

# CLINICAL STOMATOLOGY CONFERENCE

DNSC D9910.00

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## Soft tissue tumors Part 2

### Overview

#### Benign

- Fibroma
- Pyogenic granuloma
- Epulis fissuratum
- Lipoma
- Granular cell tumor
- Congenital epulis (of the newborn)
- Hemangioma
- Neural lesions

#### Malignant

- Sarcomas

### Hemangioma

- Etiology: Benign proliferation of *vascular* endothelial cells
- Gender: F>M
- Age: Present since infancy but may not be clinically obvious
- Site: Any oral location; may be multiple  
Skin

### Hemangioma

- Clinical features:  
Lobulated or nodular mass  
Red to purple  
\*\* Blanches with *diascopy*
- Clinical behavior:  
Present at birth, proliferates for 6-10 months, then involutes





## Hemangioma

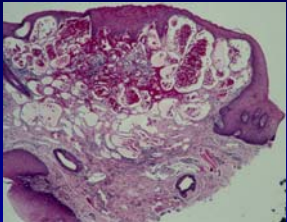
- Differential diagnosis:
  - 1) Vascular malformation
    - present at birth; *persists throughout life*
    - Varix – dilated vein
  - 2) Hematoma
  - 3) Lymphangioma
    - proliferation of *lymphatic* endothelial cells
    - often *combined* with hemangioma
  - 4) Pyogenic granuloma
  - 5) Mucocele; salivary gland tumor

Hemangioma-lymphangioma

Mucoceles

## Hemangioma

- Histology:
  - Numerous blood vessels
  - Capillary - small lumen
  - Cavernous – dilated lumen
- Treatment: Periodic observation - as many involute with time
- Problematic lesions: steroids, sclerotherapy

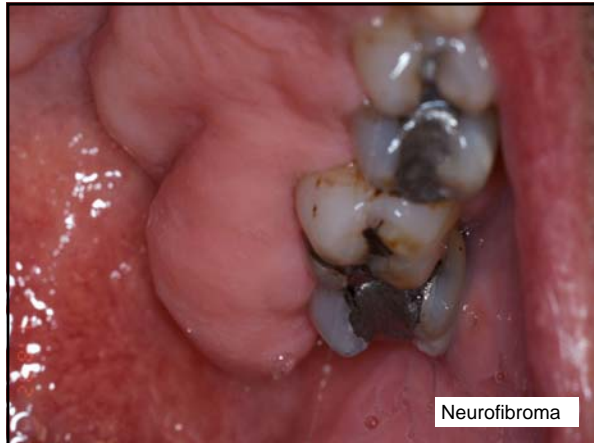


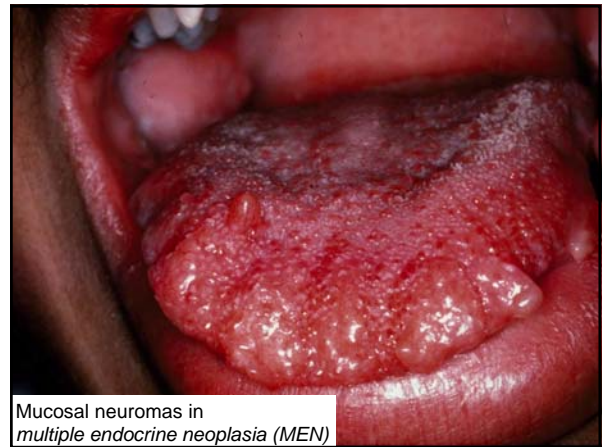
## Benign neural lesions

- Includes: 1) Neurofibroma
  - solitary
  - associated with *neurofibromatosis (NF)*
- 2) Schwannoma
- 3) Traumatic neuroma
  - after transection or damage to nerve
  - mental foramen area, tongue, lower lip
- 4) Other neuromas
  - a) Mucosal neuroma
    - associated with *multiple endocrine neoplasia III (MEN III)*
  - b) Palisaded encapsulated neuroma

## Benign neural lesions

- Gender: No predilection
- Age: Young and middle-aged adults
- Site: Any; especially tongue
  - Rarely can occur in jaw (*neurofibroma, schwannoma, traumatic neuroma*)
- Clinical features (soft tissue):
  - Smooth-surfaced nodule or mass
  - Pink
  - Soft to firm
- Radiographic features (intraosseous):
  - Well-defined radiolucency



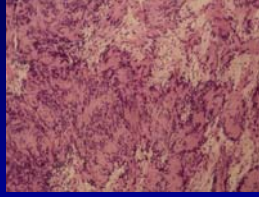


### Benign neural lesions

- Differential diagnosis:
  - 1) Fibroma
  - 2) Epulis fissuratum
  - 3) Lipoma; salivary gland lesions; vascular lesions
  - 4) Granular cell tumor – especially dorsum of tongue

## Benign neural lesions

- Histology:
  - varies depending on type of lesion
  - cells with wavy nuclei
  - *schwannoma*: Antoni A and Antoni B patterns



Schwannoma

- Treatment: Conservative surgical excision

## Benign neural lesions

- If diagnosed as neurofibroma:
  - evaluate for *neurofibromatosis*, especially if multiple
- If diagnosed as mucosal neuroma:
  - evaluate for *multiple endocrine neoplasia (MEN) syndrome*

## Sarcomas

- Definition:  
Proliferation of *malignant* mesenchymal cells

## Sarcomas

- 1) Fibroblasts = **fibrosarcoma**
- 2) Adipocytes = **liposarcoma**
- 3) Vascular endothelial cell  
= **Kaposi's sarcoma**  
= **angiosarcoma**
- 4) Peripheral nerve cells  
= **malignant peripheral nerve sheath tumor**
- 5) Striated muscle = **Rhabdomyosarcoma**
- 6) Smooth muscle = **Leiomyosarcoma**



Kaposi's sarcoma



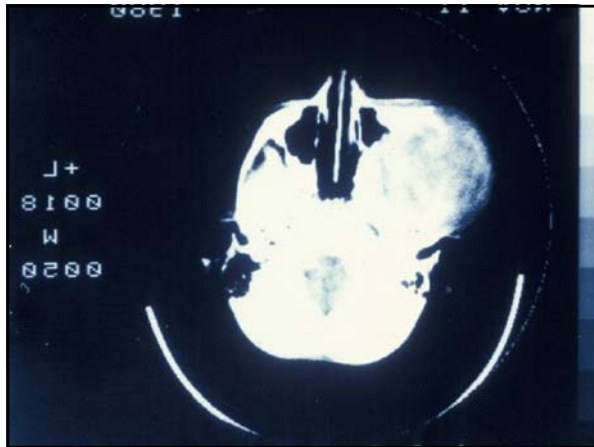
Fibrosarcoma



Fibrosarcoma



Rhabdomyosarcoma



## Sarcomas

- Rare in oral cavity
- Points to remember:
  - History of *H&N radiation therapy* → risk soft tissue and bone sarcoma
  - *Kaposi's sarcoma* → HIV pt, transplant pt, immunosuppressed pt
  - *Malignant peripheral nerve sheath tumors* → mostly in NF patients
  - *Rhabdomyosarcoma* → orbit in children