



DIGITAL SURGICAL IMPLANT TREATMENT PLANNING



**AN AFTERNOON SURGEON-LED
HANDS-ON WORKSHOP**

4-Hour Session

Course Overview:

The Digital Surgical Implant Treatment Planning program introduces the implant surgeon to the fundamentals of digital implant treatment planning and guided surgery.

This half-day, hands-on training session provides a staged learning pathway to help surgeons confidently integrate digital workflows into daily practice, improving precision, efficiency, and patient outcomes.

Through this course, participants will gain a working knowledge of **BlueSky Bio**, **DTX Studio**, and **3Shape**, learn how to merge **DICOM**, **STL**, and **photogrammetry** files, design digital guides, and explore the advantages of **X-Nav** computer navigation.

Program Schedule (4 Hours Inclusive of Lunch)



12:00 PM - 12:30 PM | Registration & Lunch

- Meet instructors and fellow attendees.
- Lunch and learn for NP/ITC integration into your patient care workflow – force-multipliers for success
- Introduction to course objectives and hands-on session format.



12:30 PM - 1:15 PM | Session 1: Introduction to Digital Treatment Planning (DTP)

- Overview of prosthetically driven planning principles.
- Key terminology: DICOM, STL, and intraoral scan integration.
- Hardware and software essentials: CBCT, 3D printers, and photogrammetry systems.
- Discussion: Benefits of a digital-first implant planning workflow.
- **Outcome:** Participants will understand the foundational elements of digital case planning and the connection between clinical and restorative workflows.



1:15 PM - 2:00 PM | Session 2: Hands-On Software Demonstration

- Pearls of wisdom for avoiding digital planning pitfalls in digital treatment planning using BlueSky Bio, DTX Studio, and 3Shape.
- Compare and contrast software features, workflows, and output quality.
- Data management: importing, exporting, and sharing files between systems.

- Integrating **Practice Metrix** dashboards and **My Patient Exchange** for strengthening referral relationships.
- **Outcome:** Develop the ability to plan single-to-multi-unit implant cases digitally and communicate case data efficiently with labs and referrals.



2:00 PM - 2:45 PM | Session 3: Designing Digital Surgical Guides

- What makes a guide predictable? Key principles of tooth-borne, tissue-borne, and bone-borne designs.
- Hands-on digital design exercise for an edentulous guide.
- Guide pin positioning, 3D stability, and material selection.
- **Outcome:** Learn the principles of surgical guide design and fabrication using YOUR case data for YOUR patient.



2:45 PM - 3:15 PM | Session 4: Dual Scan Protocol & Edentulous Planning

- Review of dual scan workflow.
- Scanning dentures with fiduciary markers.
- Scanning patient in occlusion with dentures in place.
- Aligning STL and DICOM datasets for accurate model creation.
- Understanding the importance of denture fit and vertical dimension for accurate alignment.
- **Outcome:** Gain proficiency in edentulous case data acquisition and digital model integration.



3:15 PM - 3:45 PM | Session 5: X-Nav Navigation and Live Demonstration

- Overview of real-time CT navigation and drill guidance (± 100 -micron accuracy).
- Discussion on the benefits of dynamic navigation over static guides.
- Fiduciary marker integration and real-time case tracking demonstration.
- **Case review:** Class II and posterior access challenges solved with navigation.
- **Outcome:** Understand the role of X-Nav in improving accuracy, reducing chair time, and enhancing posterior case access.



3:45 PM - 4:00 PM | Session 6: Limitations, Case Reviews & Q&A

- Review of common digital workflow pitfalls.
- Limited inter arch clearance.
- Instability in tissue-borne guides.
- Data mismatches between STL and DICOM.
- Review of advanced tips and real-world case outcomes.
- Open Q&A discussion with faculty.
- **Outcome:** Attendees will leave with a clear understanding of how to integrate digital workflows, identify challenges, and implement best practices for success.



Course Outcomes

By the end of this 4-hour program, participants will:

- ☒ Understand how to integrate digital surgical planning into daily workflows.
- ☒ Achieve confidence in merging digital data (CBCT, STL, DICOM).
- ☒ Design, evaluate, and print surgical guides using modern tools.
- ☒ Apply X-Nav navigation for dynamic accuracy.

PRACTICE
METRIX



 www.practicemetrix.com |  610-922-8890 |  info@practicemetrix.com



Delaware Valley Study Club AGD # 363508 is designated as an Approved PACE Program Provider by the Academy of General Dentistry. The formal continuing education programs of this program provider are accepted by AGD for Fellowship, Mastership and membership maintenance credit. Approval does not imply acceptance by a state or provincial board of dentistry or AGD endorsement. The current term of approval extends to 12/31/2027.