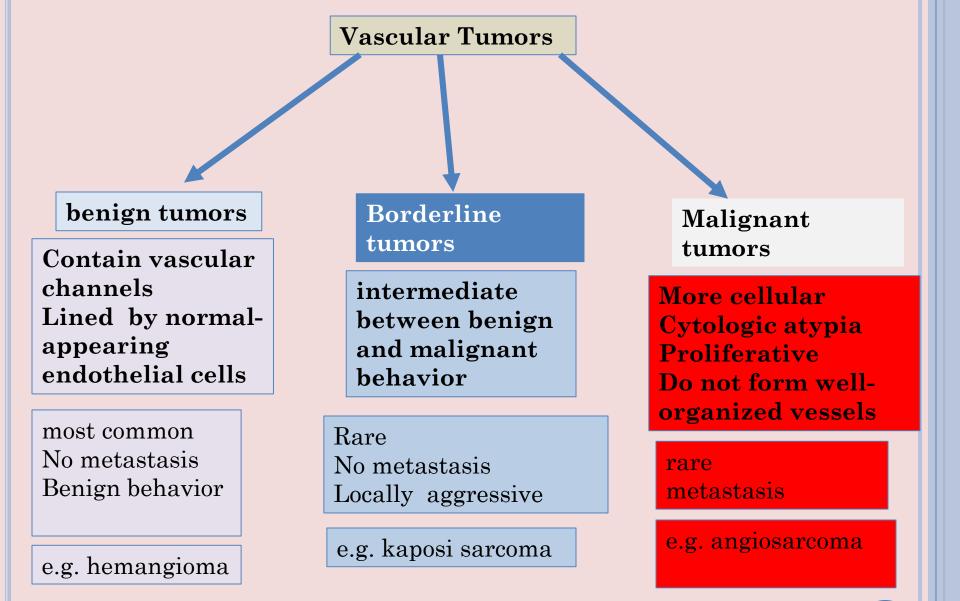
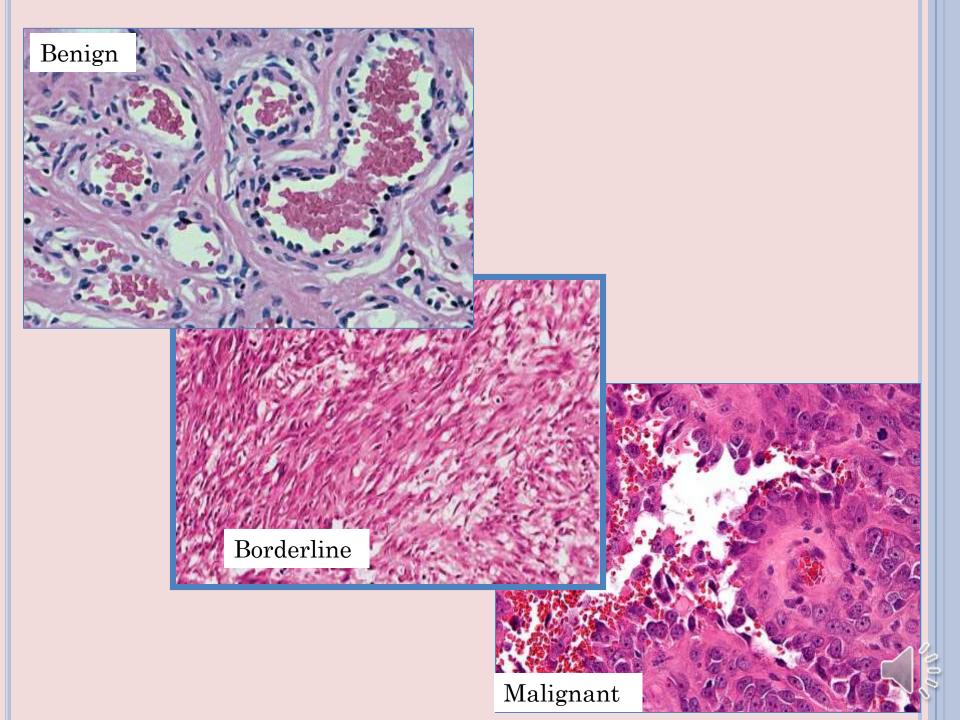


# **CVS** TUMORS

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NOMENCLATURE

- <u>Hem-</u>angi-oma
- <u>Lymph-</u>angi-oma
- Angiosarcoma



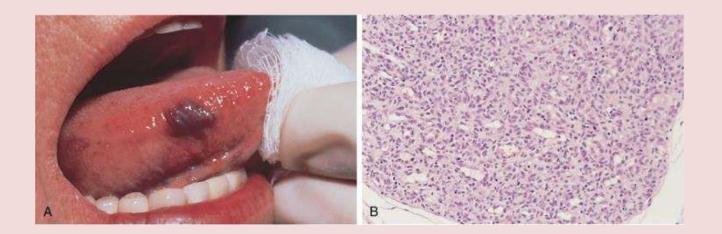
## **HEMANGIOMA**

#### o common

- composed of blood-filled vessels.
- m/c age: infancy & childhood
- Most are present from birth
- many regress spontaneously (↓ size)
- m/c location: head and neck
- Some in internal organs (1/3  $\rightarrow$  liver)
- Malignant transformation: very rare



- 1- Capillary hemangiomas :
- most common type
- skin and mucous membranes of oral cavity & lips



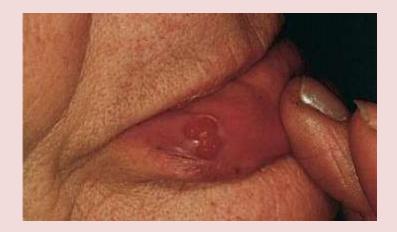


- 2- strawberry hemangiomas of newborn (juvenile hemangioma):
- m/c head & neck
- Usually regress with time





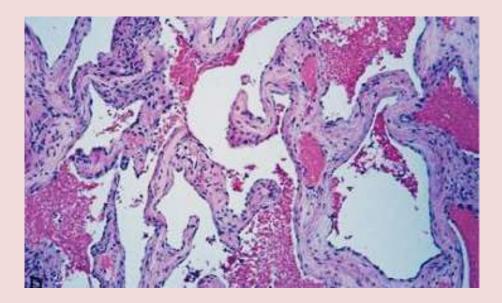
# 3- *Pyogenic granulomas:*rapidly growing pedunculated lesions on gingival mucosa 1/3 history of trauma





#### 4- Cavernous hemangiomas :

- large, dilated vascular channels
- deep organs (liver most common)
- do not spontaneously regress



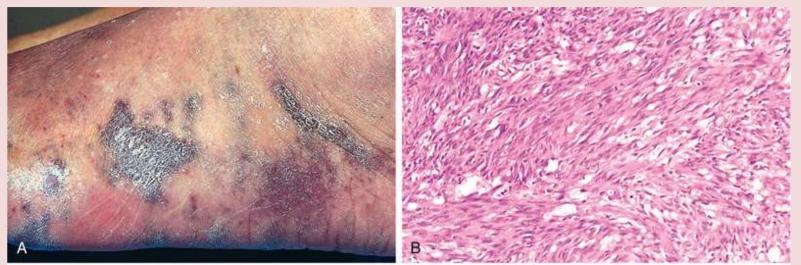
#### **INTERMEDIATE-GRADE (BORDERLINE) TUMORS**

## • Kaposi Sarcoma (KS)

- a vascular neoplasm caused by human herpesvirus- 8 = **HHV-8**
- Several types: classic; endemic; Transplantation-associated; and AIDSassociated;
- AIDS-associated (epidemic) KS is an AIDSdefining illness (used as a criterion for diagnosis of AIDS)
- the most common HIV-related malignancy



kaposi sarcoma: Multiple red-purple skin plaques or nodules, usually on the distal lower extremities; progressively increase in size and number and spread proximally



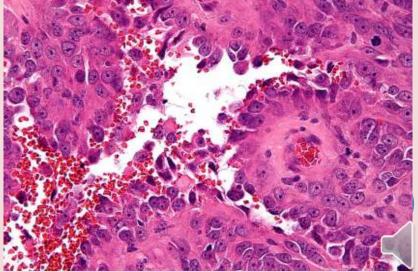
Kumar et al: Robbins Basic Pathology, 9e. Copyright © 2013 by Saunders, an imprint of Elsevier Inc.



### MALIGNANT TUMORS

#### o <u>Angiosarcoma :</u>

- lesions can occur at any site, but most often involve the <u>skin</u>, soft tissue, breast, and liver.
- Pathogenesis= ? <u>Carcinogens</u>; ?unknown
- A latent period between exposure and tumor development



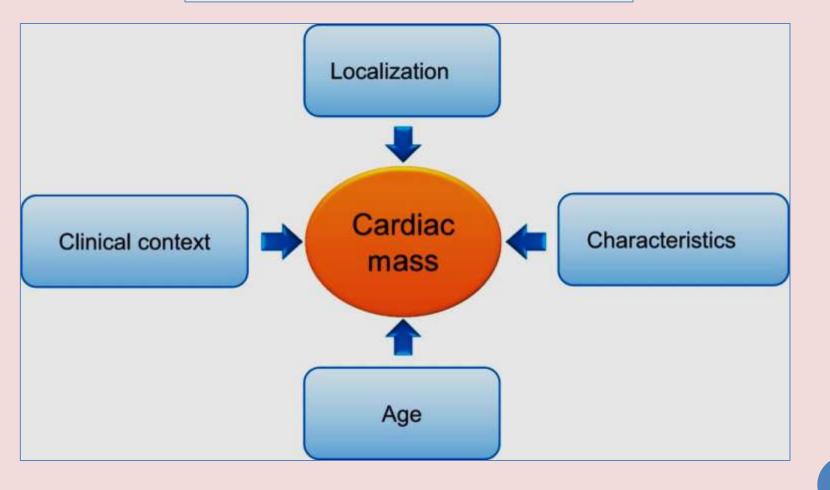
#### **RISK FACTORS OF ANGIOSARCOMA**

 • Chemical carcinogens→ liver angiosarcoma
 • Irradiation
 • Lymphedema→

- e.g. ipsilateral upper extremity several years after radical mastectomy with lymph node resection for breast cancer

•foreign bodies→ long-term (years)

#### **CARDIAC TUMORS**



## **CARDIAC TUMORS**

#### • <u>Very rare</u>

- <u>Metastatic Neoplasms are</u> the most common <u>malignancy of heart (</u>5% of patients dying of cancer).
- most common source → lung cancer
- Angiosarcomas → most common primary <u>malignant</u> tumor of heart.
- <u>Benign</u> tumors are also very rare but important for their critical location



CARDIAC MAGNETIC RESONANCE IMAGING (MRI)

#### **CLINICAL FEATURES AND SIGNIFICANCE**

- 1- "ball-valve" obstruction
- 2- Embolization
- 3- fever and malaise→ tumor elaboration of interleukin-6
- **Diagnosis**: Echocardiography
- **Treatment**: surgical resection in benign tumors.

