





# Lesions in Newborns

- D/D
  - Keratin Cysts
  - Congenital Epulis
  - Natal/Neonatal Teeth







# Dental Lamina Cyst Usually seen on the crest of the alveolus Remnants of the dental lamina. Tx - no treatment.

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# **Bacterial Infections**

- Odontogenic
- Scarlet fever
- Tuberculosis
- · Atypical mycobacterial infection
- Actinomycosis
- Syphillis
- Impetigo
- Osteomyelitis

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# **Odontogenic Infections**

- · Acute sick child, raised temp., red swollen face.
- · Chronic sinus tract present, mobile and/or discolored tooth, halitosis.
- Tx -
  - remove the cause and local drainage and debridement, - May admit if spikes in temp. seen, facial space involvement
  - suspected or seen &/or dehydrated.
  - Antibiotics only if systemic involvement seen, or if child is immunocompromised. Pen family first drug of choice.

### Osteomyelitis

- Some times an odontogenic infection can lead to osteomyelitis in the mandible.
- Radiographically moth eaten appearance.
- Tx curettage to remove bony sequestra, antibiotics (after culture and sensitivity test) for at least 6 weeks.

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## **Viral Infections**

- Primary herpetic gingivostomatitis
- · Herpes labialis
- Herpangina
- · Hand, foot and mouth disease
- · Infectious mononucleosis
- Varicella

Primary Herpetic Gingivostomatitis

 Most common cause of severe oral ulcerations in children over the age of 6 mos (peaks at 14 mos).

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- Caused by Herpes Simplex Type 1.
- Incubation period of 3-5 days with a prodromal 48 hour h/o irritability, lymphadenopathy, pyrexia and malaise.
- Stomatitis seen, with gingival tissues become red and edematous.
- Vesicles seen any where on oral mucosa and rapidly break down to form very painful ulcers. Solitary ulcers (<3mm) seen and some times larger ulcers with irregular margins are seen when there is coalescence of individual lesions.
- Self limiting and ulcers heal spontaneously without scarring within 10-14 days.











# Ulcerative and Vesiculobullous Lesions

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• D/D -

- Traumatic
- Infective (already discussed)
- Others













# Recurrent aphthous ulceration



- Estimated to affect up to 20% of the population.
- Seems to have a genetic predisposition, cause unknown
- 3 types -
  - Minor aphthae majority of cases, crops of shallow ulcers up to 5mm, non-keratinized mucosa, typical yellow
  - pseudomebranous slough with an erythematous border.Major aphthae involves the kertinized mucosa, larger ulcers,
  - last longer.
  - · Herpetiform ulceration





# Vascular Lesions

- Hemangioma
- Other vascular malformations
- Hematoma
- Petechiae and purpura
- · Hereditary haemorrhagic telangiectasia
- Sturge-Weber syndrome
- Maffuci's syndrome





# Petechiae and Purpura

- Petechiae small pinpoint submucosal or subcutaneous hemorrhages.
- Purpura or ecchymoses present as larger collections of blood.
- Usually seen in patients with severe bleeding disorders or coagulopathies, leukemia etc.
- Initially bright red in color, change to a bluishbrown hue with time as the extravasated blood is metabolized.

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# Other Red lesions

- · Giant cell epulis/peripheral giant cell granuloma
- · Eruption cyst
- · Langerhans cell histiocytosis
- Geographic tongue
- · Fissured tongue
- Median rhomboid glossitis already discussed
- Heavy metal toxicity









# Inflammatory Hyperplasias

- Fibrous Epulis
- Giant cell epulis/peripheral giant cell granuloma













# Drug Induced Gingival Enlargements

Phenytoin

 Interdental papillae, may be delayed eruption due the bulk of fibrous tissue, ectopic eruption, withdrawal of drug will bring about resolution in most cases.

- Tx oral hygiene key in control of overgrowth, chlorhexidine mouthwash, gingivectomy to allow for eruption and esthetics.
- Cyclosporin A
  - $\rm H/o$  liver, kidney, heart and combined heart/lung transplants. most commonly used med for anti-rejection, seen in about 30-70% of these cases.

### Nifedipine and verapamil

Both are calcium channel blockers, used to control cyclosporin induced hypertension after transplants in children.

• Tx - c

Tx - oral hygiene and gingivectomy.
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