

Sat 12 June 2010
Millennium WS 28 + 38
2.00-2.55; 3.05-4.00 PM

Rotorua GP CME 2010
General Practice Conference & Medical Exhibition

Looking Beyond the Vermillion Border

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The University of Queensland

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75
SCHOOL OF DENTISTRY
Commemorating 75 years of Excellence in Oral Health 1935-2010

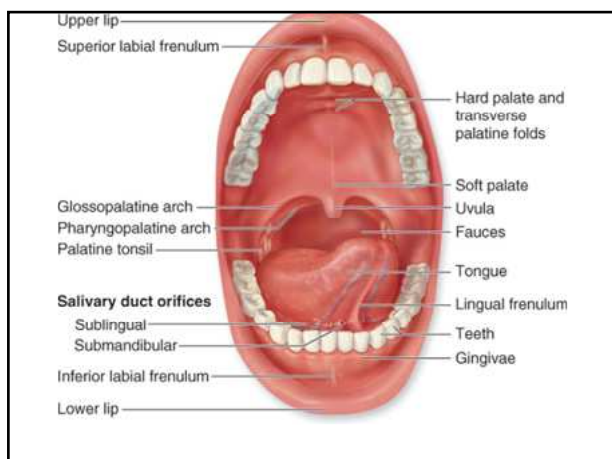
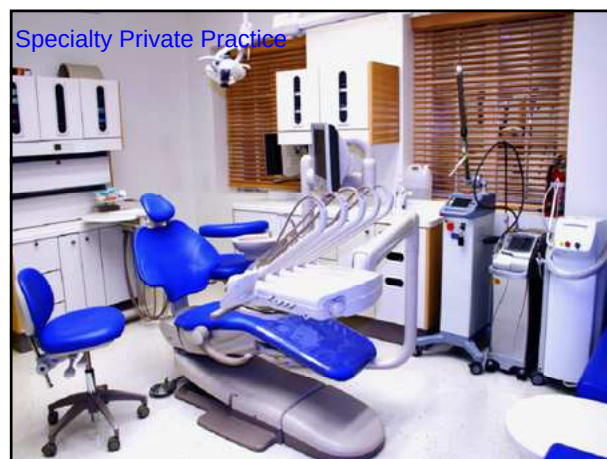
THE UNIVERSITY OF QUEENSLAND

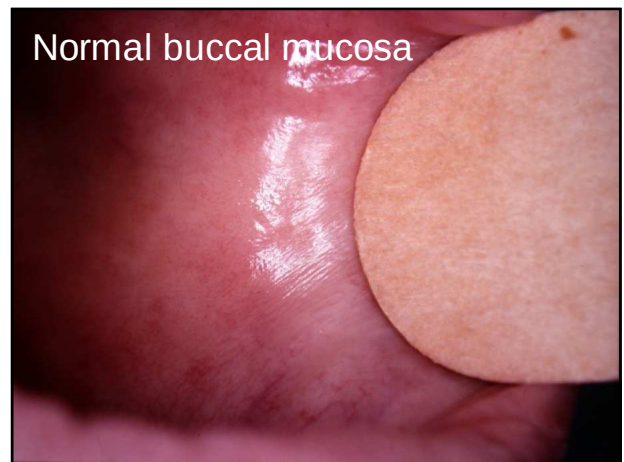
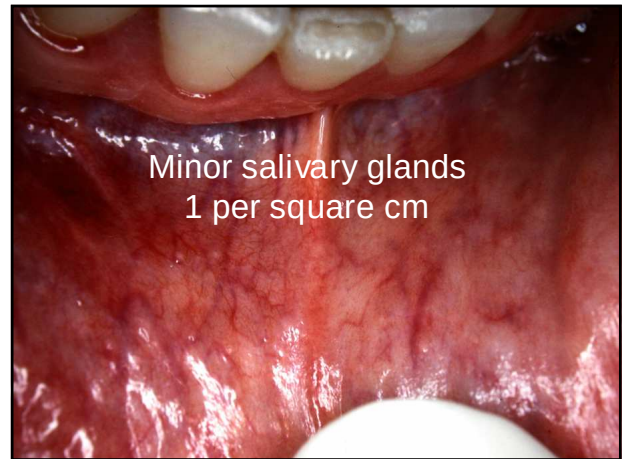
Diagnostic sieve

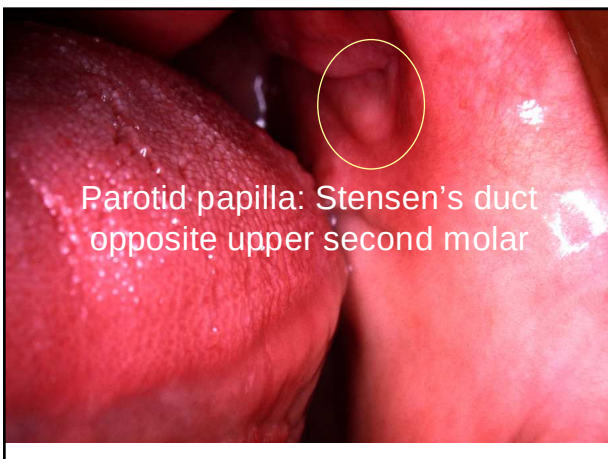
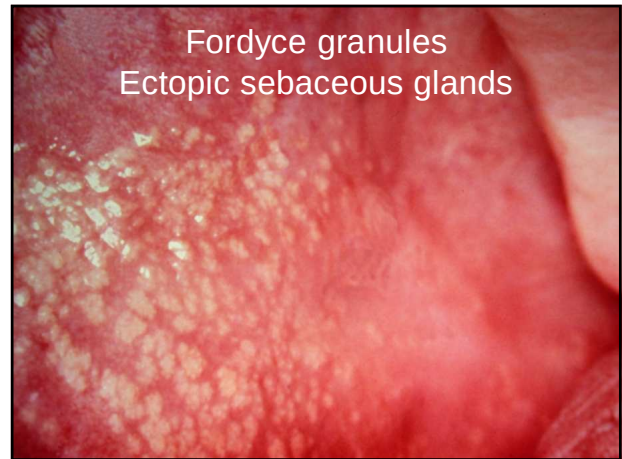
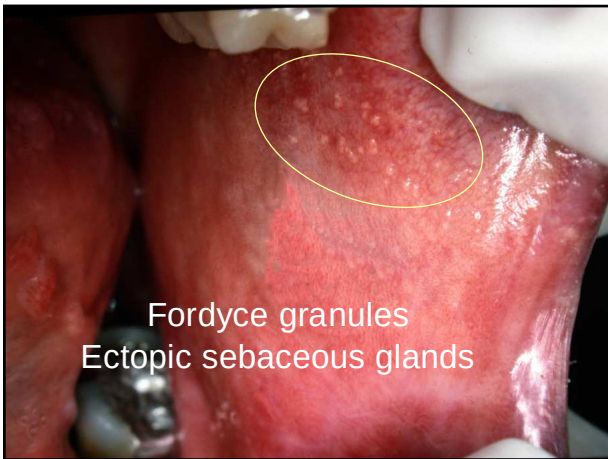
- **Infections**
 - Dental caries
 - Periapical infections
 - Periodontal diseases
 - Oral fungal infections
 - Oral malodour
- **Degenerative conditions**
 - Dental erosion
 - Accelerated tooth wear
 - Cervical dental hypersensitivity
- **Neoplasia**
 - SCC
 - Salivary gland lesions
 - Other oral cancers
- **Developmental conditions**
- **Inflammatory conditions**
 - Oral mucosal pathology
 - Oral ulcerative diseases
 - Auto-immune diseases
 - TMJ problems
 - Manifestations of systemic diseases
 - Medication-induced side effects

Time bombs for medical GPs !

- Endodontic and periodontal abscesses
 - Sun's rule
 - Beta lactamase producing
- Irreversible pulpitis/ pulpal necrosis
 - Unstimulated toothache which keeps patient awake
 - Root filling or extract
- Endodontic pathology in oncology immune compromised patients
 - Fevers of unknown origin
- Mucormycosis or sinusitis
 - Symptom of maxillary toothache
- Untreated periodontitis and recurring fungal infections in diabetics
- Impaired nutrition
 - Third molars, pericoronitis and trismus
 - TMJ dysfunction
 - Primary or reactivated HSV infection intraorally
- Oral cancer
 - Lip, floor of mouth, tongue
- Maxillary anterior teeth
 - Dangerous triangle for cavernous sinus thrombosis
- Mandibular molar teeth
 - Ludwig's angina



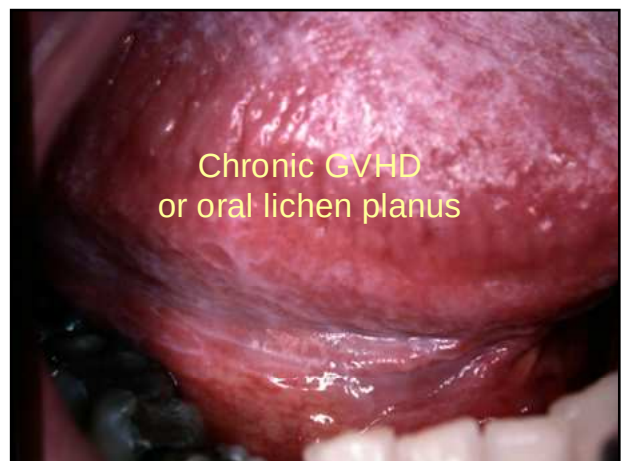
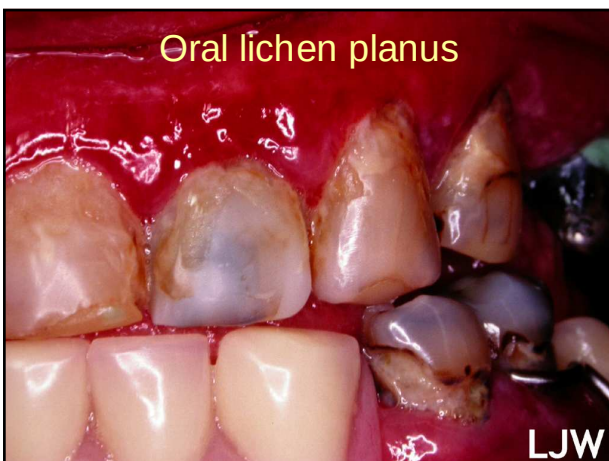
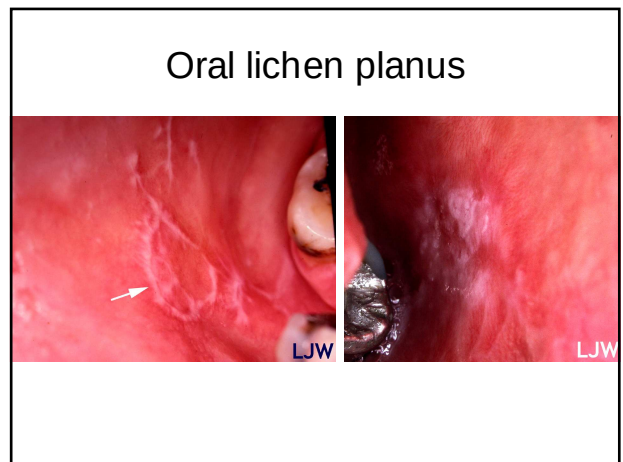


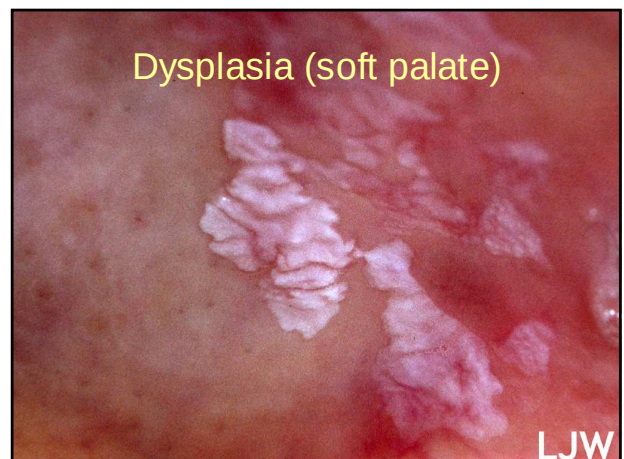
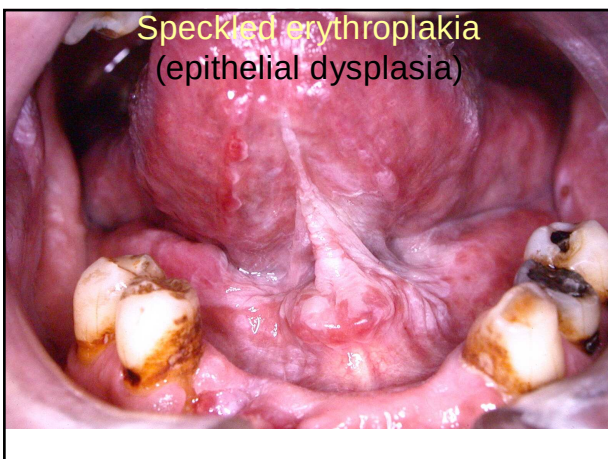
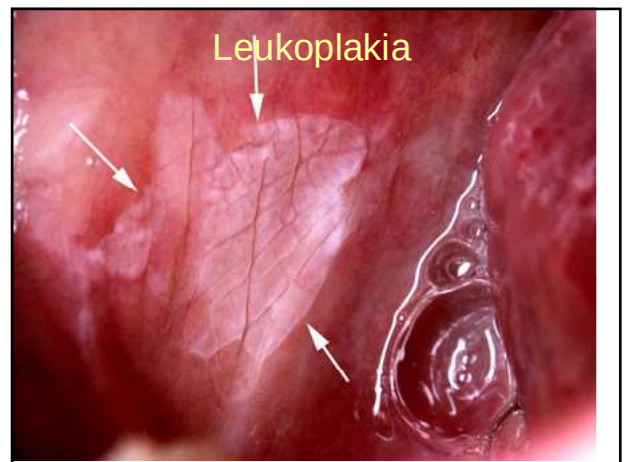
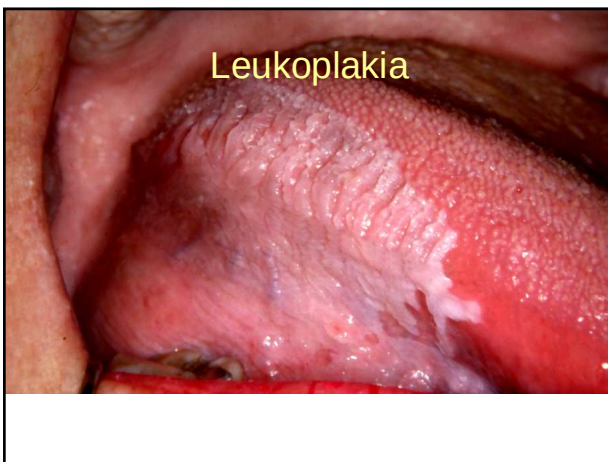
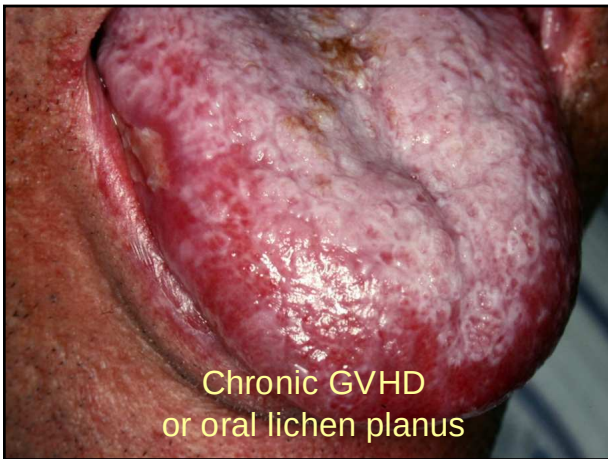


Sinister lesions:

**Specialist dental referral
(Oral Medicine / Oral Surgery)**



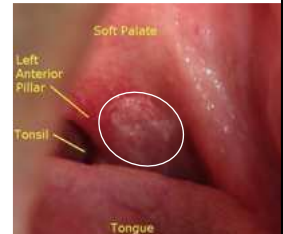




Oral cancer



Oral cancer



Looking Beyond the Vermillion Border

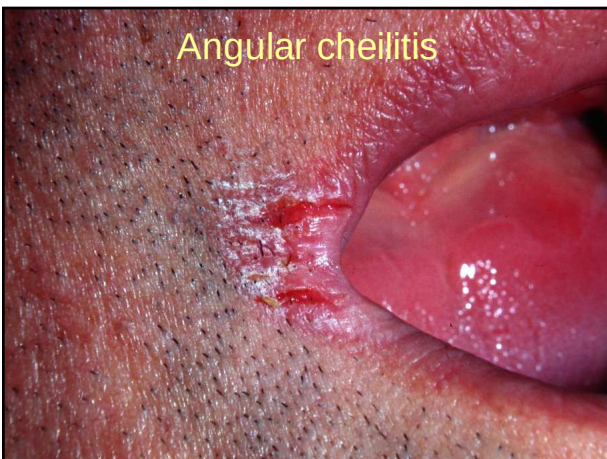
Part 2 Infections

Angular cheilitis

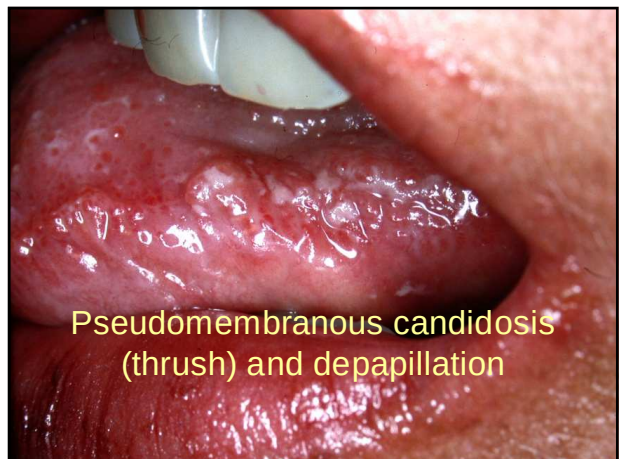
Mixed infection of *Candida albicans* and *Staph. epidermidis*

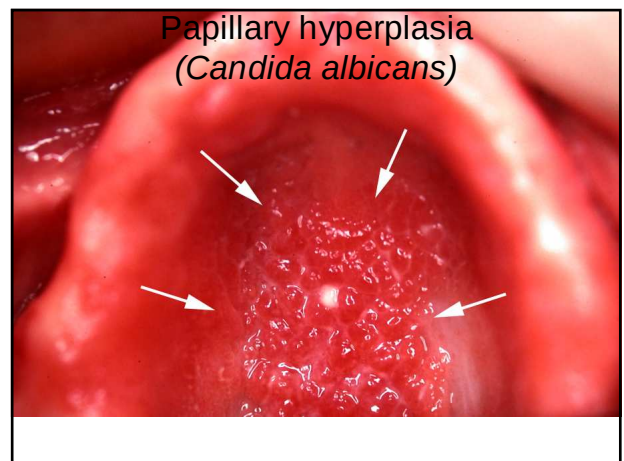
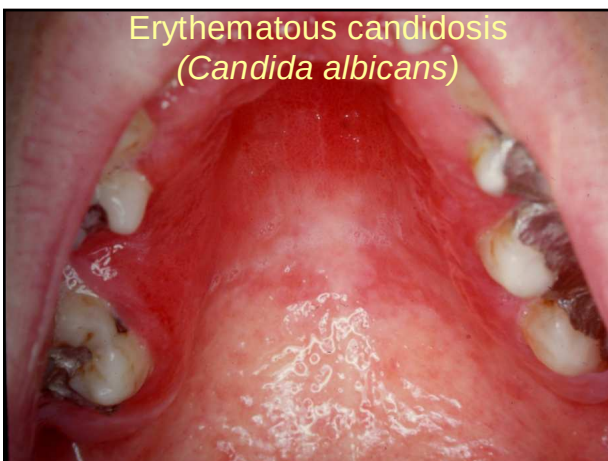
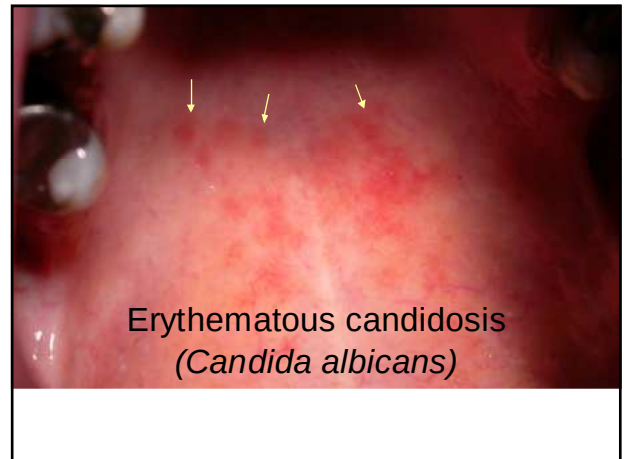


Angular cheilitis

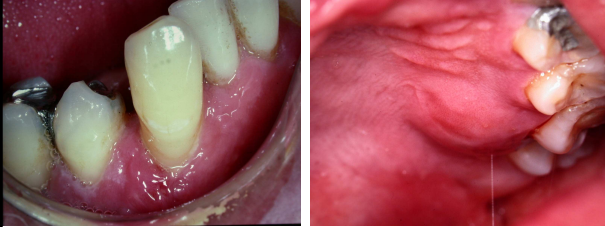


Pseudomembranous candidosis (thrush) and depapillation





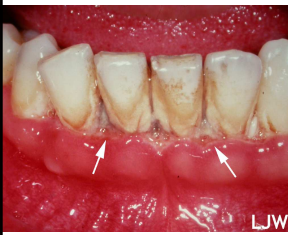
Bacterial invasion: suppuration and periodontal abscesses



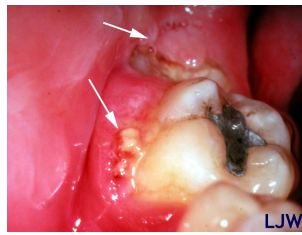
Bacterial invasion: NUP (HIV-P)



ANUG



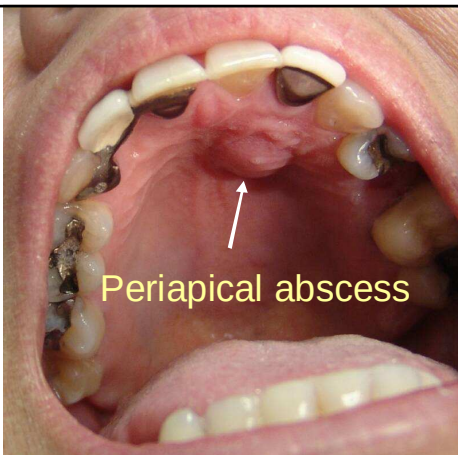
Pericoronitis



Post-extraction infection



Periapical abscess



Fate of localized infections

- Local spread through alveolar bone and soft tissues
 - Osteomyelitis (MX, MD)
 - Sinus tract on the skin
- Systemic mediator release
 - Total burden of infection
- Osteomyelitis (MX, MD)

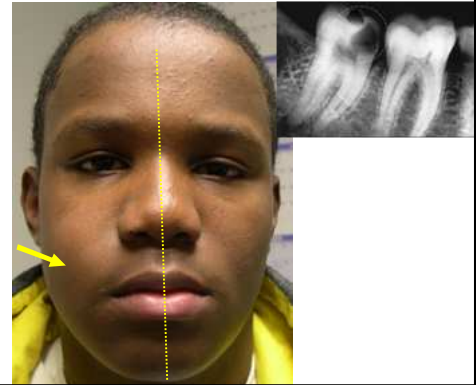


Regional spread of dental infections

- A lymphadenitis can form a cellulitis, which can suppurate and become an abscess.
- Infections sources include **dental infections** as well as pharyngitis, tonsillitis, otitis, adenitis, adenoiditis, sinusitis, and nasal infections.
- Risk factors:
 - low socioeconomic status
 - poor oral hygiene
 - immune dysfunction (including HIV, diabetes, and immunosuppression)



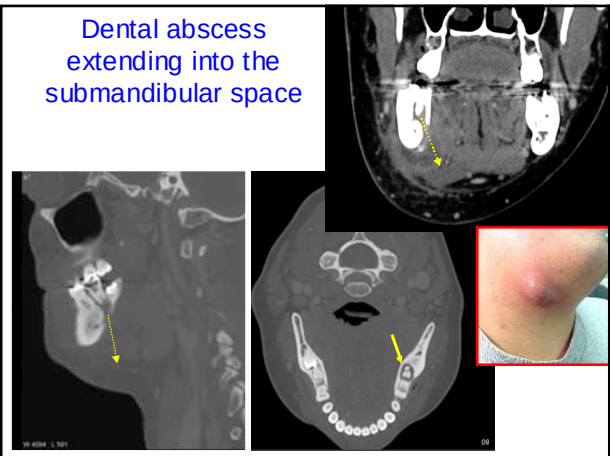
Cellulitis



Infected canine



Dental abscess extending into the submandibular space



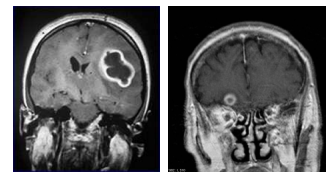
Ludwig's angina

- Serious, potentially life-threatening cellulitis infection of the tissues of the floor of the mouth
- Usually occurring in adults with concomitant dental infections
- Angina refers to the feeling of **strangling (compromise of the airway)**
- Tracheostomy often needed for airway support



Haematogenous spread to distant sites

- Spread by the bloodstream to distant sites in immune compromised patients
- Systemic sepsis and intravascular coagulation
- Orbit
- Brain
- Liver
- Lung
- Spleen – abscess



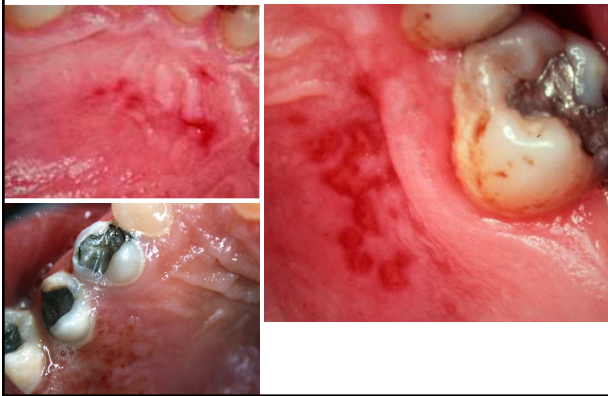
Acute herpetic gingivostomatitis



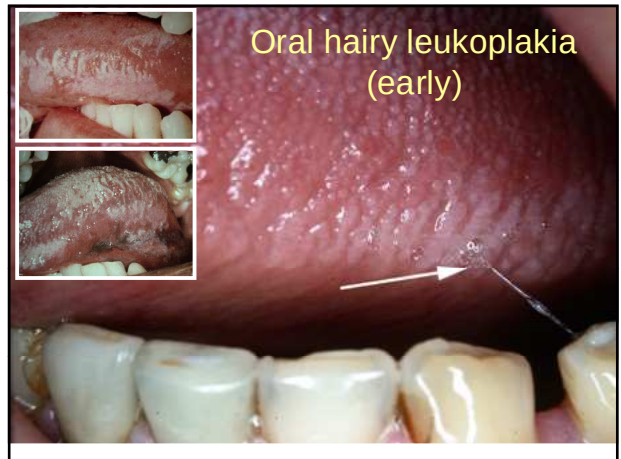
Herpes labialis



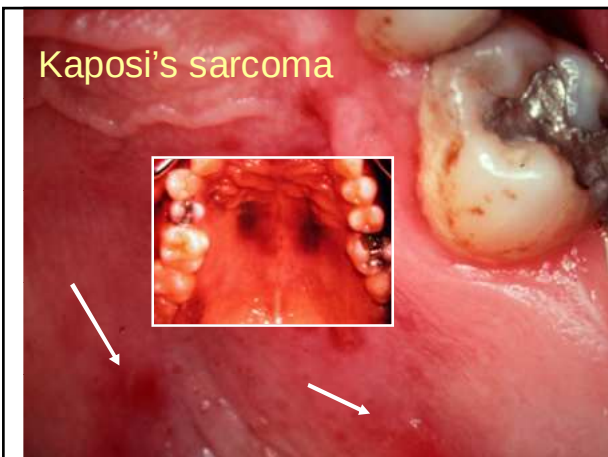
Recurrent palatal HSV



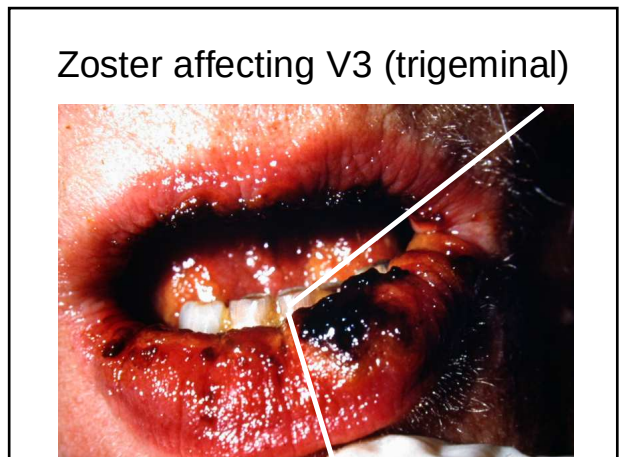
Oral hairy leukoplakia (early)



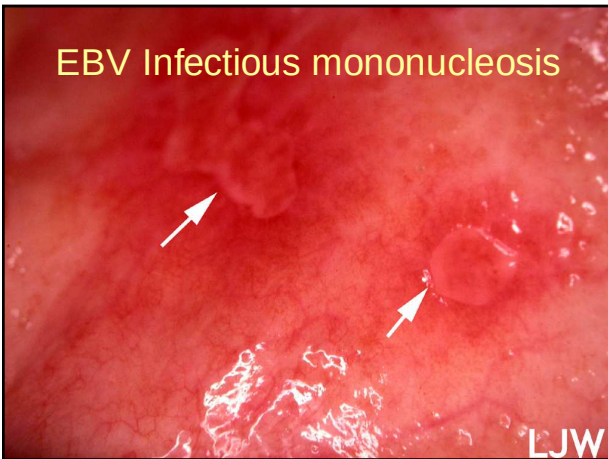
Kaposi's sarcoma



Zoster affecting V3 (trigeminal)



EBV Infectious mononucleosis



HPV Papilloma

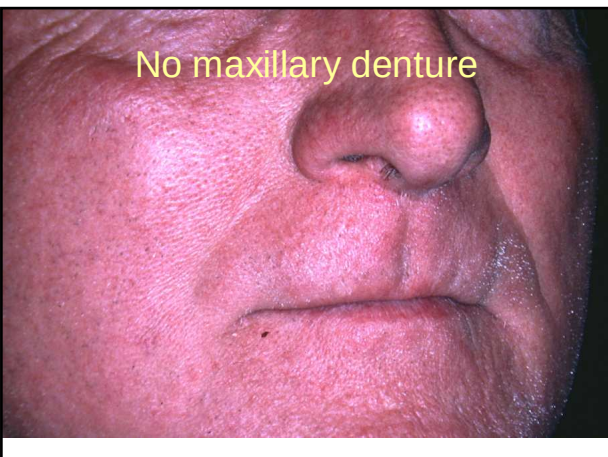


Condyloma accuminatum
(HPV multiple lesions)



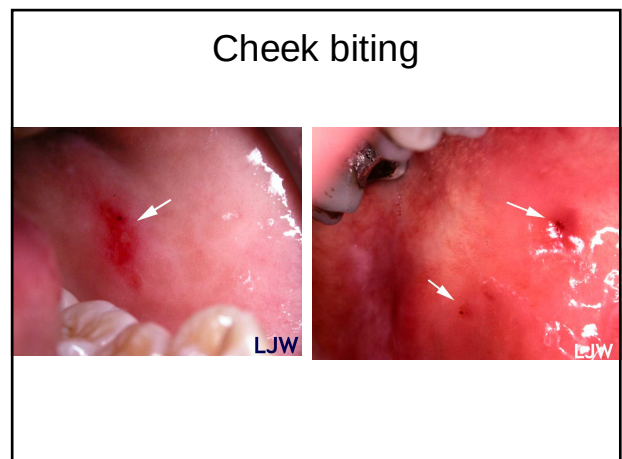
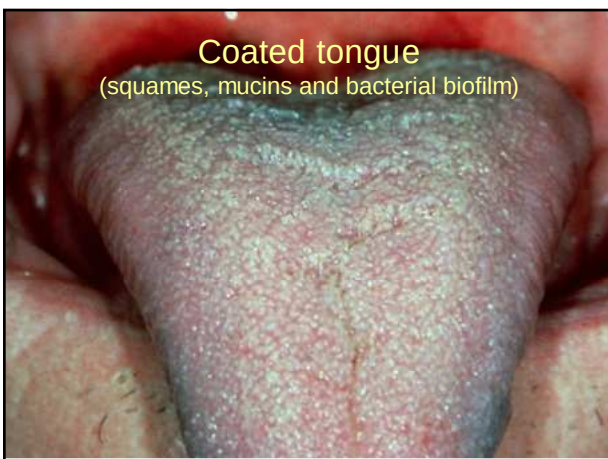
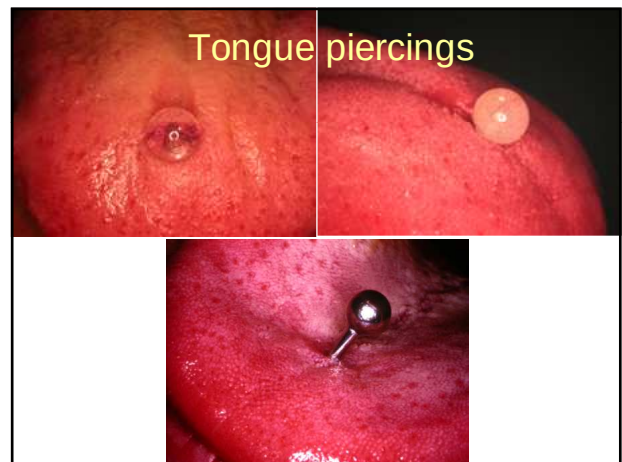
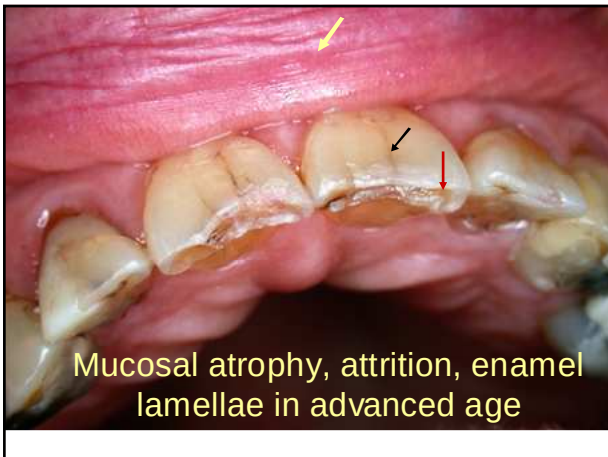
Part 3 Common entities

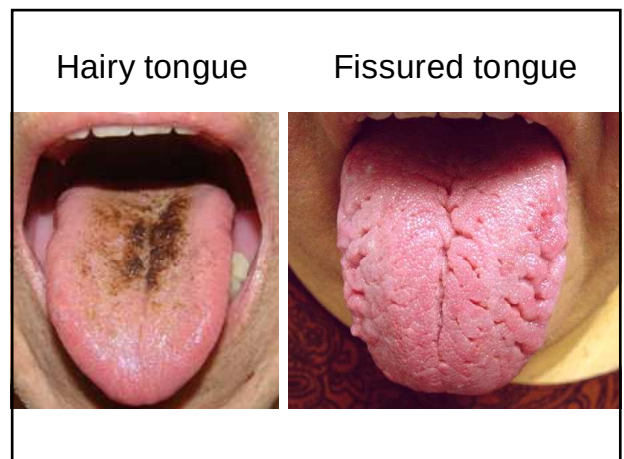
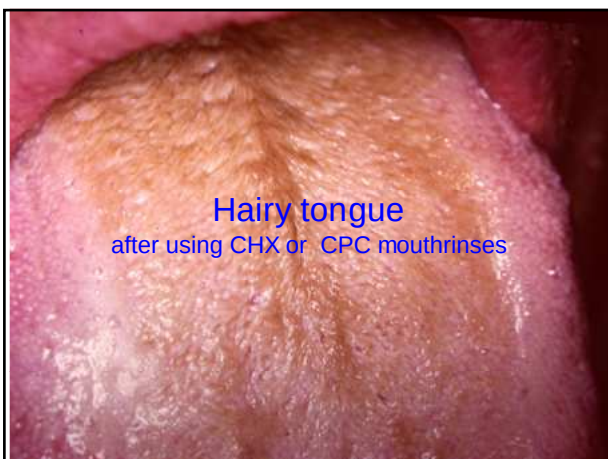
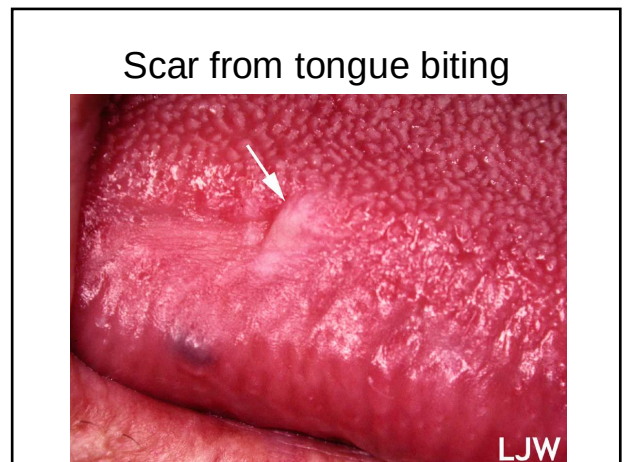
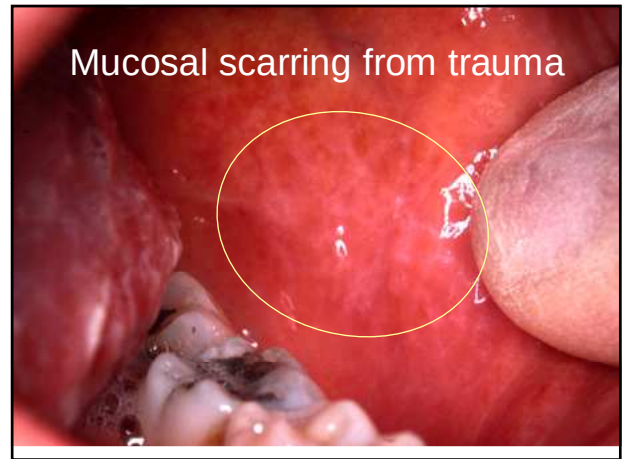
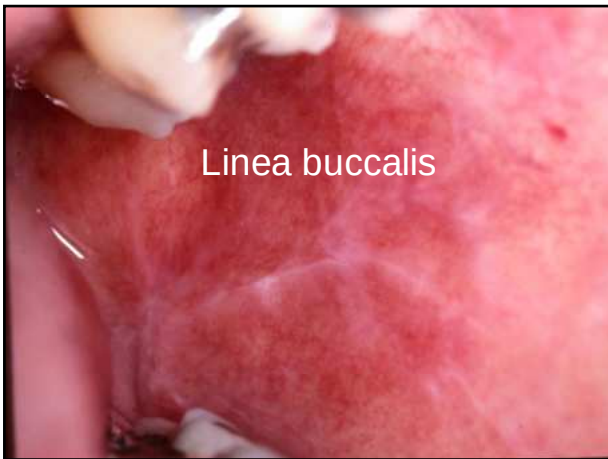
No maxillary denture



Atrophy of the oral mucosa







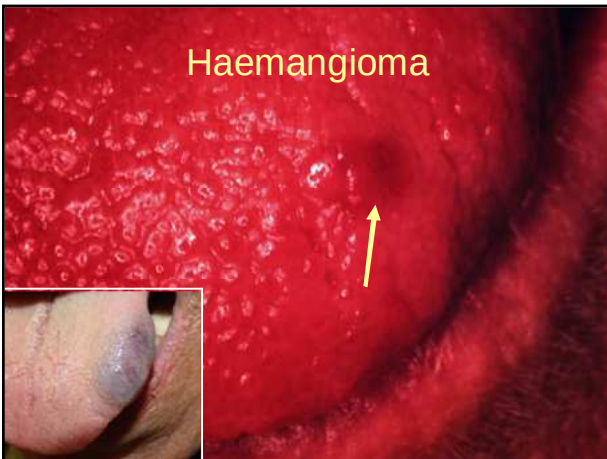
Geographic tongue



Haemangioma

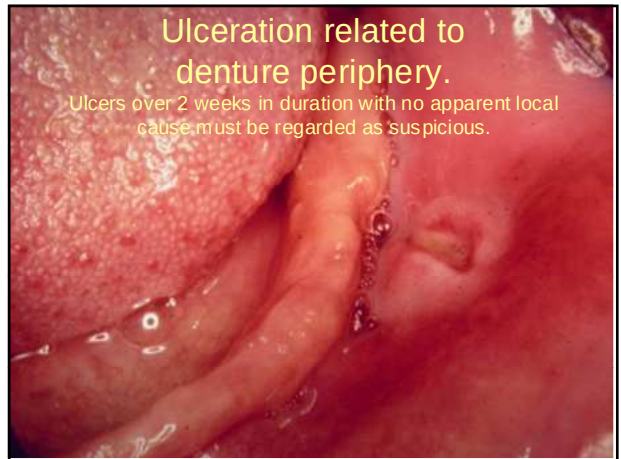


Haemangioma

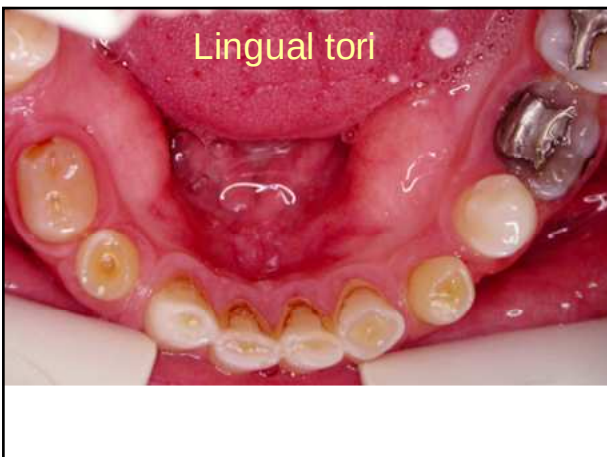


Ulceration related to denture periphery.

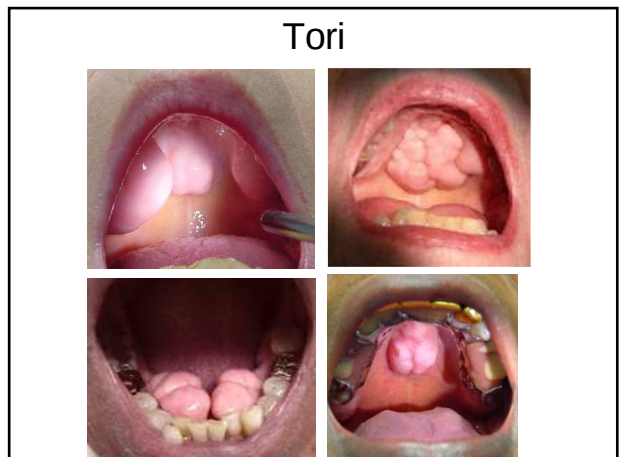
Ulcers over 2 weeks in duration with no apparent local cause must be regarded as suspicious.



Lingual tori



Tori



Part 4
Common oral mucosal
pathology

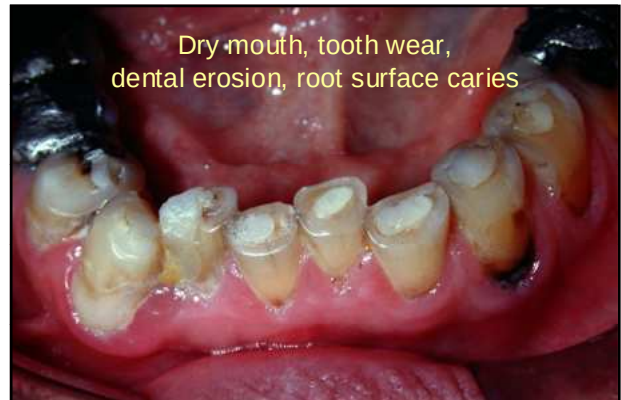
Tongue tie



Xerostomia



**Dry mouth, tooth wear,
dental erosion, root surface caries**

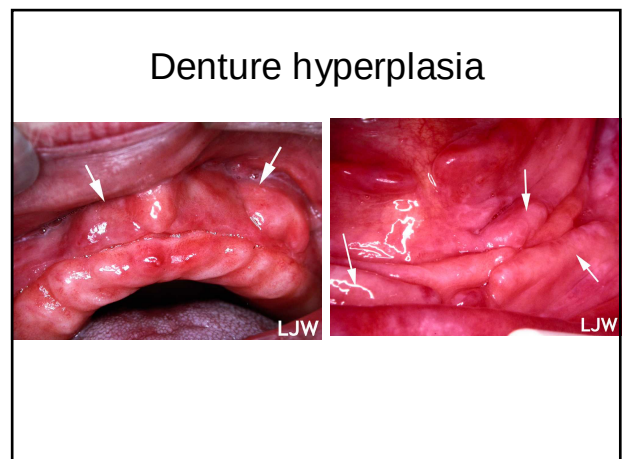


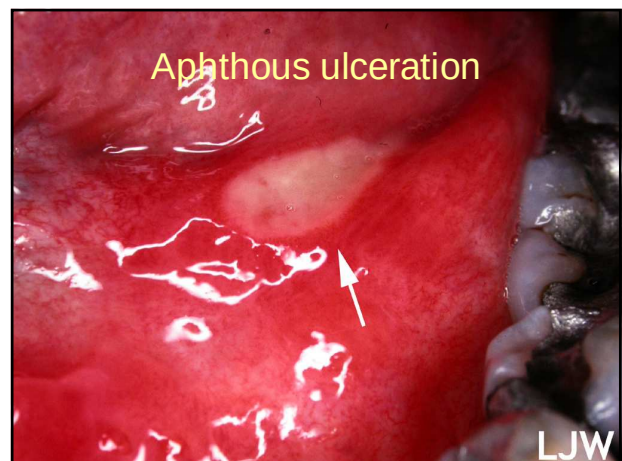
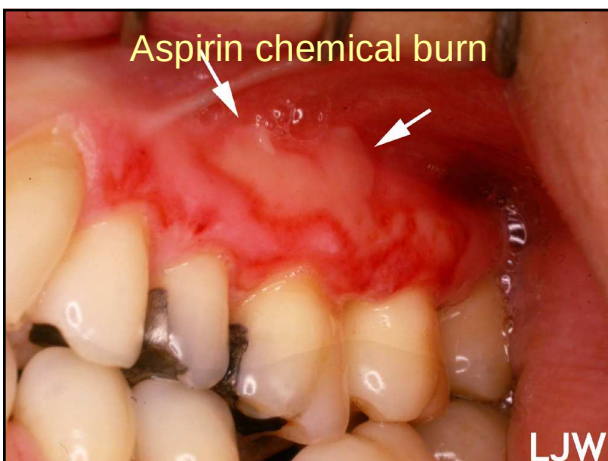
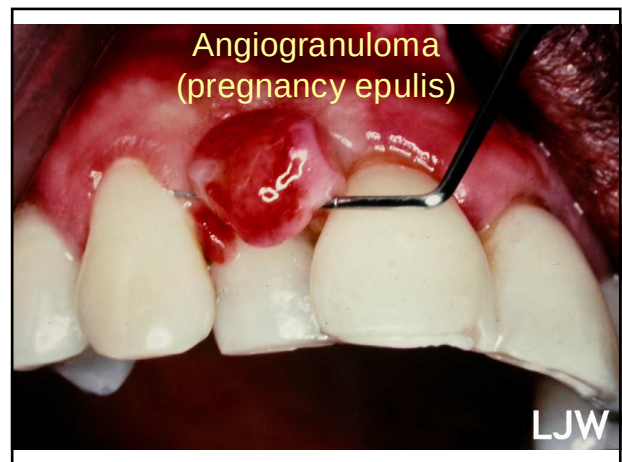
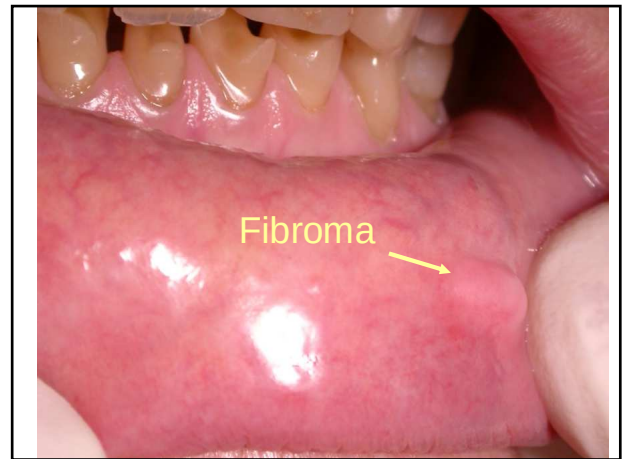
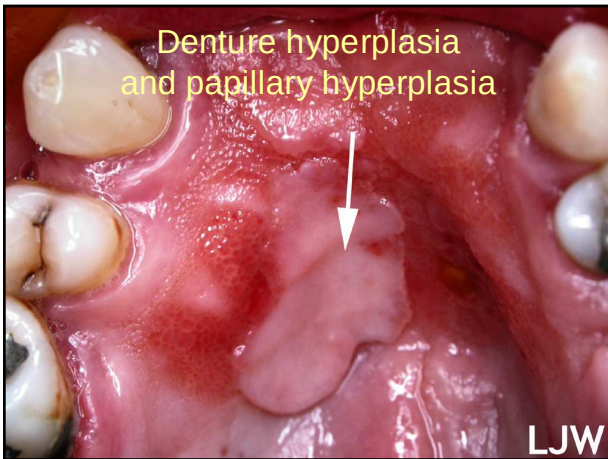
Sialadenitis



Sialadenitis in xerostomia







Aphthous ulceration



Part 5

Dental Caries and Periodontitis

Dental plaque and gingivitis



Supragingival calculus

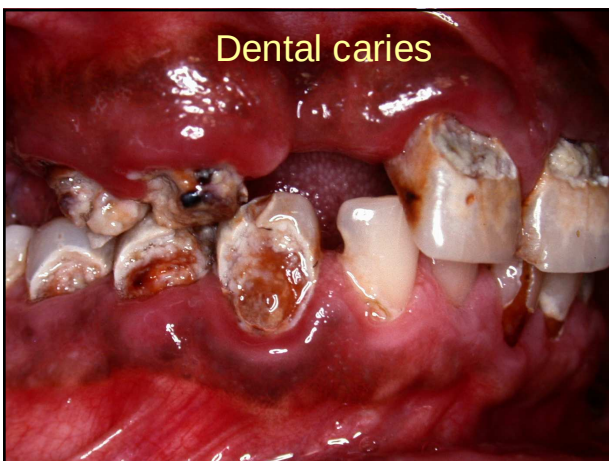


Supragingival
calculus
(gross!)





Chronic
periodontitis



Caries from
illegal drugs



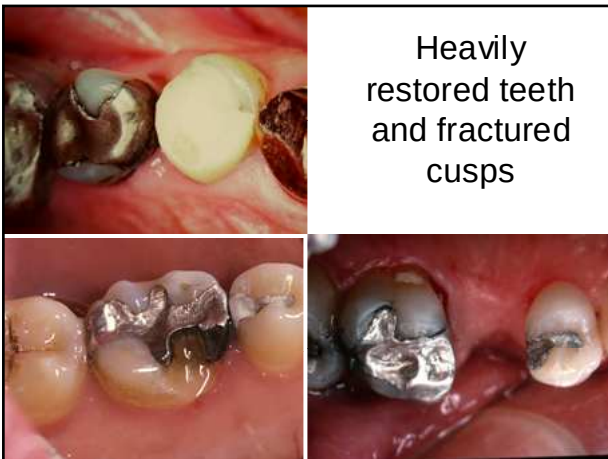
Sever caries "meth mouth"
Crystal Methamphetamine



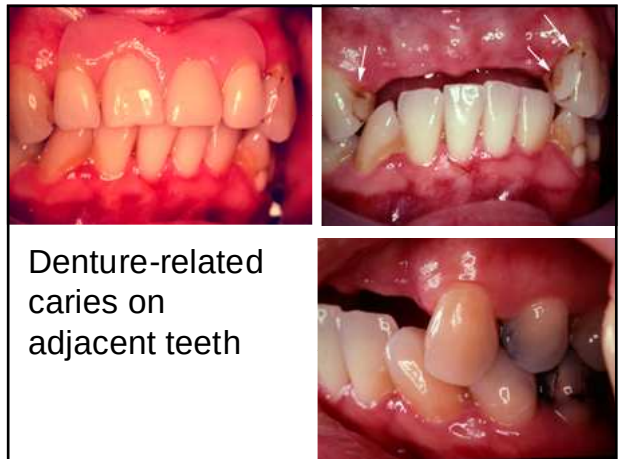
Decoronated teeth



Heavily
restored teeth
and fractured
cusps



Denture-related
caries on
adjacent teeth



Root
surface
caries



Part 6

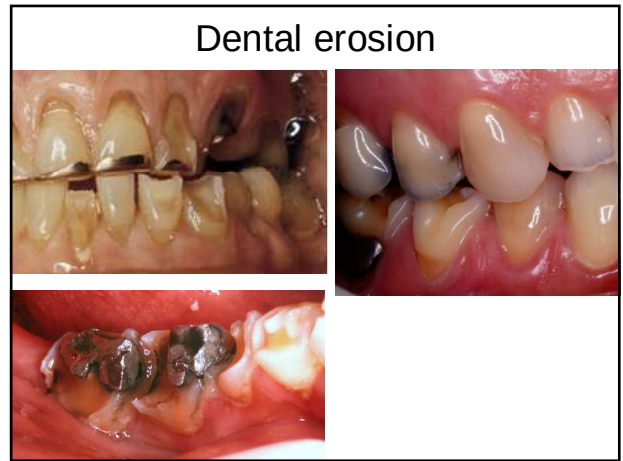
Pathological tooth wear and dental erosion



Dental erosion from subclinical dehydration



Dental erosion from chronic regurgitation/vomiting



Dental erosion

