ORAL MANIFESTATIONS OF SYSTEM 6 DISEASES



"Oral cavity acts as a mirror to reflect any major changes that disturb the homeostatic equilibrium of our body"

NUTRITIONAL DEFICIENCIES

VITAMIN DEFICIENCY :



Vitamin A def.:

C/F- Calcification of enamel is disturbed & enamel hypoplasia results.



Dentin is atypical so there is increased susceptibility to caries.

Vitamin -D def.

C/F- Developmental anomalies of enamel & dentin



Delayed exuption of primary and secondary dentition

Malaligned teeth

<u> Vitamin – K def.</u>

C/F- Gingival bleeding (on probing if Trothrombin level < 35% & spontaneous bleeding if level < 20%)

Vitamin B complex Riboflavin def.

C/F -Glossitis
Initial loss of filiform papillae & later atrophy of all papillae of the tongue
Tale lips
Cheilosis

Niacin def.



Vitamin C def.:

C/F – Bright red inflamed gingiva which bleeds

easily

Loose teeth

Delayed healing of oral wounds & ulcers

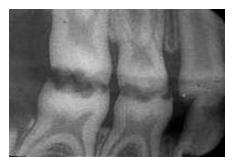
Mineral deficiency

Calcium def. :

C/F – Hypocalcified teeth

Bleeding problems





ENDOCRINAL DISTURBANCES

HYPOPITUITARISM

C/F: Eruption time & shedding time decreased

Dental arch smaller, crowding develops

Clinical crown & roots are smaller



C/F: Tooth crown & roots are longer

Jaw size is increased, prognathic

Tongue size increased





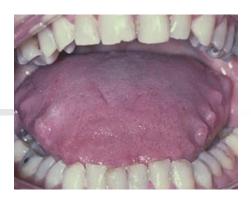




HYPOTHYROIDISM

Mandible is underdeveloped
Tongue is enlarged
Deciduous teeth are retained
beyond normal shedding time





HYPERTHYROIDISM

Early shedding of deciduous teeth Accelerated eruption of permanent teeth Alveolar atrophy in advanced cases



HYPOPARATYROIDISM

- •Hypoplasia or aplasia of teeth
- •Chronic candidosis refractory to
- •antifungal therapy



HYPERPARATYROIDISN



- •Cysts of jaw
- •Malocclusion & spacing d/t sudden drifting of teeth
- •GROUNDGLASS appearance of bone with partial loss of laminadura





Addison's disease:

■ Pale brown/deep choclate discolouration of oral mucosa

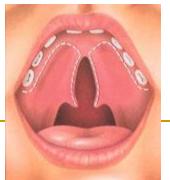


Hyperadrenal Aormone:

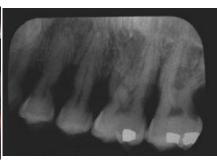
- Osteoporosis
- Cleft palate in offspring

- Insulin deficiency:

- Gingivitis
- Drymouth, high caries index
- Poor healing of ulcers & wounds







HAEMATOLOGICAL CONDITIONS

PERNICIOUS ANAEMIA:

HUNTER'S/MOLLER'S glossitis, glossodynia

APLASTIC ANAEMIA:

Petechiae, purpuric spots, haematomas

ERYTROBLASTOSIS FAETALIS:

Teeth develop green, brown or blue discolouration

IRON DEFICIENCY ANAEMIA:

Fissures at angle of mouth, pale atrophic mucosa, smooth, red, painful tongue

POLYCYTHEMIA:

Gingiva & tongue are deep purpulish red Gingiva is swollen & bleeds upon slighest provocation







Leucopenia

Necrotising ulcerations of oral mucosa & gingiva Excessive salivation



Rapid loosening of teeth Gingival haemorrhage & ulceration





ALL SURGICAL PROCEDURES
ARE CONTRAINDICATED

PLATELET & CLOTTING FACTORS DISORDER

JNCLUDES purpura, haemophilia, von willebrandt's disease etc.

MANIFESTATIONS:

Spontaneous gingival bleeding

Mandibular pseudo tumors

Subperiosteal bleeding with reactive bone formation



ALL SURGICAL TROCEDURES

- ARE CONTRAINDICATED

WEGIUS DISEASES BACTERIAL DISEASES

DIPTHERIA: A grayish, thick, fibrinous,

gelatinous false membrane begins from tonsils & spreads. Removal of membrane yeilds a bleeding surface. Soft palate is paralyzed in advanced cases.



TUBERCULOSIS: O/M are rare seen as ulcerative lesions of gingiva & buccal Mucosa. Tuberculosis of Mx & Md results d/t(anachoretic effect) source is periapical inflammation by way of bloodstream.

LETROSY:

- Small tumor like masses k/a LETROMAS are seen on tongue, lip & hard palate
- Gingival hyperplasia with loosening of teeth



aesinomyeosis:

• Swelling & induration of facial tissue which develops into abcess discharging onto skin releasing typical sulphur granules.

SYPHILIS

ACQUJRED:

Primary syphilis :"CHANCRE"

Secondary syphilis : "MUCOUS

PATCHES"

Tertiary syphilis : "GUMMA"





CONGENITAL

Short Mx, high palatal arch Mulberry molars, hypoplastic incisors



VIRAL DISEASES

AIDS

- Oral Candiasis is the 1st

 presenting sign of HIV infection
- Hairy Leukoplakia preceeds AIDS
- Apthous ulcers
- Kaposi Sarcoma is the most common malignancy in pt.
 who are HIV positive







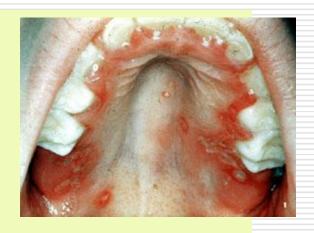


Herpes Simplex infection

☐ Leads to ACUTE HERPETIC
GINGIVOSTOMATITIS

☐ Involves keratinised mucosa as single or multiple ulcers

☐ Fissures may form at the dorsal aspect of tongue





METAL INTOXICATION

BISMUTH:

- Ulcerative gingivostomatitis
- Metallic taste, burning sensation
- •Bluish-black discolouration of gingival margin

LEAD:

- Pallor of face, tongue & lips
- •Steel–gray BURNIAN LINE at gingival margin







Mercury;

- Pronounced salivation, metallic taste
- Gingival pigmentation & ulceration
- Destruction of underlying bone



PHOSPHORUS, ARSENJC, CHROMJUM

- Necrosis of alveolar bone
- Loosening & exfoliation of teeth
- Gingival pigmentation & ulceration





CONGENITAL HEART DISEASE

- Purplish discolouration of lips & gingiva which corresponds to general degree of body cyanosis & returns to normal after corrective heart surgery
- Severe marginal gingivitis& periodontal destruction



 Tongue appears coated, fissured & edematous with reddening of papillae

