

Optimizing Oral Health in Older Adults

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SEMINAR INSTRUCTOR



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GOALS AND OBJECTIVES







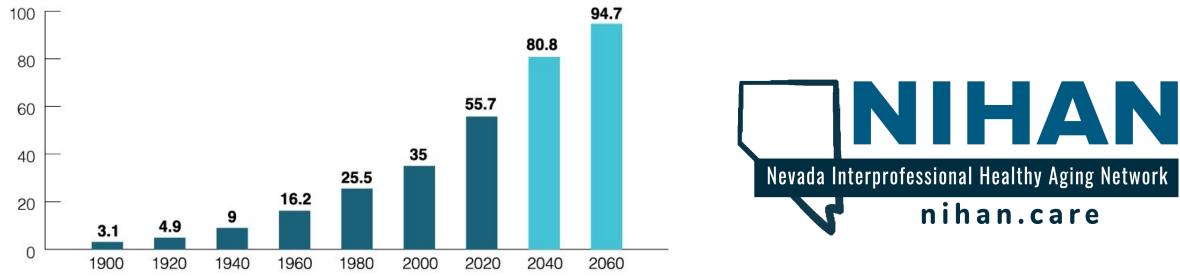
Oral Health for Older Adults



Why your dental health matters?



Number of Persons Age 65 and Older, 1900-2060 (numbers in millions)



Note: Lighter bars (2040 and 2060) indicate projections. Source: U.S. Census Bureau, Population Estimates and Projections

Growing Population





Oral Health Assessment

Complete an accurate oral assessment of elderly patients.



Oral Health Assessment

Assess symptoms suggestive of oral problems.

Palpate:

• Neck, TMJ, FOM

Examine:

- Face and lips
- Teeth, gums, and prosthesis
- Evaluate hygiene
- Mucosal surfaces and saliva, both soft and hard palate
- Lateral borders and undersurface of the tongue
- Posterior pharynx

Oral Pain

- Common with almost 25% of adults report oral pain in the past year
- Communicating pain is often difficult
 - Patients with disabilities
 - Non- verbal adults
- Signs and Symptoms to look for in patients
 - Agitated, refuse to eat, pull at the face
 - Swelling of the cheek or gum
 - Broken, decayed teeth
 - Ulcers, abscesses or fistula
- Elder trauma pay attention ensure no abuse!

Oral Health Assessment & Elder Abuse

Elder abuse is highly under-reported! First presentation may be oral

Broken, neglected teeth, or dentures Black eye or broken nose Bruises to chin, earlobes Multiple bruises varying in healing stages Finger marks on face or neck Poor hygiene Signs of malnutrition or dehydration Unexplained or implausible injuries

Face and Lips

• Examine at rest

Look for any facial deformity or lesions Pay attention to dry, scaly, or ulcerated areas -> Why?







Squamous Cell Carcinoma



Angular Cheilitis

Gums and Teeth

Periodontal Disease

Oral hygiene / home care

Caries and root caries

Broken or worn teeth

Prosthesis



Gingival Recession resulting in root surface exposure Photo: John McDowell, DDS



Dark Staining Photo Robert Henry, DMD, MPH

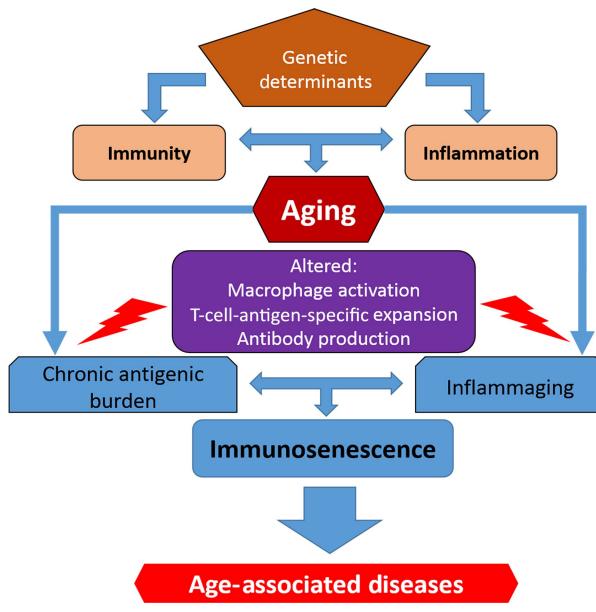


Worn incisal edges and yellowing Phote: UKCD



Tobacco Staining Photo Robert Henry, DMD, MPH

Periodontal Disease and Aging





CAVITIES (Dental Caries)





Dry mouth (Xerostomia)



Poor Oral Hygiene

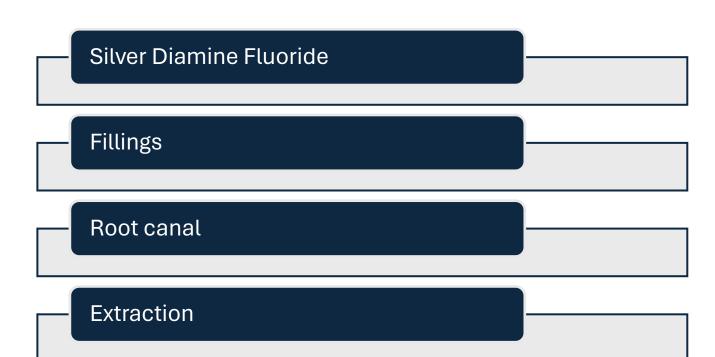


Poor Diet / Consumption of Sugary Food



Multiple Medication (Polypharmacy)

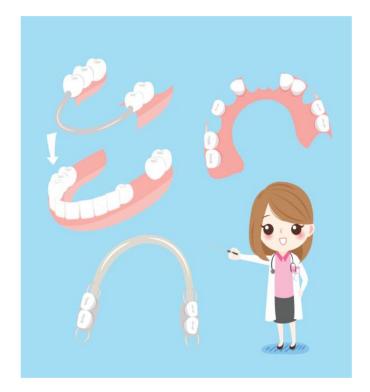
Treatment (least to most invasive)





Common Oral Health Problems

 Important to identify and manage common oral health conditions in the geriatric population



Common Oral Health Problem: Aged Mastication & Musculature

Loss of taste or taste perception or loss of sense of smell also contribute to inadequate nutrition

Weakening jaw force which causes poor mastication (chewing)





Common Oral Health Problem: Root Exposure & Caries

• Root Exposure Gum recession

Root Caries Carbohydrates + Bacteria + Acid



Root Caries Photo: Robert Henry, DMD, MPH

Common Oral Health Problem: Gum Disease

Gingivitis & Periodontitis

Symptoms: Tenderness, Red, & Bleeding. Treatment: Good home care

Regular dental visits

Stopping irritants: ex: tobacco

Referral to gum specialist if continues

Oral antibiotics or Topical solution ex: Chlorohexidine

Common Oral Problems: Denture Problems

Ulcerated mucosa due to irritation from prosthesis

III- fitting prosthesis Poor oral hygiene Leaving in prosthesis; example: overnight

Maxillary Ridge Ulceration



Angular Cheilitis

Insufficient vertical height Assess denture/ Remake Treat with antifungals Biopsy if non-healing

Angular Cheilitis



Common Oral Problems: Denture Problems Continued

Denture Stomatitis

Signs are red areas (erythema) Symptoms are uncommon Dominant etiological factor: fungal infection

Treatment: Mechanical plaque removal Proper denture wearing habits Topical Antifungal

Denture Stomatitis



Photo: Robert Henry, DMD, MPH

Common Oral Health Problems: Oral Cancer

Leukoplakia "white patch" Erythroplakia "red patch"



Etiology: Premalignant



Symptoms: Subtle white or red patch



Symptoms: Elevated plaques ulcerated



Treatment: Biopsy if over 2 weeks

Common Oral Health Problems: Oral Cancer

Epidemiology

Alcohol and tobacco Human Papilloma Virus, HPV 16 Sunlight (lip cancer) Betel nut

Symptoms

Red or white patches existing beyond 2 weeks Ulcers that bleed easily or do not heal Masses

Treatment

See your dentist May be referred to specialist Biopsy







Oral Effects from Medications

Common oral effects of medications



Common Medications & Oral Effects

Medications	Adverse intraoral Effects
Phenytoin, methotrexate, calcium channel blockers	Gingival Overgrowth
IV Bisphosphonates	Osteonecrosis
Chemotherapy and radiation therapy	Stomatitis and mucositis
Steroids	Candidiasis
Nifedipine in Type II diabetics	Periodontal disease
Sugar containing medication preparations, e.g. syrups	Dental caries
Progesterone, nitrates, beta and calcium channel blockers	Dental erosions due to gastric reflux
Antihypertensives, antidepressants, antihistamines, diuretics	Xerostomia

Common Oral Effect from Medication

Xerostomia "Dry Mouth"

Sensation of dry mouth; Decreased salivary flow Medication Related Rheumatic Disease Sjogren's Syndrome Post radiation therapy Exam: mucosa is dry and friable in appearance

No pooling of saliva at floor of mouth

Management: Ask physician for medicine substitution Avoid irritants: alcohol, caffeine, smoking Avoid sugary drinks and food Sip on water Sugarless gum and mints Saliva substitutes. Salivary stimulant like pilocarpine



Oral Preventive Care

Implementing effective oral preventative measures



Prevention: Patient Steps

• Maintain good oral hygiene/ home care

- Brush your teeth for two minutes twice per day with a soft toothpaste
- \circ Use a fluoridated toothpaste
- $\,\circ\,$ Floss at least once per day
- Use a mouth rinse (Listerine, Biotene, ACT, or Colgate) once or twice per day

• Maintain good dietary habits

- Drink tap water tap water contains fluoride, which will help keep your teeth strong
- $_{\odot}$ Avoid sugary snacks and drinks
- ${\scriptstyle \circ}$ Avoid alcohol and tobacco

• Visit the dentist on a regular basis

• Even if you have dentures!





Prevention: Prosthesis Care

- Make sure to remove your denture daily
- Soaking your denture overnight in a solution such as Polident can kill up to 99.9% of bacteria
- Before brushing your denture with a soft bristle toothbrush, make sure to rinse it to remove any debris
- After cleaning your denture, make sure to brush the inside of your cheeks, gums, tongue, and teeth









Prevention: Prosthesis Care

Resources

Older Adult Oral Health: Fact About Older Adult Oral Health

https://www.cdc.gov/oralhealth/basics/adult-oral-health/adult_older.htm

Oral Health Tips: What Can Adults Do to Maintain Good Oral Health?

https://www.cdc.gov/oralhealth/basics/adult-oral-health/tips.html

Taking Care of Your Teeth and Mouth:

https://www.nia.nih.gov/health/taking-care-your-teeth-and-mouth

Geriatric Oral Health: A Review Article:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4295446/

Smiles for Life: Geriatric Oral Health

https://www.smilesforlifeoralhealth.org

NIHAN Tip Sheets for the 4Ms:

https://www.nihan.care/older-adults-families/tip-sheets-2/



Creating an Age-Friendly Health System & Dementia-Friendly Community in Nevada



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QUESTIONS?



THANK YOU