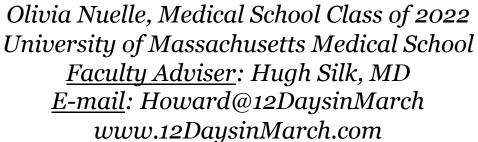
Oral Health for USMLE Step One

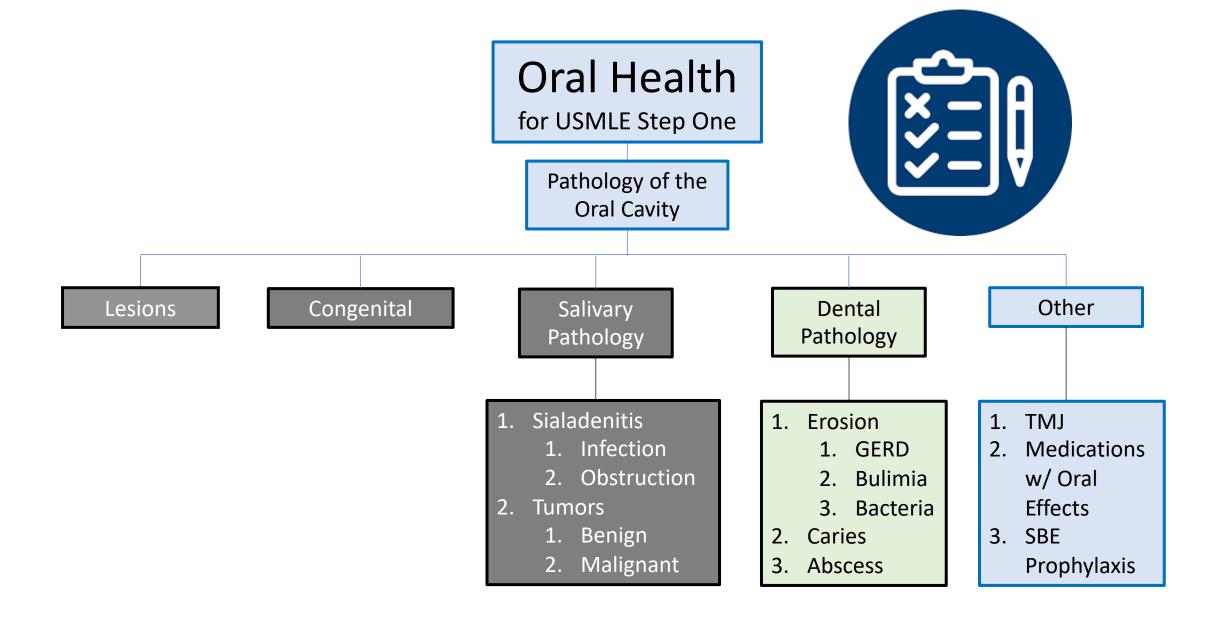
Section 3: Congenital, Salivary, Dental and Other Oral Pathology



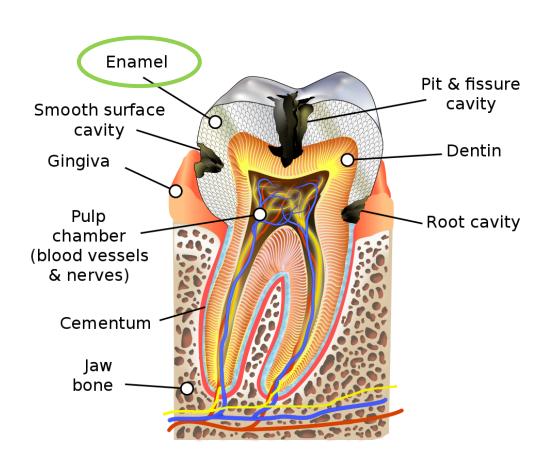






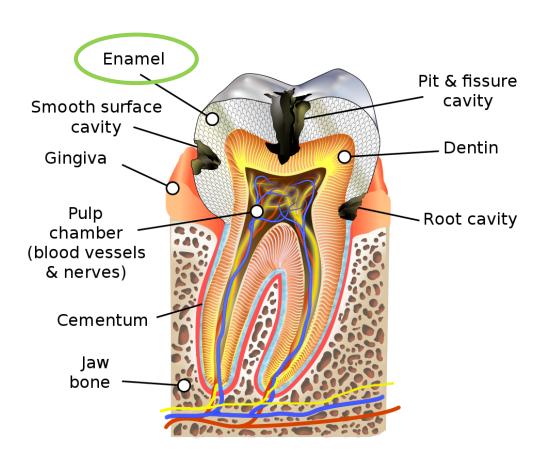


Dental Pathology: **Erosions**





Dental Pathology: Erosions

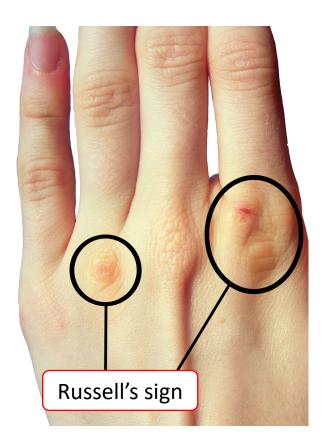


- GERD
- Bulimia
- Bacteria



- Cold and heat sensitivity
- Pain

Dental Pathology: Erosions



Bulimia

- Bottom teeth eroded
- Parotitis
- Russell's sign.



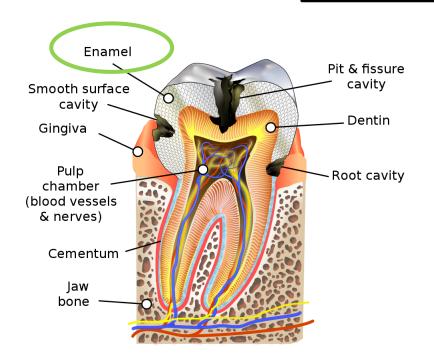
Dental Pathology: Erosions → Caries

<u>Bacteria</u>

Eat sugar → bacteria metabolize → acid



Dental Pathology: Caries

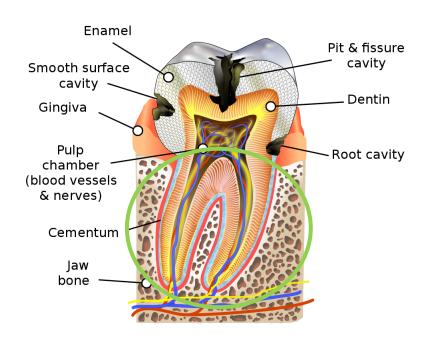


Caries

S. mutans



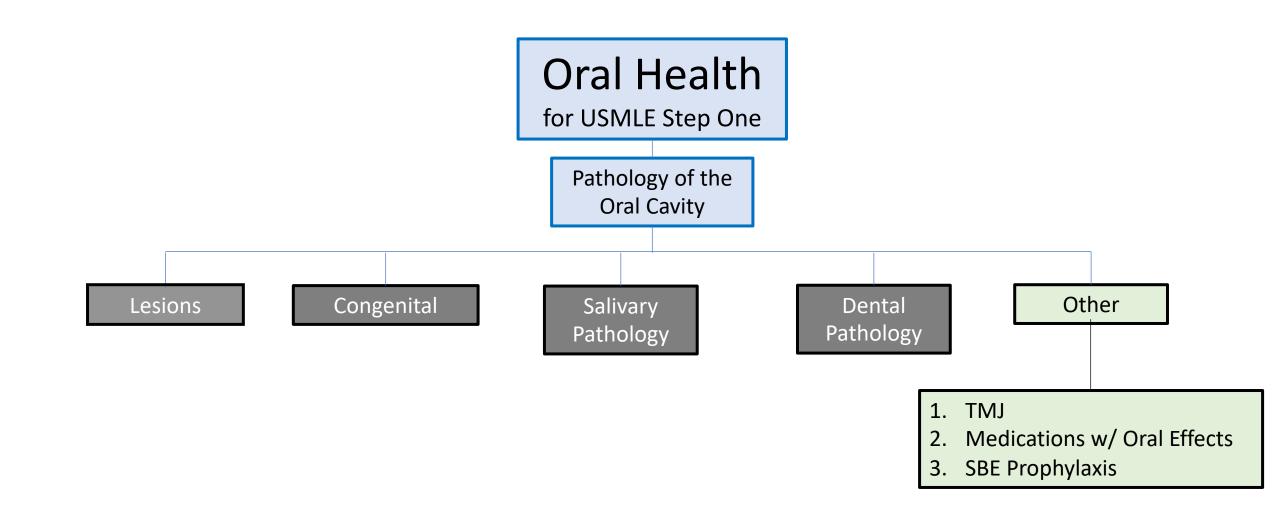
Dental Pathology: Abscess



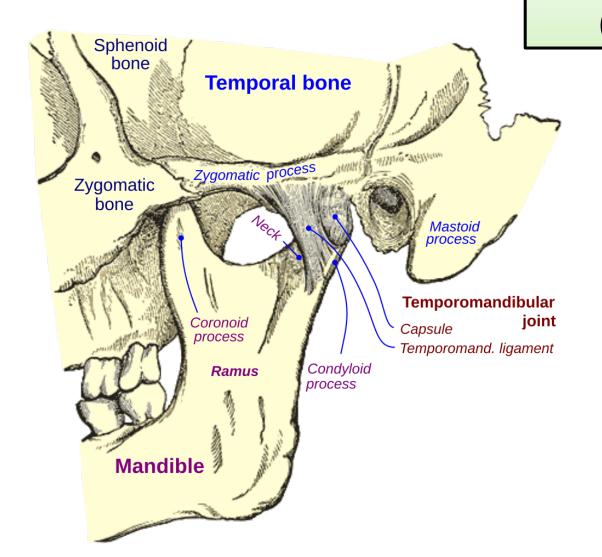
<u>Abscess</u>

- Purulent infection
- Pulp is infected
- Potential for spread





Oral Pathology: TMJ (temporomandibular joint syndrome)



TMJ

- Pain
- Stiffness
- Clicking

Etiologies

- Malalignment
- Trauma
- Bruxism

Oral Manifestations of Medications

Manifestations

- Tooth discoloration
- Gingival hyperplasia

Oral Manifestations of Medications

Manifestations

- Tooth discoloration
 - Demeclocycline (Rx: SIADH)
 - Tetracyclines (MOA: binds 30S subunit; prevents t-RNA binding)



Oral Manifestations of Medications

Manifestations

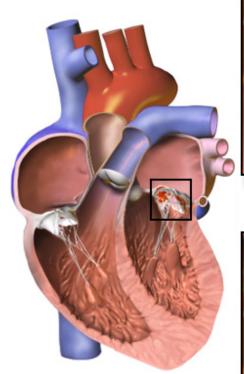
- Gingival Hyperplasia
 - Phenytoin
 - Nifedipine
 - Cyclosporin

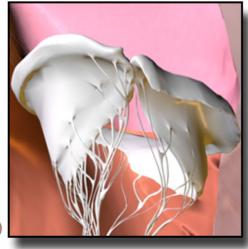


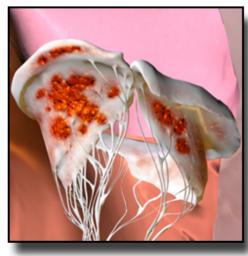
Photo: ICOHP; John McDowell, DDS Smiles for Life Module 3: Slide #15 smilesforlifeoralhealth.org

Oral Pathology: Subacute Endocarditis Prophylaxis

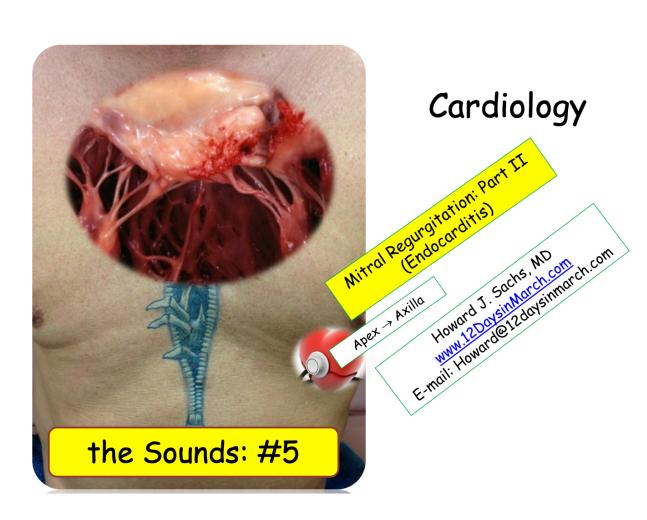
- High Risk Patients
 - Prior valve surgery
 - Prior endocarditis
 - Rheumatic valve disease
- Amoxicillin (activity against viridans strep)
- Prophylaxis: any procedures that perforate the oral mucosa

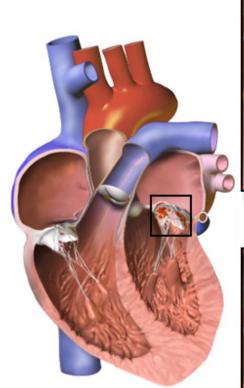


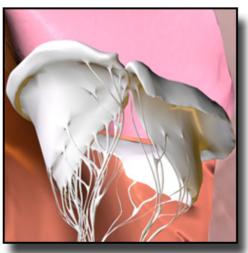


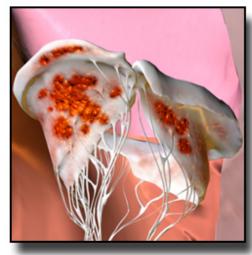


Oral Pathology: Subacute Endocarditis Prophylaxis











for USMLE Step One

Pathology of the Oral Cavity



Lesions

Congenital

Cleft Lip

Cleft Palate

3. Osteogenesis

Imperfecta

4. Congenital

Syphilis

Salivary Pathology

- 07
- Sialadenitis
 - a. Infection
 - b. Obstruction
- 2. Tumors
 - c. Benign
 - d. Malignant

Dental Pathology

- 1. Erosion
 - a. GERD
 - b. Bulimia
 - c. Bacteria
- 2. Caries
- 3. Abscess

Other

- 1. TMJ
- Medications w/ Oral Effects
- . SBE Prophylaxis

- 1. Viral
- 2. Bacterial
- 3. Fungal
- 4. Nutritional Deficiency
- 5. Autoimmune
- 6. Medication Induced
- 7. Precancerous
- 8. Malignant Neoplasms

Q1. A 53-year-old women presents with history of a painless lump in the region of the right parotid that has been there for at least a year. Recently, however, it seems larger. She has gained 5 pounds during this time. Physical exam reveals a firm mass and no lymphadenopathy in her neck. What is the most likely diagnosis?

- A) Bacterial parotitis
- B) Chronic unilateral mumps
- C) Mucoepidermoid Carcinoma
- D) Pleomorphic Adenoma
- E) Salivary stone

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- A) Bacterial parotitis: acute, painful with constitutional symptoms
- B) Chronic unilateral mumps
- C) Mucoepidermoid Carcinoma: painful malignancy (with nodes)
- E) Salivary stone: subacute-acute, painful especially with meals

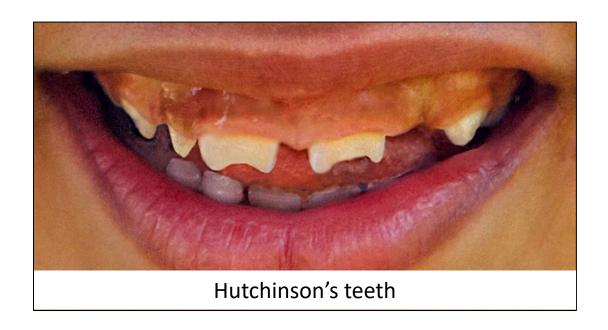
Q2. A mother presents to her family doctor to discuss the appearance of her adopted child's teeth. She admits to not taking her son to the dentist regularly and he eats a lot of sugar. He also is deaf and has vision issues. She asks if something can be done for his teeth. What is the most likely diagnosis?

- A) Dental caries
- B) Congenital syphilis
- C) In utero doxycycline exposure
- D) Trauma
- E) Genetic tooth deformity



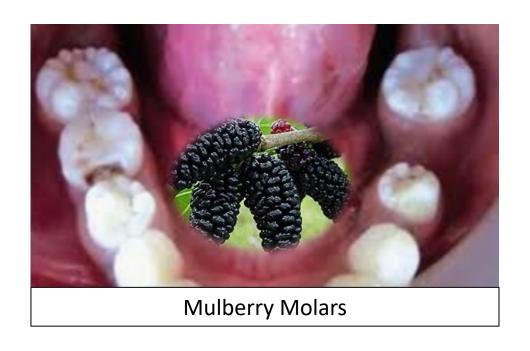
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- A) Dental caries: secondary to the acidic environment created by bacteria feasting on sugar.
- C) In utero doxycycline exposure → Tooth discoloration
- D) Trauma
- E) Genetic tooth deformity: Dentinogenesis imperfecta



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