

Scope of Oral Health Problems for Seniors

- More seniors than ever are aging with their natural teeth.
- Seniors are at high risk for gum disease, root caries, and oral cancers.
- Percent of adults aged 65 and over with a dental visit in the past year 64.3% (2016)
- About 80% of seniors over age 65 have at least some of their teeth

 Evidence based studies link poor oral health to poor overall health - and health treatments to oral health outcomes.



PENNEYY WANDA ACADEM FAMILY PRYSICIANS, FOL

78GEST

Seniors Lack Access to Dental Care

- Most retires no longer have dental insurance
- Medicare does not cover dental
- Medicaid cut dental care benefits for adults in 2011 limiting services including periodontal treatment
- Eight percent of Pennsylvania's older adults live at or below the federal poverty level -- choosing to pay for dental care out of pocket versus their medications is not realistic
- Many seniors have a limited understanding of the importance of preventive dental care and the relationship between oral health and their overall health
- The prevalence of untreated caries was 42.2% among adults 65 years of age and older in the ≤100% FPL income category and 9.9% in the ≥400% FPL category



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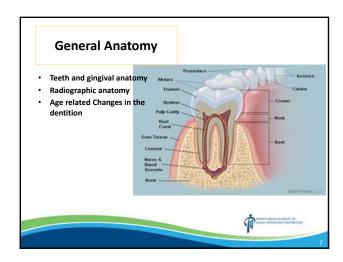
Topics for discussion

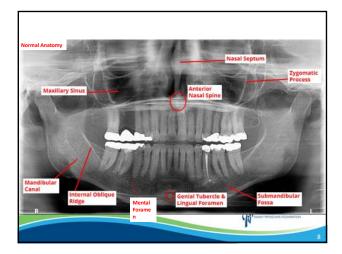
- General anatomy
- Common oral conditions in geriatric patients
- Pharmacologic effects on oral health
- Aids to oral health
- Medical/dental connection
- Treatment objectives
- Q&A

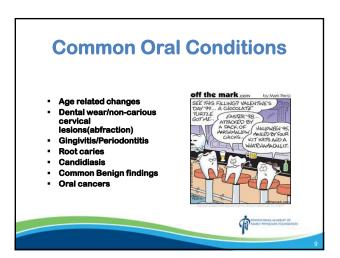




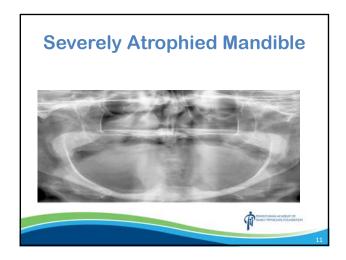
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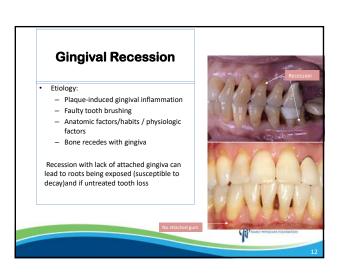


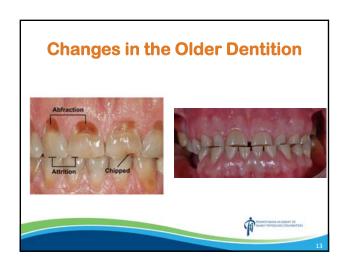




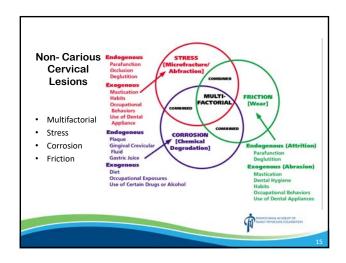




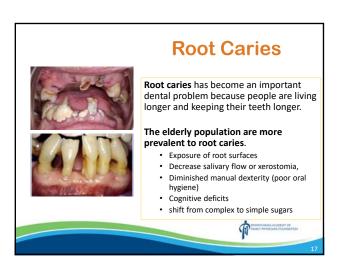


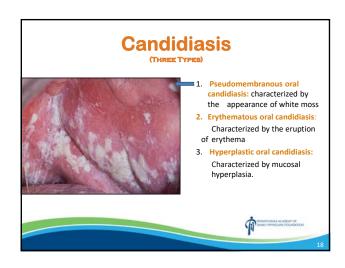


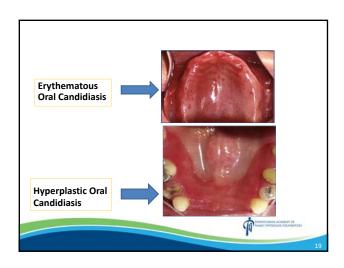


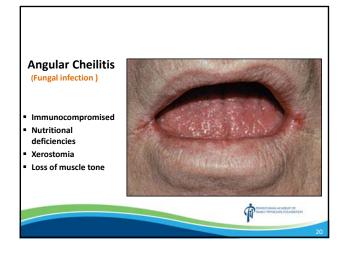


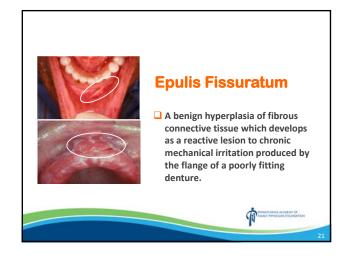
Periodontitis A chronic bacterial infection that affects the gums and bone supporting the teeth. Periodontal diseases range from simple gum inflammation to serious disease that results in major damage to the soft tissue and bone that support the teeth.

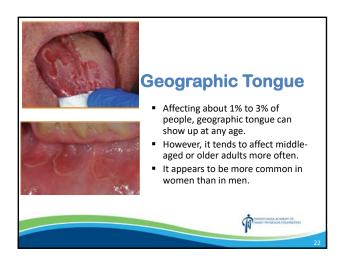


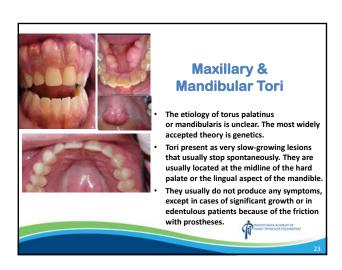






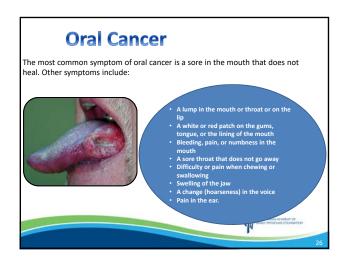




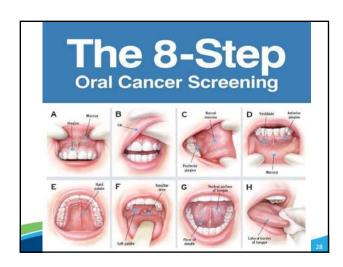








Oral Cancer Deaths Each year, more than 30,000 new cases of cancer of the oral cavity and pharynx are diagnosed and over 8,000 deaths due to oral cancer occur. The 5-year survival rate for these cancers is only about 50 percent. Death rate is nearly twice as high in some minorities (especially black males) as it is in whites. 60% of oropharyngeal cancers are linked to HPV Preventing high risk behaviors --- cigarette, cigar or pipe smoking, use of smokeless tobacco, and excessive use of alcohol are critical in preventing oral cancers. Early detection is key to increasing the survival rate for these cancers. Per the CDC To the survival rate for these cancers are linked to HPV



Self Oral Exam ymmetry of the face in a mirror, and check for the two sides

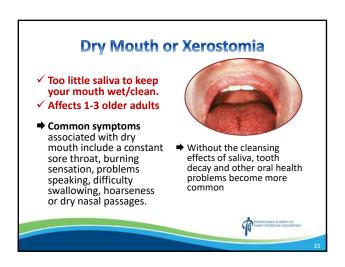


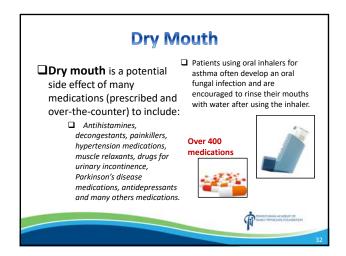
- 1. Face. Examine the symmetry of the face in a mirror, and check for irregularities and new imbalance between the two sides.
- 2. Lips. Pull up upper and lower lips to check the texture and color.
- $\textbf{3. Gums.} \ \text{Raise upper and lower lips to check color and conditions of the gums.}$
- **4. Cheeks:** Draw back the side of the mouth to check inside the cheeks.
- **5. Tongue and floor of mouth.** Move the tongue, check as far back as can be seen in the mirror, and feel the area.
- ${\bf 6.}\,\,{\bf Palate.}\,\,{\bf Examine}$ the upper palate as far back as you can see.
- $\textbf{7. Neck.} \ \mathsf{Feel} \ \mathsf{for} \ \mathsf{anything} \ \mathsf{unusual} \ \mathsf{on} \ \mathsf{the} \ \mathsf{sides} \ \mathsf{of} \ \mathsf{the} \ \mathsf{neck}.$
- $\textbf{8. Trachea.} \ \ \text{Hold the thyroid cartilage (the Adam's apple). It should go up and down when you swallow.}$

If you should discover any unusual lumps, bumps, spots or color changes, and so on, bring them to your dentist's attention as soon as possible.









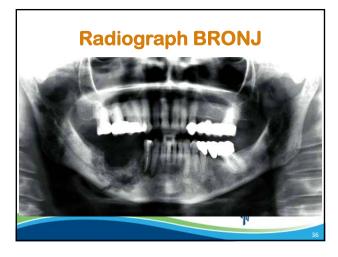


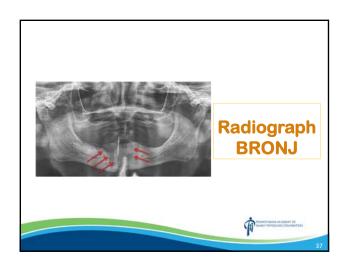
Bisphosphonates

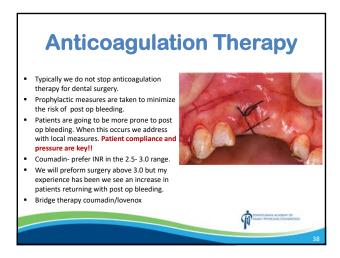
- Inhibit osteoclast differentiation, reducing their activity, and causing osteoclast cell death
- Impair bone healing and remodeling in the mandible/maxilla
- Oral vs. IV
- since 2003- 4,000 cases of BRONJ
- Over 90% IV route
- Risk less than 1% for IV
- Orally- 0.1% spontaneous and 0.5% with dental surgery
- Increased risk with tobacco use, corticosteroid use, diabetics, prolonged use

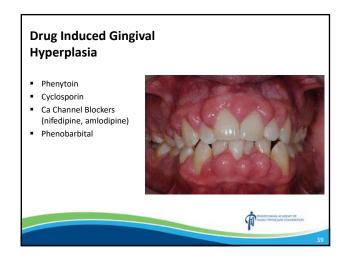


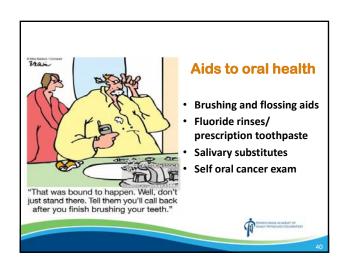
Bisphosphonate Related Osteonecrosis of the Jaws The property of the Control of



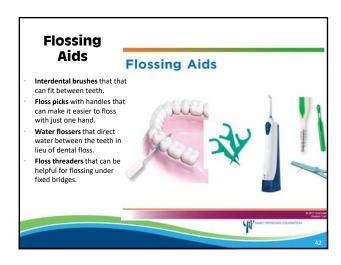


















The Link Between Gum Disease and Diabetes

- Diabetes is a risk factor for periodontal disease, periodontal disease is a risk factor for Diabetes
 Diabetes
 - Studies indicate people with diabetes are 2 to 3 times more likely to develop periodontal disease than people without diabetes. (National Diabetes Education Program)
 - The ADA advises people with diabetes to visit the dentist at least twice a year.
 - This is because people with diabetes are generally more susceptible to bacterial infection and have a decreased ability to fight periodontal disease. (American Diabetes Assoc.)

Oral Health Problems and Diabetes An 11-year study of Pima Indians with Problems associated with diabetes Type 2 Diabetes noted that Periodontal disease was a positive predictor of tooth decay mortality from periodontal (gum) disease Ischemic heart disease by 3.2 times salivary gland dysfunction Diabetic nephropathy. • fungal (yeast) infections (kidney problems) inflammatory skin disease infection and delayed healing taste impairment elevated blood glucose

Oral Health and Stroke ☐ Patients with Periodontal disease are more likely to suffer from Arthrosclerosis Disease – a narrowing of the arteries that can lead to stroke ☐ Oral bacteria via the blood attach to fatty plaque contributing to clot formation. ☐ Inflammation caused by periodontal disease increases plaque build up, which may contribute to swelling of arteries. ☐ Per study part of NIH-INVEST (Oral Infections and Vascular Disease Epidemiology Study Aug 2004) at Columbia, the University of Minnesota and the National Institute of Neurological Disorders & Stroke funded Northern Manhattan Study ☐ Columbia, the University of Minnesota and the National Institute of Neurological Disorders & Stroke funded Northern Manhattan Study

Oral Health and Heart Disease

☐ Researchers have found that people with periodontal disease are almost twice as like to suffer from coronary artery disease as those without periodontal disease.



 American Journal of Preventative Medicine, Dec 2005

Possible cause:

- Oral bacteria via the blood attach to fatty plaque contributing to clot formation.
- Inflammation caused by periodontal disease increases plaque buildup, which may contribute to swelling of arteries.



Studies Show Association of Gum Disease to Heart Disease



- Cardiovascular disease, the leading killer of men and women in the United States, contributing to 2,400 deaths each day.
- A study done by Arbes and colleagues, published in 1999, found that the odds of having a heart attack increased with the severity of periodontal disease.
- A study by Beck and colleagues (1996)
- Followed a group of men age 21-80 years old who were free of Cardio Vascular Disease for a baseline.
- Researched followed up after 18 years.
- Found that loss of the alveolar bone (jaw bone, which is a measure of periodontal disease) at the baseline, was a predictor of heart disease incidents and stroke.



Oral Health and Pneumonia

- ☐ A Japanese research group studied the provision of oral care after each meal for elderly, frail adults in 11 NHs in Japan to those not receiving the oral care after each meal and demonstrated that death from pneumonia decreased significantly with oral care.
- From the Dept of Geriatric & Respiratory Medicine, Tohoku University School of Medicine, Sendai, Japan and reported in Pulmonary Reviews.com Vol.7 No.9 September 2002
- ☐ Good oral care reduces the number of potential pathogenic bacteria that might colonize the mouth that may reach the lungs.





