

Oral Health IS Health







Poor Oral Health

Dental Caries

Periodontal Disease



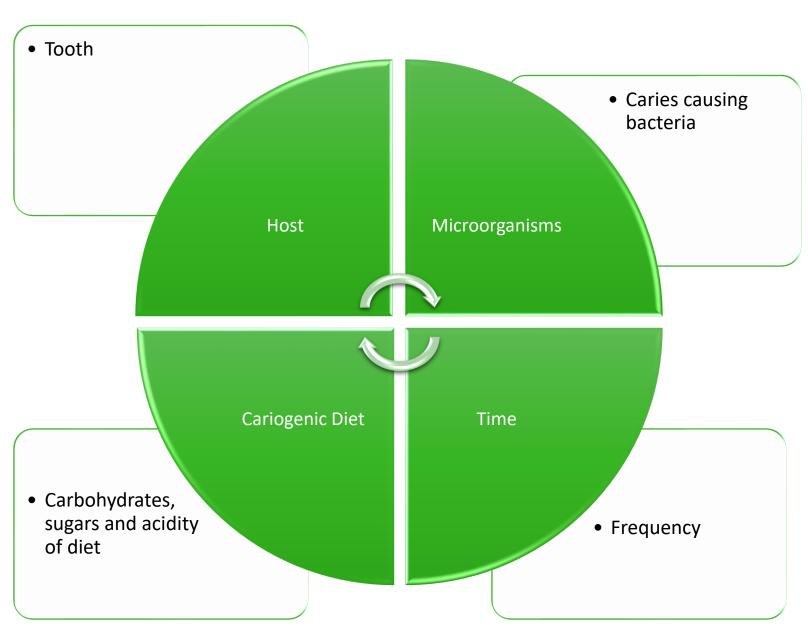
It's Chronic

Dental caries is a chronic disease.

Periodontal disease is a chronic disease.







Cause of Decay



Dental Caries

• #1 Chronic Childhood Disease

 More than 90% of US adults have had a cavity and 1 in 4 have untreated decay.





Caries impacts all races, ages, socioeconomic statuses and genders.

46% of adults have some form of periodontal disease



The relationship between oral health

and diabetes mellitus

George W. Taylor, DMD, DrPH

he term "diabetes mel-" is used to identify a

February 20, 2019

Periodontal Health Should Be Monitored Closely in Patients With Psoriasis

Sheila lacobs RESEARCH ARTICLE

> Gingival Inflammation Associates with Stroke – A Role for Oral Health Personnel in Prevention: A Database Study

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RESEARCH ARTICLE | HEALTH AND MEDICINE

and diabetes IIIOIIII and diabetes IIIOIII and diabetes IIIOII and diabetes brains: Evidence for disease causation and treatment with small-molecule inhibitors

iny^{1,*,†}, Casey Lynch^{1,*}, Florian Ermini¹, Malgorzata Benedyk^{2,3}, Agata Marczyk², Andrei Konradi¹, Mai N

dv.aa

How A Common Oral Bacteria Makes Colon Cancer More Deadly

> lgs may help predict aggressive colon er and identify new treatment targets

New Evidence Shows Connection Between Oral Health, Heart Health





△ DELTA DENTAL

BRAIN

Oral diseases are associated with stroke. Harmful bacteria in your mouth can make you more susceptible to developing blood clots, thus increasing the chance of a stroke.

HEART

High levels of inflammation associated with periodontal disease contribute to heart conditions. And those with gum disease are twice as likely to have a heart attack.

KIDNEYS

The mouth is a gateway for bacteria. Poor oral nealth causes infections to progress faster, increasing the kidneys' workload.⁵

LUNGS

Once dental plaque is established in the mouth, it can spread to the lungs and cause pneumonia and bronchitis. Maintaining good oral health can decrease the incidence of respiratory infections.²

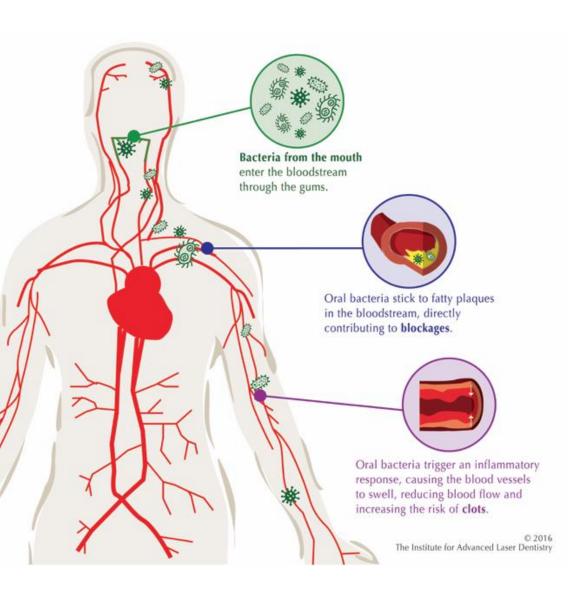
PANCREAS

When you're diabetic, your pancreas doesn't make enough insulin. Uncontrolled diabetes can lead to gingivitis and other oral manifestations.⁴





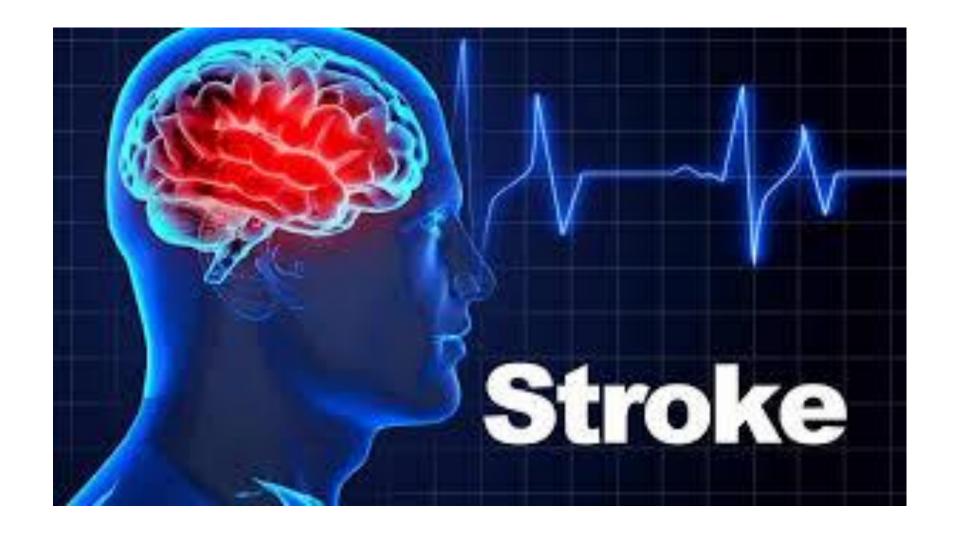




Gum Disease and Heart Disease The Bacteria Connection









Rheumatoid Arthritis





Pneumonia

The bacteria in your mouth are inhaled into your lungs.





Chronic Kidney Disease









Pregnancy and Beyond





"Oral health care may only be four percent of overall health care, but based upon what we've learned so far and the work that is coming out now on the importance of oral health, it probably represents 15 to 20 percent of health care value. That's why oral health deserves attention."

Dr. R. Bruce Donoff, Dean Harvard School of Dental Medicine





Recent Studies on Perio Treatment Savings

| | United Concordia / Highmark | Cigna | Aetna | UnitedHealth | National Assoc. Dental Plans |
|---|---|--|--|--|---|
| Condition | Type 2 diabetes, CAD, CVD, Rheumatoid arthritis, pregnancy | Diabetes, heart disease, stroke | Diabetes, cardiovascular disease, pregnancy | Diabetes, asthma, CHF, CAD, DOPD, chronic kidney/renal failure | Diabetes, high blood pressure, heart disease, cancer, high cholesterol |
| Data Source | Claims data from 338,891 individuals | Claims data from 10,634 patients | Dental Medical Integration Program | 130,546 members | 15,483 non-elderly adult Medicaid patient health expenditures |
| Time Period | 2005-2009 | 2009-2011 | 2010-2012 | 2008-2011 | 2014 |
| Medical Cost Reduction with perio treatment | Diabetes: 40% CAD: 11% CVD: 41% Arthritis: 6% | Diabetes: 28% Heart disease: 25% Stroke: 35% | Average: 17% | Diabetes: \$3,239 Asthma: \$963 CHF: \$11,663 CAD: \$5,743 COPD: \$2,171 Kidney: \$14,034 (annual / compliant) | Diabetes: 36% High blood pressure: 31% Heart disease: 67% Cancer: 67% High cholesterol: 43% |

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The eyes may be the window to the soul, but the mouth is a window to your overall wellness.

Author unknown