FDI POLICY STATEMENT

Oral Infection/Inflammation
as a Risk Factor for Systemic Diseases


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During the past 15 years, a large body of literature has identified oral/periodontal infection and inflammation as a risk factor for the development and/or severity of certain systemic diseases and disorders. This research has focused on the influence of periodontal disease on diabetes mellitus, cardiovascular disease, adverse birth outcomes and respiratory diseases. Other associations have been reported (e.g. dementia, chronic kidney disease and certain forms of cancer), but the literature on these topics is not robust. In addition to the significance of such research for the general health and oral health of patients seen by oral health care professionals (OHCP), this research has important implications for the future of oral health care in the context of health care, inter professional education and practice.

Statement

• The literature examining the relationship of periodontitis to certain chronic diseases and disorders (e.g. diabetes mellitus, cardiovascular disease, adverse pregnancy outcomes and respiratory diseases) is substantial, including in vitro analyses, studies in animal models, clinical trials, and epidemiological analyses of large population databases.

• These associations are biologically plausible. There may be direct effects of oral microorganisms on distant tissues and organs, as well as the systemic effects of inflammatory mediators produced in the periodontal tissues in response to the microflora. It is also important to note that there are common cofactors in periodontitis and many chronic diseases.

• Meta-analyses and systematic reviews suggest that conservative treatment of periodontal disease in patients with diabetes mellitus may reduce levels of HbA1c for at least for 3 months. Intervention studies in patients at risk for atherosclerotic cardiovascular disease have focused on surrogate markers (e.g. endothelial cell function) with promising effects but not on specific clinical outcomes (e.g. myocardial infarction). Clinical studies examining the effect of periodontal therapy on adverse pregnancy outcomes have yielded conflicting results.

• Intervventional studies do not necessarily prove causation. Additional, longer-term, properly powered clinical trials are needed to define the effect of periodontal therapy on clinical outcomes of chronic diseases.

• All health care professionals should understand the clinical implications of oral disease on systemic health.
• An emphasis on optimal oral health and control of oral/periodontal infection and inflammation should be an important part of any therapeutic strategy that seeks to reduce the local and systemic effects of periodontal disease.
• National dental associations and OHCP must assume a central advisory role in translating science into public awareness and policy.
• The FDI, working in collaboration with the WHO, must strongly advocate for inclusion of oral health in government policy concerning health, and promote access to oral health care.

References: