CLINICAL STOMATOLOGY CONFERENCE

DNSC D9910.00

September 19, 2007

Red and mixed red-white lesions

Overview

Red lesions

- Erythroplakia
- [Squamous cell carcinoma]

Mixed red-white lesions

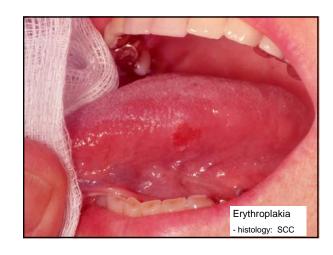
- Geographic tongue
- Morsicatio (chewing injury)
- Chemical injuries
- Contact reaction to cinnamon
- [Squamous cell carcinoma]

Erythroplakia

- Definition:
 - "A **red** patch that cannot be clinically or pathologically diagnosed as any other condition"
- Most (~90%) do represent epithelial dysplasia, carcinoma in situ, or squamous cell carcinoma
- May be combined with leukoplakic areas = erythroleukoplakia, speckled leukoplakia

Erythroplakia

- Etiology: Likely same as oral SCC and leukoplakia
- Incidence: ~ 77x less than leukoplakias
- Gender: Male predilection
- Age: Peak incidence at 65-74 yo
- Site: Floor of mouth, tongue, soft palate
- Clinical:
 - Red macule or plaque
 - Soft, velvety
- * May be combined with areas of leukoplakia *







Erythroplakia

- <u>Differential diagnosis</u>:
 - 1) Trauma
 - 2) Geographic tongue; ectopic erythema migrans
 - 3) Nutritional deficiency, anemia
 - 4) Allergic mucosal reactions Contact mucosal reaction

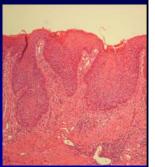






Erythroplakia

- Histology:
 - lack of keratinization
 - epithelial atrophy
 - underlying chronic inflammation
 - + dysplasia, usually severe
 - + carcinoma-in-situ
 - <u>+</u> squamous cell carcinoma



Erythroplakia

• Treatment:

Biopsy should be performed Treatment guided by histopathologic diagnosis Recurrence, multifocality common

** Careful long-term follow-up **

Geographic tongue

• AKA: Erythema migrans

• Etiology: Unknown

? Hypersensitivity reaction

• Prevalence: 1-3% of population

• Gender: F>M

• Age: No predilection

• Site: Dorsum of tongue

Can occur in other oral sites, including buccal and labial mucosa, soft palate ("ectopic" geographic tongue)

Geographic tongue

• Clinical features:

Zones of erythema surrounded by white, serpentine borders

Lesions migrate in days to weeks

Often associated with fissured tongue

<u>+</u> burning with spicy foods







Geographic tongue

- Differential diagnosis:
 - 1) Candidiasis
 - 2) Leukoplakia <u>+</u> erythroplakiarare on dorsum of tongue
 - 3) Contact allergic reaction
 - 4) Lichen planus







Geographic tongue • Histology: - ~ psoriasis - hyperkeratosis; epithelial spongiosis - neutrophils in epithelium - lymphocytes and neutrophils in connective tissue • Treatment: No treatment; reassure patient If burning — topical steroids

Morsicatio (chewing injury)

 Etiology: Frictional irritation from chewing habit Similar lesions in glassblowers and some musicians

 <u>Risk</u>: Stress; psychological illnesses; edge-edge bite

Gender: F > MAge: Any age

After age of 35 yo - stress

Morsicatio (chewing injury)

Site: Buccal mucosa
 Can be seen on la mucosa, lat tongue

<u>Clinical features</u>:
 White, diffuse
 <u>+</u> erythema

Shredded/ragged, macerated appearance







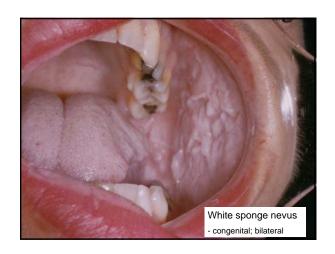


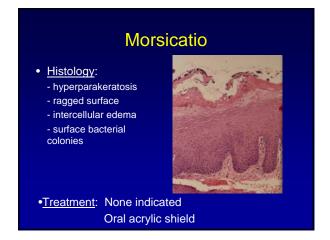
Morsicatio

- Differential diagnosis:
 - 1) Leukoplakia
 - 2) Chemical injuries (e.g. aspirin)
 - 3) Contact stomatitis allergic; cinnamon
 - 4) Inherited mucosal disorders
 - White sponge nevus
 - Hereditary benign intraepithelial dyskeratosis









Chemical injuries • Etiology: Contact with caustic chemicals and drugs (over-the-counter, prescribed)

Examples: Aspirin, hydrogen peroxide (≥3%), products containing phenol (Anbesol), silver nitrate, endo materials (formocresol, sodium hypochlorite)

- Age and gender: Any
 Site: Any site of chemical/drug contact
- Clinical: White, wrinkled

Later, white slough with red base Ulcerated lesions – fibrinopurulent membrane

Injection into bone – bone necrosis





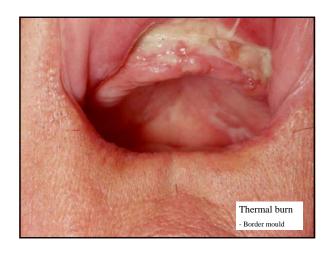




Chemical injuries

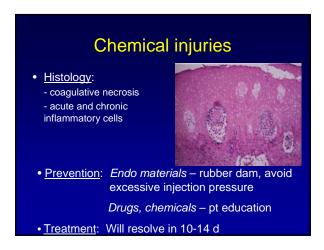
- Differential diagnosis:
 - 1) Candidiasis
 - 2) Leukoplakia does not wipe off
 - 3) Thermal burn
 - 4) Desquamative gingivitis
 - 5) Lichen planus; lichenoid reaction
 - 6) Traumatic ulcer; chronic trauma

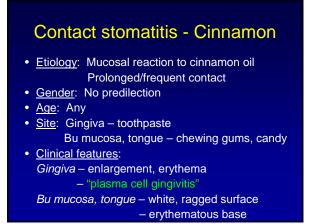




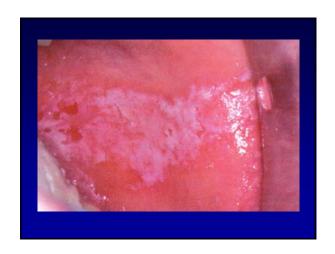














Contact stomatitis - Cinnamon

- <u>Differential diagnosis</u>: *Gingiva*
 - 1) Gingivitis local factors, desquamative, granulomatous

Buccal mucosa, tongue

- 1) Morsicatio (chewing injury)
- 2) Candidiasis
- 3) Leukoplakia; erythroplakia
- 4) Oral hairy leukoplakia





Contact stomatitis - Cinnamon

• <u>Differential diagnosis</u>:

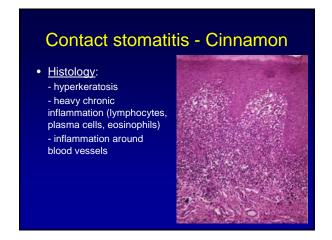
Gingiva

1) Gingivitis – local factors, desquamative, granulomatous

Buccal mucosa, tongue

- 1) Morsicatio (chewing injury)
- 2) Candidiasis
- 3) Leukoplakia; erythroplakia
- 4) Oral hairy leukoplakia





Contact stomatitis - Cinnamon

• Treatment:

Disappears after discontinuation of cinnamon products

Will reappear if cinnamon intake resumed