BACTERIAL INFECTION OF ORAL CAVITY

LEARNING OBJECTIVES

At the end of the lecture student should be able to describe the

- etiology, clinical features, histopathological features of Scarlet fever
- etiology, clinical features, histopathological features of Noma
- –etiology, clinical features, histopathological features of
 Pyogenic granuloma

Scarlet fever

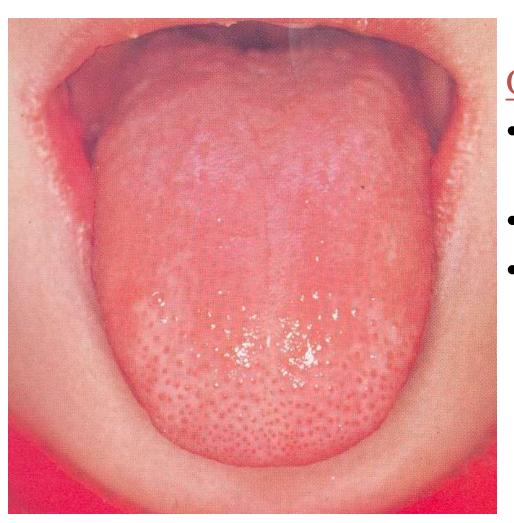
- Occurs predominantly in children during winter months.
- Caused by <u>β-hemolytic streptococci.</u>

Clinical features

- Incubation period 3-5 days
- Sever pharyngitis, tonsillitis, headache, fever, chills, vomiting
- Enlargement of cervical lymphnodes.

Clinical features

- 2nd or 3rd day –characteristic, diffuse bright red scarlet skin rash.
- Rash prominent in skin folds, & produced due to toxic injury to the vascular endothelium producing dilation of blood vessels & hyperemia.



Oral manifestations-

- Palatal mucosa congested, throat fiery red
- Strawberry tongue
- Raspberry tongue

Complications-

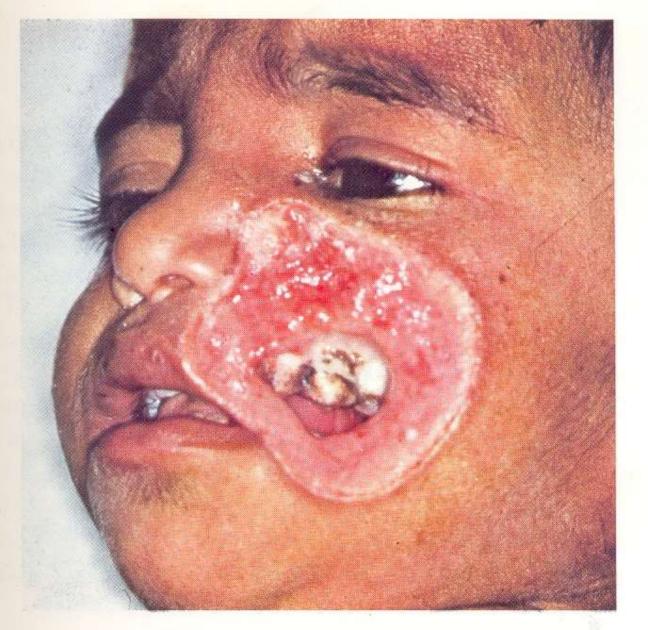
Peritonsillar abscess, rhinits, sinusitis, otitis media, mastoiditis, pneumonia, rheumatic fever

NOMA (cancrum oris)

• Rapidly spreading gangrene of oral and facial tissues that usually occurs in debilitated or nutritionally deficient patients.

Clinical features-

• Begins as small ulcer of gingival mucosa which rapidly spreads to involve the surrounding tissues of jaws, lips and cheeks by gangrenous necrosis.



Cancrum oris

- Initial site is usually one of stagnation around a fixed bridge or crown.
- Overlying skin becomes inflamed, edematous and necrotic
- A line of demarcation develops between healthy and dead tissue and large masses of tissue slough out leaving jaw exposed.
- Occasionally tongue may be involved.

Pyogenic granuloma

Clinical features-

- Frequently found on gingiva, lips, tongue, buccal mucosa and other areas.
- Elevated, pedunculated, or sessile mass with smooth, lobulated or warty surface.
- surface is commonly ulcerated, showing tendency for hemorrhage.
- Deep red or reddish purple depending on the Vascularity
- Soft in consistency.

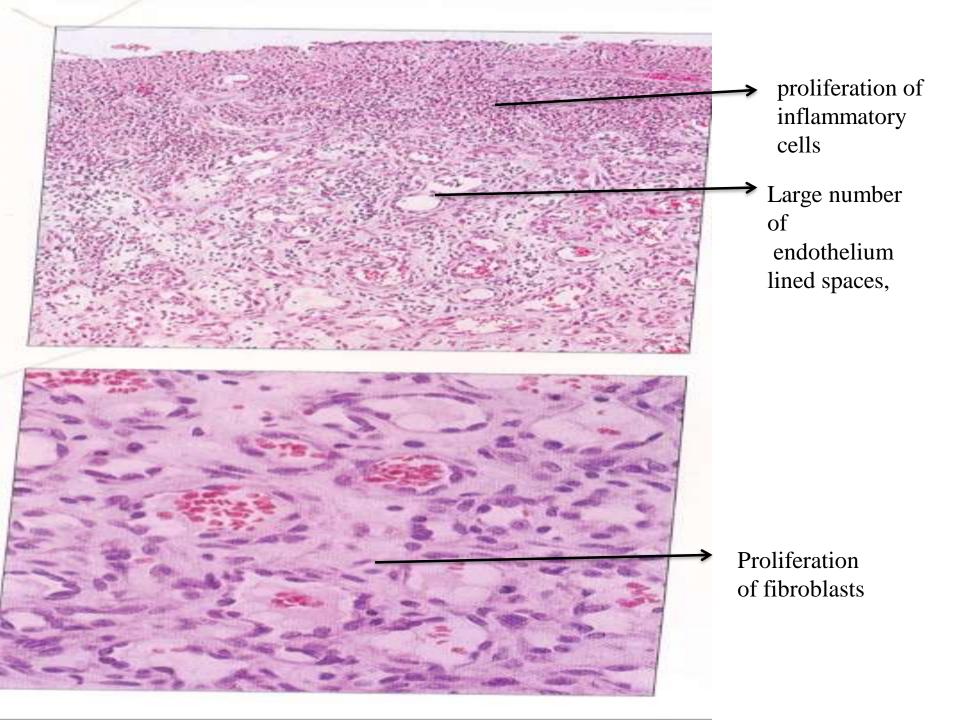


Pyogenic Granuloma

(Granuloma pyogenicum)
Figure 5-13. Pyogenic granuloma occurring in women during the later months of pregnancy-P- 461

Histopathologic features-

- Overlying epithelium thin and atrophic, may be hyperplastic
- Large number of endothelium lined spaces, proliferation of fibroblasts and budding endothelial cells.
- Moderate inflammatory cell infilterate



SUMMARY

- etiology, clinical features, histopathological features of scarlet fever
- etiology, clinical features, histopathological features of Noma
- etiology, clinical features, histopathological features of Pyogenic granuloma

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THANK YOU