

Oral Health & Healthy Aging: Building Strength from the Inside Out





About WIHA

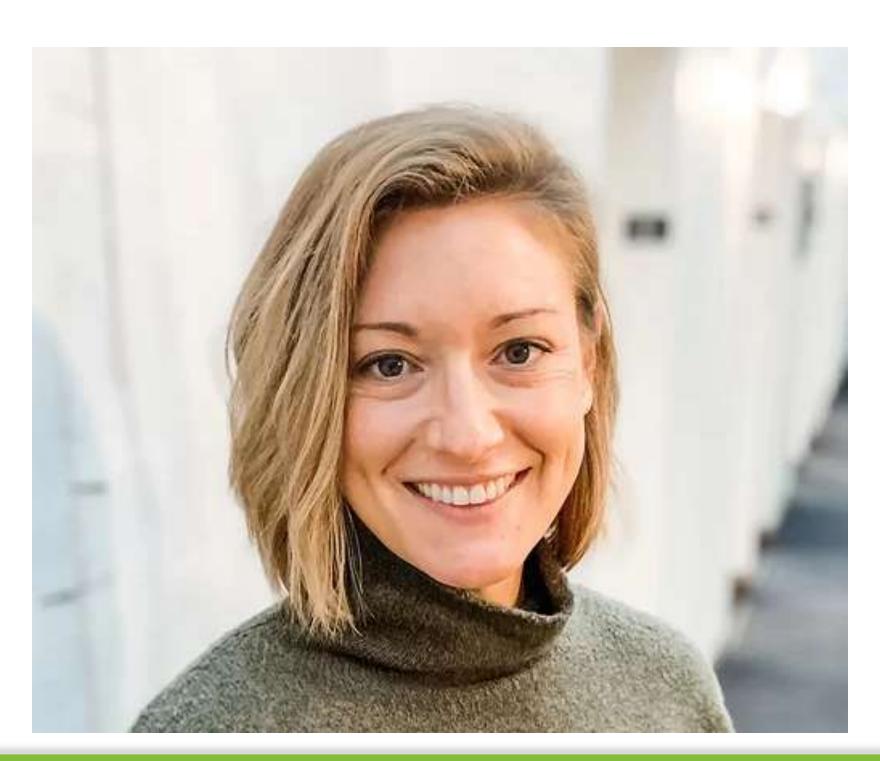
- **Mission**: To improve the health and well-being of all people as we age by disseminating evidence-based programs and practices and by engaging in collaborative public health strategies in Wisconsin and beyond.
- https://wihealthyaging.org
- Age Well Newsletter







Our Speaker



- Dr. Patti Sigl
- Dental Degree from Marquette University
- Algoma Family Dentistry





Dr. Patti Sigl

Algoma Family Dentistry

OREMENT.

is the BEST medicine!



If a 10 year old gets a cavity filled,

by the time he turns 40, he will have paid ower \$1,000 in services to maintain it...

costing an awerage \$2,187 by his 79th birthday.

This cost is per caulity and well above the lifetime cost of preventive care.

The flats and Assignic Center (IAAC) is a company order to isociance expents and beginness analysts affiliated with DeRa Dental Plans Association (the fide ration of DeRa Dental member companies asserted the country). The DAC has a data ware to use of millions of cities submitted to DeRa Dental member companies that are the basis for studying a variety of dental issues.











Key Topics

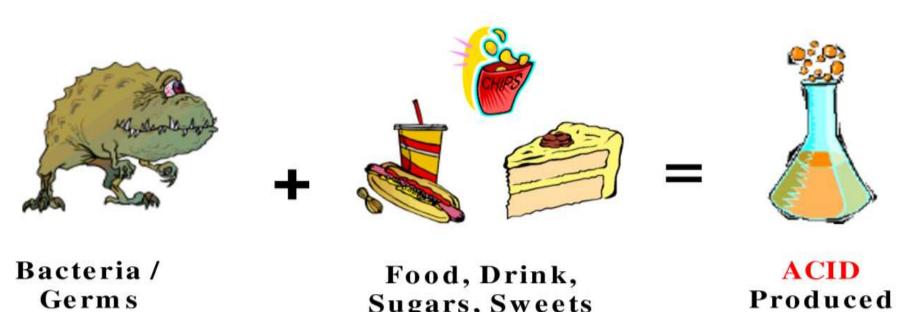
- *The link between oral health and nutrition
- *Oral health and systemic health connections
- *Building healthy habits to aid in prevention
- *Common dental problems and what to do about them

POLL

- . What is the #1 cause of cavities?
 - Not brushing your teeth
 - Sugar frequency
 - Eating lemons
 - Not flossing

Cavity math

DENTAL DECAY PROCESS





Healthy Tooth

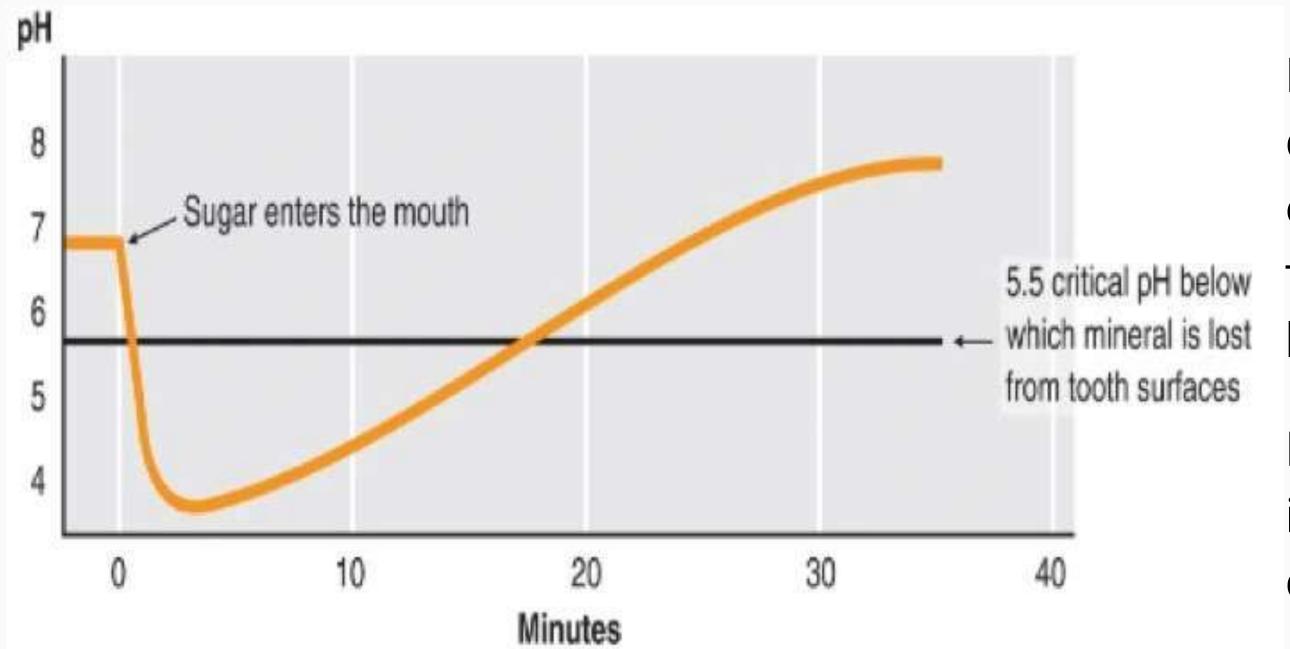




Sugars, Sweets

Cavity

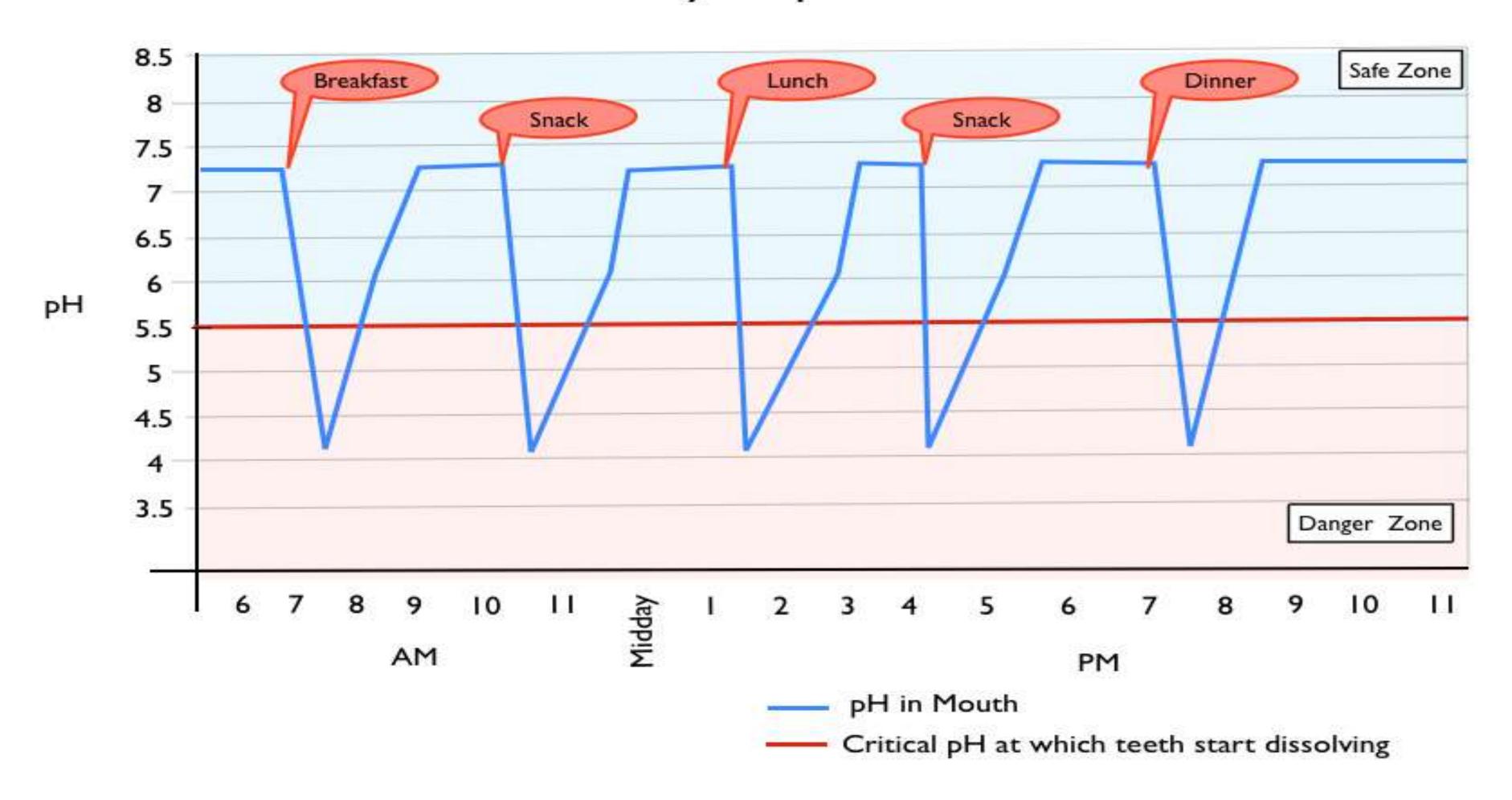
How Cavities Form



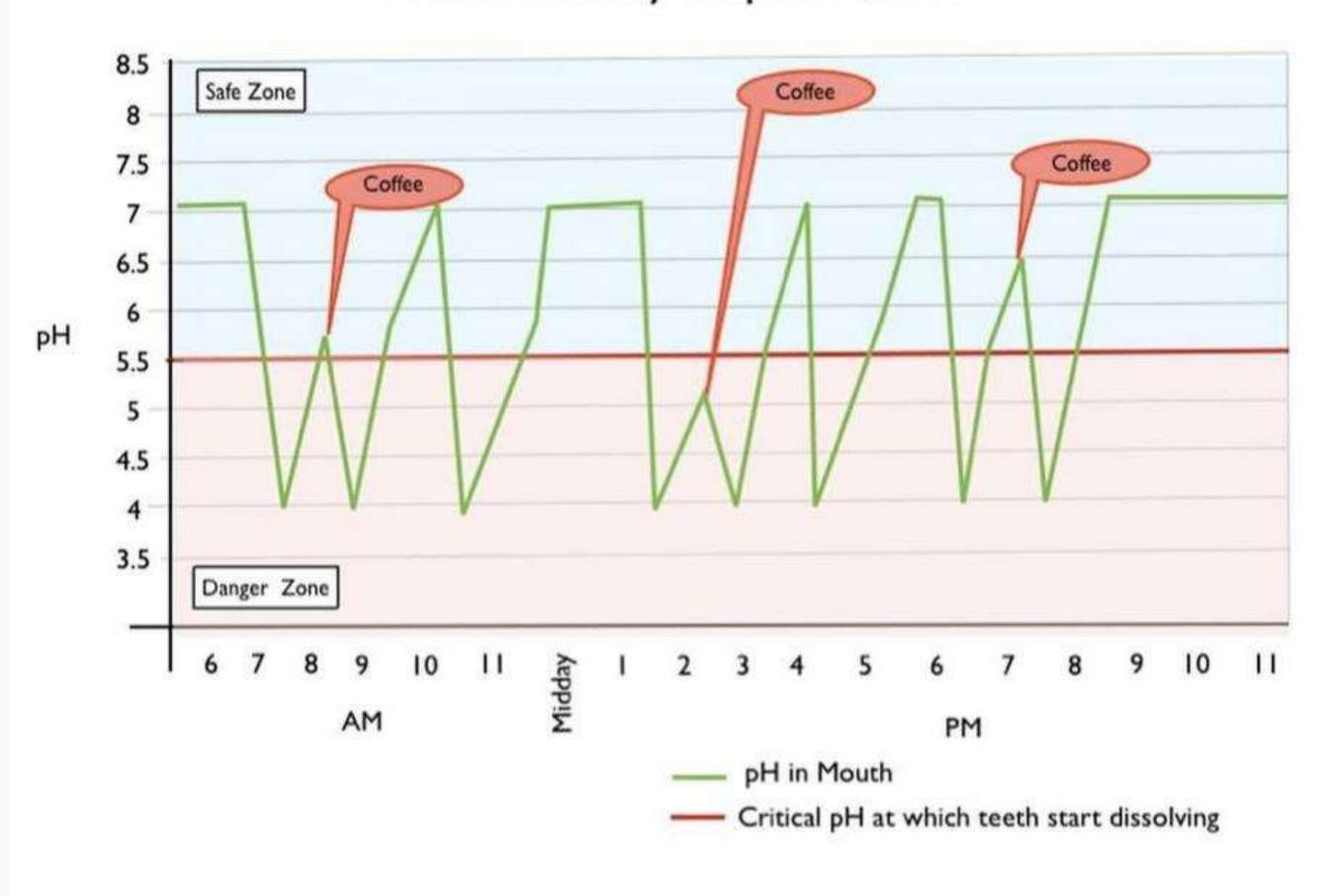
Every time we eat or drink there is an opportunity for bacteria to produce acid and begin the cavity process.

FREQUENCY of sugar intake is the #1 Factor in cavity risk!

A Healthy Stephan Curve



A Less Healthy Stephan Curve



How does Fluoride work?

- Enamel is 95%
 minerals: Calcium
 and phosphorus
 which together form
 Hydroxyapatite
- 4% water and 1% protein
- Fluoride makes enamel more resistant to acids

Actions of Fluoride

Replaces hydroxyapatite crystals in the enamel matrix.

Becomes "fluorapatite"

Fluorapatite crystals are bigger, stronger, and less soluble.

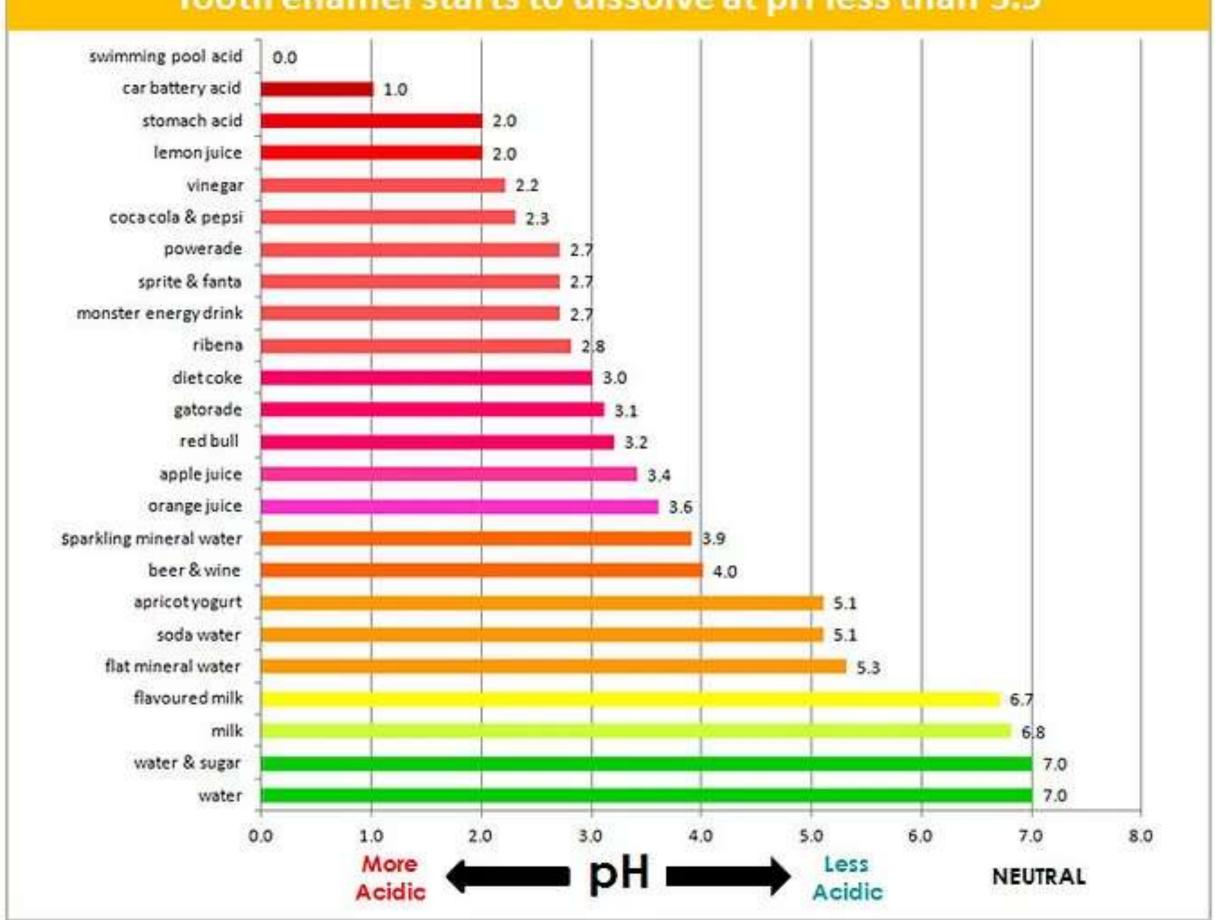
Inhibits demineralization by lowering the critical pH.

Critical pH of enamel is 5.5

Critical pH of enamel with fluoride is 4.5

Acidity (pH) of Common Drinks

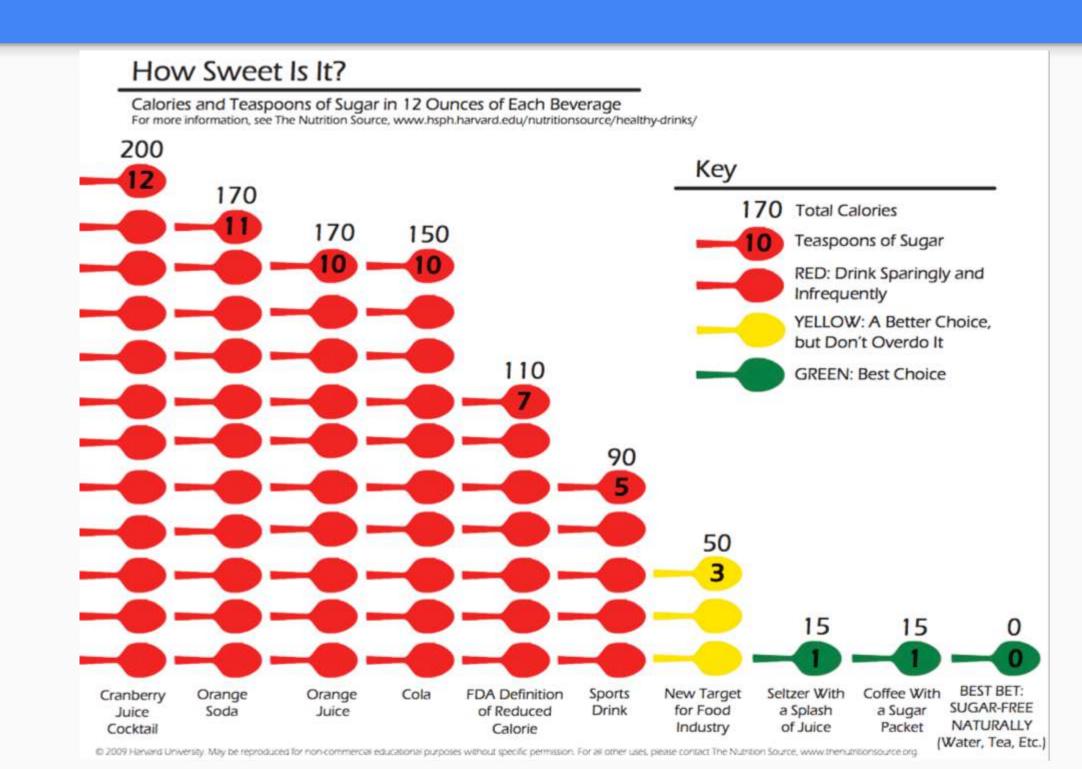




What should we eat and drink?

Foods that maintain neutral pH

- . Protein and healthy fats
- Lean meats, milk, cheese and nuts
- Foods that are lower on the Glycemic Index



Glycemic Index

Low GI (<55), Medium GI (56-69) and High GI (70>)

Grains / Starchs		Vegetables		Fruits		Dairy		Proteins	
Rice Bran Bran Cereal Spaghetti Corn, sweet Wild Rice Sweet Potatoes White Rice Cous Cous Whole Wheat	27 42 42 54 57 61 64 65 71	Asparagus Broccoli Celery Cucumber Lettuce Peppers Spinach Tomatoes Chickpeas	15 15 15 15 15 15 15 33	Grapefruit Apple Peach Orange Grape Banana Mango Pineapple Watermelon	25 38 42 44 46 54 56 66 72	Low-Fat Yogurt Plain Yogurt Whole Milk Soy Milk Fat-Free Milk Skim Milk Chocolate Milk Fruit Yogurt Ice Cream	14 14 27 30 32 32 35 36 61	Peanuts Beans, Dried Lentils Kidney Beans Split Peas Lima Beans Chickpeas Pinto Beans Black-Eyed Beans	21 40 41 41 45 46 47 55 59
Bread Muesli Baked Potatoes Oatmeal Taco Shells White Bread Bagel, White	80 85 87 97 100 103	Cooked Carrots	39	Watermelon		ree cream	O1	Diack-Lyeu Deans	





Nutrition for healthy teeth, bones and gums

Vitamin D - aids in absorption of calcium, phosphorus and magnesium (bone metabolism). Deficiency is linked to periodontal disease.

Vitamin A - Builds and maintains epithelium. Enhances immune system function. Improves salivary gland function.

Iron and Zinc - Wound healing. Collagen formation. Regulates inflammation

Nutrition for healthy teeth, bones and gums

B Vitamins - aids in the formation of new cells. Helps with wound healing. Collagen synthesis.

Vitamin C - Collagen formation. Deficiency causes gingivitis. Enhances immune system.

Calcium - Builds bone and helps remineralize teeth.

Fiber - Controls blood sugar. Reduces inflammation. Deficiency linked to periodontal inflammation.

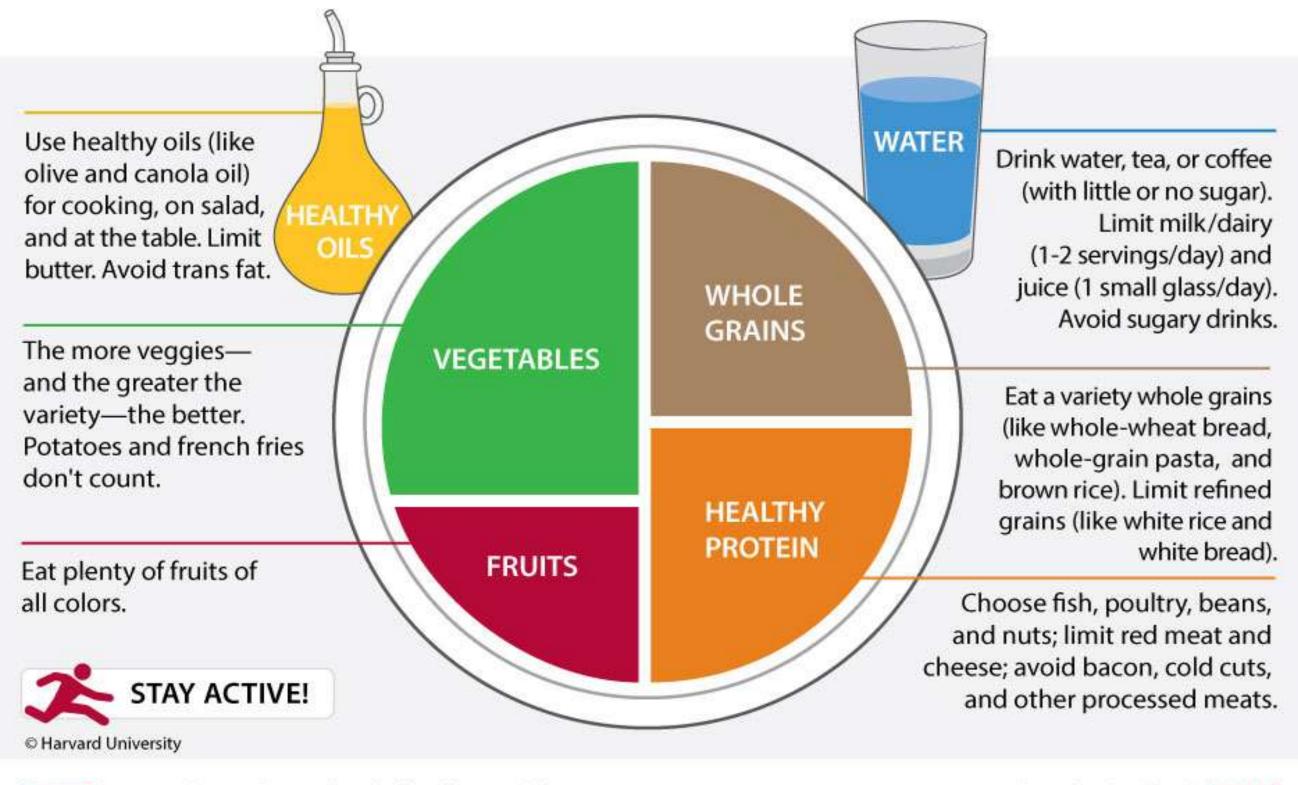
Nutrition for healthy teeth, bones and gums

Protein - Promotes growth. Maintains and repairs all tissues.

Lipids/fats - Omega 3 fatty acids have anti-inflammatory properties.

Probiotics - Strengthen immune system. Inhibit colonization of harmful bacteria/microorganisms

HEALTHY EATING PLATE





Harvard T.H. Chan School of Public Health The Nutrition Source www.hsph.harvard.edu/nutritionsource Harvard Medical School
Harvard Health Publishing
www.health.harvard.edu

Simple Tips to Remember

- Limit meals to 3 times a day with no more than 2 between meal snacks
- When not brushing after a meal- Try ending the meal with cheese, xylitol gum, or rinse with water to bring the mouth back to neutral 7.0pH
- Drink water throughout the day in between meals and snacks.
- 4. Avoid soda and sugary snacks (even diet soda as it contain acid)

Common Dental Problems for Seniors

Xerostomia/Dry Mouth

Root surface decay

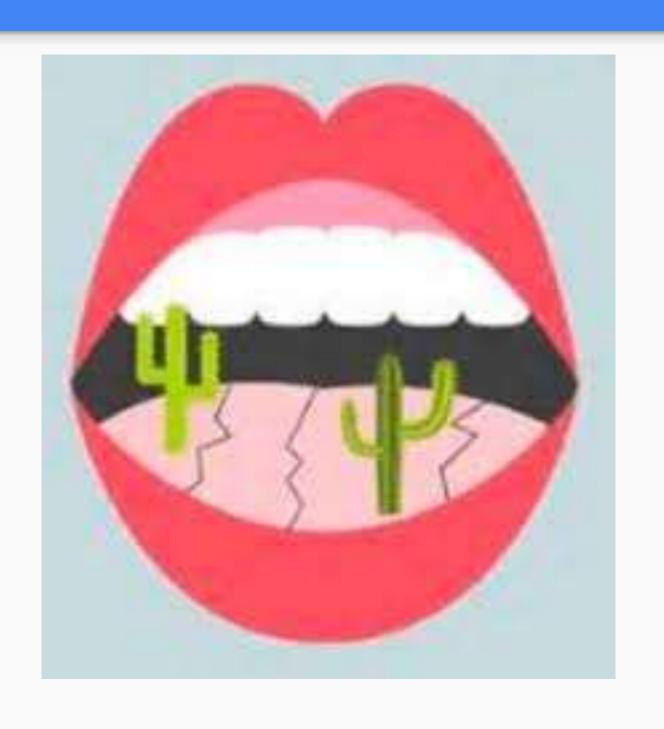
Tooth loss/Edentulism

Tooth changes with Age

Periodontal disease

Long term care facilities

Xerostomia Dry Mouth



Common causes:

- 1. Medications
- 2. Health Conditions
- 3. Dehydration
- 4. Mouth breathing
- 5. Excessive caffeine, alcohol and smoking

Dry Mouth Symptoms



- A dry or sticky feeling in the mouth
- Difficulty swallowing or speaking
- Cracked lips or a dry throat
- Increased thirst
- A dry or sore tongue
- Bad breath (halitosis)
- Difficulty tasting food

Impacts on Oral Health



- 1. High risk for cavities!
- 2. Gum disease
- Difficulty speaking and swallowing
- 4. Bad breath
- 5. Infections
- Difficulty wearing dentures or partials

Dry Mouth-What can you do about it?









- Stay hydrated with WATER!
- OTC sprays, gels, moisturizers
- Sugar free gum or lozenges with xylitol-mint or citrus
- Impeccable oral hygiene with fluoride toothpaste/rinse.
 Rx may be recommended.
- Avoid caffeine and alcohol
- No smoking!

Root cavities







How does it happen?

- Overtime root surfaces are exposed
- More susceptible
- Dry mouth
- Improper brushing

What can you do about it?

- Prevention is #1
- Routine dental check ups and cleanings with risk assessment
- Dry mouth patients need to be EXTRA vigilant
- Manage bacteria and sugar/acid intake
- Rx fluoride
- Healthy Diet!

Periodontal Disease



- Leading cause of tooth loss in adults
- 45% of adults affected to some degree
- Bone loss can be halted but not reversed

How does it start?

- Poor oral hygiene
- Skipping years of cleanings
- Some forms can be genetic (very rare)
- Smoking
- Uncontrolled diabetes

Periodontal Disease



What can you do about it?

- Thorough brushing and flossing every day
- Quit smoking
- Deep Cleanings (scaling and root planing)
- Surgery may be needed
- Dental cleanings every 3-4 months

Tooth Loss Edentulism





- Losing teeth is NOT a part of normal aging.
- 30% of elderly have untreated decay
- 25% have lost bone due to periodontal disease
- Adults over 65 have an average of 18 teeth
- 25% have no teeth at all
- Most Medicare patients have no dental coverage so access to care is a challenge

Tooth Loss Edentulism



Negative impacts:

- Difficulty eating
- Inadequate nutrition
- Social impacts and dissatisfaction with appearance

What can you do about it?

- Dentures
- Partials
- Implants

Care for dentures and removable partial dentures





- Brush dentures with a denture brush and mild soap
- Soak dentures overnight in water or denture soaking solution
- Brush your gums, tongue, and roof of the mouth to prevent bacterial overgrowth

Tooth changes with age





Tooth wear can happen for many reasons.

- Sometimes just normal wear from years of chewing
- Acid erosion from diet or acid reflux or eating disorders
- Clenching/Grinding
- Sleep apnea
- Using a toothbrush with hard bristles
- Crooked teeth can create challenges patterns of wear





Attrition



Abfraction



Erosion

Abrasion

Tooth changes with age



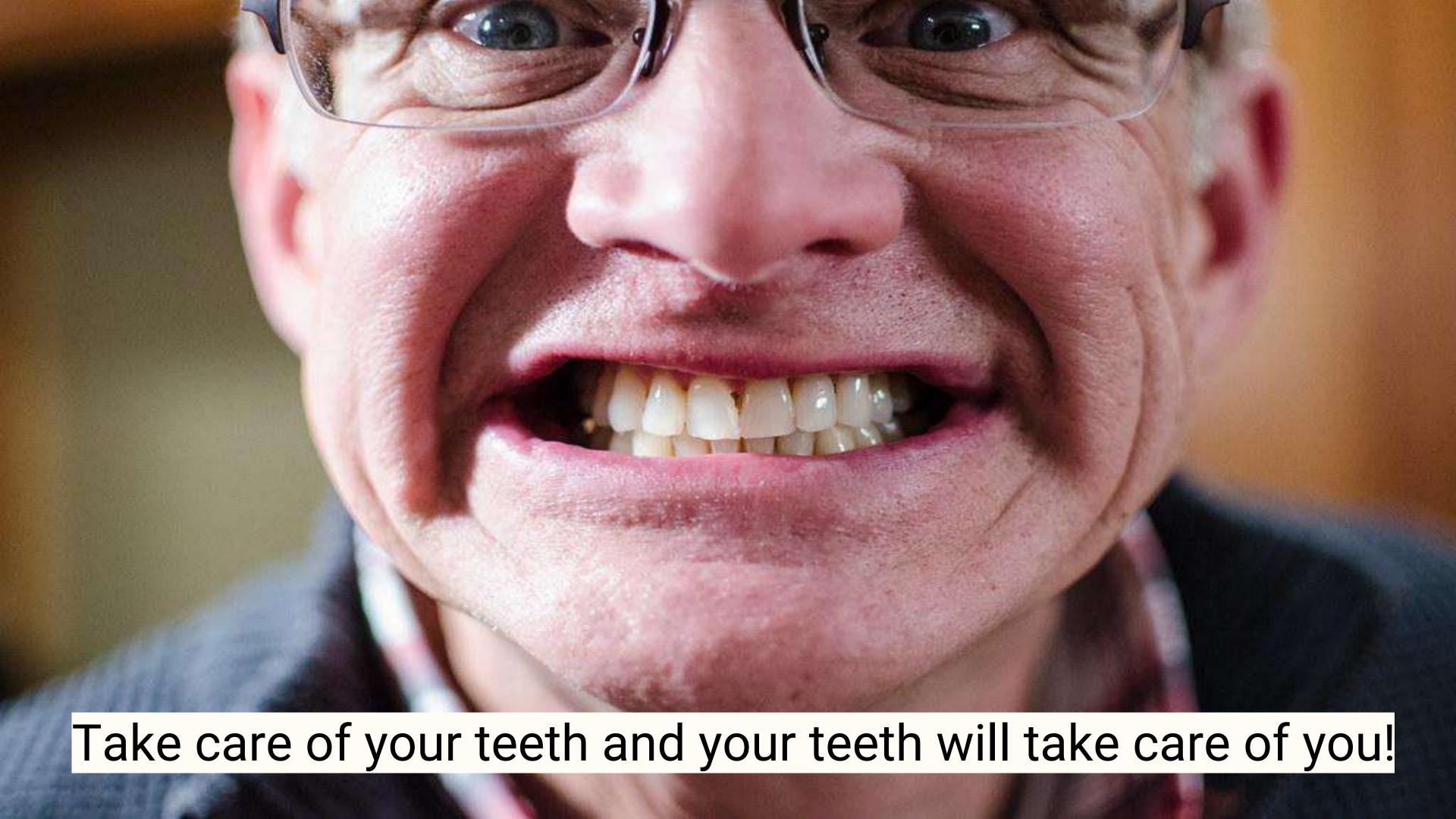
Before: severely worn teeth



After: normal and renewed

What can you do about it?

- Restore lost tooth structures with bonding or crowns
- Prevent damage from grinding with night guards
- Replace missing teeth so the remaining aren't subject to additional forces (especially when multiple teeth are missing)



Thank You!





Feedback

- Upon exit of zoom, please share your thoughts
- Those who complete the eval live will be entered to win a t-shirt!



Next for Age Well Series

November 6



FREE WEBINAR

Impact of Ageism on Physical and Mental Health

+ What You Can Do To Change It

Dr. Regina Koepp explores the profound impact of ageism on the physical and mental health of older adults, debunking harmful myths that aging limits growth or healing and emphasizing the importance of belonging as a key to resilience, longevity, and emotional well-being. Attendees will learn how ageism intersects with other forms of discrimination. exacerbating health disparities among marginalized older adults. Through evidence-based insights and practical tools, the session offers pathways to foster inclusive environments that support healing, dignity, and transformation—at every age.



November 6 1-2pm CST

Brought to you by:









Wisconsin Institute

for Healthy Aging

Next for Age Well Series

November 10

Finding Your Third Place

Building Happier
Communities (and
Making Great Friends
Along the Way)





What is your third place?

At a time when our nation is facing an epidemic of loneliness, when communities are suffering from loss of trust, low levels of engagement, despair, and political polarization, what if the answer to many of our problems lies in a simple idea? What if we just need to pay attention to the places where we find ourselves?

Reflect on these questions and more during this engaging presentation as we kick off Social Connection Awareness Week in Wisconsin.



Presenter: Richard Kyte, PhD Viterbo University

November 10 12-1pm CST FREE WEBINAR



QUESTIONS

