



GLOBAL HEALTH STARTER KIT FOR DENTAL EDUCATION

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

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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.



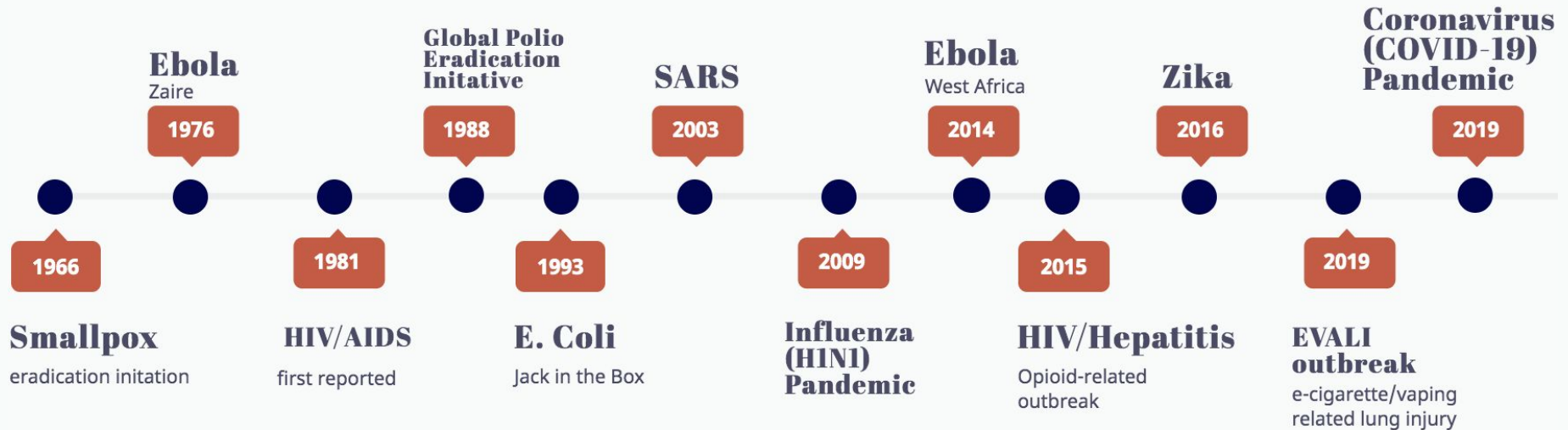
Learning Objectives

By the end of this module, students should be able to do the following:

- **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.
- **Identify** shortcomings within the oral healthcare system and opportunities for growth highlighted by COVID-19.

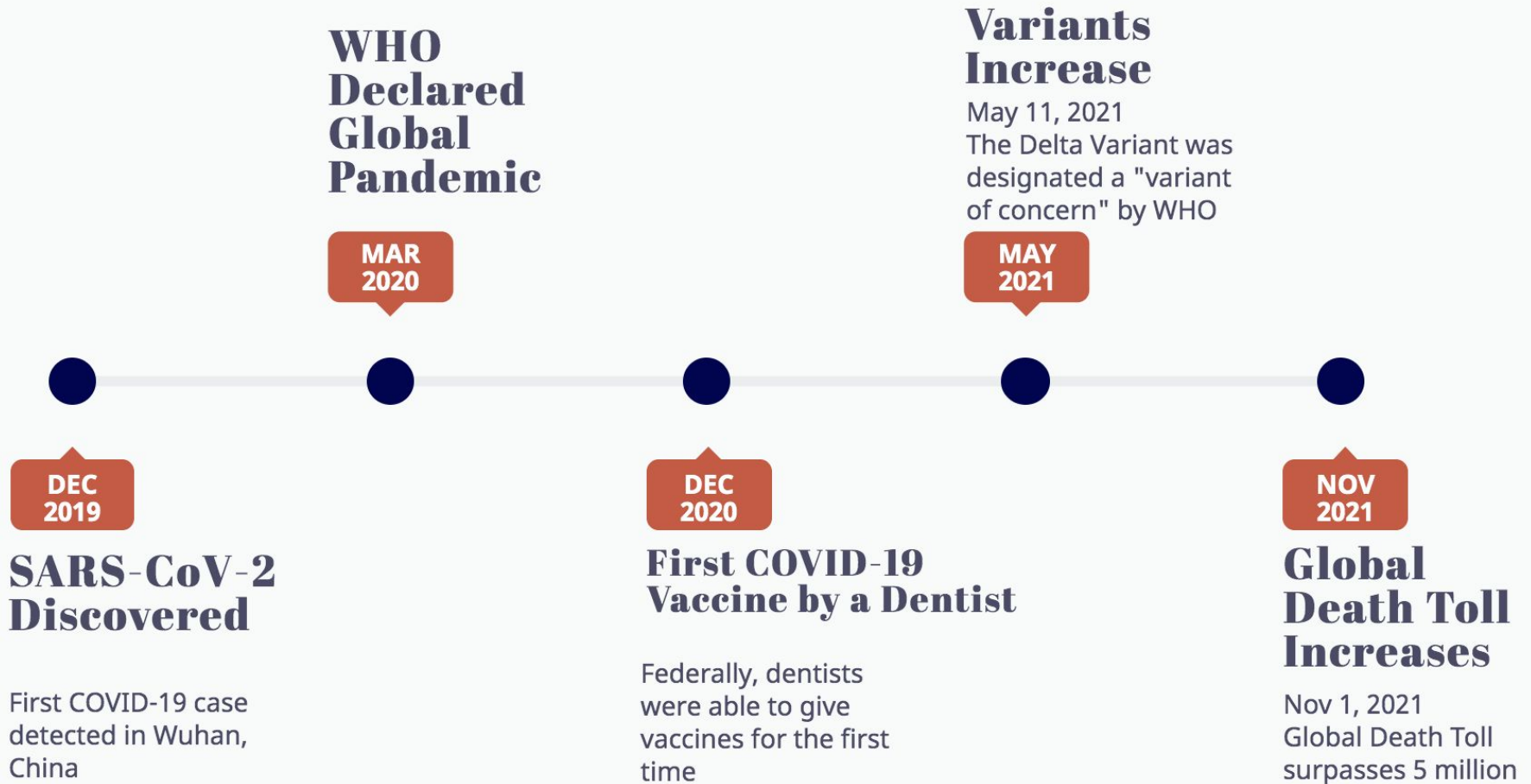


Timeline of Major Outbreaks





COVID-19: a brief overview



Transmission and Symptoms



Transmission

Via infected secretions
(respiratory and saliva
droplets)

- Think **aerosols** in dental
practices

Transmission and Symptoms



Transmission

Via infected secretions
(respiratory and saliva
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- Think **aerosols** in dental
practices



Symptoms

Fever, chills, dry cough,
fatigue, shortness of breath,
muscle pain and diarrhea

Ageusia: loss of taste + smell
→ implications of oral mucosa

Transmission and Symptoms



Transmission

Via infected secretions
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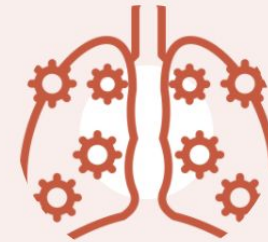
- Think **aerosols** in dental
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Symptoms

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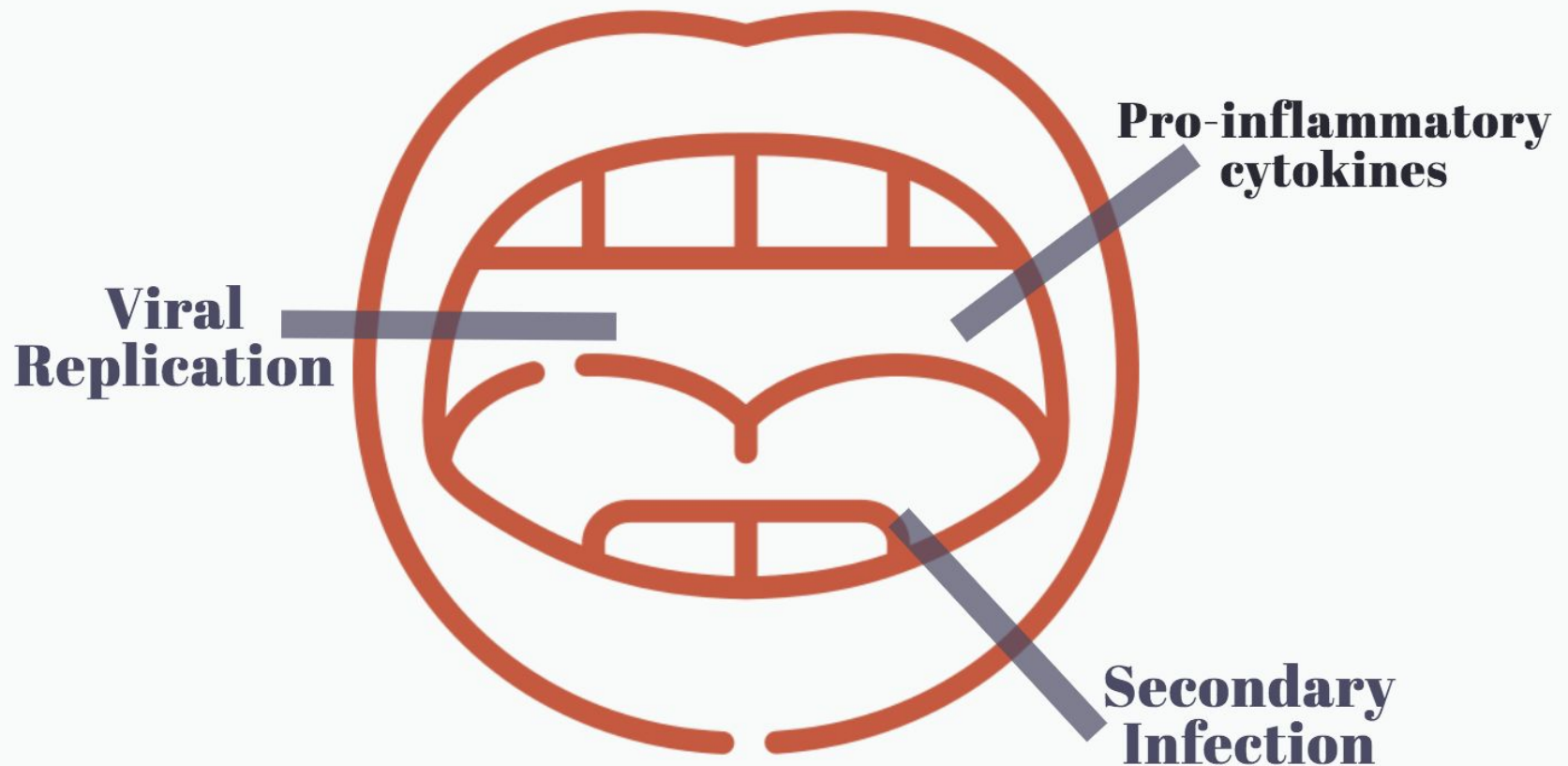
Mortality

Severe pneumonia and
acute respiratory distress
syndrome (ARDS)

Linked with **cytokine storm**

Oral Health Affects COVID-19

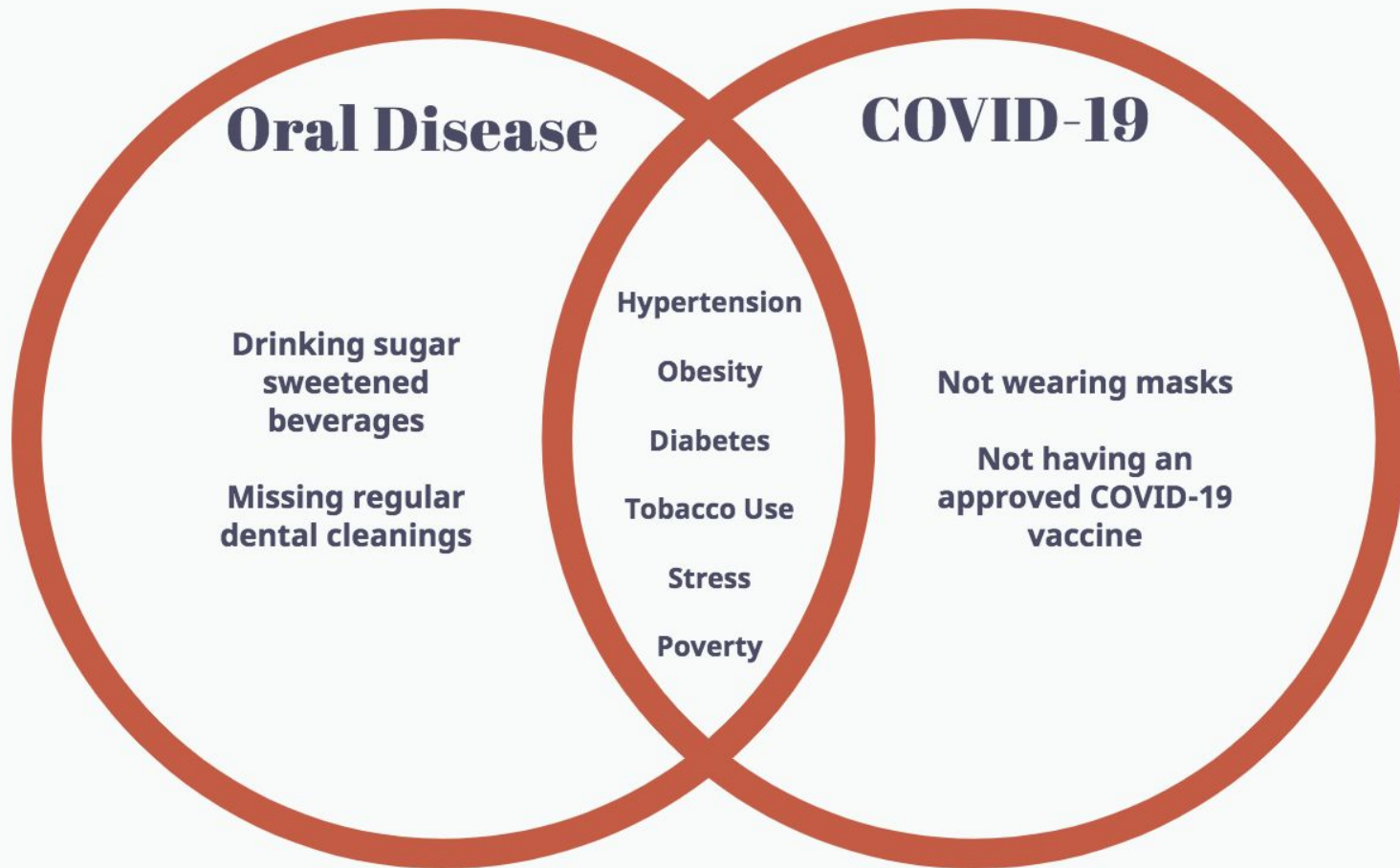
The oral cavity is a source and reservoir for:





COVID-19 and Social Determinants

Risk Factors for worse outcomes for Oral Disease & COVID-19

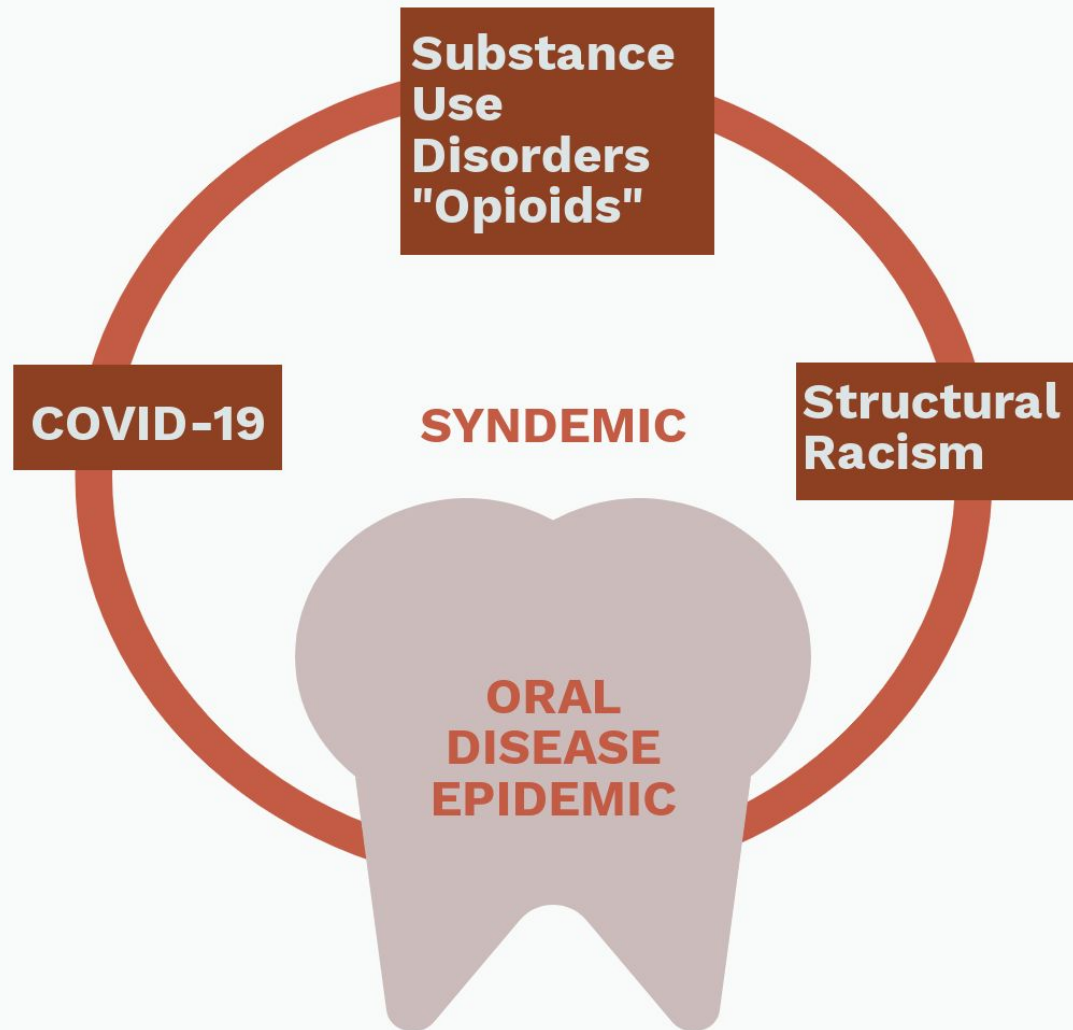




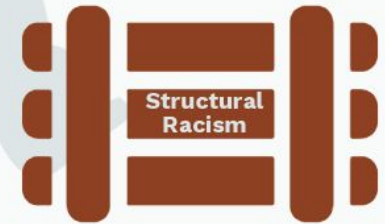
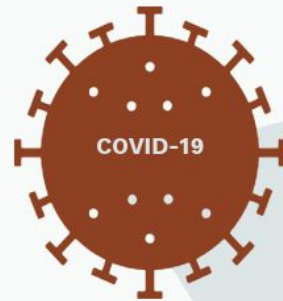
Oral Disease Epidemic



Oral Health and Synergistic Epidemics



“Infodemic”
an overabundance
of misinformation
and disinformation



INFODEMIC



Oral Care During a Pandemic



Emergency
Department
Utilization



Pediatric
Dental Care
Utilization




Dental
Infection



COVID-19 and Population Oral Health

Structural

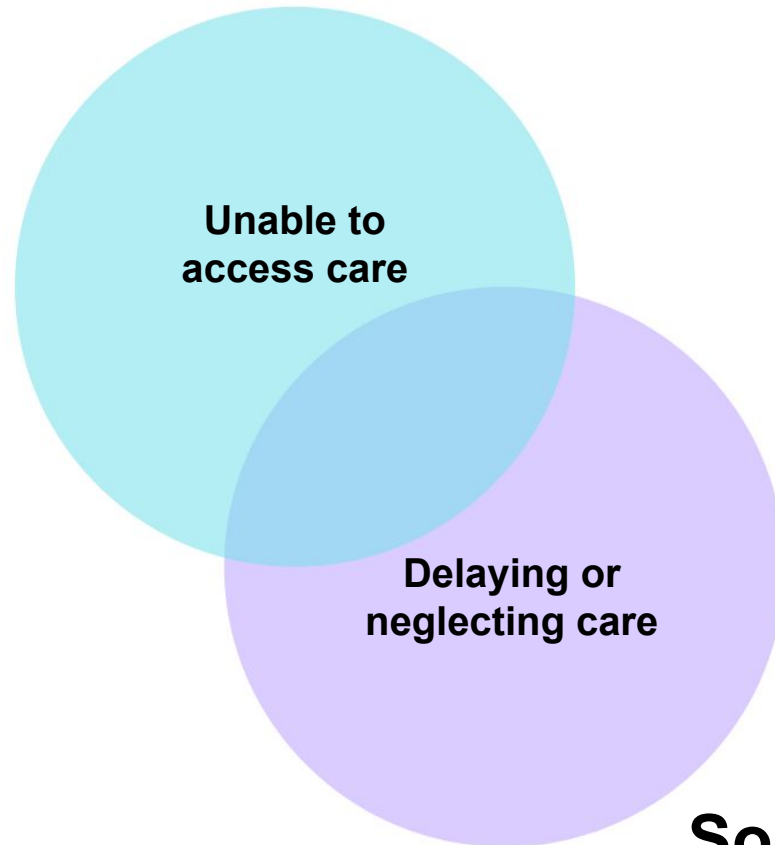


**Unable to
access care**



COVID-19 and Population Oral Health

Structural



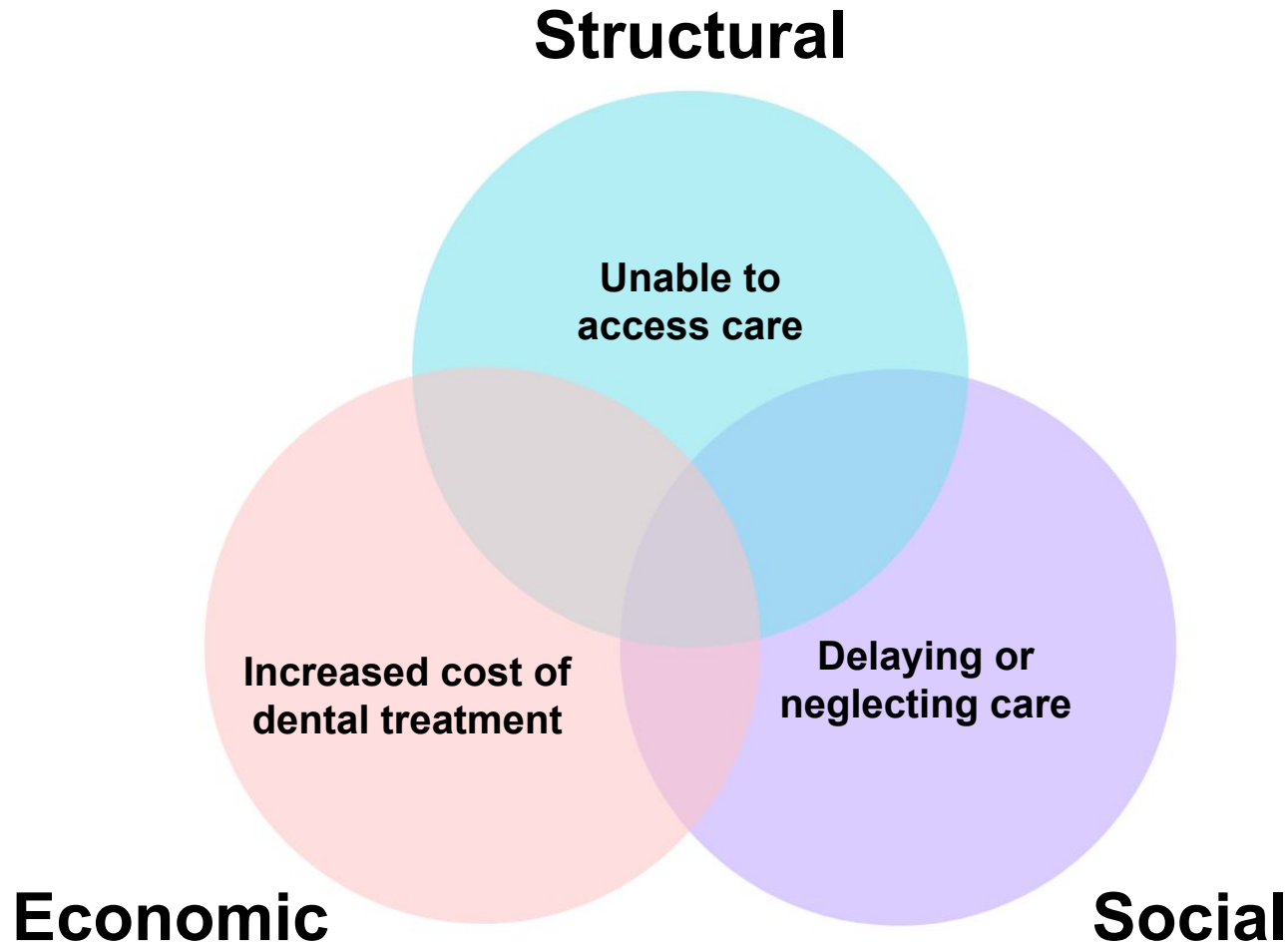
**Unable to
access care**

**Delaying or
neglecting care**

Social



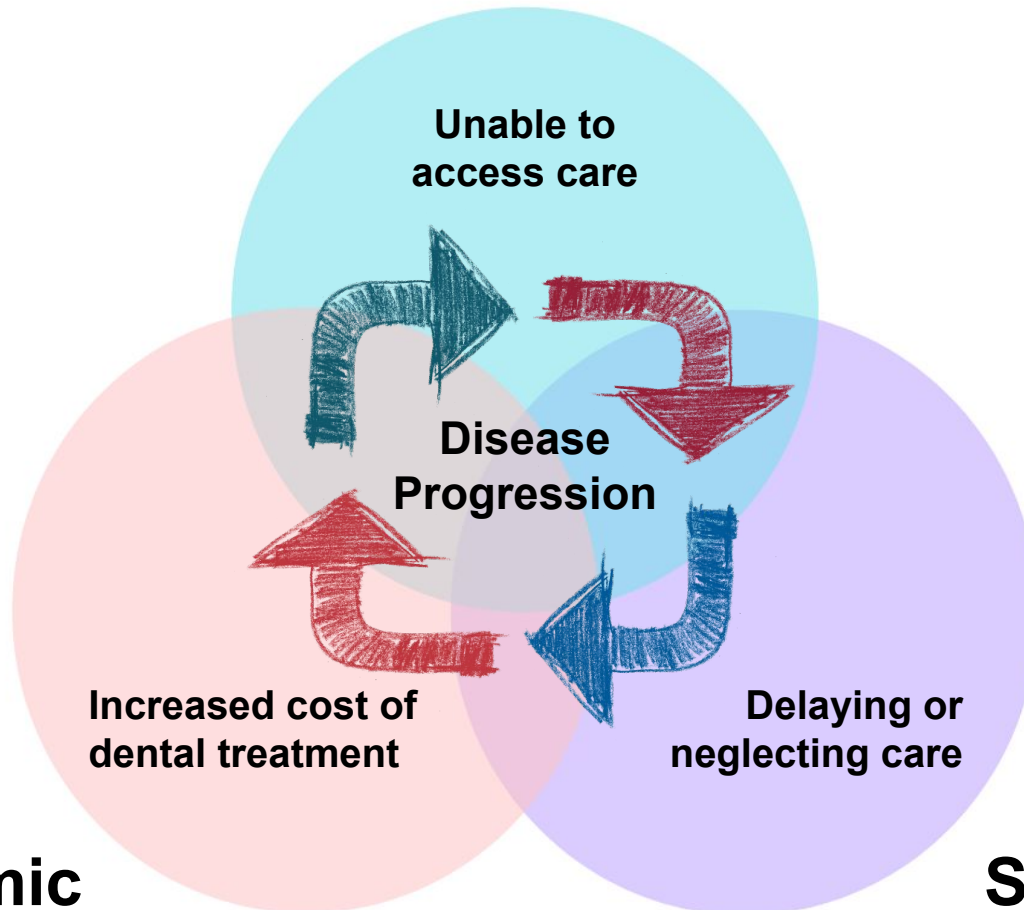
COVID-19 and Population Oral Health





COVID-19 and Population Oral Health

Structural



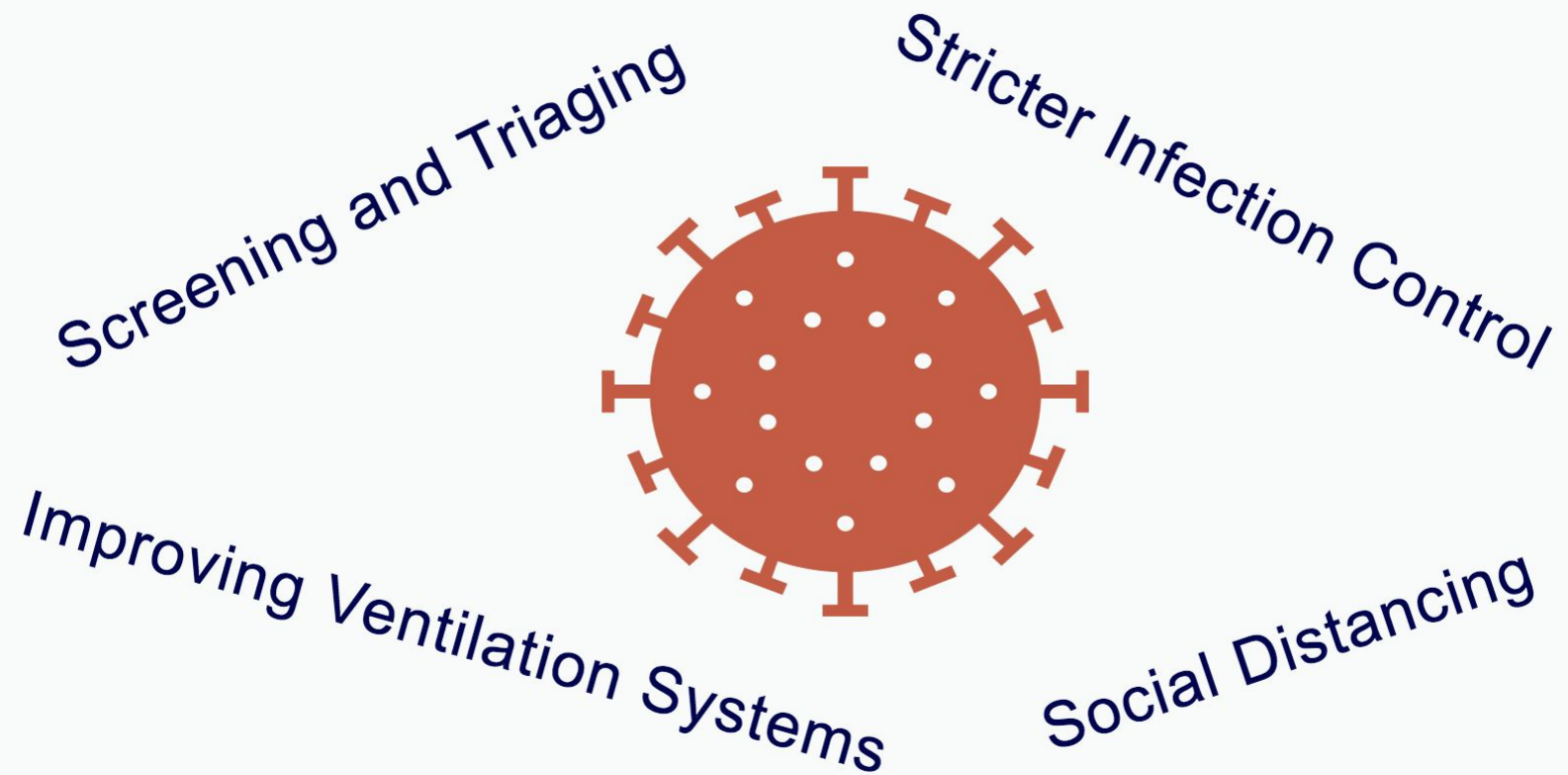
Economic

Social



COVID-19: Provision of Dental Care

Innovations from COVID-19





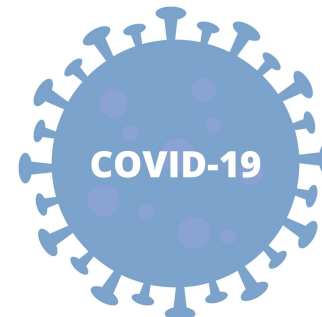
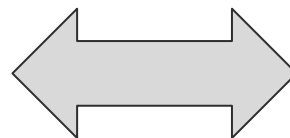
A Case Study of Canada vs Nigeria

	Canada	Nigeria
Universal Healthcare	Provides treatment for health care (dental) providers exposed to COVID-19	No UHC
Governing Body for guidelines	Canadian Dental Association (non-regulatory authority)	Federal Ministry of Health of Nigeria
Reopening Process	Reopened early May, when curve was flattened	Reopened May, 4 2020 when cases were increasing (forced by socioeconomic issues)
Routine Dental Care	Recommended that routine dental visits should not be delayed	Recommended that all non-emergency visits (routine dental) should be postponed
HVAC (Heating, ventilation, and air conditioning)	Guidelines set by Canadian Standards Association. Dentists encouraged to consult HVAC specialist	No guidelines



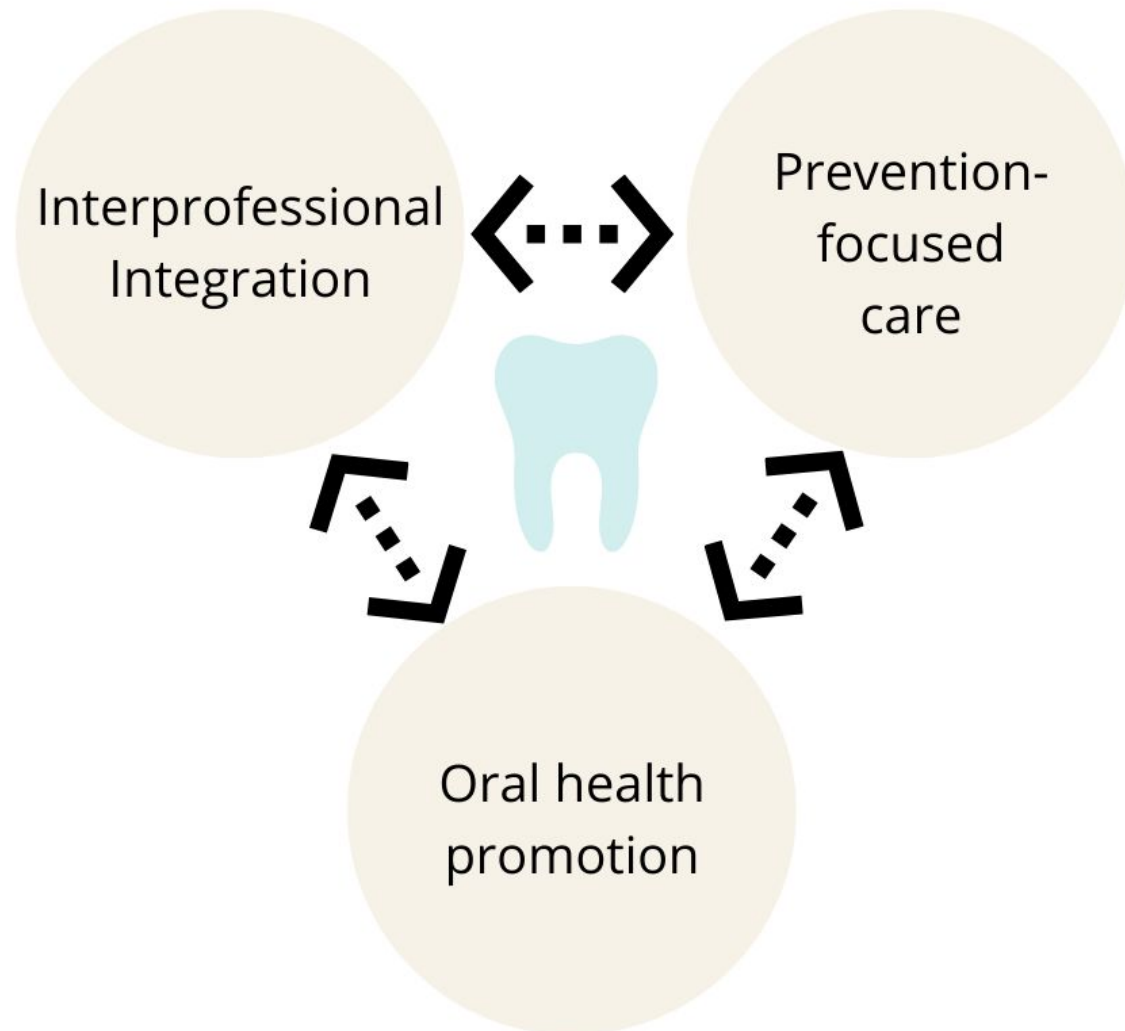
COVID-19 and HIV: Lessons Learned

	HIV/AIDS	COVID-19
Infection Control	Barehanded dentistry → Introduction of PPE and UP	Additional PPE & disinfection, staggered scheduling, triaging, teledentistry
Education and Awareness	Improved understanding of bloodborne transmission	Improved understanding of aerosol + droplet transmission
Lockdowns	No global collapse/lockdown	Global lockdown → teledentistry (virtual evaluations)
Social Unrest	Blaming gay men	Blaming Chinese community (anti-Asian sentiment)



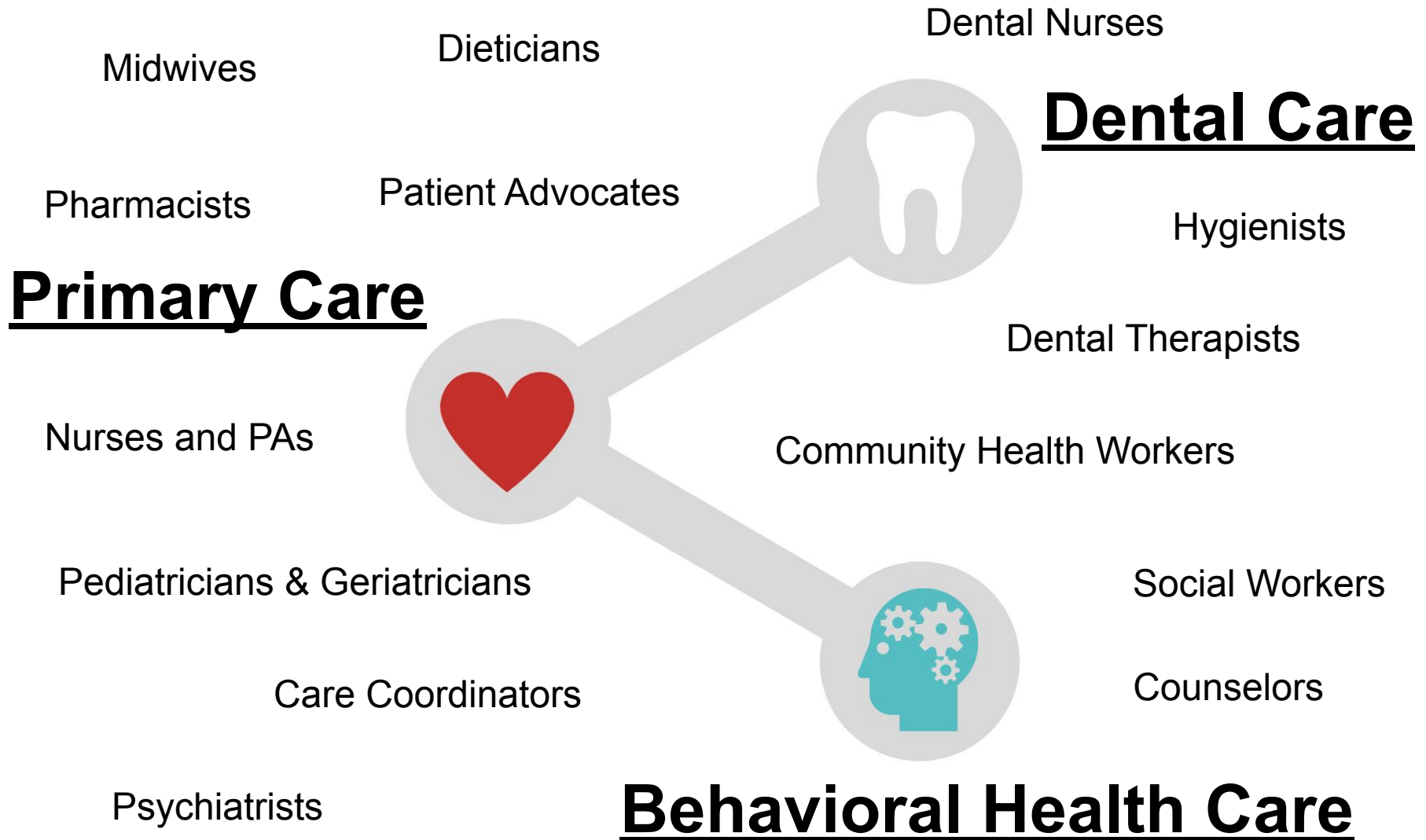


COVID-19: Opportunities for Growth





Interprofessional Integration



Prevention-focused Care

Minimum
Intervention
Dentistry

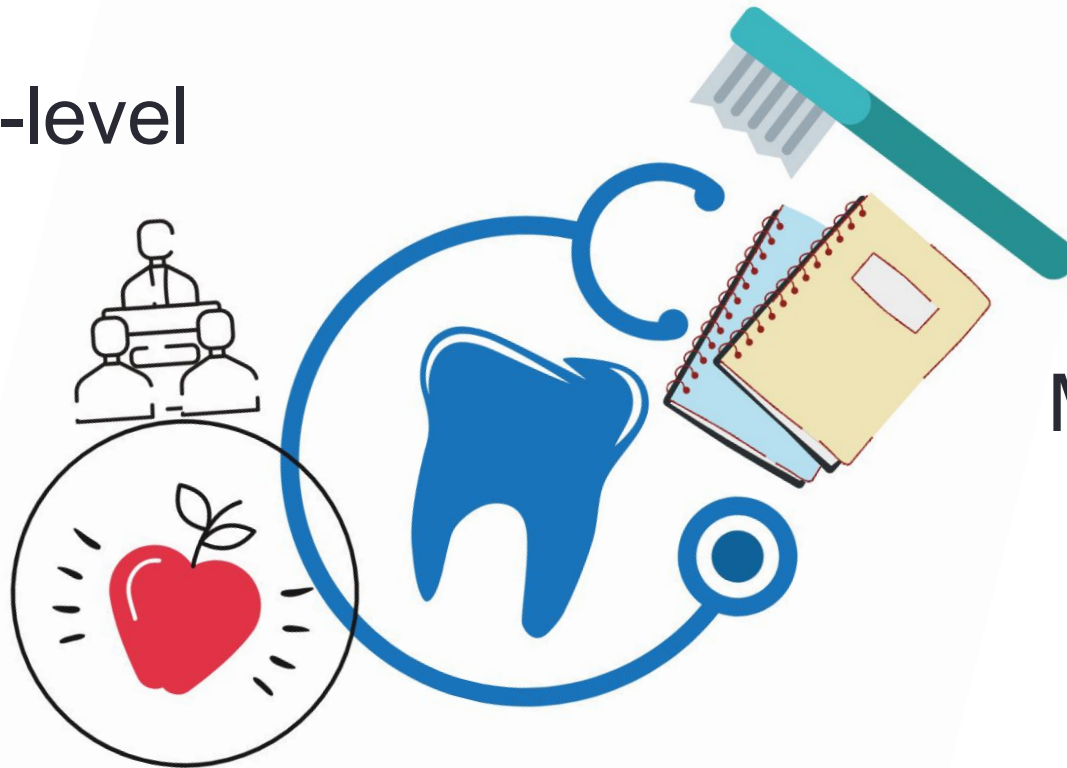


Resource
Conservation



Oral Health Promotion

Macro-level

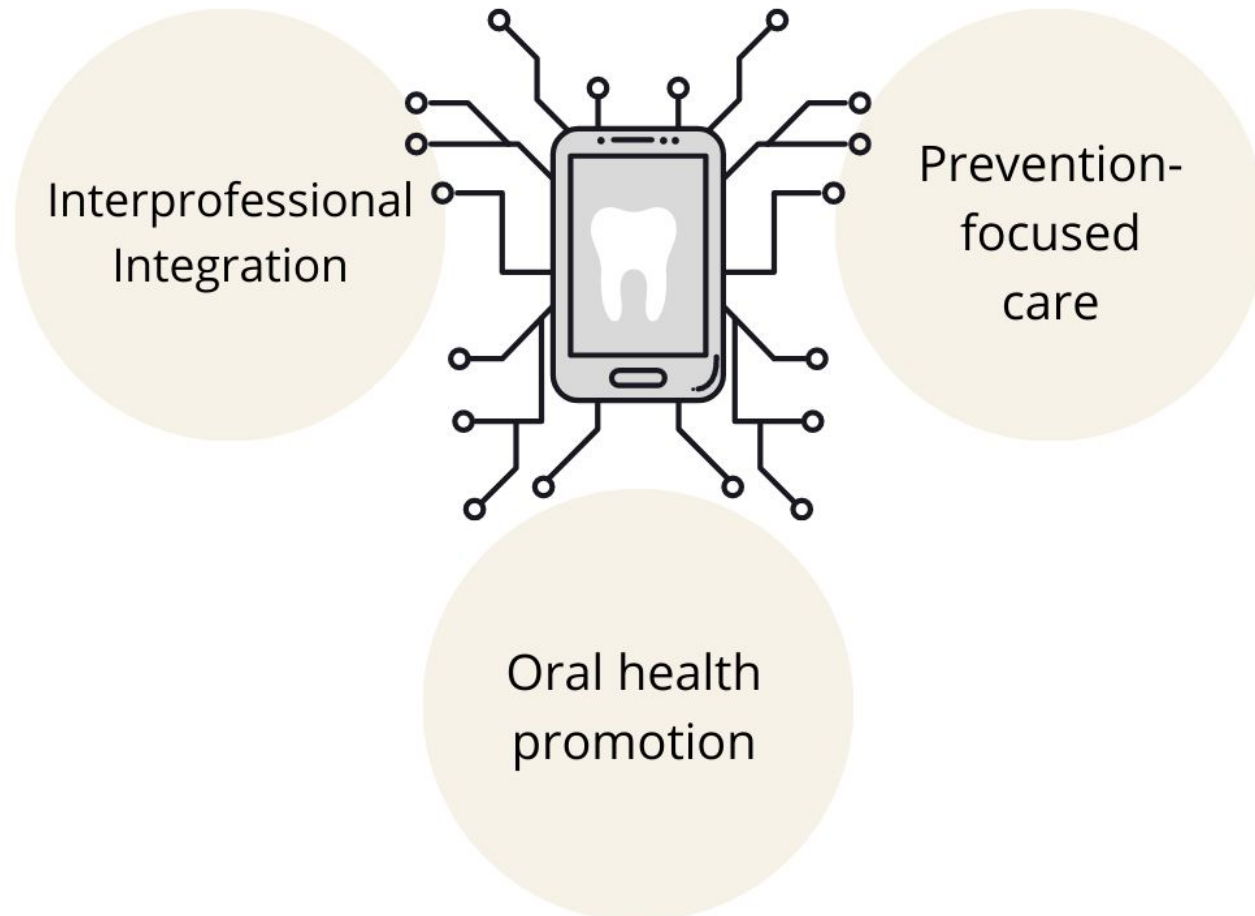


Meso-level

Micro-level

COVID-19 and Digital Oral Health

Teledentistry



Case Study: mOral Health

1

Literacy



2

Training



3

**Early
Detection**

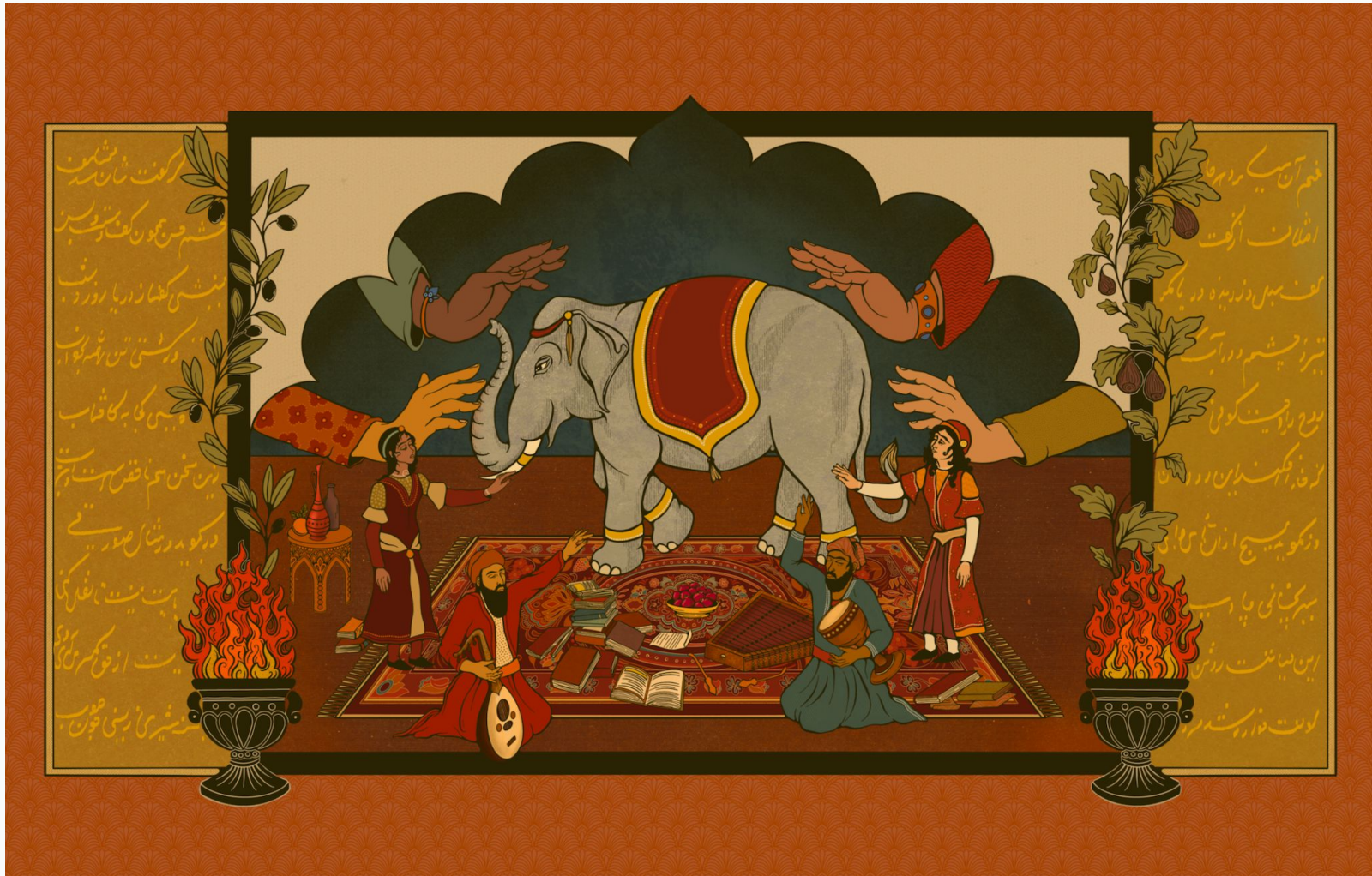


4

Surveillance



An Interconnected Future





Takeaways and Reflection

Increase Partnerships
across Disciplines

Explore Digital Oral Health



Connect with Community
Health Organizations

Reflect on Oral Health in
Syndemic Context

