

Tufts
UNIVERSITY

DENTAL
CONTINUING
EDUCATION



SBCCB Society for Blood
Concentrates
and Biomaterials

Advanced course on
**Guided Open Wound Healing in
Oral Implantology and Bone Grafting**

Blood withdrawal, using blood concentrates and bone substitute materials with Guided Open Wound Healing from socket preservation until complex jaw augmentation.



Prof. Shahram Ghanaati

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March. 2nd, 2024 - Sat.

Total Core Academy, Dubai, UAE



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Abstract:

This one-day course offers experts in the field of regenerative dentistry comprehensive training in both theoretical principles and practical skills. The condensed format ensures an intensive learning experience focused on the essentials of regenerative dentistry.

The course day is dedicated to a well-balanced combination of didactic instruction and hands-on practice. The didactic aspect, covered in the morning session, includes fundamental topics such as the basics of blood, blood collection, wound healing after tooth extraction, and current clinical findings in regenerative dentistry. Theoretical principles of regenerative dentistry, including the production and processing of blood concentrates, selection of augmentation materials, and the significance of socket preservation, are thoroughly conveyed.

The practical part of the day encompasses essential skills training. Participants will engage in hands-on activities such as veinpuncture, manufacturing blood concentrates, atraumatic tooth extraction using piezo technology, preparation and implementation of venous blood sampling, and the application of blood concentrates to bone substitute materials. Complex augmentation procedures, involving the generation of stable bone structures for implants and the application of tissue-level implants in combination with biologized bone substitute material, are practiced.

The course ensures a deep understanding of innovative augmentation techniques, addressing cases with low bone availability. Expert knowledge and the latest research results in the field of bone augmentation are discussed. Practical experience with flexible or preformed 3D titanium meshes is gained, providing participants with valuable insights into advanced techniques.

In summary, this one-day course provides comprehensive training in both the theory and practice of regenerative dentistry, covering essential basics through to advanced techniques and applications. Participants will acquire valuable knowledge and practical skills for the successful application of blood concentrates, bone substitute materials, and modern augmentation procedures in a condensed and focused format.

Learning objectives:

- Setting up the workstation for surgery with blood concentrates
- Preparation and performance of blood collection
- Preparation and processing of blood concentrates according to LSCC
- Classification of bone defects in the maxilla and mandible and consequences for bone reconstruction
- Biomaterials and their indication-based use in dentistry
- Wound healing disorders and consequences for implantation
- Biologization of Bone substitute materials (BSM) and collagen membranes
- Production of sticky bone with different BSM
- Case discussions
- Presentation of tissue level implants
- Techniques for augmentation of vertical and lateral bone defects with simultaneous implantation

Target Audiences:



Periodontist



Maxillofacial surgeon



Implantologist



General Practitioners active in
Implantology and bone augmentation

Saturday, March. 2nd, 2024

Time	Lecturer	Subject
08:30 – 09:00		Registration
09:00 – 10:30	Prof. Shahram Ghanaati	A: Didactic Brief Welcome note and Round of introductions <ul style="list-style-type: none">• Complex augmentation and management of complications• Primary wound healing - the key to predictable soft tissue outcomes in oral implantology• Basics of blood, blood withdrawal and wound healing• Current clinical findings and theoretical foundations of regenerative dentistry• Explanation of the different areas of application of blood concentrates and bone substitute materials• Complex interaction of treatment success – wound healing - hydration, Vitamin D
10:30 – 11:00		Coffee Break
11:00 - 12:30	Prof. Shahram Ghanaati	B: Didactic <ul style="list-style-type: none">• Blood concentrates: how to manufacture and process• Overview of different bone substitute materials and membranes• Decision-making aids for choosing suitable augmentation materials• Socket preservation: importance, techniques, and materials• Benefits of selective incision for tooth extractions• Innovative augmentation techniques• Treatment of cases with low bone availability• Expertise and newest research findings about bone augmentations• Practical experiences with flexible or preformed 3D titanium meshes
12:30 – 14:00		Lunch Break
14:00 – 17:30	Prof. Shahram Ghanaati	C: Hands-on <ul style="list-style-type: none">• Atraumatic tooth extraction using piezo technology.• Preparation of blood collection (patient, workspace)• preparing and carrying out the venous blood collection• Manufacture and processing of blood concentrates• Application of blood concentrates to bone substitute materials• Complex augmentation procedures: practical training of generating of stable bone structures for implants.• Application of tissue level implants in combination with biologized bone substitute materials• Training repetition of venipuncture• Manufacture and processing of liquid and solid blood concentrates• Application of blood concentrates to bone substitute materials• Complex augmentation procedures: practical training of generating of stable bone structures for complex bone augmentations.• Training and deepening of knowledge about flexible or preformed 3D titanium meshes• Discussion of specific patient cases based on surgical video recordings
17:30 – 18:00		Q & A and Certificate Award Ceremony