

# 3<sup>rd</sup> World Congress on Dentistry and Maxillofacial Surgery

July 12, 2022 | Webinar

## Poster Presentation



# 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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## E-Poster



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## Optical coherence tomography aspects in the cervical area of teeth subjected to occlusal overloads

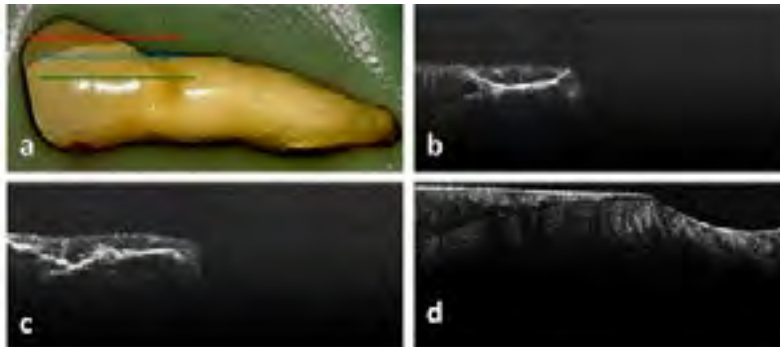
**Andreea Stanusi**

University of Medicine and Pharmacy of Craiova, Romania

**Statement of the Problem:** Teeth subjected to occlusal overloads frequently have attrition and non-carious cervical lesions (NCCL). The etiopathogenic mechanisms of NCCL are incompletely known and represent a subject of interest for specialists. Optical Coherence Tomography (OCT) is an advanced non-invasive biomedical imaging technique that allows the examination of the internal biological structure. It can be used for highlighting tooth lesions. The purpose of this study was to identify using Swept Source Optical Coherence Tomography (SS-OCT) the effects of the occlusal overloads in the cervical area of teeth and to determine which teeth are most affected.

**Methodology & Theoretical Orientation:** The study was performed on extracted teeth, priorly subjected to occlusal overloads. Selected teeth were examined macroscopically and using SS-OCT to determine the occlusal wear and the presence of NCCL and cracks in the cervical area. Findings: We established the diagnosis of occlusal wear of various degrees for all teeth. The lesions identified in the cervical area were cracks and NCCL and were found in all teeth. The buccal dental surfaces were more likely to have multiple cervical lesions.

**Conclusion & Significance:** The study showed the effects of occlusal overloads in the cervical area of teeth and established a correlation between occlusal wear and NCCL.



### Recent Publications:

1. Stănuși A, Mercuț V, Scricieiu M, Popescu SM, Iacov Crăițoiu MM, Dăguci L, Castravete Ș., Amărăscu MO. Analysis of stress generated in the enamel of an upper first premolar: a finite element study. *Stoma Edu J.* 2020;7(1):28-34.
2. Stănuși A, Mercuț V, Ionescu M, Popescu SM, Scricieiu M, Stănuși AS, Mitruț I, Ghiță RE, Turcu A, Petcu C. (2020) Investigation into knowledge of non-carious cervical lesions amongst Romanian dental practitioners – statistical study. *Romanian Journal of Oral Rehabilitation*; 12(4): 76-83.
3. Popescu, M.; Scricieiu, M.; Osiac, E.; Bătașoiu, M.; Vlăduțu, D.; Pascu, R.M.; Stănuși, A.; Glodeanu, A.D.; Ionescu, M.; Mercuț, V. Applications of Optical Coherence Tomography in the Diagnosis of Enamel Defects. *Diagnostics* 2022, 12, 636. <https://doi.org/10.3390/diagnostics12030636>

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4. Veenstra, L, Barlow, P, Kossioni, A, et al. Translation and validation of the ageism scale for dental students in Romanian (ASDS-Rom). *Eur J Dent Educ.* 2021; 25: 12– 17. <https://doi.org/10.1111/eje.12572>
5. Iăduțu D, Popescu SM, Mercuț R, Ionescu M, Scrieciu M, Glodeanu AD, Stănuși A, Rică AM, Mercuț V. Associations between Bruxism, Stress, and Manifestations of Temporomandibular Disorder in Young Students. *International Journal of Environmental Research and Public Health.* 2022; 19(9):5415. <https://doi.org/10.3390/ijerph19095415>

## Biography

Andreea STĂNUȘI is a DMD PhD graduate, Prosthodontic Medical Resident, Teaching Assistant, Department of Prosthodontics, Faculty of Dentistry, University of Medicine and Pharmacy of Craiova, Craiova, Romania. She (DOB: September 22, 1992) graduated from the Faculty of Dentistry, University of Medicine and Pharmacy of Craiova in 2017 and became Medical Resident in Prosthodontics. As a student, she held various positions: President of the Craiova Stomatology Students Society (2013-2014), Member of the Faculty Council (2016-2017), and Member of the University Senate (2016-2017). As a postgraduate her activity is still connected with the academic life. In 2021, she finished her PhD regarding the etiology of non-carious cervical lesions and became Teaching Assistant at the Department of Prosthodontics, Faculty of Dentistry, University of Medicine and Pharmacy of Craiova, Craiova, Romania.

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## Contemporary three-dimensional digital scanning approach compared to conventional impression techniques in prosthetic dentistry. Patients' perception and satisfaction

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To optimize clinical work, digital workflow is broadly introduced in dental practice, therefore it is important to get perception and feedback from patients about digital scanning. Thirty patients from prosthodontic department who needed night guards, participated in the research. Patients fulfilled anonymous questionnaires after completion of both scanning and impression. Of 30 respondents, 23 had previously undergone conventional impressions, and seven had not. Five of 30 respondents had previously experienced digital intraoral scanning. After having undergone both procedures, 26 respondents liked digital scanning more, two respondents preferred conventional impression, one had no preference and one did not reply. These preference proportions differed significantly from equal probability proportions (Chi-Squared Goodness-of-Fit test,  $X\text{-squared}(2)=41.448, p=9.991e-10$ ). Twenty-four respondents wished that next time they had digital scanning, four – conventional impression, and two had no preference ( $X\text{-squared}(2)=29.6, p=3.736e-07$ ). Mean digital scanning duration was 231.5 seconds (standard deviation - 67.9 seconds), and mean impression procedure duration – 233.5 seconds (standard deviation - 27.4 seconds). Multinomial logistic regression did not reveal any impacts of procedure type durations on respondents' procedure type preference, including having no preference at all. Association between respondents' perception of which procedure type was quicker and preference for procedure type was low (Cramer's  $V = 0.233$ ). Respondents primarily preferred digital scanning because it was: more comfortable (5 respondents), fast (4 respondents), more pleasant (4 respondents), more convenient (2 respondents), not causing gag reflex (3 respondents), a modern method (3 respondents), a clean procedure (2 respondents). There were several other individual reasons for preferring digital scanning. One respondent disliked the warming sensation from the scanner head, and one doubted the accuracy of scanning. One respondent preferred material flavour and one – jaw resting, during the conventional impression. One disliked tooth sensitivity exacerbated by conventional impression. Altogether, patients preferred digital scanning due to its superior comfort, pleasantness and convenience.



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## Recent Publications:

1. Dace Priede and Patrīcija Jurševiča (2019) Tongue thrust habit and orofacial findings of preschool children in Latvia. Dspace. lu.lv (University of Latvia)
2. Kirils Jursevics, Igor Sirotin, Patrīcija Jurševiča, Dr.med. Eduards Jursevics, Assoc.prof. Jeļena Krasilņikova (2019) The impact of biomaterials used in aesthetic medicine on the activity of enzymes in digestion "Health and social sciences".

## Biography

Patrīcija Jursevica has graduated from the University of Latvia- dentistry programme of medical faculty. She is undergoing post-graduate studies in programme of prosthetic dentistry at the Institute of Stomatology of Riga Stradiņš University (Latvia). She continuously participates in interdisciplinary seminars with doctors from other dental specialities as well leads groups of international and local students in prosthetic modules.

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