Healthy Populations Institute Flagship Project Snapshot: Putting ‘Oral Health is Health’ into Action

The case for action

Oral health is health.

Oral health has been recognized as a human right. The oral health of an individual is defined as “a state of being free of mouth and facial pain, oral and throat cancer, oral infection and sores, birth defects such as cleft lip and palate, periodontal disease, tooth decay and tooth loss, and other disease and disorders that limit an individual’s capacity in biting, chewing, smiling, speaking, and psychological wellbeing”.

Beyond its function, the oral cavity has been described as the “window to general health”. A healthy mouth is important to the health of the entire body. There is evidence that poor oral health is associated with cardiovascular disease, type 1 and type 2 diabetes, low-birth weight and preterm babies, rheumatoid arthritis, osteoporosis, and several other chronic diseases. The links between oral health and systemic diseases (diseases that affect the entire body) are not always clear and further research is needed to better understand the underlying mechanisms. Nevertheless, oral health promotion and prevention that addresses the associated risk factors are required to reduce the impact of oral diseases including the adverse effects on systemic conditions.

Despite being largely preventable, oral disorders combined are the most common chronic diseases and a major public health problem worldwide. The most common oral disorders are dental caries (cavities) and periodontitis (gum disease). Dental caries is the major cause of tooth loss in children and severe periodontitis is the major cause of tooth loss in adults (in particular older adults), both have potentially serious health consequences such as infections and malnutrition, and negative impacts on social interactions and self-esteem. Aside from dental caries and periodontal disease, oral conditions that are of global concern include oral cancer, the oral-related symptoms associated with HIV/AIDS, Cleft Lip and Palate, and oral trauma.

How can we transition to a general health strategy and policy that includes oral health?

Oral health has historically been neglected in public health strategy and policy despite the burden of oral diseases. Oral health care delivery and expenditures in Canada are mostly independent of universal publicly funded health care (Medicare). Yet, oral diseases accrue high costs to the primary system due to their impact on overall health and in the utilization of hospital emergency department resources for the treatment of preventable oral diseases. Moreover, societal costs including the time missed from school and work as well as the negative implications on overall well-being and quality of life all add to the costs to society. Consequently, efforts are being made to reinforce the commitment to oral health among policymakers. At the national level, two documents, the Canadian Oral Health Strategy (2005) and the Canadian Oral Health Framework (2013-18) exist to guide oral health policy and programming. Globally, the World Health Organization (WHO) is currently developing a Global Oral Health Report, as part of their Oral...
Health Programme to further develop a global oral health action plan towards 2030 and the Sustainable Development Goals.

Oral diseases and associated non-communicable diseases (NCDs) share well-documented modifiable risk factors, such as excess sugar consumption, unhealthy diet, substance use, mental health issues, and socio-economic determinants. Therefore, it is crucial to integrate oral health into local, national and global health agendas, focusing on health promotion and disease prevention with emphasis on common risk factors and through effective multidisciplinary work\textsuperscript{22}.

**Why is oral health a population health issue?**

There is a direct association between oral disease and social determinants of health such as education, income, and geographic location. Disparities in access to care need to be investigated in all aspects of oral health care, including the allocation of resources, oral health care services usage, the quality of services, workforce, and the financing of oral health care\textsuperscript{23}. Below, some characteristics of oral health across Canada\textsuperscript{24} are summarized and followed by a list of the most vulnerable populations in the country\textsuperscript{25}. There is a knowledge gap for baseline data in Nova Scotia where, to our knowledge, the last province-wide data was published almost two decades ago\textsuperscript{26}. Moreover, recent evidence suggests that socio-economically disadvantaged populations in Nova Scotia are inadequately addressed\textsuperscript{27}.

Populations most at risk for oral diseases:

- those with low incomes;
- young children living in low-income families;
- young adults and others working without dental insurance;
- elderly people living in institutions or with low incomes;
- aboriginal peoples;
- refugees and immigrants;
- those with disabilities; and people living in rural and remote regions.

**Oral health statistics in Canada**

- 57\% of 6–11 year olds have or have had a cavity.
- 59\% of 12–19 year olds have or have had a cavity.
- 6\% of adult Canadians no longer have any natural teeth.
- 96\% of adults have had a history of cavities.
- 21\% of adults with natural teeth have, or have had, a moderate or a severe periodontal (gum) problem.
- 12\% of Canadians avoid certain foods because of problems with their teeth or mouth; and
- 12\% of Canadians report that they had ongoing pain in their mouth in the past year.
- an estimated 2.26 million school-days and 4.15 million working-days lost annually due to dental visits or dental sick-days.
Canadian provincial dental and dental hygiene associations undertake preventive oral health initiatives, many of which are intended to decrease the barriers to clinical oral health delivery for priority populations\textsuperscript{28}. For example, the Nova Scotia Dental association organizes annual public education campaigns and education websites such as HealthyTeeth.org. In addition, a suite of open access resources (brushingup.ca) supports the delivery of optimum daily mouth care for those who are dependent on caregivers for activities of daily living. These resources were developed as a result of HPI research at Dalhousie University, which examined oral care in a number of continuing-care settings in Nova Scotia\textsuperscript{29}.

HPI's \textit{Putting “Oral Health is Health” into action} Flagship Project is committed to improving the oral and overall health status of Nova Scotians by enhancing oral health care strategies and accessibility through interdisciplinary research. Improved oral health care for priority populations may be achieved by integrating oral health into primary health care; employing collaborative approaches among the public and private sectors; and utilizing oral health service providers to their full scope of practice\textsuperscript{30}. An exploration of the feasibility of implementing such innovative oral health strategies in Nova Scotia is required.
References