COVID-19 & DENTISTRY

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To help limit the spread of Coronavirus (COVID-19), the American Dental Association and Center for Disease Control and Prevention have requested all dental offices pause their non-urgent services and elective procedures [1]. COVID-19 is a widespread illness caused by a virus that can spread from person to person [2]. COVID-19 symptoms can range from mild or no symptoms to severe [2]. Generally dental offices are not equipped to deal with this type of virus, such as airborne infection isolation rooms, one client rooms, or enough safety masks [1].

Although emergency dental treatment is still available, in the current situation, dental informatics tools have been leveraged to support dental evaluations. For example, teledentistry has been an effective way to evaluate patients according to to their dental or oral problems. "Teledentistry is the use of electronic information imaging and communication technologies, including interactive audio, video, data communication, as well as store and forward technologies, to provide and support dental care delivery, diagnosis, consultation, treatment, transfer of dental information and education [3]." With common tools, such as, laptop webcams, and smartphones, dentist are able to visit with patients virtually thus reducing the risk of exposure and delivering care in the safest manner [4]. Along with this recommendation, there is a push to request policy changes for an increase in the use and regulations of teledentistry [4].

The American Dental Association has resources for dental providers returning to work, including pre-appointment screenings and reception area preparation [5]. Using professional judgement based on the country's reopening and COVID-19 cases in the area, the toolkit provides guidance with welcome back letters to patients, in-office patient registration procedures, chairside checklist, staff protections strategies, and supply shopping list [5]. Additionally there is a recommendation to have a soft opening with staff to discuss strategies and practices.

1 https://www.webmd.com/lung/coronavirus-dental-care#1
2 https://www.cdc.gov/coronavirus/2019-ncov/downloads/2019-ncov-factsheet.pdf
3 https://www.americanteledentistry.org/facts-about-teledentistry/
4 https://www.biospace.com/article/releases/the-importance-of-teledentistry-during-the-coronavirus-pandemic/
5 https://www.ada.org/en/publications/ada-news/2020-archive/april/ada-task-force-assembles-interim-guidance-toolkit-for-dentists-returning-to-work

Integrating Informatics into Clinical Education Programs
(co-sponsored with Education Working Group)

The purpose of this panel is to comment on the status of informatics education in health professions from student, faculty, and administrative perspectives. Our goal in prioritizing informatics education in health professional training is to optimize the use and positive impact on informatics in health care.

Panel Organized by:
Karmen S. Williams, DrPH, MBA, Consultant, Senyaun Consulting, TX, USA
Kristine M. Alpi, MLS, MPH, PHD, Associate Professor, University Librarian, Oregon Health & Science University, OR, USA
Suzanne Cox, PhD, Associate Dean, University of Chicago, IL, USA
Neel Shimpi, BDS, MM, PhD, Associate Research Scientist, Center for Oral and Systemic Health (COSH), Marshfield Clinic Research Institute, WI, USA

Presenters:
Rand Wilbert, AA, BS Candidate, PharmD Candidate, St. Jude Children's Hospital, University of Tennessee Health Science Center (Moderator), TN, US
Ashwini Davison, MD, MS, Assistant Professor of Medicine, John Hopkins School of Medicine, MD, USA
Raoul Wadhwa, BA, Medical Student, Cleveland Clinic Lerner College of Medicine, Case Western Reserve, OH, USA
Juliana Brixey, PhD, MPH, RN, Associate Professor, The University of Texas Health Science Center at Houston, TX, USA
Shrey Lakhotia, BDS, MPH, Research Fellow, Beth Israel Deaconess Medical Center, MA, USA

Integrating Pharmacogenomics and Informatics Approaches to Support Precision Medicine for Improved Patient Outcomes

The overarching objective of the workshop is to equip attendees with practical competencies surrounding emerging concepts of pharmacogenomics and application of informatics to models of care across dental and medical practice.

Workshop Organized by:
Neel Shimpi, BDS, MM, PhD, Associate Research Scientist, COSH, Marshfield Clinic Research Institute, WI, USA

Presenters:
Khoa A Nguyen PharmD, Clinical Assistant Professor, Department of Pharmacotherapy and Translational Medicine, University of Florida, College of Pharmacy, FL, USA
Mike Durkin MD,MPH, Assistant Professor of Medicine, Division of Infectious Diseases, Department of Internal Medicine, Washington University School of Medicine in St. Louis, MO, USA
Rashmi Mishra DMD, Assistant Professor, Department of Oral Medicine, School of Dentistry, University of Washington, WA, USA
Scott Hebbring, PhD, Research Scientist-Geneticist, Center for Precision Medicine Research, Marshfield Clinic Research Institute, WI, USA

Actionable Opportunities for Improving Opioid Prescribing through Use of Informatics

The purpose of this panel is to provide an overview of implementation strategies and current initiatives that are undertaken for the establishment of informatics infrastructure for opioid management. Our goal is to promote informatics approaches to achieve best practices for opioid management facilitate reduction of adverse outcomes currently associated with opioid utilization.

Panel Organized by:
Neel Shimpi, BDS, MM, PhD, Associate Research Scientist, COSH, Marshfield Clinic Research Institute, Marshfield, WI, USA
Karmen S. Williams, DrPH, MBA, Consultant, Senyaun Consulting, TX, USA
Alexander Alekseyenko, PhD, Associate Professor, Program for Human Microbiome Research, Biomedical Informatics Center, Medical University of South Carolina, SC, USA

Presenters:
Alexander Alekseyenko, PhD, Associate Professor, Program for Human Microbiome Research, Biomedical Informatics Center, Medical University of South Carolina, SC, USA
Thomas Reese, PharmD, PhD, Research Associate, Department of Biomedical Informatics, University of Utah, UT, USA
Christopher A. Harle, PhD, Professor and Chief Research Information Officer, Department of Health Outcomes and Biomedical Informatics, College of Medicine, University of Florida, University of Florida Health, FL, USA
Radha Nagarajan, PhD, Director, COSH, Marshfield Clinic Research Institute, WI, USA
Yeomy Waller, BS, MS, MBA, PMP, MPEHR, FHIR, HIT, HIFIVE, Chief Data Scientist, DentaLens, Inc., VA, USA

COLLABORATIONS

DENTAL INFORMATICS WORKING GROUP + EDUCATION WORKING GROUP

On March 11, 2020, the DI-WG joined AMIA's Education Working Group monthly meeting. After visiting the DI-WG poster presentation at the 2019 AMIA Annual Symposium, Dr. Suzanne Cox, Chair, and Dr. Kristine Alpi, Chair-Elect of the Education Working, invited the DI-WG to a collaborative discussion on the 'State of Dental Informatics Education. Dr. Neel Shimpi, Chair and Dr. Karmen Williams, Chair-Elect, opened the discussion giving a general overview of the Dental Informatics Working Group, followed by Dr. Thankam Thyvalikakath, Director of the Dental Informatics Core Group and Associate Professor at Indiana University School of Dentistry. providing an expert discussion of dental informatics education. Students, Raoul Wadhwa (3rd Year Medical Student at Cleveland Clinic Lerner College of Case Western Reserve) and Mousa Ghannam (1st year candidate, DMD at University of Pennsylvania School of Dental Medicine), also added perspective in the conversation. The Education Working Group asked engaging questions regarding developing targeted curriculum and informatics training in dentistry. We look forward to other collaborations in meetings, presentations, and collective work in the future.

DI-WG MANUSCRIPT DEVELOPMENT

Building on the presentations from the 2019 AMIA Annual Symposium, the DI-WG will develop three manuscripts for journal publication. These manuscripts will focus on 'Review of Dental Informatics Research, 2005 and forward', 'Actionable Opportunities for Improving Knowledge at Intersection of Dental and Medical Data' and 'Transforming Data into Actionable Insights Towards Patient-Centered Care, focusing on Teledentistry, Usability, and Dental Public Health'. We welcome your input and participation. Please email us if you are interested.

To ensure dissemination of information and successful communication, we will have quarterly phone meetings and webinars.

Quarter 2 phone meeting is **canceled**, but we will reconvene on Wednesday, September 2, 2020.

We look forward to meeting you and having your input!

DENTAL INFORMATICS WORKING GROUP

Quarterly Phone Meeting

September 2
December 2

12:00 pm - 1:00 pm EST

Join meeting from your **computer, tablet** or **smartphone**:

https://global.gotomeeting.com/join/759251021

Or by **phone**:
US: +1 (669) 224-3319
Access Code: 759-251-021

YOU'RE INVITED TO PRESENT!

AMIA DENTAL INFORMATICS WORKING GROUP

QUARTERLY WEBINARS

AMIA DENTAL INFORMATICS WORKING GROUP

WAITING FOR YOU!

Potential topics:

ADA Informatics Standards

Education & Training

Private Practice & Informatics

Email us if you have more ideas or would like to present!

We look forward to meeting you and having your input!

QUARTER 2 EVENTS

MAY 19-21, 2020

AMIA 2020 VIRTUAL CLINICAL INFORMATICS CONFERENCE

We would like to highlight you and your dental informatics work in next quarter's newsletter.

Contact:

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