An inventory of best available evidence synthesis of oral health related to COVID-19

APRIL 7, 2022
To create a group – to obtain more visibility for oral health in the COVID END project

Jeremy Kaelan
John
Canada

Sunu-Índia

Fernanda
Brazil
Our team

- Rebeca - Scholarship from Brazilian Government (CAPES);
- 7 undergraduate students: (Giovanna, Luana, Rafael - Scholarship from University of Sao Paulo and Guilherme, Hadassa, Camila and Poly are volunteers.
Daily 3X a WEEK

EVERY 45 DAYS ~

International team
Sunu, Fernanda, Rebeca

Brazilian supervision
Fernanda, Rebeca

Brazilian execution
Rebeca, Rafael, Luana, Giovanna, Guilherme, Hadassa, Polyne, Camila.
Validation process through innovation

16 Dentists and decision makers

8 Countries
Brazil, Bolivia, Colombia, Porto Rico, England, Egypt, India, Oman

4 Continents!
America, Europe, Asia, Africa

Double Diamond

Framework for Innovation adopting the Double Diamond (Source: self-elaboration).
Design Thinking - was included in our routine
Roadmap

1. COVID-END Oral Health taxonomy
2. Publishing at COVID-END
3. 1st COVID-END Oral Health E-book
4. COVID-END Oral Health Update
5. Evidence GAPMAP
## COVID-END Oral Health taxonomy of public-health measures, clinical management of COVID-19, health-system arrangements, economic and social responses, and Dentistry Education

### Program and service areas

#### Public-health measures
- **Infection prevention**
  - Personal protective equipment
  - Health consequences of new protocols
  - Recycle protocols for gowns and other personal protective equipment
  - Masks
  - Effectiveness of personal protective equipment in dentistry
  - New protocols about personal protective equipment for dental offices
- **Aerosol generating procedures**
  - Mitigation of aerosol generating procedures in dentistry
  - Procedures classified as bio-aerosols sources and contamination in dental offices
  - Time between appointments
- **Disinfection/sterilization**
  - Mouth rinses, antimicrobial agents
  - Wearing masks
  - Disinfection and infection prevention protocols
  - Disinfecting surfaces and facilities
  - New sterilization methods for dental offices

#### Infection control
- **Health workplace**
  - Routes of transmission in Dental Care
  - Environmental Detection of SARS-CoV-2
  - SARS-CoV-2 infection among healthcare workers
  - Infrastructure planning and resource allocation in dentistry
  - Layout adaptations
  - Electronic medical records and technology in oral health
- **Suspension of school dental programs**
  - Changing home and community care procedures
  - Biosafety Measures at the Dental Office

#### Clinical management of COVID-19 and pandemic-related Oral health issues
- **General and specialty management of oral health and related impacts**
  - Acute care dental conditions
  - Dental materials for possible use during the COVID-19
  - Staff working outside dental area with COVID-19 patients
  - Strategies to overcome PPE-related communication challenges
  - Countering oral-health related misinformation
  - Dentists' knowledge, perceptions and attitude during COVID-19 pandemic
  - Laser therapy
- **Teledentistry**
  - The application of teledentistry in generic settings
  - Usability and effectiveness of teledentistry
  - Remote management of existing conditions
  - Online health education (collective and individual)

#### Management/guidelines/recommendations according to dental specialties
- **Dental public health**
  - Oral health prevention and promotion actions
- **Endodontics**
  - Protocols to reduce COVID-19 exposure during endodontic treatment
- **Hospital/Dentists Improving Oral Hygiene in intensive care units**
  - Oral and maxillofacial radiology
  - Protocol changes for user protection
  - Oral and maxillofacial surgery
- **Laser therapy**
  - Moulding for pre-surgical orthopaedics in cleft lip and palate patients
- **Medical treatment**
  - Oral medicine / Oral and maxillofacial pathology
  - Olfactory and gustatory symptoms and salivary compositional changes
  - SARS-CoV-2 infection in the oral cavity tissues and cells
  - Manifestations in COVID-19 infected patients
  - Oral disorders related to COVID-19 in children
  - Emotions and post-COVID-19 oral manifestations
  - Association between oral diseases and the severity and mortality of COVID-19
  - Saliva studies
  - Orofacial pain
  - Temporomandibular joint dysfunction increase
  - Orthodontics and dento-facial orthopaedics
  - Aerosol generating procedural risks and mitigation strategies in orthodontics

#### Cross-infection in orthodontic practice
- **Pediatric Dentistry**
  - Clinical practice guidelines and management
  - Impact of COVID-19 on dental prophylaxis in child programs
  - Periodontics
  - Risk of contamination by dental periodontal procedures
  - Pre-procedural Mouth Rinses in Reducing Aerosol Contamination During Periodontal Prophylaxis
  - Periodontal Diseases and COVID-19 Severity
  - Prosthodontics
  - Increased demand
  - Prosthesis disinfection, prosthetic infection control and protection of technical workers
- **Restorative dentistry**
  - Protocol changes
  - Dental caries management with non-aerosol restorative treatment
- **Special care dentistry**
  - Pregnant women
  - Medically compromised patients (diabetes, hypertension, etc.)
  - Elderly
  - Children and adults with disabilities
  - Oral cancer patients
- **Forensic Dentistry**
  - Forensic control methods in forensic dentistry

### Governance arrangements (decisions and protocols)
- **Policy authority**
  - Centralization/decentralization of policy authority
  - Adhering to the international health regulations
  - Organizations
  - Professional authority
  - Guidance of dental health
  - Financial arrangements for oral health
  - Budget adjustments for oral health care in federal, state, and city levels

### Economic and social consequences to private and public dentistry
- **Public policy issues**
  - Managing suppressed demand in oral health due to the suspension of elective appointments during the COVID-19 pandemic
  - Dental staff
  - Concerns of dental and oral health workers and the coping strategies
  - Economic impacts on dental practices
  - Biosafety expenditure
  - Dentists' mental health
  - COVID-19 Infection, Illness and Deaths Among Healthcare Workers

### Dentistry Education
- **Facilities alterations in dental schools**
  - Construction and physical layout changes
  - Circulation flow
- **Pedagogical issues**
  - Curriculum adaptations
  - Broadband internet access (inequality of access to internet/computers)
  - Psychological health of dental students
  - Collective ethics
  - Covid-19 impacts in the teaching-learning process in dental education
- **Other Research matters**
  - Evidence mapping and quality of published dental literature
### Table 1 - Issues, articles, protocols and Gaps per domain

<table>
<thead>
<tr>
<th>Domains</th>
<th>N of Issues</th>
<th>Articles</th>
<th>Protocols</th>
<th>Gaps</th>
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<td></td>
<td>Vol 1</td>
<td>Vol 2</td>
<td>Vol 1</td>
<td>Vol 2</td>
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<td>Economic and social responses/education</td>
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</tbody>
</table>

![COVID-END Oral Health Vol 1 x Vol 2](image-url)
Adaptation to oral health

Access the full COVID-END Oral Health scan the QR Code.
A team of passionate people working to address COVID-19 oral health challenges by an innovative approach

First Edition
English, Español and Português.

NOVEMBER 2021
Vol. 1

Access COVID-END Oral Health E-BOOK
scan the QR Code.
COVID-END vs COVID-END Oral Health

- Number of articles at COVID-END: 615
- Number of articles at COVID-END Oral Health: 166
- Oral health articles at COVID-END and at COVID-END Oral Health: 8
Roadmap

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ORAL HEALTH IS HIDDEN

Thematic one stop shops can insert strategic themes in the political agenda

Allow specific searches and greater visibility of the topic for decision makers

THEMATIC ONE STOP SHOPS

THE INNOVATION

It allowed us to bring our solutions closer to the needs of those who suffer from the problem

It is possible that other themes are hidden

THE NEED TO DEVELOP SPECIFIC TAXONOMIES
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Thanks!

ANY QUESTIONS?

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