Author's course (1 day)
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IMMEDIATE IMPLANTATION AND LOADING WITHIN THE NEW CONCEPT OF BIOINTEGRATION

Team Approach: Surgeon, Prosthodontist, Technician

Lecturer:
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EAO (European Association for Osseointegration) certified implantologist
Chief Scientific Officer of multi-specialty dental centers “DAS Group”
Clinical Expert - Founder of the implant treatment method in the concept of Biointegration.

THEORY SECTION

Biointegration in Dental Implantation

1. Definition of the Biointegration;
2. Static and dynamic Biointegration;
3. Osseointegration and Mucogingival integration;
4. Masticatory organ: TMJ, neuromuscular complex occlusal relationship, and adjacent teeth;
5. Supportive therapy: FDT, targeted immune correction;
6. Digital planning;
7. Navigational implantation;
8. 3D Gum-Bioprinting of human oral cavity soft tissues using autologous cells (review of technology development).

Concept of Mucogingival Integration in Dental Implantation

1. Criteria for success in implant treatment; Significance of soft tissues in the area of teeth and implants; Biological Width (BW) and Peri-Implant Soft Tissue Barrier (PSTB);
2. Normal and pathological physiology of PSTB; Morphology, immunology, and histostructure of peri-implant tissues. Why you need to know it and how to apply it;
3. Clinical picture of connective tissue and epithelial attachment;
4. Mucogingival Integration of Dental Implants (WHS-Concept2022);
5. Digital protocol for navigational implantation 2016 (DDS);
6. Frame Augmentation of Peri-Implant Soft Tissues 2018 (FA);
7. Immediate loading in the new concept of Biointegration.

Immediate Implantation (Basic Information)

1. Planning Immediate Implantation (indications and contraindications, diagnostic and examination methods); Surgical Navigation Templates (clinical, analog, digital);
2. Minimally Invasive Tooth Extraction, Basic Principles. Implant Placement in the Extraction Socket.
3. Bone Grafting in Immediate Implantation (bone grafts: classification and properties, principles of application);
4. Soft Tissue Management in Immediate Implantation. Tactics in the Presence of Contraindications for Superstructure Use – Insufficient Torque (socket preservation, healing abutment or short gingival former, elimination of soft tissue defect);

5. Digital and Analog Protocols for Manufacturing Temporary Crowns in Immediate Implantation.

Formation of an ideal emergence profile and PSTB using IHA

1. Planning the design of the subgingival portion individual healing abutments (IHA). Implant placement depth, preparation of the osseous bed and soft tissue contour;
2. Criteria for base selection: temporary abutments or titanium platforms. Composite veneering of the base, abutment body modeling in the oral cavity, modeling and processing of the subgingival zone;
3. Socket bone grafting, application of PRF membranes to create a prosthetic site;
4. Fixation of the individual healing abutment. Methods for monitoring the formation of the peri-implant soft tissue barrier.
5. Complications in soft tissue barrier formation and methods for managing the PSTB histostructure.