

Global Health Starter Kit for Pre-Doctoral Dental Education

Module 7: COVID-19- Global Lessons for a Global Profession

PLEASE READ ALL INFORMATION AND INSTRUCTIONS

How to Prepare:

Please plan for approximately 3 hours to complete Module 6. This includes pre-readings, watching the video, and noting your answers to questions posed throughout the video.

What to Know:

Pay attention to the Learning Objectives of the module, as well as Key Messages outlined throughout the video and questions we pose along the way. These together indicate the take-home concepts you should master for this module.

What to Do:

Pre-readings

- Jiang CM, Duangthip D, Auychai P, et al. Changes in Oral Health Policies and Guidelines During the COVID-19 Pandemic. *Front Oral Heal.* 2021;2. <https://doi.org/10.3389/froh.2021.668444>
- Patton LL. Viral pandemics and oral health: Lessons learned from HIV to SARS-CoV-2. *Oral Surg Oral Med Oral Pathol Oral Radiol.* 2021;131(2):149-153. <https://doi.org/10.1016/j.oooo.2020.10.022>
- Singh S. Public Oral Health Care During COVID-19: Time for Reflection and Action. *Front Med.* 2021;8. <https://doi.org/10.3389/fmed.2021.610450>
- Giraudeau N, Varenne B. Advocacy for a Digital Oral Health That Leaves No One Behind. *JDR Clinical & Translational Research.* 2022;7(1):25-28. <https://doi.org/10.1177/23800844211026610>

Optional Readings

- Kamel, A., Basuoni, A., Salem, Z. et al. The impact of oral health status on COVID-19 severity, recovery period and C-reactive protein values. *Br Dent J* (2021). <https://doi.org/10.1038/s41415-021-2656-1>
- Luzzi, V.; Ierardo, G.; Bossù, M.; Polimeni, A. COVID-19: Pediatric Oral Health During and After the Pandemics. Preprints 2020, 2020040002. <https://doi.org/10.20944/preprints202004.0002.v1>
- Seneviratne CJ, Lau MWJ and Goh BT (2020) The Role of Dentists in COVID-19 Is Beyond Dentistry: Voluntary Medical Engagements and Future Preparedness. *Front. Med.* 7:566. <https://doi.org/10.3389/fmed.2020.00566>
- Daly J, Black EAM. The impact of COVID-19 on population oral health. *Community Dent Health.* 2020;37(4):236-238. Published 2020 Nov 30. https://doi.org/10.1922/CDH_Dec20editorialDalyBlack03
- Brian Z, Weintraub JA. Oral Health and COVID-19: Increasing the Need for Prevention and Access [published correction appears in *Prev Chronic Dis.* 2020 Aug 27;17:E93]. *Prev Chronic Dis.* 2020;17:E82. Published 2020 Aug 13. <https://doi.org/10.5888/pcd17.200266>

- Brondani M, Donnelly L. The HIV and SARS-CoV-2 Parallel in Dentistry from the Perspectives of the Oral Health Care Team. JDR Clin Trans Res. 2021;6(1):40-46. <https://doi.org/10.1177/2380084420961089>
- Kline, N. (2012), "There's Nowhere I Can Go to Get Help, and I Have Tooth Pain Right Now: The Oral Health Syndemic Among Migrant Farmworkers in Florida." Annals of Anthropological Practice, 36: 387-401. <https://doi.org/10.1111/napa.12010>
- Glick M, Wolff MS, Carrasco-Labra A. COVID-19 and scientific illiteracy, a syndemic. J Am Dent Assoc. 2021;152(12):967-968. <https://doi.org/10.1016/j.adaj.2021.09.013>
- Chi DL. Caregivers who refuse preventive care for their children: the relationship between immunization and topical fluoride refusal. Am J Public Health. 2014;104(7):1327-1333. <https://doi.org/10.2105/AJPH.2014.301927>

After completing the readings, please watch the Module 7: **Global Oral Health for Pre-Dental Students**. Please refer to the video notes supplement document to support your learning and viewing.

The Learning Process for Module 7:

The process of creating and designing this module took place in the following order:
Competencies Learning Objectives Evaluation Metric Content Pedagogy Evaluation Measure

Module	Themes	Related Competencies	Collaborating Author (with Brittany Seymour-project PI)
7	COVID-19's Impact on Oral Health and Dental Care: What Next?	<p>1.2.3. Identify and describe reciprocal links among oral diseases, systemic diseases, and general health.</p> <p>3.1.2. Recognize the different roles and responsibilities of medical and non-medical professionals in oral health promotion, disease prevention, and, if applicable, treatment, care, and referral.</p> <p>2.3.2. Identify and advocate to address specific oral health needs and reduce inequities and health care system deficits.</p>	<p><u>Bree Zhang</u> Brown University Pre-dental Society President DMD Candidate at Columbia School of Dental Medicine</p> <p><u>Tooka Zokaie</u> Tooka Zokaie, MPH, MAS Senior Health Policy Analyst California Dental Association</p>

Related competencies:

- 1.2.3. Identify and describe reciprocal links among oral diseases, systemic diseases, and general health.
- 3.1.2. Recognize the different roles and responsibilities of medical and non-medical

professionals in oral health promotion, disease prevention, and, if applicable, treatment, care, and referral.

2.3.2. Identify and advocate to address specific oral health needs and reduce inequities and health care system deficits.

Learning Objectives:

- **Describe** the reciprocal links between oral health and COVID-19 risk and severity
- **Evaluate** the impacts of the pandemic on the dental workforce and global oral health in the syndemic context.
- **Identify** shortcomings within the oral healthcare system and opportunities for growth highlighted by COVID-19.

Module Content Themes: Oral systemic link, COVID-19's impact on provision of dental care, syndemics, teledentistry, restructuring oral healthcare systems.

Evaluation metric:

Pass:

- Students are able to identify at least 3 reasons poor oral health is a risk factor for COVID-19 and describe the major social determinants that lead to exacerbation of both diseases for vulnerable populations.
- Students are able to describe at least three synergistic epidemics (syndemics) that have impacted oral health in the context of COVID-19.
- Students are able to name at least 1 social, 1 economic, and 1 structural barrier that worsened oral health outcomes and describe how these barriers overlap or form a vicious cycle.
- Students are able to compare and contrast COVID-19 effects on the provision of care in different countries and name at least 2 similarities and differences between COVID-19 and HIV/AIDS impact on the dental workforce.
- Students are able to identify at least 3 opportunities highlighted by the pandemic/syndemic for the dental profession to grow and improve and describe how teledentistry can play a role in this paradigm shift.

Critical Error:

- Students are not able to identify at least 3 reasons poor oral health is a risk factor for COVID-19 and cannot describe the major social determinants that lead to exacerbation of both diseases for vulnerable populations.
- Students are able to describe at least three synergistic epidemics (syndemics) that impact oral health. Or students cannot identify that COVID-19 worsened population oral health.
- Students are not able to name at least 1 social, 1 economic, and 1 structural barrier that worsened oral health outcomes. Students cannot describe how these barriers overlap or form a vicious cycle.
- Students cannot name at least 1 social, 1 economic, and 1 structural impact from COVID-19 that affected population oral health.
- Students are not able to compare and contrast COVID-19 effects on the provision of care in different countries and cannot name at least 2 similarities and differences between COVID-19 and HIV/AIDS impact on the dental workforce.

WHO Videos on COVID-19 available in different languages:

Arabic

- 1 - <https://youtu.be/6ZkqoR-JFS8>
- 2 - <https://youtu.be/9d0zHmjZOQU>
- 3 - <https://youtu.be/wvCQ7Pwh7Cw>

Chinese

- 1 - <https://youtu.be/XODXVpXOs54>
- 2 - <https://youtu.be/ReSYiZrk1gk>
- 3 - <https://youtu.be/zLfK3wgaIWU>

Russian

- 1 - <https://youtu.be/2HUSIvVWwr0>
- 2 - <https://youtu.be/lr1djVWrFNA>
- 3 - <https://youtu.be/jAZ9R8e7CL4>

Portuguese

- 1 - <https://youtu.be/X8GNejvy37U>
- 2 - https://youtu.be/r4SjPl8_4Ww
- 3 - <https://youtu.be/-oKa0YiqmOk>

Spanish

- 1 - <https://youtu.be/KdrIb8XD3II>
- 2 - <https://youtu.be/yU5ys3SEkxo>
- 3 - https://youtu.be/wvlMtNj_gHI

English

- 1 - <https://youtu.be/BFHnX7yr0tI>
- 2 - <https://youtu.be/Cudp8-JOG1A>
- 3 - <https://youtu.be/2ZH9ym79GU0>

French:

- 1 - <https://youtu.be/DrZbMCBj4Tw>
- 2 - <https://youtu.be/Wql7ulGZ4gI>
- 3 - <https://youtu.be/SaDQdHvd-ao>