## **Soft Tissue Tumors**

#### Basic objectives for individual lesions identification and characteristics

1. Identify the cause (etiology; pathogenesis), cell or tissue of origin, and frequency (prevalence rate)

- 2. List the predilection GAL
  - Gender predilection
  - Age predilection
  - Location predilection
- 3. Describe the typical clinical appearance
  - Unusual clinical variants
  - Look-alike lesions (differential diagnosis)
  - Systemic or genetic associations
  - Drug, foreign material, etc. associations
- 4. Describe the basic microscopic features
- 5. Describe the usual biologic behavior (pathophysiology)
  - Rate and pattern of growth
  - Prognosis without treatment
- 6. State the typical treatment(s) and the prognosis for such treatment(s)
- 7. Describe unique variants or features (microscopic, physiologic, clinical, etc.)

#### Irritation fibroma (fibroma, traumatic fibroma, reactive fibrous hyperplasia):

- 1. From acute or repeated trauma (poor healing; exuberant scar tissue)
  - May develop from pyogenic granuloma
  - Most common soft tissue mass; 3<sup>rd</sup> most common mucosal lesion in adults
  - Prevalence: 12 lesions/1,000 adults
- 2. GAL:
  - None (but 2x females for biopsied cases)
  - 4th-6th decades
  - Buccal, lip, tongue, gingiva
- 3. Smooth-surfaced, pink (normal color), painless nodule
  - May be pigmented (racial pigment of surface epithelium)
  - May have surface frictional keratosis or traumatic ulcer
  - Usually sessile, may be pedunculated
- 4. Micro: dense, avascular fibrous stroma
  - No capsule
  - Epithelium often atrophic
  - Small numbers of lymphocytes in fibrous stroma
- 5. Usually grows to <1 cm. within 6 months; minimal increase after that
  - May become 3-4 cm.
    - Does not go away
  - No malignant transformation
- 6. Treat: Conservative surgical excision
- 7. Unique lesion: Leaf-shaped fibroma is flat fibroma growing under a denture base

- Often with small papules along the "leaf's" edges
- $-6^{\text{th}}$  most common mucosal lesion; prevalence = 7/1,000, with strong female predilection
- Treat same as for regular irritation fibroma

#### Giant cell fibroma (reactive fibrous hyperplasia):

- 1. Etiology: unknown, presumed to be not related to trauma
  - -2-5% of fibrous oral masses biopsied
- 2. GAL:
  - Slight female (biopsied cases only)
  - Younger persons
  - 50% on gingiva
- 3. Small, often lobulated, smooth-surfaced or pebble-surfaced, painless nodule
- 4. Micro: like irritation fibroma, but has very large, stellate, subepithelial fibroblasts
  - Sometimes with multiple nuclei
- 5. Remains less than 5 mm in size; remains indefinitely
- 6. Treat: conservative surgical excision
- 7. Unique lesion: retrocuspid papilla:
  - Small fibrous gingival nodule behind mandibular cuspid; often bilateral
  - More frequent in children (at least 25%) than in adults (at least 6%)
    - Same giant fibroblasts as giant cell fibroma

# Epulis fissuratum (reactive fibrous hyperplasia; inflammatory fibrous hyperplasia; denture injury tumor; denture epulis):

1. Etiology: repeating trauma from denture flange

- $-11^{\text{th}}$  most common mucosal mass; prevalence = 4/1,000 adults 2. GAL:
  - None (but strong female in biopsied cases)

- Middle-aged and older

- Anterior vestibule, posterior vestibule, anterior oral floor

3. Linear, often lobulated, painless fibrous mass with a base along the vestibular depth or facial alveolus

– May have traumatic ulcer in depth of a fissure

- May have multiple parallel masses ("redundant tissue")
  - May have areas of papillary hyperplasia along edges

4. Micro: like irritation fibroma but has many more chronic inflammatory cells in stroma, may have very hyperplastic surface epithelium; may have surface ulcer

## – Problem: **pseudoepitheliomatous hyperplasia** can look like **squamous cell carcinoma** islands if cut tangentially or in cross section

5. Continues to elongate over time (and continued trauma)

- New parallel masses develop, may ulcerated
- No malignant transformation (although it was once thought to be premalignant)
- 6. Treat: dual treatment: conservative surgical excision and replace/repair denture

## Inflammatory papillary hyperplasia (papillary hyperplasia of the palate; denture papillomatosis):

1. Etiology: repeating trauma from denture base, especially in persons who sleep with denture in place

- Candidiasis often accompanies lesion (cause? result?)
- $-15^{\text{th}}$  most common mucosal lesion; prevalence = 3/1,000 adults
- May be seen in non-denture patients with high arched palate or immune deficiency
  - (e.g. AIDS)
- 2. GAL:
  - 2x female
  - Middle-age and older
  - Hard palate (under denture)
- 3. Multiple painless fibrous papules scattered across hard palate, concentrated in the midline
  - Early lesions are edematous and erythematous
  - May have burning sensation if secondary candidiasis occurs
- 4. Micro: Each papule is like a small irritation fibroma; early lesions are comprised of edematous granulation tissue with chronic inflammatory cells
  - Problem: pseudoepitheliomatous hyperplasia can look like squamous cell carcinoma
- 5. Continues indefinitely, even after new denture is made (early, edematous lesions may disappear) No malignant potential
- 6. Treat: dual treatment: conservative surgical excision or laser/electrosurgical removal - And replace or repair denture
  - Early (edematous) lesions may disappear with cessation of denture use for several weeks

## Fibromatosis (juvenile aggressive fibromatosis; extraabdominal desmoid):

- 1. Etiology: unknown (neoplasm?); rare in mouth
- 2. GAL:
  - None
  - Children and young adults
  - Mandibular gingiva
- 3. Painless, firm, often lobulated mass
  - May destroy underlying bone
- 4. Micro: Fibrous stroma with many spindle cells in streaming fascicles
  - Not encapsulated
  - Cells are mature
- 5. Can grow to considerable size
  - May destroy underlying bone
  - No metastasis
- 6. Treat: wide excision, including affected bone
  - 1/4 recur with this treatment
  - May cause considerable local disfigurement

#### Fibrosarcoma:

- 1. Etiology: malignant neoplasm of fibroblasts
  - Etiology = unknown
  - -10% of all are in head & neck region
- 2. GAL:
  - None

- Children, teenagers and young adults
- Palate, tongue, buccal
- 3. Painless, firm, sometimes lobulated mass
  - May have surface ulceration
  - Slow-growing in beginning
- 4. Micro: Mature spindle cells with more or less collagen in background
  - Spindle cells may be dysplastic (Grades I IV)
  - Not encapsulated
  - Mitotic figures
  - Herring bone pattern
- 5. Can grow rapidly toward end
  - Destroys underlying bone (also, there is an intraosseous version of fibrosarcoma, so it
- could be perforating out of bone)
- 6. Treatment: radical surgical removal, including affected bone
  - -5-year survival = 50%

## Fibrous histiocytoma (fibroxanthoma, dermatofibroma):

- 1. Etiology: neoplasm of histiocytes, with fibrous differentiation; rare in mouth
- 2. GAL:
  - None
  - Middle-age and older (but skin lesions: young adults)
  - Buccal, vestibule
- 3. Painless, firm nodular mass; no capsule
- 4. Micro: Very cellular proliferation of spindle cells with open nuclei (like histiocytes)
  - Storiform pattern
  - May see rounded histiocyte-like cells
  - Malignant variants may look very benign microscopically
- 5. Can grow to considerable size
- 6. Treat: Moderately conservative surgical excision
  - Recurrence = uncommon

#### 7. Malignant variant: malignant fibrous histiocytoma

- Most common soft tissue malignancy in adults
- 40% recur
- -5-year survival = 30%

## **Pyogenic granuloma:**

1. Etiology: Lack of reduction of granulation tissue during normal healing process; not an infection

 $-50^{\text{th}}$  most common mucosal lesion; prevalence = 1/10,000 adults

- 2. GAL:
  - None (although strong female predilection in biopsied cases)
  - Children & young adults
  - Gingiva (75%), lips, tongue, buccal
  - Pregnancy tumor: pyogenic granuloma of gingival papilla in pregnant woman (may be multiple)

- Epulis granulomatosum: pyogenic granuloma in poorly healed extraction socket

3. Painless erythematous mass (may be hemorrhagic) with lobulated surface

- Often ulcerated
- 4. Micro: Edematous granulation tissue with chronic and acute inflammatory cells
- 5. Generally remains less than 2 cm.
  - -May shrink over time
  - May become irritation fibroma
  - Pregnancy tumor may disappear after birth of baby
- 6. Treat: Conservative surgical excision
  - For pregnancy tumor, wait until after birth, if possible
  - May recur if original cause (infection, trauma) is not removed

## Peripheral ossifying fibroma (peripheral cementifying/ossifying fibroma):

- 1. Etiology: Inflammatory proliferation of fibrous tissue with potential to make bone or cementum 2. GAL:
  - -2/3 females
  - Teenagers and young adults
  - -Gingival papilla (must be in this location)
- 3. Painless, red or pink firm mass
  - May be lobulated
  - May be ulcerated
    - Often shows calcification on radiograph

4. Micro: Primitive spindle cells in fibrous stroma, with immature bone formation, often with osteoblasts

- 5. Usually remain less than 2 cm., occasionally up to 3 cm.
- 6. Treat: Conservative surgical excision with curettage of base
  - And cleaning/scaling of adjacent teeth
  - 15% recur

#### Peripheral giant cell granuloma (peripheral giant cell lesion; giant cell epulis):

1. Etiology: Inflammatory proliferation of phagocytic cells

- Secondary to local irritation or trauma or infection
- 2. GAL:
  - 60% in females
  - Fifth-sixth decades
  - Gingiva (must be in this location)
- 3. Painless, perhaps hemorrhagic, red or bluish nodular mass
  - Somewhat soft to palpation
  - May cup out underlying bony cortex (saucerization)
  - May show calcifications on radiograph;
  - Often ulcerated
- 4. Micro: immature fibrous stroma with multinucleated giant cells,
  - Extravasated erythrocytes
  - Spindled mesenchymal cells
- 5. Generally remain less than 2 cm., may become more than 4 cm.
  - No malignant transformation
- 6. Treat: Conservative surgical excision with curettage of base
  - And cleaning/scaling of adjacent teeth

- 10% recur

 Caution: large or multiple or recurring lesions might be brown tumor of hyperparathyroidism

#### Lipoma:

- 1. Etiology: benign neoplasm of fat cells; some are developmental
  - Most common soft tissue tumor in the body, but not so common in the mouth
  - $-38^{th}$  most common mucosal lesion in adults
    - Prevalence = 3/10,000
- 2. GAL:
  - -None
    - Middle-aged
    - Buccal, vestibule
- 3. Painless, sessile, yellowish, soft mass
- 4. Micro: mature adipocytes with collagen trabeculae
  - May or may not be encapsulated
  - May "infiltrate" great distances into surrounding stroma
- 5. Slowly enlarge, usually remain less than 3 cm.
  - No malignant transformation
- 6. Treat: conservative surgical excision
  - Usually do not recur
  - Except the infiltrating types

#### Liposarcoma:

- 1. Etiology: malignant neoplasm of adipocytes
  - Second most common soft tissue sarcoma of adults (after malignant fibrous histiocytoma)
- 2. GAL:
  - None
    - 40-60 years of age
    - Neck (most common H&N site), buccal (50% of oral lesions), tongue
- 3. Soft, slowly enlarging, ill-defined submucosal mass
  - Yellow color, if superficially located, otherwise pink in color
  - Pain or tenderness are uncommon except in late stages
- 5-year survival = 60-70%

#### Traumatic neuroma:

- 1. Etiology: reactive proliferation of neural tissue after nerve injury
- 2. GAL: none; middle-aged; mental foramen
- 3. Smooth-surfaced soft, nonulcerated nodule; less than half are tender or painful, may be burning
- 4. Micro: Intertwining, tortuous nerve fibers in a fibrous stroma
- 5. Usually remain less than 1 cm.; no malignant transformation
- 6. Treat: conservative surgical excision with small part of affected nerve

- May lead to paresthesia and pain may recur

#### Neurofibroma:

1. Etiology: benign neoplasm of Schwann cells and perineural fibroblasts

- The most common peripheral nerve tumor
- 2. GAL:
  - None
  - Young adults
  - Tongue, buccal
- 3. Smooth-surfaced soft, nonulcerated nodule
  - Painless
  - May be huge and pendulous
- 4. Micro: Well circumscribed interlacing bundles of spindle-shaped cells with wavy nuclei, in a fibrous stroma
- 5. Usually remain less than 2 cm., may become huge
  - Oral lesions seldom become malignant, less likely than skin lesions
  - 6. Treat: conservative surgical excision
    - Recurrence is rare
- 7. Unique disease: Neurofibromatosis type I (von Recklinghausen disease):
  - Multiple neurofibromas (some **schwannomas**) throughout body (maybe hundreds)
  - Autosomal dominant inheritance (gene is on chromosome 17)
  - 5-10% chance of malignant development
  - Café au lait spots (brown skin patches)
  - Oral lesions in 1/4 of cases
  - Abnormal bone development
  - Lisch nodules (brown spots on iris)

## Neurilemoma (Schwannoma):

- 1. Etiology: benign neoplasm of Schwann cells
  - Up to half occur in head and neck area
- 2. GAL:
  - None
    - Young adults and middle-aged;
    - Tongue, hard palate
- 3. Smooth-surfaced, nonulcerated soft nodule
  - Painless
- 4. Micro: Encapsulated with two tissue types:
  - Antoni A (streaming fascicles of spindled Schwann cells forming Verocay bodies)
  - Antoni B (disorganized neurites in loose fibrous stroma)
- 5. Usually remain less than 2 cm
  - Oral lesions seldom become malignant, skin lesions can but it is uncommon
- 6. Treat: conservative surgical excision
  - Recurrence is rare

## Malignant peripheral nerve sheath tumor (neurofibrosarcoma; malignant schwannoma)

- Dysplastic spindle cells
- Few recognizable nerves
- Treat: radical surgery
- -5-year survival = 40-50%

## Multiple mucosal neuromas syndrome (multiple endocrine neoplasia syndrome III; MEN III; MEN IIB):

1. Etiology: Autosomal dominant inherited disease with multiple tumors or hypeplasias of neuroendocrine tissues

- Mutation of RET protooncogene on chromosome 10
- Rare, but oral signs are often the first evidence of disease

2. GAL:

- None
- Teenagers and young adults
- Tongue, lips
- 3. Sessile, smooth-surfaced, painless yellowish white, soft nodules
  - Narrow face
  - Long extremities
  - Abraham Lincoln appearance
  - Weak muscles
  - Pheochromocytomas (50%)

## - Medullary thyroid carcinomas (90%)

- Elevated serum and urinary calcitonin (from thyroid tumor)
- Elevated urinary vanillylmandelic acid (VMA)
  - Increased epinephrine-to-norepinephrine ratio (from adrenal tumor)

4. Micro: intertwining, tortuous nerve fibers with thick perineurium and with spaces (artifactual) around them

- 5. Oral neuromas remain small (less than 5 mm)
  - Oral neuromas do not become malignant
- 6. Treat: no treatment needed for oral lesions, except for esthetic purposes
  - Treat systemic problems and tumors

## Melanotic neuroectodermal tumor of infancy (progonoma; retinal anlage tumor):

1. Etiology: neoplasm of neural crest cells

- Very rare
- 2. GAL:
  - None
  - Infancy; newborns
  - Anterior maxillary alveolus
- 3. Rapidly expanding blue/black painless mass
  - Usually destroys underlying bone
  - Elevated urinary vanillylmandelic acid (VMA), from oral tumor
- 4. Micro: two cell types:
  - Small dark round neuroblastic cells
  - Large epithelioid cells with melanin deposits
- 5. May reach alarming size and destroy much of the anterior alveolar bone
  - Malignant variants have been reported (very rare)
- 6. Treat: Moderately severe surgical excision
  - 15% recurrence

## Granular cell tumor (granular cell myoblastoma):

1. Etiology: benign neoplasm of Schwann cells

- Originally thought to be from striated muscle cells

2. GAL:

- 2x females
- Fourth-sixth decades
- Tongue (50% of all body cases)
- 3. Sessile, painless, pale firm mass

4. Micro: large, polygonal cells (like histiocytes) with granular cytoplasm and small nuclei, in sheets and globules

## – May be spindled and infiltrate between muscle fibers

## - Problem: pseudoepitheliomatous hyperplasia may look like squamous cell carcinoma

- 5. Usually remain 1-2 cm., seldom enlarge after initial notice
  - No malignant transformation risk
- 6. Treat: conservative surgical excision
  - Recurrence is very rare

## Granular cell epulis (congenital epulis):

- 1. Etiology: developmental tumor of unknown histogenesis
- 2. GAL:
  - Strong female predilection (90%)
  - Newborn
  - Anterior maxillary alveolus
- 3. Pedunculated, soft, smooth-surfaced pink or pale nodule
- 4. Micro: large, polygonal cells with granular cytoplasm
  - Like cells in granular cell tumor, but with different immunohistochemistry
- 5. Usually remains less than 2 cm but may become up to 9 cm
- 6. Treat: conservative surgical excision as soon as baby can tolerate surgery
  - Does not recur

– If left untreated, small lesions shrink and often disappear (they do not interfere with eruption)

## Hemangioma:

1. Etiology: benign developmental growths or benign neoplasms

- $-6^{\text{th}}$  most common oral mucosal lesion
  - Prevalence = 6/1,000 adults
- Head and neck is the most common location in the body
- 2. GAL:
  - 3x females
  - Children and teenagers
  - Seldom congenital, but develop shortly after birth
    - Tongue, buccal, lips
- 3. Sessile, often lobulated soft red, painless and smooth-surfaced mass
  - Fluctuates and blanches
  - Blue color if venous blood; red if arterial
  - On skin: port wine stain, berry angioma

4. Micro: many dilated (cavernous hemangioma) or collapsed (capillary hemangioma) endothelium-lined channels without encapsulation, endothelial nuclei are enlarged in growing lesions

5. Infancy lesions may spontaneously regress, later lesions do not

- Some lesions continue to enlarge throughout growth of the patient, perhaps even after

- No cancer development
- Problem: hemorrhage
- 6. Treat: often left alone
  - Childhood lesions might respond to corticosteroids or interferon-"-2a
  - Laser therapy can be effective
  - Injection of sclerosing solutions, such as 95% ethanol

#### Angiosarcoma:

- Similar clinical appearance to hemangioma but rapid growth
- Poor prognosis (10-year survival = 21%)
- Hemangioendothelioma = a vascular neoplasm with features intermediate between hemangioma and angiosarcoma

#### Sturge-Weber angiomatosis (Sturge-Weber syndrome, encephalotrigeminal angiomatosis):

1. Etiology: vascular plexus forms around cephalic part of neural tube at six weeks but does not regress after the ninth week (as is usual)

- Rare
- Not inherited
- 2. GAL:
  - None
  - Congenital
  - Face, buccal, maxilla
- 3. Purple/red macule(s) of trigeminal nerve distribution of face (**port wine stain**, **nevus flammeus**)
  - Often with involvement of oral mucosa
  - Angiomas of ipsilateral leptomeninges may cause seizures or mental retardation
  - Calcifications of gyri
- 4. Micro: same as cavernous hemangioma above
- 5. Vascular macule remains constant throughout life, oral lesions may cause hemorrhage

6. Treat: laser therapy might reduce color of port wine stain; intraoral lesions are treated with sclerosing solutions

#### Kaposi sarcoma (Kaposi's sarcoma):

- 1. Etiology: vascular proliferation (neoplasm?) in AIDS
  - Stimulated by herpesvirus 8 (Kaposi's sarcoma-associated herpesvirus)

2. GAL:

- Strong male predilection
- Young adults and middle-aged
- Tongue, lips, gingiva

- 3. Soft-to-firm red or purple macules or nodular mass
  - Painless
  - Nonhemorrhagic
- 4. Micro: Combination of proliferating spindled cells and endothelial cells
  - Extravasated erythrocytes
  - Staghorn clefts
- 5. Multiple purple, brown or red soft masses
  - May be macule
  - Granular or lobular surface
  - Slowly enlarge, with new lesions developing over time
- 6. Treat: lesions disappear with successful AIDS treatment (protease inhibitors, etc.)

#### Traumatic angiomatous lesion (venous pool, venous lake, venous aneurysm):

- 1. Etiology: acute trauma to subepithelial vein, with focal dilation or "aneurysm"
- 2. GAL:
  - None; middle-aged and older; lips, buccal
- 3. Small, painless red bleb
  - Blanches
- 4. Micro: single dilated venous structure
  - Perhaps with **thrombus** in the lumen (may calcify)
- 5. Remains indefinitely the same after first few weeks
  - Usually remains less than 4 mm
  - No malignant development
- 6. Treat: conservative surgical removal
  - OK to leave alone, except for esthetics

#### Lymphangioma:

- 1. Etiology: benign neoplasm or hamartoma of lymph vessels
- 2. GAL:
  - None
  - Children and teenagers
  - Tongue (produces **macroglossia**)
- 3. Soft painless cluster of clear blebs
  - Often with outlying or satellite blebs several mm from main mass
  - May be only scattered vesicle-like blebs
- 4. Micro: same appearance as hemangioma, but without the blood cells in the lumina
- 5. Slowly enlarges with body growth
  - No spontaneous regression, as with hemangioma
  - No cancer development
- 6. Treat: conservative surgical removal
  - Usully deliberately leave some tumor behind (debulking)
  - Repeat surgery is not uncommon
- 7. Unique lesion: **cystic hygroma**: congenital cavernous lymphangioma of lateral neck

#### Lymphangiosarcoma

- Malignancy of lymph vessels

- Similar clinical appearance to lymphangioma but more rapid and larger growth
- Dysplastic endothelial lining cells around lumina without erythrocytes
- Poor prognosis

## Leiomyoma:

- 1. Etiology: benign neoplasms of smooth muscle
  - Very rare
- 2. GAL:
  - None
  - Infancy or childhood
  - Tongue, lips
- 3. Usually sessile, firm, painless mass
  - Normal surface color and smooth surface
- 4. Micro: cellular proliferations of smooth muscle cells
  - Usually encapsulated
- 5. Usually remain less than 2 cm.
  - No cancer transformation
- 6. Treat: conservative surgical removal
  - Few recurrences

## Rhabdomyoma:

- 1. Etiology: benign neoplasms of striated muscle
- Very rare
- 2. GAL:
  - None
  - Infancy or childhood
  - Tongue, lips
- 3. Usually sessile, firm, painless mass
  - Normal surface color and smooth surface
- 4. Micro: cellular proliferations of striated muscle cells
  - Usually encapsulated
- 5. Usually remain less than 2 cm.
  - No cancer transformation
- 6. Treat: conservative surgical removal
  - Few recurrences

#### Leiomyosarcoma

- Lobulated, relatively firm mass
- May have surface ulceration
- Treat: radical surgery
- Poor prognosis

#### Rhabdomyosarcoma

- Lobulated, relatively firm mass
- May have surface ulceration
- Treat: radical surgery

– 70% 5-year survival

## Cartilaginous choristoma (soft tissue chondroma; chondroid hamartoma):

1. Etiology: tumor-like proliferation of normal tissue (cartilage) in the wrong place

- 2. GAL:
  - None
  - Teens and young adults (probably started much earlier)
  - Tongue
- 3. Sessile, firm, painless mass with normal surface color or pallor
- 4. Micro: Normal cartilage (hyaline or fibrous) in a fibrous stroma
- 5. Usually remain 1-2 cm
  - No cancer transformation
- 6. Treat: conservative surgical removal
- No recurrence

## 7. Special variant: Cutright tumor:

- Presumably secondary to continuing, low-level trauma
- Older persons
- Anterior maxillary alveolar midline
- Firm, sessile nodule under denture
- Treat: conservative surgical removal and fix denture (seldom recurs)

## Osseous choristoma (soft tissue osteoma):

1. Etiology: tumor-like proliferation of normal tissue (bone) in the wrong place

- 2. GAL:
  - None
  - Teens and young adults (probably started much earlier)
  - Tongue
- 3. Sessile, firm, painless mass with normal surface color or pallor
  - Painless
- 4. Micro: Normal but immature bone (perhaps with marrow) in fibrous stroma
- 5. Usually remain 1-2 cm
  - No cancer transformation
- 6. Treat: conservative surgical removal
  - No recurrence

## Metastasis to the oral cavity:

1. Etiology: metastatic spread from an extraoral source, usually carcinoma

- Usually from lung, breast and gastrointestinal cancers
- 1-2% of all oral cancers
- 2. GAL:
  - Moderate male predilection
  - Middle-aged and older
  - Gingiva, tongue
- 3. Firm, smooth-surface nodule with normal color
  - May have surface ulceration

– May be painful

- 4. Micro: same appearance as the primary cancer
- 5. Enlarge rapidly
  Eventually with surface ulceration
- 6. Treat: radical surgical excision, radiotherapy or chemotherapy
  Depending on the condition of the primary tumor and other metastases