the podium, the opportunity to spend 4 days with him in a small group learning session was PRICELESS. The IDEA facility and team did a fantastic job hosting such a great workshop. Thank you!"
Jeanne Salcetti, Periodontist, Colorado Springs, CO

"My first course at IDEA. Admit I am a CE junkie, this course represents best in clinical, scientific and money making concepts than I have had in 32 years!"
Doug Forbes, General Practitioner, Columbia, SC