



Winter 2-22-2022

Insight - Winter 2022

Dugoni School of Dentistry

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Winter 2022

Research and Scholarship

Welcome to the winter 2022 issue of *Insight*, a newsletter celebrating the accomplishments of our community of scholars. We aim to spotlight insights from people at the Dugoni School working in all areas of scholarship, including clinical or biomedical research, the scholarship of teaching and learning, improvement of the health care system, and professional partnerships that advance the field.

Making an Impact

According to ADEA's numbers presented at a recent board of directors meeting, the Dugoni School is tied for the third highest number of publications in the high-impact Journal of Dental Education — ahead of our colleagues at Harvard and University of Illinois Chicago. Congratulations to all involved in the work and thank you for your relentless focus on excellence in all our programs. Special thanks to Dr. David Chambers!

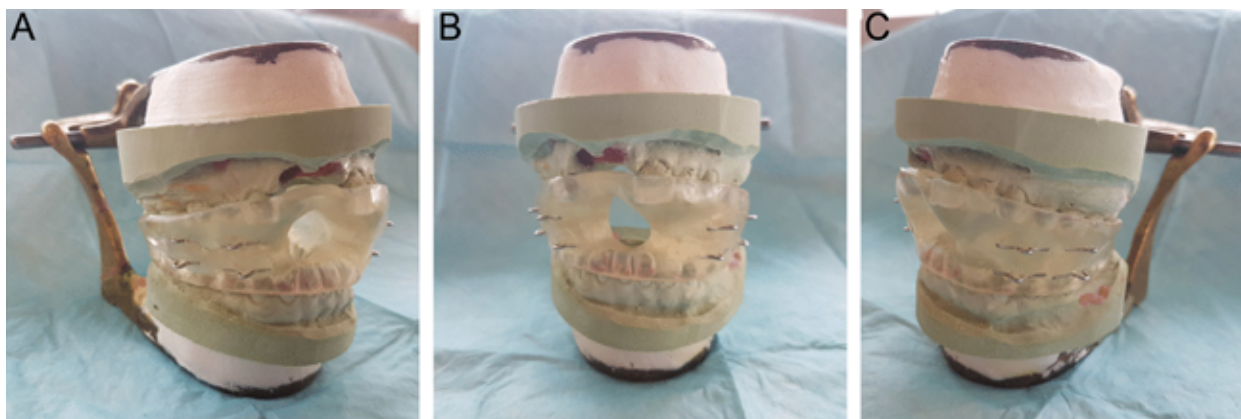
Published Articles From Dental Schools, 2021

ADEA | THE VOICE OF
DENTAL EDUCATION

In 2021 we published articles from authors at 38 U.S. dental schools and 6 Canadian dental schools.

The highest numbers from individual institutions:

- The University of Iowa College of Dentistry & Dental Clinics (7)
- University of Michigan School of Dentistry (7)
- University of North Carolina at Chapel Hill Adams School of Dentistry (6)
- NYU College of Dentistry (5)
- University of the Pacific, Arthur A. Dugoni School of Dentistry (5)
- Harvard School of Dental Medicine (4)
- University of Illinois Chicago College of Dentistry (4)



Right lateral oblique (a), frontal (b) and left lateral oblique (c) images of the intraoral appliance on mounted study models

Research in the Spotlight

Prevention of oral and maxillofacial trauma secondary to orofacial dyskinesias associated with anti-N-methyl-D-aspartate receptor encephalitis: a case series

What is it?

A new kind of oral appliance to manage damage to the orofacial area, including wounds and infections, caused by involuntary facial movements.

What problem does it aim to solve?

An autoimmune form of encephalitis causes involuntary abnormal facial movements that damage the mouth. Existing treatments such as those using wiring or botulinum toxin haven't been successful.

How does it work?

"The fabrication and wire-based fixation of a patient-specific acrylic oral appliance that maintained the mandible in a depressed position and mitigated all lateral and protrusive movements."

What are the real-world implications?

The new appliance worked successfully in two patients.

What are the next steps?

"These cases illustrate the first known successful use of an appliance-based therapy for managing orofacial dyskinesias in the anti-N-methyl-D-aspartate receptor encephalitis (NMDARE) patient population through an adaptation of traditional maxillomandibular fixation techniques. This approach eliminated further orofacial trauma and afforded physicians with safer means to manage and assess patients afflicted with this condition during their protracted intensive care unit admissions."

Source

"Prevention of oral and maxillofacial trauma secondary to orofacial dyskinesias associated with anti-N-methyl-D-aspartate receptor encephalitis: a case series", *BMC Oral Health*, 2021 Oct 10;21(1):511. doi: 10.1186/s12903-021-01783-x. <https://is.gd/futulu>

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Research and Scholarship

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David K Lam, Department of Oral and Maxillofacial Surgery, University of the Pacific, Arthur A. Dugoni School of Dentistry

Dr. Sadowsky Receives Scientific Writing Award

A special note of congratulations to Dr. Steven J. Sadowsky, Professor of Preventive and Restorative Dentistry, for a recent award. The Editorial Council for *The Journal of Prosthetic Dentistry* announced the recipients of the 28th Annual Judson C. Hickey Scientific Writing Award. This award honors the best authors in the following categories: Research and Education, Clinical Report, and Dental Technique. Dr. Sadowsky received the award for his article, "[Are Teeth Superior to Implants?](#)" which was selected for the Research and Education category. Congratulations!!



Recent Publications

Congratulations to Dugoni School faculty, staff, student and resident researchers involved in the following research publications in the last few months as sourced by Scopus, the abstract and citation database of peer-reviewed literature. Visit the abstract links to learn more.

Takizawa, K., Urata, K., Tanaka, R., Ozasa, K., Young, A., Noma, N.

Headache Attributed to Temporomandibular Disorder and Primary Cough Headache
(2022) *Neurology International*, 14 (1), pp. 158-163.

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Goldsworthy, R.L., Bissmeyer, S.R.S., Swaminathan, J.

Audibility emphasis of low-level sounds improves consonant identification while preserving vowel identification for co-chlear implant users
(2022) *Speech Communication*, 137, pp. 52-59.

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Phi, L., Albertson, B., Hatcher, D., Rathi, S., Park, J., Oh, H.

Condylar degeneration in anterior open bite patients: A cone beam computed tomography study
(2022) *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*, 133 (2), pp. 221-228.

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Hardin, A.M., Knigge, R.P., Oh, H.S., Valiathan, M., Duren, D.L., McNulty, K.P., Middleton, K.M., Sherwood, R.J.

Estimating Craniofacial Growth Cessation: Comparison of Asymptote- and Rate-Based Methods
(2022) *Cleft Palate-Craniofacial Journal*, 59 (2), pp. 230-238.

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Han, A.N., Laughter, L., Iyer, P., Radif, M.S.

A competency-based online curriculum mapping process for dental and dental hygiene education
(2022) *Journal of Dental Education*.

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Ozasa, K., Noma, N., Young, A., Korczeniewska, O.A., Eliav, E., Imamura, Y.

Potential differences in somatosensory function during premenopause and early and late postmenopause in patients with burning mouth syndrome: An observational case-control study
(2022) *Journal of Dental Sciences*, 17 (1), pp. 399-406.

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Chambers, D.W.

Issues in transferring education research across dental schools
(2021) *Journal of Dental Education*, 85 (12), pp. 1900-1905.

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Chambers, D.W.

Quality assurance and quality improvement to enhance yield in the process of dental education
(2021) *Journal of Dental Education*, 85 (12), pp. 1894-1899.

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Chambers, D.W.

Using program yield to guide dental educational process improvement
(2021) *Journal of Dental Education*, 85 (12), pp. 1889-1893.

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Contact *Insight*

Have a suggestion for the next issue of *Insight*? Contact Dr. David Ojcius, Assistant Dean for Research and CoChair of the Department of Biomedical Sciences, for editorial suggestions or to learn more about how to get involved in research at the Dugoni School. Email: dojcius@pacific.edu.