Oral Health and Cardiovascular Disease

2015 Fact Sheet

Introduction

♦ Oral health not only refers to healthy teeth but being free of gum disease, oral cancers, oral birth defects as well as other diseases and disorders that affect the oral tissues.

♦ According to Healthy People 2020, oral health is integral to general health and a growing body of evidence has linked oral health, particularly gum disease, to several chronic diseases including diabetes, heart disease and stroke. In a report from the Surgeon General, studies suggest that there is a potential for oral microorganisms to be linked with heart disease.

♦ According to the Centers for Disease Control and Prevention, in 2012, only 67.2% of adults in the United States reported having seen a dentist in the past 12 months. Cardiovascular disease is the number one cause of death in the country, indicating a crucial need to provide oral health care to those most at risk for heart disease.

♦ Gum disease has not been viewed as a traditional risk factor for heart disease. However, in 2012, the American Heart Association published a statement on their support of the association between gum disease and heart disease, but a causal association has not yet been proven.

Studies and Associations

Increasing prevalence of tooth loss may be associated with higher fasting glucose levels, LDL cholesterol levels, systolic blood pressure, and waist circumference.

Chronic infection from gum diseases can trigger an inflammatory response that may lead to heart disease.

Chronic periodontitis, an inflammatory gum disease associated with gradual teeth loss, may be related to the severity of a heart attack.

Periodontal diseases, such as gum bleeding, may be common in populations who also have numerous cardiovascular and socioeconomic risk factors.
Michigan Statistics

- In 2012, Michigan adults without a dental visit in the past year were more likely to have a heart attack (7.2%) than adults with a dental visit in past year (4.3%), Figure 1.
- Prevalence of heart attack increased with number of teeth lost from 2.2% among Michigan adults with no teeth missing to 16.1% among those with 6 or more teeth missing.
- The rates of other cardiovascular diseases were higher among Michigan adults with no dental visit in the past year compared to those with a visit; told coronary heart disease (5.8% vs 4.7%), told stroke (4.1% vs 3.1%) and any cardiovascular disease (11.6% vs 9.1%).

Prevention

- Closer collaboration between primary care dental and medical services
- Reducing junk food and sugar from diets
- Increased access for treating dental problems and encouraging prevention visits
- Enhancing salivary flow if heart medications limit saliva production
- Improved oral health home care for reducing disease causing bacteria
- Eliminating tobacco use
- Increased physical exercise
- Reduction of stress factors

More Information and References


