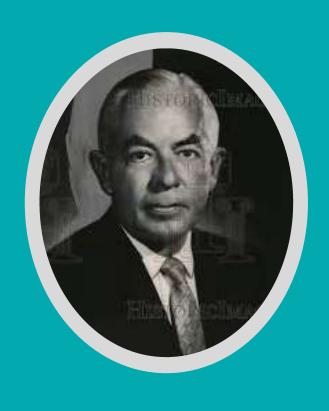


Health Harmony: Where Medical Meets Dental in Oral Systemic Health



TIFFANY WUEBBEN, RDH

- Founder and CEO of The Hygienepreneur
- Author of "Hygienepreneur: The Dental Hygienist's Guide to Achieving Career Success & Personal Transformation"
- Renowned dental industry speaker across the U.S.
- 30 years in the Dental Industry, Practice Administrator, Lead Hygienist & Practice Building Specialist



"If a person can take care of their teeth and gums they can extend their life by at least 10 years."

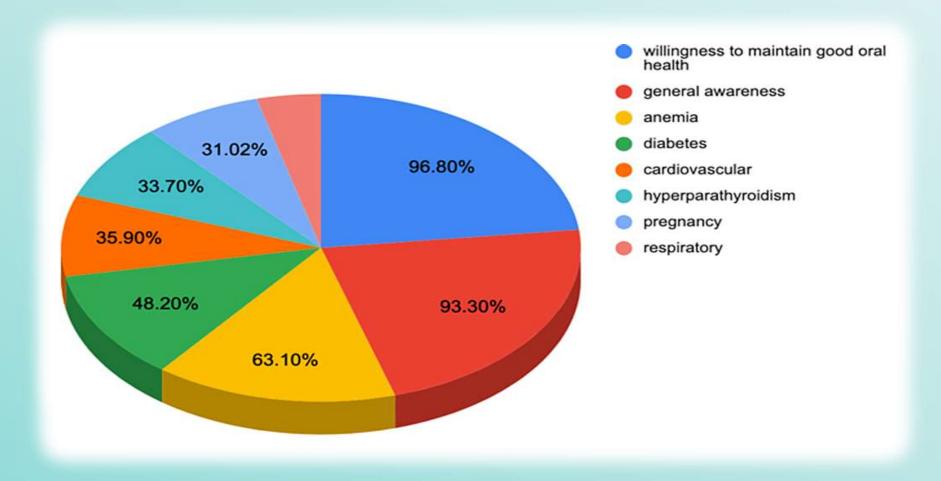
Dr Charles Mayo Co-Founder Mayo Clinic

Objectives

- Holistic Health Perspective: Understand the link between oral health and overall well-being.
- Systemic Connections: Recognize how oral health impacts various medical conditions.
- Gateway to General Health: Learn how oral health reflects overall body health.
- Preventive Role: Discover how oral health maintenance can prevent systemic diseases.



Do People Know About The Connection?

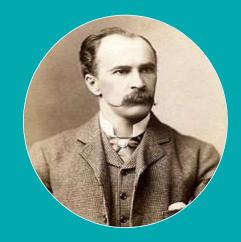


Medical Doctors Point of View



Robert W. Steves III, MD
The Town Doctor
Lebanon, TN

"As a young student of medicine, I quickly learned, from the numerous pearls given to us from Sir William Osler, that the oral cavity is a mirror to the rest of the body."



Dentist's Point of View

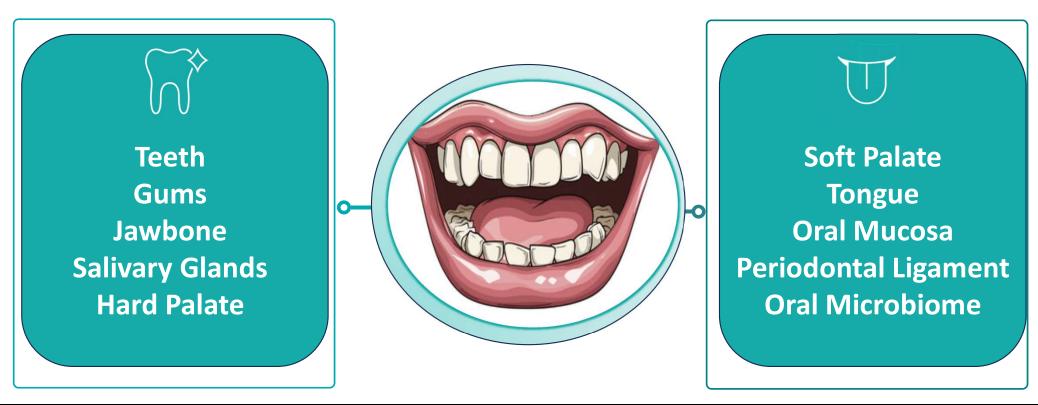
"By now, I believe the dental community, as a whole, has adopted the findings from current research and accepted the strong oral systemic health connection. I don't know of any place else in the body where chronic inflammation and infection is ignored and assumed to have no effect on the overall health of a person."



K. Pat Brown, DDS

What is Oral Health?

The condition of the teeth, gums, tongue, and other oral structures that enable functions such as chewing, speaking, and swallowing



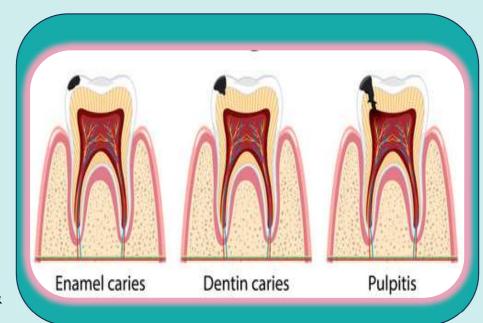
Common Oral Health Issues



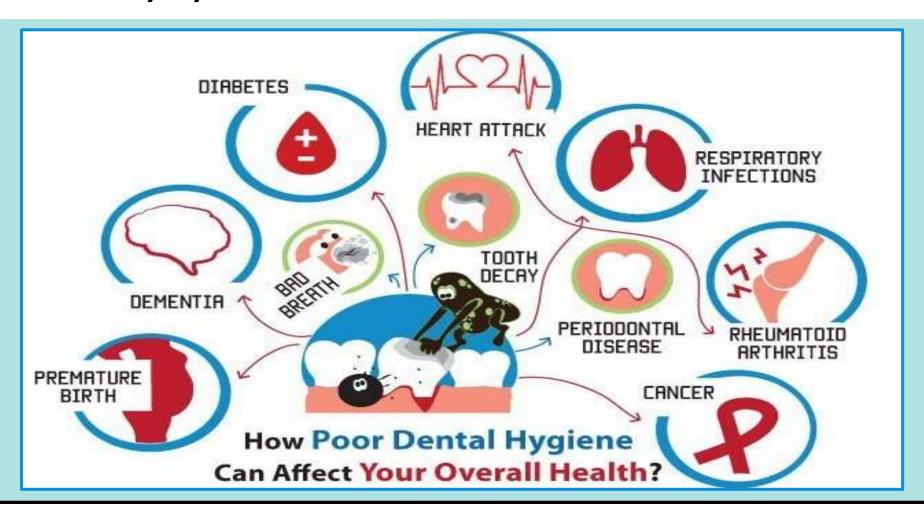
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Tooth Decay

- **Definition:** Breakdown of tooth enamel caused by acids produced from bacteria
- Cause: Poor Oral Hygiene, Poor food choices, bacteria
- **Symptoms:** Toothache, sensitivity to hot or cold, visible holes or pits in the teeth
- Prevention: Brush & floss regular, limit sugary snacks & drinks, fluoride care, regular dental check-ups



Tooth Decay Systemic Connection



1950's Bucky Beaver Promoted 6 Month Cleaning Schedule

"Brush twice daily and visit the dentist twice a year." "Bucky Beaver



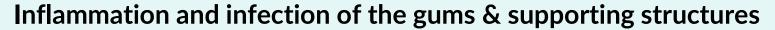




Mr. Decay Germ

Brusha, brusha, brusha. Get the New Ipana—it's dandy for your teeth!

Gum Disease





1

Mechanisms

Poor oral hygiene plaque buildup smoking & genetics

Stages

Gingivitis Periodontitis 2

Symptoms

Swollen
Red
Bleeding Gums
Loose Teeth
Puss
Bad Breath
Receding Gums
Boneloss

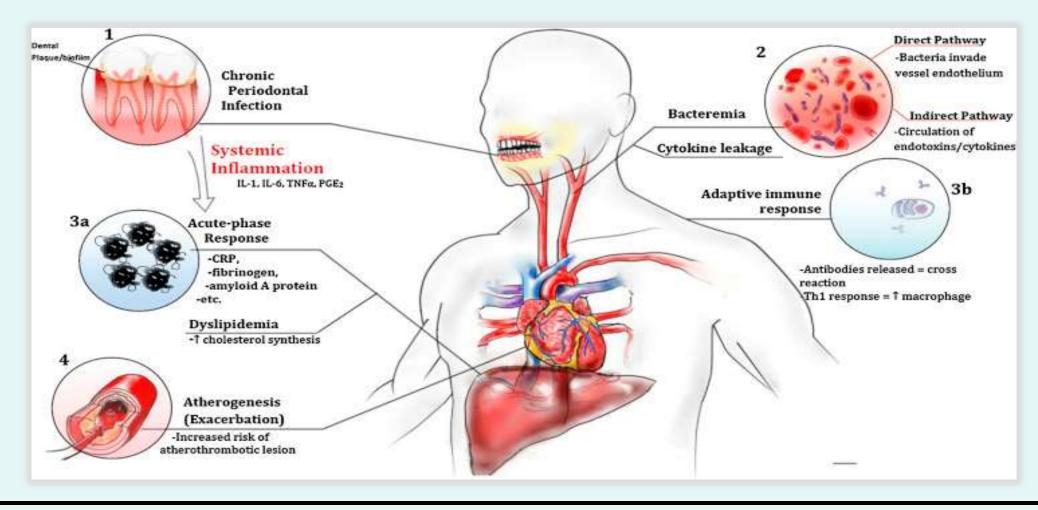
3

Prevention

Proper Brushing
Flossing
Quitting Smoking
Chronic Disease Mgmt
Regular Hygiene Appts

thehygienepreneur.com

Gum Disease Systemic Connection



Systemic Health Overview



✓ Systemic Health refers to the overall health of the entire body and its systems

✓ It includes all the various bodily systems and their influence on each other

✓ All the systems are interconnected

The Oral Health & Systemic Health Connection













Bidirectional Relationship

- The Health of one systems affects the other
- Interconnected systems

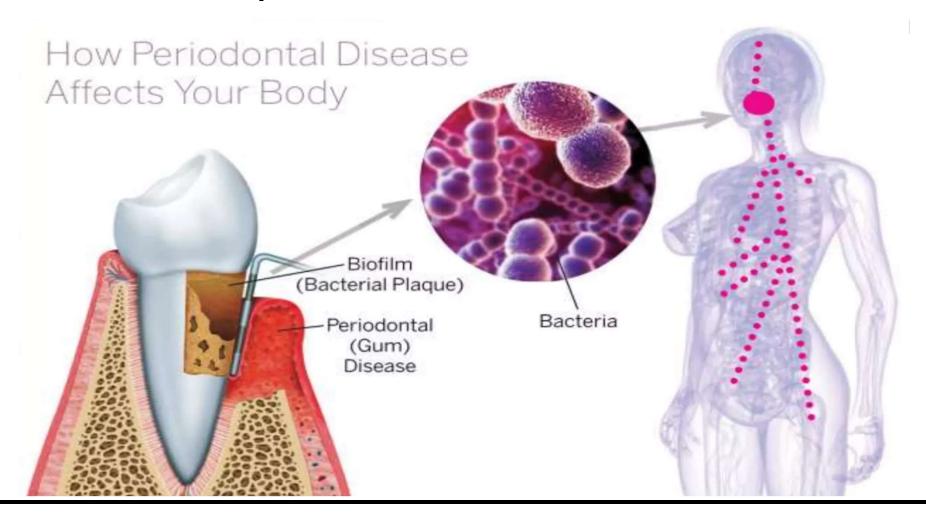
Oral Health Systemic Conditions

- Cardiovascular Disease
- Diabetes
- Respiratory Infections
- Pregnancy Complications

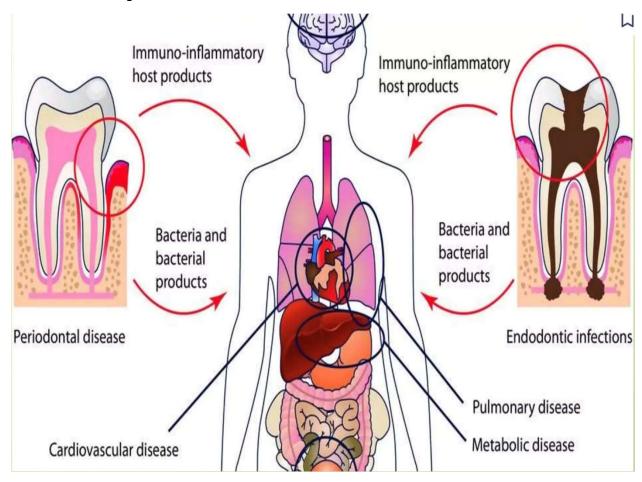
Contributing Factors

- Inflammation
- Bacteria & Toxins
- Immune Response

The Oral Health & Systemic Health Connection



The Oral Health & Systemic Health Connection



The Disconnect

- 111 million people visit primary care annually, but do not see a dentist
- 27 million people visit a dentist annually, but not a primary care provider
- Medical providers lack comfort with performing oral exams and don't have dental referrals available
- Dentists are often less comfortable with young children, pregnant women, or adults with special needs



These are opportunities:

Better Collaboration

Learning

Management

Healthcare Provider Challenges

Medical Providers Are Overwhelmed

Other Health Issues Come First

When Is It Time To Address & Refer

Lack Of Training In Oral Health

Insurance Coverage Barriers

Cost & Lack of Funds



Oral Health & Nutrition

Affects On Nutrition

- Chewing Function
- Impact on Nutrition- Tooth Decay/Missing Teeth
- Diet Quality

Importance in Chewing & Digestion

- Mechanical Digestion
- Nutrient Absorption
- Digestive Efficiency



Habits To Promote Proper Nutrition

- Regular Dental Checkups
- Healthy Diet & Good Oral Hygiene



Aging and Oral Health



Common Issues

Tooth Loss
Gum Disease
Dry Mouth
Oral Cancer





Impact: Quality Life

Chewing
Speech
Pain
Self-Esteem

Solvers- Regular Dental Visits, Denture Care & Maintaining Oral Hygiene

Direct Bacterial Affect

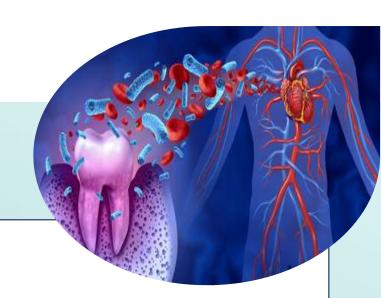
Untreated Oral Disease Can Spread & Cause...

- > Intraoral abscesses
- > Sinusitis
- > Facial cellulitis
- Brain abscesses
- Bacteremia and sepsis



Cardiovascular Health

Research links gum disease & heart disease Oral bacteria can affect the heart & risks of stroke



Evidence

Numerous studies have shown the association

Statistics

Periodontal disease linked to higher heart disease risk

Mechanisms

Inflammation, bacteria and blood clots, immune response

Oral Bacteria's Impact On The Heart



Endothelial Dysfunction

Oral bacteria harm blood vessel cells, causing inflammation

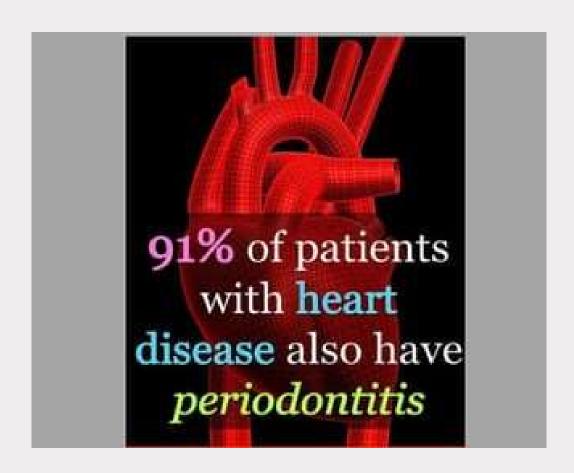
Direct Effects on Heart Tissue

Oral bacteria toxins harm heart tissue and function

Impact on Blood Pressure

Gum disease inflammation raises blood pressure, straining the heart

Connection Statistics



Diabetes: What is the impact of Diabetes on Oral health?

Dry Mouth

- Diabetes reduces saliva production
- ➤ Heightened risks of decay
- ➤ Increase cases of gum disease, and infections

Periodontal Disease

- > Impaired blood sugar control
- > Promotes bacterial growth
- Increase risk of inflammation & Infection

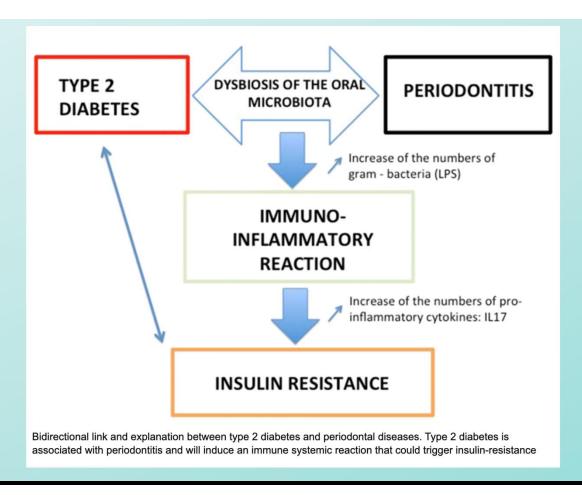
Delayed Wound Healing

- > Reduces healing ability
- > Oral wounds
- Injuries to the gums

Oral Health & Blood Sugar Control

- Bi-Directional Relationship- health of the mouth can affect blood sugar
- Periodontal Disease and Insulin Resistance- severe gum disease may contribute to insulin resistance
- Inflammation and Blood Sugar- Oral inflammation → Systemic inflammation → Worsen insulin resistance & Blood sugar control
- Importance of Dental Care- Maintaining good oral health is essential to managing blood sugar levels

The Bi-directional Relationship: Oral Health & Blood Sugar Control

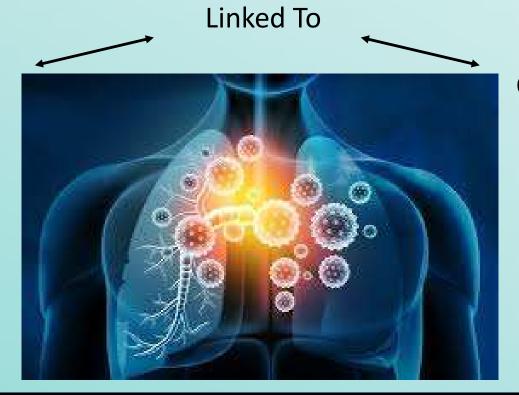


Respiratory Health

What is the connection between oral bacteria & respiratory infections?

Oral Bacteria Aspirated

Biofilm Contains Pathogens

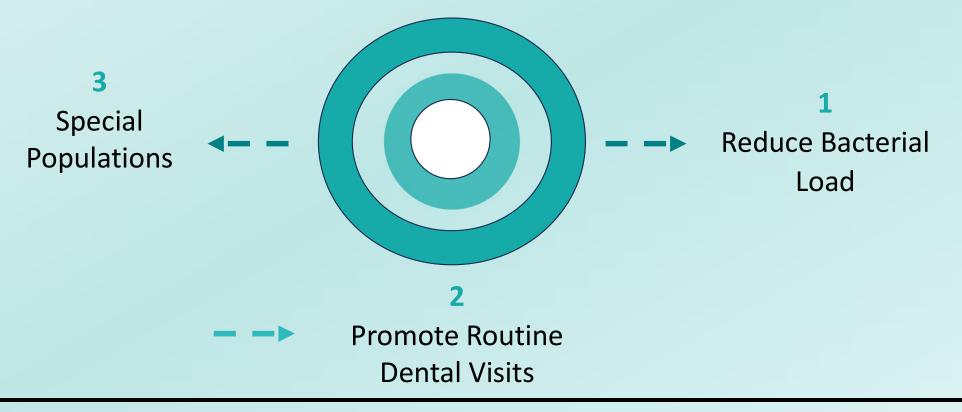


Chronic Bronchitis
Pneumonia

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Respiratory Infections Prevention

Emphasize Oral Care



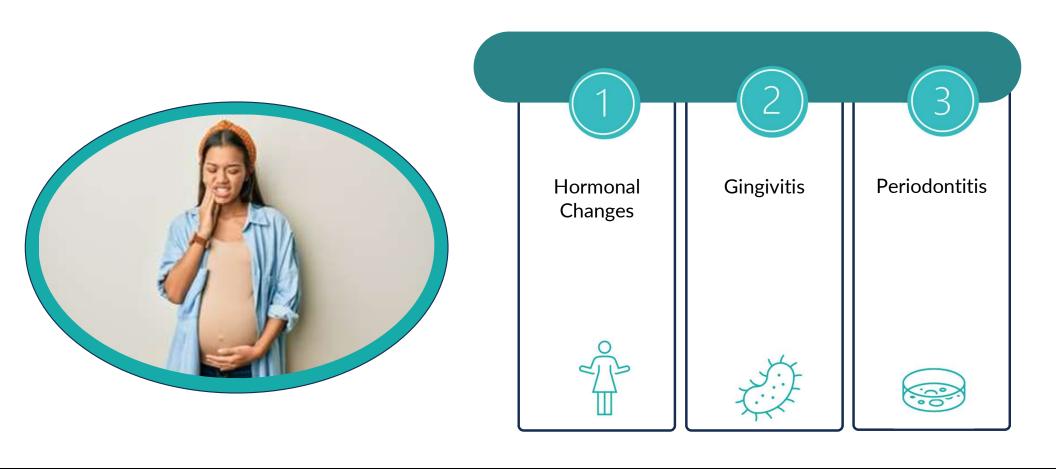
Pregnancy Outcomes

Effect of Oral health on Pregnancy

- Preterm Birth/Low Birth Weight
- Gestational Diabetes
- Preeclampsia- HBP



Risks of Gum Disease During Pregnancy



Reduce The Risk of Adverse Pregnancy Outcomes

Preventive Measures 3 Regular Dental Visits Home Care Multi Doctor Consultation

Mental Health

Link Between Oral Health and Mental Health

Negative Affects



- Impact of Stress
- Psychological Impact
- Bi-Directional Relationship

Can Escalate To:



- Depression
- Anxiety
- Social Isolation

Problem Solving Strategies



- Integrated Care
- Behavioral Intervention
- Patient Education

Oral Health and Immune Response



What Role Does It Play?

- Barrier Function
- Immune Surveillance
- Inflammatory
 Response





Oral Infections Weaken the Immune System

- Systemic Impact
- Bacteremia
- Compromised Immunity



For A Strong Immune Function

- Regular Dental Care
- Effective Oral Hygiene
- Healthy Lifestyle

Oral Health and Cancer

Oral Cancer

Poor Oral Hygiene Alcohol & Smoking

Pancreatic Cancer

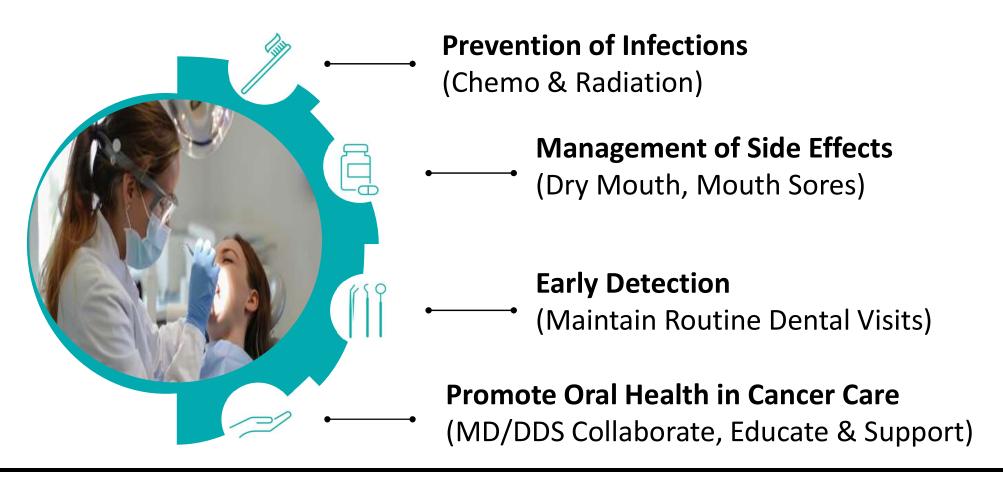
Certain Oral Bacteria Associated with Periodontal Disease



Esophageal Cancer

Linked to Poor Oral Hygiene & Gum Disease

Importance of Oral Hygiene in Cancer Patients



Some Facts About Oral Cancer

10 Facts about Oral Cancer



Screening for oral cancer takes less than 10 minutes.

Oral Health and Neurological Disorders

Alzheimer's Disease & Neurodegenerative Diseases



Oral Bacteria from
Gum Disease Can
Migrate to the Brain
Contributing to
Neuroinflammation



Shared Risk Factors
& Mechanisms
Are Age, Genetics,
Inflammatory Processes



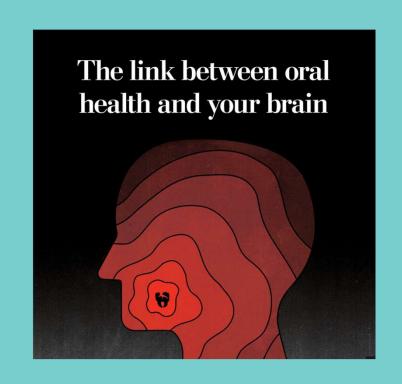
Observational Studies
Show That Individuals
with Poor Hygiene
May Be At Increased
Risk of
Cognitive Decline

Importance of Oral Hygiene In Neurodegenerative Diseases

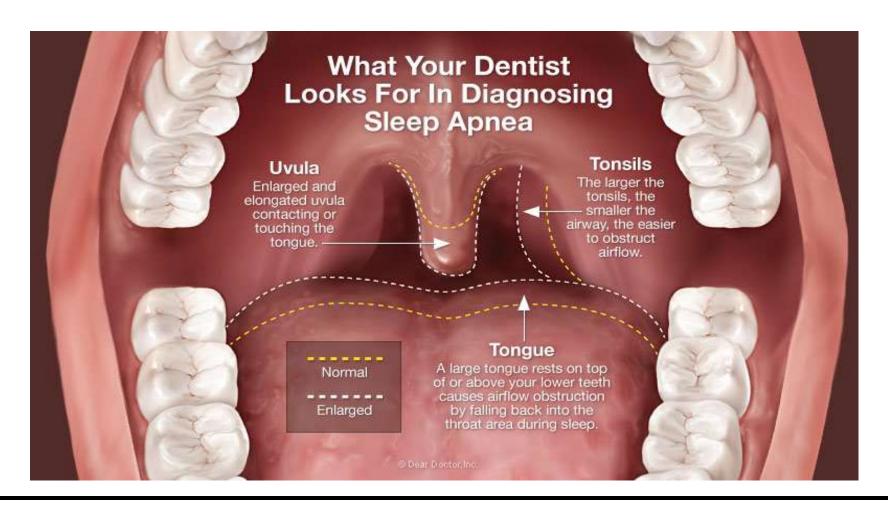
Impact on Disease Progression- Reduce the Risk of Neuroinflammation

Quality of Life- Can Affect Nutrition & Enjoyment

Management Strategies- Integrated Healthcare Approaches Improves Overall Wellbeing



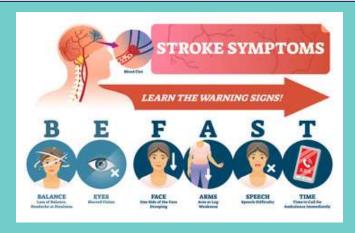
Oral Health and Sleep Disorders

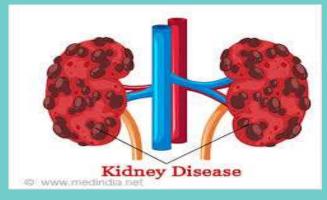


Oral Health & More Systemic Diseases

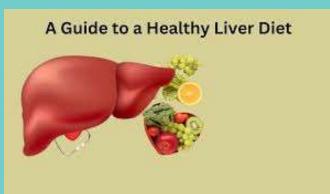












Oral Health Promotion Strategies





Importance of Regular Dental Visits Tips For Maintaining Good Oral Hygiene



Preventive Care

Early Detection of Cavities

Gum Disease & Oral Cancer



Professional Cleaning
Removes Plaque &
Tarter



Brushing & Flossing
Healthy Diet
Avoid Tobacco

Medical Provider Oral Health Training



Screening For Disease

Risk Assessments



Oral Health Maintenance

Anticipatory Care

Early Referral

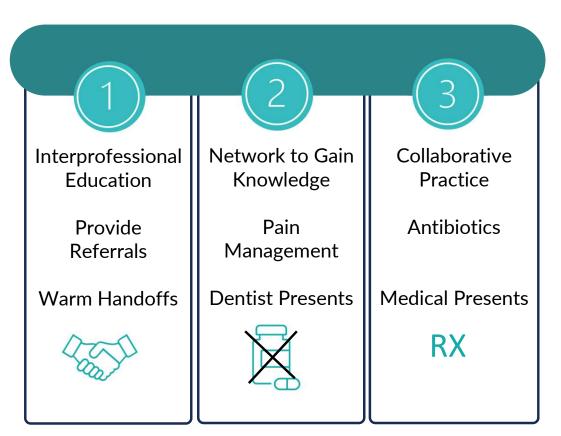


Fluoride

Oral Health Tools

Medical/Dental Collaboration





Added Roles & Skills For Primary Care



Counsel Patients

- Oral Health Promotion
- Perform Screenings & Learn Clinical Dental Emergency Skills
- Facilitate Referrals



Oral Health Assessment

- Prenatal
- Infants & Children
- Elderly

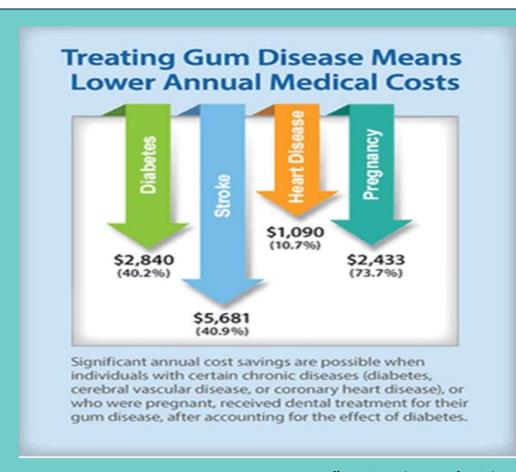


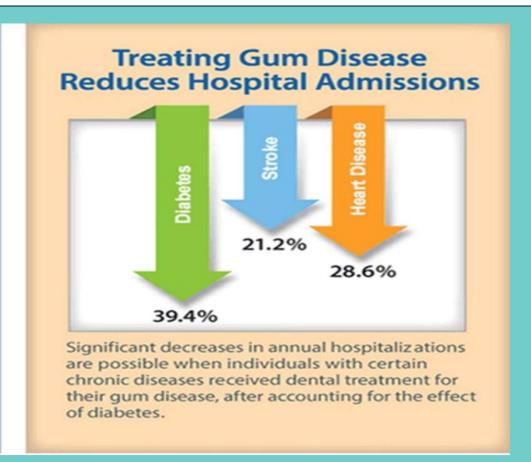
Develop Programs

- > Fluoride
- Collaborate w/Schools
- Promote Community
 Oral Health



Treating Gum Disease Reduces Medical Costs





Jeffcoat MK, et al. Impact of periodontal therapy on general health: evidence from insurance Mata for five systemic conditions. Am J Prev Med 2014; 47(2):166-74.

Treating Gum Disease Promotes Overall Body Health





Periodontal Disease Is Preventable & Treatable



Practice Good Oral Hygiene Habits



Schedule Regular Dental Visits



Discuss Risk Factors with Your Medical & Dental Providers

THANK YOU FOR COMING!





