

# Federal Advisory Committee on Training in Primary Care Medicine and Dentistry – HRSA

Nader A. Nadershahi, DDS, MBA, EdD

Chairperson - ADEA  
Dean and Vice Provost  
University of the Pacific  
Dugoni School of Dentistry



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**PACIFIC**  
Arthur A. Dugoni  
School of Dentistry



MOLINARI  
GREAT HALL

CAFÉ CAGNIOL



# COVID-19 Pandemic – Initial response

- Shelter in place and closure of Dental Clinics and Schools
- Health and Safety priority
- Air flow assessment / Air filtration / Mitigation units
- PPE sharing
- ADEA / COD, Org Dentistry, Boards
- Public / Private partner groups



← Tweet



CIR/SEIU  
@cirseiu



Today our members picked up 150 face shields donated by Supervisor Matt Haney and UOP Dental School Dean Dr. Nadershahi. Thank you! Pictured below is Dr. Josh Bukowski, EM PGY-4 and CIR Delegate, John Fazio, CNS & RN in the SF General ED (1021 member) and Deborah Robinson, SF DPH



You and Matt Haney

12:55 PM · Apr 14, 2020

The menu board displays the following icons and labels:

- NEWS (Campus News)
- COVID-19
- Daily Messages
- Links
- UMAYU 12 (Events)
- Campus Map
- Twitter
- Multimedia
- Weather
- Directory
- Alumni
- Admissions
- Library
- Facebook
- Groups
- Notifications

Navigation bar at the bottom:

- HOME
- CONTACT
- VIDEOS
- PICS
- SHARE

A service counter area featuring a laptop displaying a website, a barcode scanner, and a person using a smartphone. The person is wearing a white face mask and a black backpack. The counter is positioned in front of a large digital menu board.

A person wearing a black jacket and a blue face mask stands near a glass entrance. In the background, another person wearing a white shirt and a white face mask is visible. The scene is set in a modern building with large glass windows.





# Online learning/assessment/communication

- Zoom/Teams... for classes/meetings/town halls/brown bags
- Asynchronous or hybrid learning
  - Video recording of lectures
  - Zoom for lectures/seminars/case discussions
  - Zoom for OSCE, standardized patients
- ExamSoft/ExamMaster (Monitoring, lockdown browser, verification, etc.)

# SoftChalk: ER virtual cases with self-assessment

Actual cases that provide students with additional experiences that are commonly seen in providing emergent care that they may not encounter in the ER rotation.

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## Emergency Rotation


Case One

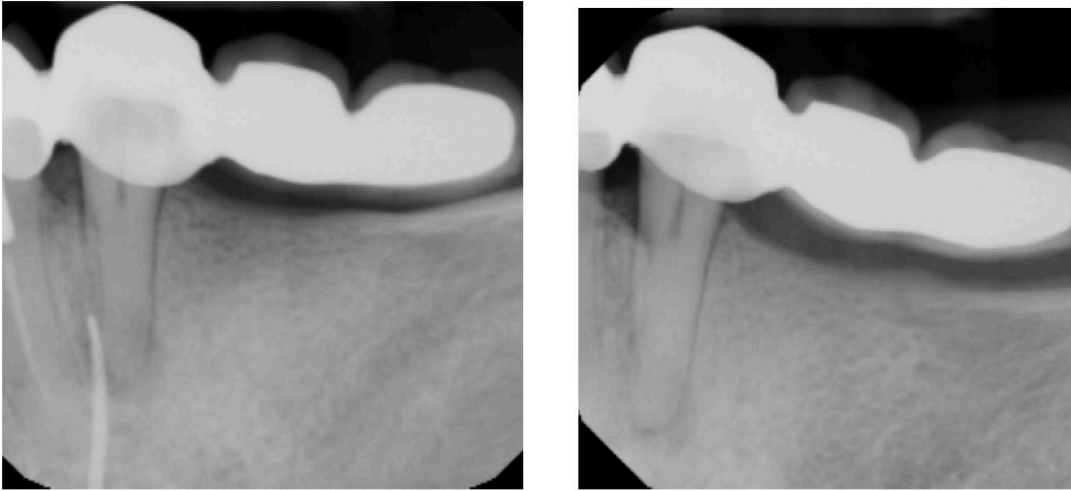
< 3 of 4 > Score: 0 of 10

Contents ^

- Page 1
- Page 2
- Page 3
- Page 4

Patient states she was given antibiotics for the lesion on her face and she tells you this has been draining for 3-4 months with no pain. Daughters tried draining this area several times and it would not resolve.





Based on the x-ray shown above, answer the following two questions.

Value: 2

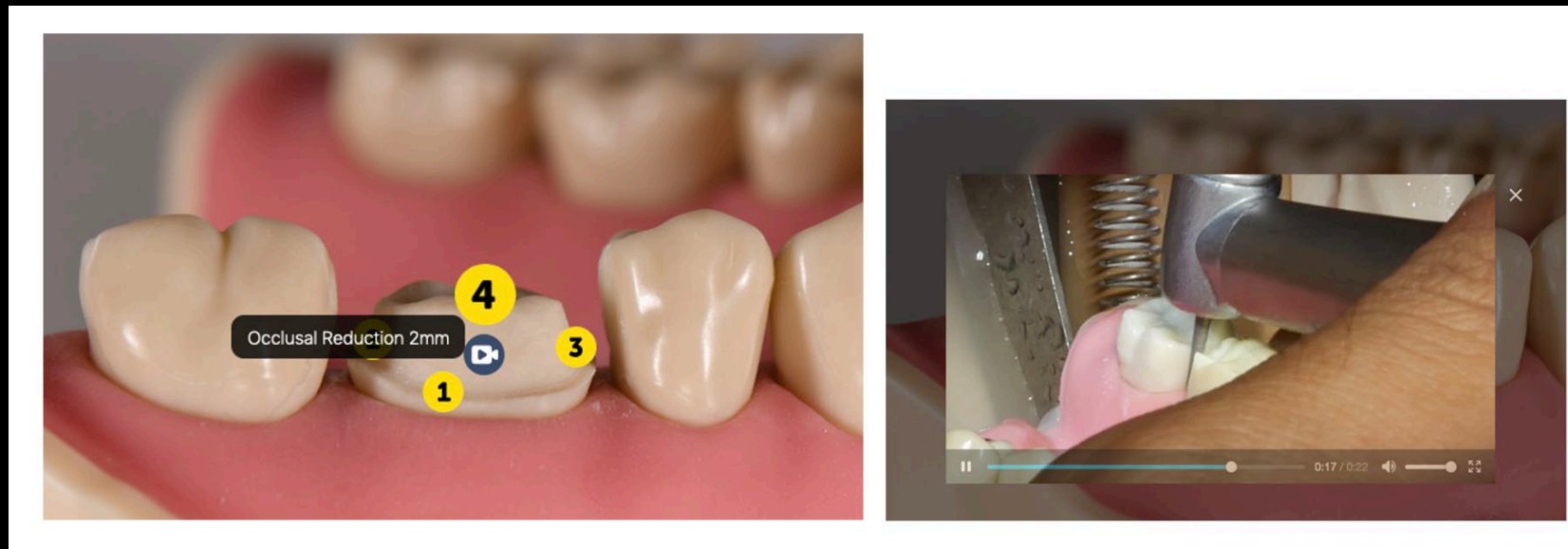
What is your pulpal diagnosis?

Check Answer



# ThingLink: interactive and immersive learning

- To create interactive and immersive learning experiences.
  - Images and videos with clickable tags and icons
  - Branching scenarios
  - Virtual escape rooms



**Figure.** Example of a lithium disilicate(LDC) preparation. The tagged areas on the image (**Left**) are ideal criteria for a LDC preparation. There is also an embedded video on this image. When students click on the video icon on the image, it will play the video (**Right**).

# Virtual reality: dental emergency

- A virtual environment wherein learners can engage with various clinical scenarios involving patient avatars, dental personnel and medical equipment consistent with a real-world dental office.
- To train students to develop skills for recognizing a patient requiring urgent or emergent care and initiating evaluation and management in a dental setting.

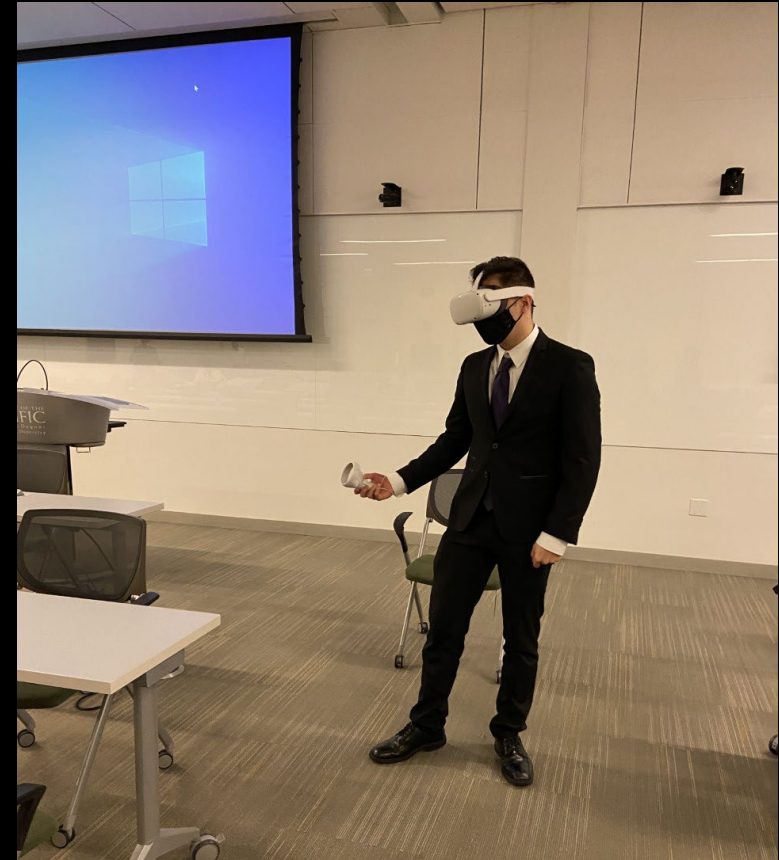


[https://youtu.be/YSNr\\_JijCcc](https://youtu.be/YSNr_JijCcc)



# Virtual reality: local anesthesia

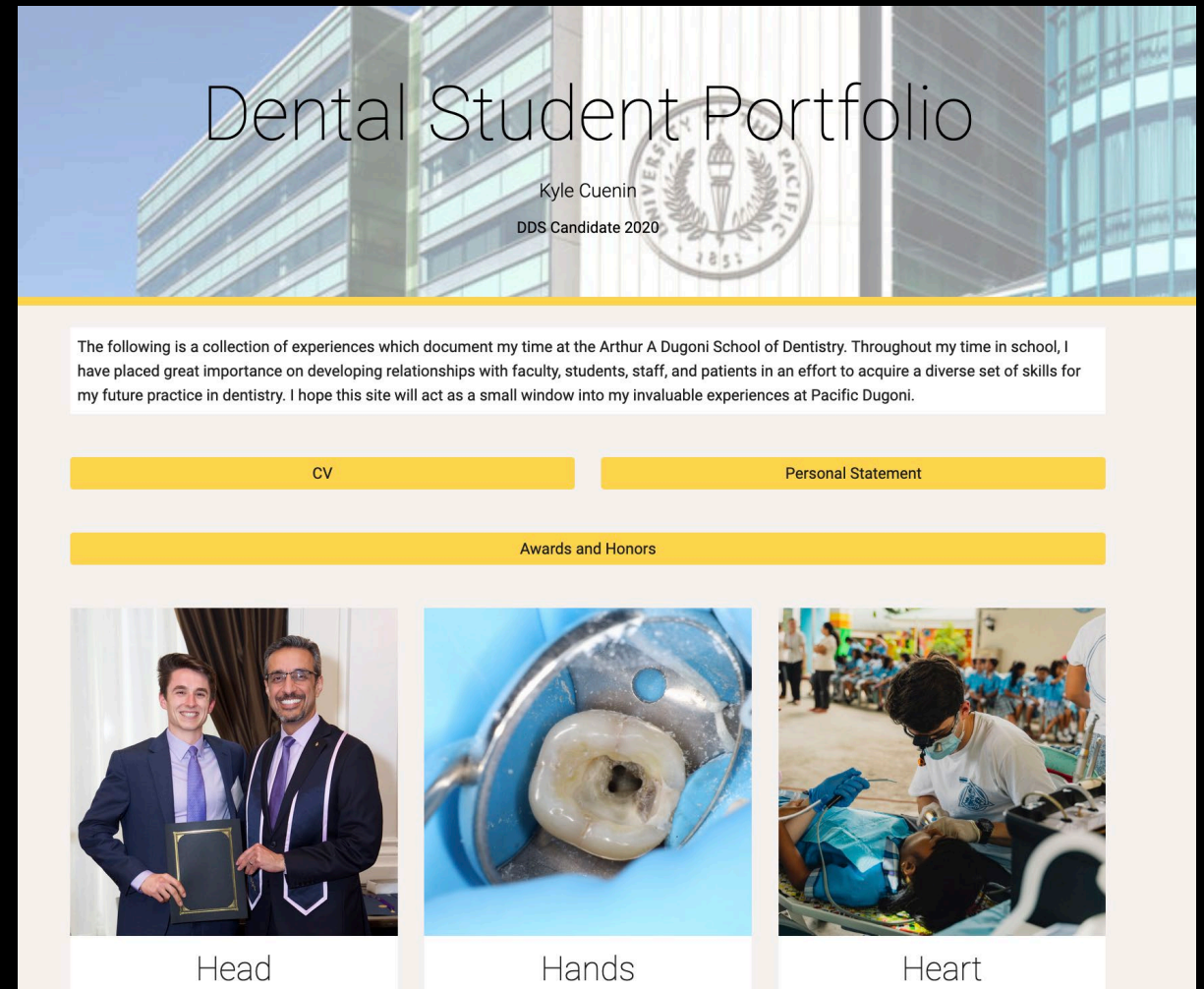
- To provide more opportunities to have additional practice and reduce anxiety prior to entering clinic.
- **Phase 1:** to allow students opportunity to “journey” by calculating, choosing armamentarium, and positioning patient to deliver injection technique.



A DDS student demonstrating the technology.

# Competency assessment: web-based e-portfolios

- Starting with the Class of 2020, predoc students are required to submit a web-based e-portfolio as a new graduation requirement.
- Students demonstrate their body of work with such things as clinical cases, outreach activities, self-evaluation, and reflection.



Dental Student Portfolio

Kyle Cuenin  
DDS Candidate 2020

The following is a collection of experiences which document my time at the Arthur A Dugoni School of Dentistry. Throughout my time in school, I have placed great importance on developing relationships with faculty, students, staff, and patients in an effort to acquire a diverse set of skills for my future practice in dentistry. I hope this site will act as a small window into my invaluable experiences at Pacific Dugoni.

CV Personal Statement

Awards and Honors

Head Hands Heart



# Remote proctoring



## Welcome to ExamID

ExamID will verify your identity by using your camera throughout the assessment. We'll help get you setup in the next few screens.

[Get Started](#)

[Return to Dashboard](#)



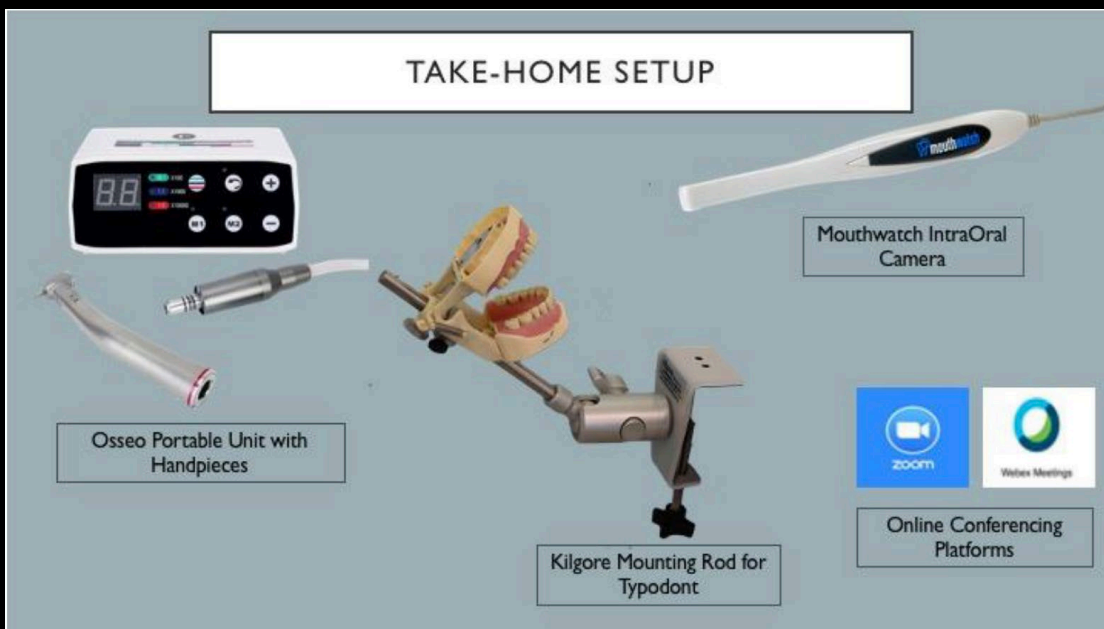
# Simulation and Clinical

- Emergency care to prevent ED visits
- Take home kits for simulation training
- Faculty feedback using technology
- Telehealth
- Intraoral cameras
- Scopes and displays for preclinical and clinical education
- 3D printing and milling
- Telehealth visits (Webcams, Zoom Health)



# Innovative technology to provide remote feedback

- Each student was provided with a take home kit (Left).
- As students were practicing their preparations remotely, faculty provided instructions or feedback via Zoom (Right).

















# New approaches to community outreach!

## Dugoni students find creative ways to deliver health outreach programs

NOV 10, 2020



While the Dugoni School's dental clinics at the San Francisco campus are open and students and residents are providing care on site, their offsite community outreach is taking new forms as health fairs and other community events have shifted to virtual formats. Fortunately, Dugoni School students and faculty are finding creative new ways to provide oral health outreach to serve the needs of the Northern California community.

support for members of the Chinatown community, including facilitating an online workshop on children's oral health with an opportunity to "Ask the Doctor." These oral health prevention virtual presentations were followed by a Q & A session.

SCOPE volunteers collaborated with Sonrisas Dental Health Clinics in San Mateo, providing Cantonese translation for its online oral health Zoom presentations. They conducted several practice sessions, which made for an entertaining, interactive and bilingual outreach program for parents, caregivers and children.

"The Chinatown Health Fair has always been a great opportunity for Dugoni School students to promote oral health and give back to the community. Despite the pandemic restrictions, we are honored to provide interactive oral health prevention tips in Cantonese," said Denise Ng, DDS 2022, who serves as SCOPE's Chinatown projects coordinator. "We cherished collaborating with a dedicated team that produced our first-ever virtual event to bring oral health awareness to the next generation!"

For more information on SCOPE, visit [dental.pacific.edu/dental/SCOPE](https://dental.pacific.edu/dental/SCOPE).





## First Dugoni School Dental Students Give COVID-19 Vaccines as Part of Expanded Scope of Practice



Since January 2021, University of the Pacific's Arthur A. Dugoni School of Dentistry in San Francisco has stepped up to host 25 clinics for COVID-19 vaccines to support the community, organized by over 250 volunteer students, faculty and staff.

Now, dental students in the DDS program are taking an even greater role in these clinics by administering vaccine doses directly to patients themselves. Previously, only faculty dentists performed the vaccinations.

On Oct. 21, 2021, Angelica Amatangelo DDS '23 became the first dental student at the Dugoni School to administer a COVID-19 vaccine to a patient.

"I'm honored to be on the front line as one of the first dental students in the country to administer COVID-19 vaccines," said Amatangelo. "Being able to





# Continued Barriers

- Finance
- Shifting expectations about in-person education and work
- Patient flow and reimbursement
- Zoom and Team options provide flexibility with scheduling
- Student/employee mental health and resilience
- Students on rotation might have difficulty accessing WIFI to watch lectures/complete coursework in remote locations
- Infrastructure improvements to reduce potential spread of aerosolized material

# Continued Barriers

- Faculty/Staff recruitment and development on new andragogy
  - Workforce shortages
- Impact of COVID on faculty and staff retirements, leaves, and life changes
- Impact of COVID and other illness on faculty, staff, and students
- The cost and manpower for online/hybrid technologies such as Exam ID/Monitor through ExamSoft

# Thoughts on overcoming barriers

- Lowering cost and increased financial support for clinics
- Reimbursement for services like tele-dentistry, diagnostic, vaccination
- Financial resources for educators to support faculty development
- Funding and faculty release time to develop course work that can be delivered in an asynchronous format
- Faculty/staff recruitment – increased staff salaries
- Available workforce (Increased allied workforce)
- More attention to mental health issues
- Continued IT/AV support and funding
- Building renovations



# Thank You



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