# WILEY

## **Oral Health in Older Adults**

## Need for sustainable healthcare interventions

### **Global status of oral health**



Oral health encompasses good oral function and psychosocial well-being without pain, discomfort, and embarrassment<sup>1</sup>



However, more than **3.5 billion** people experience impaired oral health due to oral diseases<sup>2</sup>

### Oral diseases in older adults

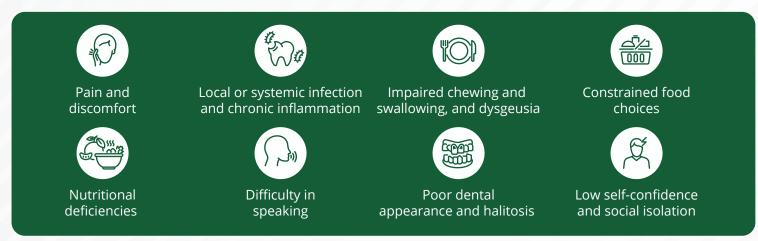


The most common findings affecting oral health in older adults



## Impact of oral diseases in older adults

Oral conditions impair the oral health-related quality of life (QoL) and may contribute to poor general health and well-being as they are associated with:<sup>5</sup>





Visit oralhealth.knowledgehub.wiley.com/older-adults/ for additional resources

## **Modifiable risk factors for oral diseases**

#### **Risk factors**<sup>6</sup>



Poor oral

hygiene





Sugar-rich diet

Medication/ therapy/ disease-induced hyposalivation

OE



Trauma

Poorly maintained

dentures



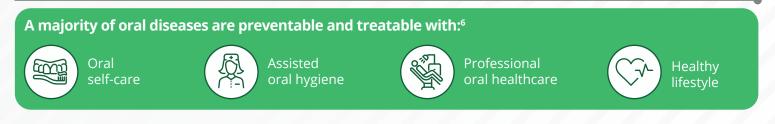
Excess alcohol consumption

#### **Associations with systemic health**

Poor oral health is associated with impairment in systemic health and reduced QoL<sup>6</sup>



#### **Current preventive and treatment approaches**



### **Barriers to optimal oral care in older adults**

Despite being preventable and treatable, oral diseases continue to remain prevalent among older adults owing to several barriers and misconceptions<sup>4,6</sup>

<ul> <li>Refraining from routine dental care</li> <li>Negative/incorrect beliefs about oral health</li> <li>Consultations with non-dental healthcare providers who lack expertise and attention to oral health</li> <li>Limited financial resources</li> <li>Underdiagnosis or lack of treatment during serious illnesses and functional dependent</li> <li>Limited mobility</li> <li>Cognitive impairment</li> <li>Care dependency and multi-morbidity</li> <li>Lack of access to dental care</li> </ul>
---

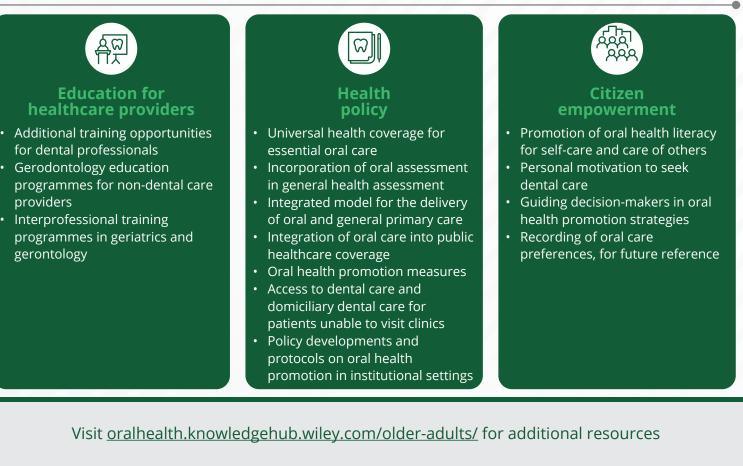
Professional	<ul> <li>Dental professionals with limited training and unwillingness to provide domiciliary dental care</li> <li>Care providers with limited knowledge on oral health and preventive measures</li> <li>Limitations of time and staff</li> <li>Low priority towards oral hygiene provision among carers of care-dependent persons</li> <li>Primary health services ill-equipped to cope with huge oral care needs</li> <li>Shortage of geriatric dentistry specialists and educators</li> </ul>
Policy	<ul> <li>Shortage of public funding coverage</li> <li>Lack of priority for oral health in healthcare policies</li> <li>Socioeconomic inequalities in oral care access</li> <li>Unavailability of domiciliary dental care</li> <li>Unsupportive care systems for individuals confined at home and nursing home residents</li> <li>Poor oral health literacy of citizens</li> </ul>

## Improving the management of oral diseases among older adults

#### General recommendations<sup>4,6</sup>



#### Recommendations proposed by the European College of Gerodontology (ECG) and the European Geriatric Medicine Society (EuGMS) for oral health in older adults<sup>6</sup>



# Recommendations for oral health screening by non-dental care providers<sup>6,7,8</sup>

#### Non-dental healthcare providers should be able to screen and promote oral health in older adults with limited access to a dental professional

- 1 Consider the impact of current medication regimens on oral health
- 2 Query patients and carers about current oral health practices
- 3 Conduct oral health assessment using validated tools specific to non-dental healthcare providers (e.g., Oral Health Assessment Tool [OHAT])
- Identify abnormal findings in the oral cavity and common oral conditions in older adults
- 5 Decide on required dental referral and/or follow-up
- 6 Provide oral health counselling, including advice on daily hygiene, denture maintenance, diet, and frequent dental review



#### Conclusions

- Oral health is essential for general health and well-being
- Despite being preventable and treatable, oral diseases are becoming more prevalent among older adults due to a wide range of personal barriers and shortcomings in existing oral healthcare delivery and policy
- Hence, healthcare systems must undergo radical restructuring to allow for a more preventive and responsive model of healthcare delivery
- Catering to the personal, professional, and policy-related issues in oral healthcare, these reforms should be aimed at improving the oral health-related QoL of older adults

#### **References:**

- 1. World Health Organization. (2022). Global oral health status report: Towards universal health coverage for oral health by 2030.
- 2. Watt, R. G., Daly, B., Allison, P., Macpherson, L. M. D., Venturelli, R., Listl, S., ... & Benzian, H. (2019). The Lancet oral health series: Implications for oral and dental research. *Journal of Dental Research*, 99(1), 8–10.
- 3. Centers for Disease Control and Prevention. (2021). Oral Health for Older Americans. Retrieved December 1, 2022, from <a href="https://www.cdc.gov/oralhealth/basics/adult-oral-health/adult\_older.htm">https://www.cdc.gov/oralhealth/basics/adult-oral-health/adult\_older.htm</a>
- 4. Jiang, C. M., Chu, C. H., Duangthip, D., Ettinger, R. L., Hugo, F. N., Kettratad-Pruksapong, M., ... & Lo, E. C. (2021). Global Perspectives of Oral Health Policies and oral healthcare schemes for older adult populations. *Frontiers in Oral Health, 2*, 703526.
- 5. GBD 2019 Ageing Collaborators. (2022). Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study. *BMJ*, 376.
- Kossioni, A. E., Hajto-Bryk, J., Maggi, S., McKenna, G., Petrovic, M., Roller-Wirnsberger, R. E., ... & Müller, F. (2017). An expert opinion from the European College of Gerodontology and the European Geriatric Medicine Society: European policy recommendations on oral health in older adults. *Journal of the American Geriatrics Society, 66*(3), 609–613.
- 7. Kossioni, A. E., Hajto-Bryk, J., Janssens, B., Maggi, S., Marchini, L., McKenna, G., ... & Zarzecka, J. (2018). Practical guidelines for physicians in promoting oral health in frail older adults. *Journal of the American Medical Directors Association*, *19*(12), 1039–1046.
- Charadram, N., Maniewicz, S., Maggi, S., Petrovic, M., Kossioni, A., Srinivasan, M., ... & Müller, F; On behalf of e-Delphi working group. (2021). Development of a European consensus from dentists, dental hygienists and physicians on a standard for oral health care in care-dependent older people: An e-Delphi study. *Gerodontology*, 38(1), 41–56.





Visit <u>oralhealth.knowledgehub.wiley.com/older-adults/</u> for additional resources

