

# DENTISTRY AND MAXILLOFACIAL SURGERY

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## Soft tissue augmentation by bio-materials

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**Background:** The point of the study was to decide the treatment result of the utilization of a porcine acellular collagen framework (aCM) to extend soft-tissue volume as a portion of embed location improvement.

**Materials and Methods:** Inserts were set in single destinations in 27 patients. Within the test bunch, aCM was utilized for soft-tissue increase. No graft was put within the control gather. Soft-tissue thickness (STTh) was measured at the time of surgery (T0) and 6 months postoperatively (T1) at two locales (STTh 1, 1 mm underneath the gingival edge; STTh 2, 3 mm underneath the mucogingival margin).

**Results:** Noteworthy increments ( $p < 0.001$ ) in STTh (STTh 1 = 1.06 mm, 117%; STTh 2 = 0.89 mm, 81%) were watched within the test bunch. Biopsy resulted in angiogenesis and helps in the development of connective tissue covered by a keratinized epithelium.

**Conclusions:** Inside the impediments of this consider, it may well be concluded that the utilization of the porcine acellular collagen network improves the thickness of peri-implant delicate tissue which this fabric may serve as an elective to connective tissue grafting.

### Recent Publications:

1. Baskaradoss JK, Al-Asfour A. Dental Education in an Era of COVID-19: Kuwait's Experience. *International Journal of Environmental Research and Public Health*. 2021; 18(11):5606. <https://doi.org/10.3390/ijerph18115606>
2. Zafiroopoulos G-G, Al-Asfour AA, Abuzayeda M, Kačarević ZP, Murray CA, Trajkovski B. Peri-Implant Mucosa Augmentation with an Acellular Collagen Matrix. *Membranes*. 2021; 11(9):698. <https://doi.org/10.3390/membranes11090698>
3. Farzad P, Lundgren T, Al-Asfour A, Andersson L, Dahlin C. Integration of Dental Implants in Conjunction with EDTA-Conditioned Dentin Grafts: An Experimental Study. *Dentistry Journal*. 2021; 9(6):63. <https://doi.org/10.3390/dj9060063>
4. Qasim SSB, Baig MR, Matinlinna JP, Daood U, Al-Asfour A. Highly Segregated Biocomposite Membrane as a Functionally Graded Template for Periodontal Tissue Regeneration. *Membranes*. 2021; 11(9):667. <https://doi.org/10.3390/membranes11090667>
5. Zafiroopoulos GG, Abuzayeda M, Al-Asfour AA, Qasim SSB, Pelekos G, Murray CA. Tooth-implant connection with fixed partial dentures in partially edentulous arches. A retrospective cohort study over an 11.8 year observation period. *J Clin Exp Dent*. 2021;13(7): e659-68.

### Biography

Adel Al-Asfour is the Former Dean of Faculty of Dentistry ( FOD) at Kuwait University (KU), former Vice Dean for Students Affairs and Research and Postgraduate studies at FOD, KU, Recertified Diplomat of the American Board of Oral and Maxillofacial Surgery, Consultant, and an Oral and Maxillofacial surgeon. He obtained his Bachelor of Dental sciences degree from Trinity College, Dublin, Ireland in 1991 and completed his OMFS Residency training program at University of Illinois at Chicago in 2000. He did his Trauma and Reconstructive OMFS Fellowship at Hines, USA in 2001. He practices wide scopes of oral and maxillofacial surgery specialty with special interest in Orthognathic surgery, Dentoalveolar surgery including Implants and bone grafting. His area of interest for research is bone grafting materials.

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