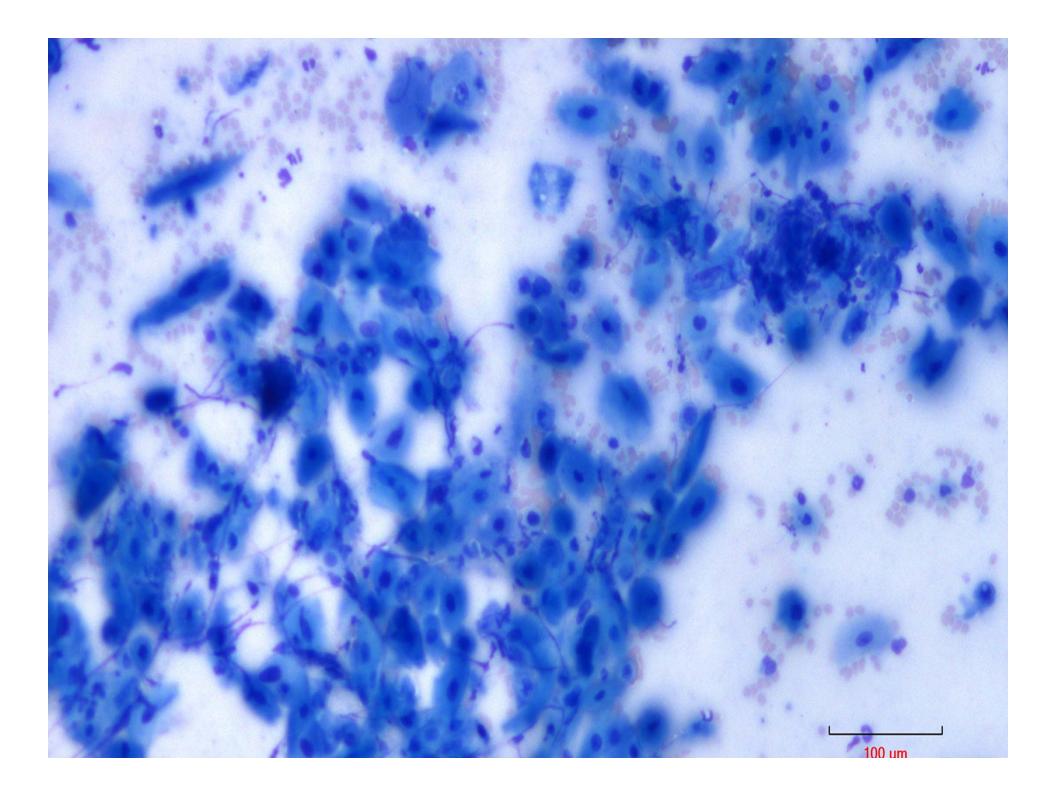
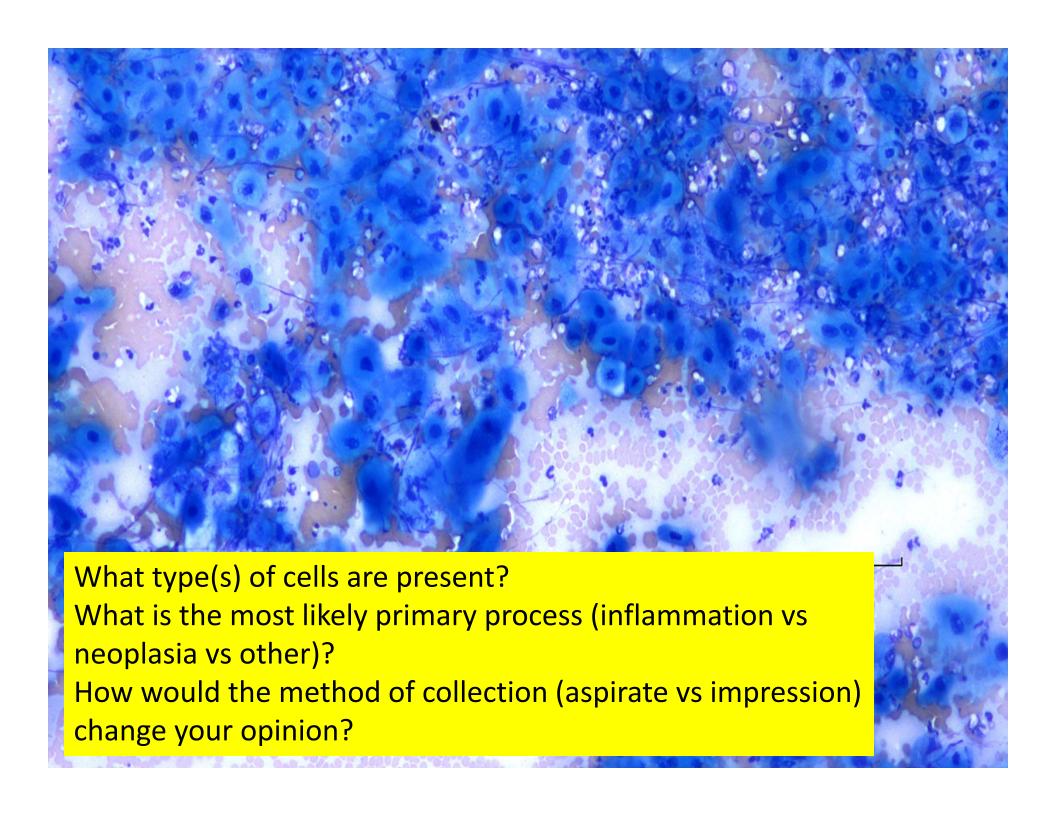
Aspirate from a tongue mass

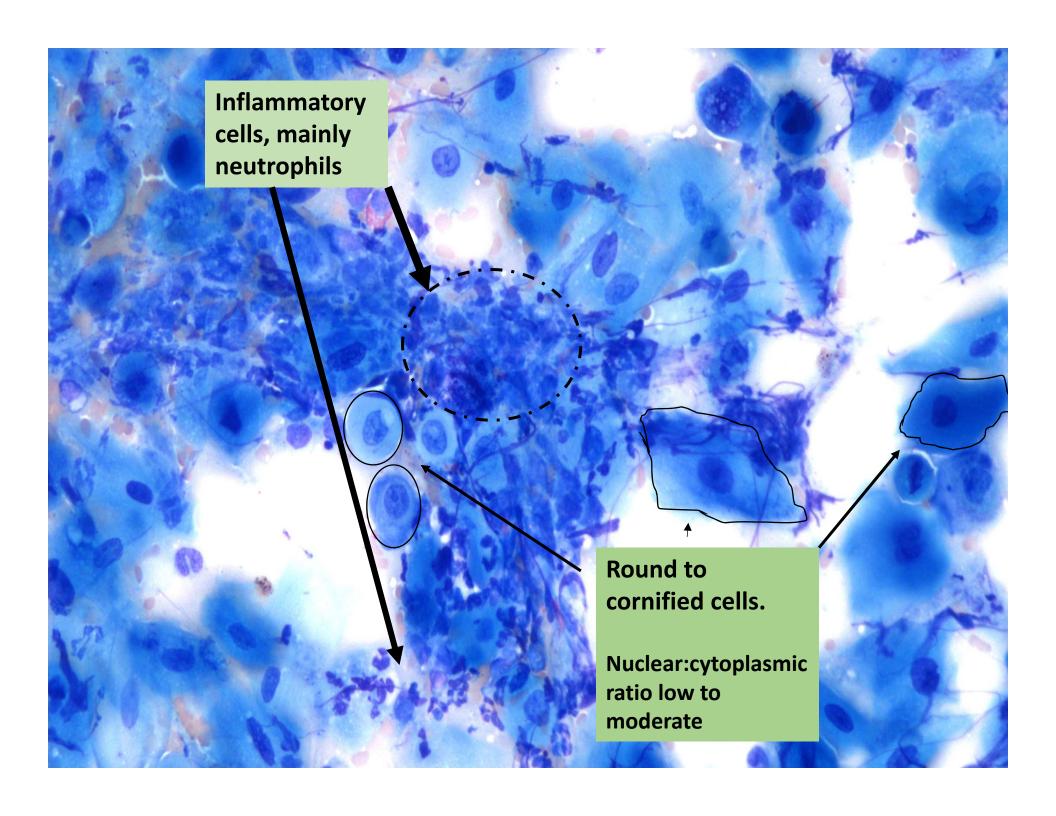
11.7 year old welsh corgi mix, male castrated

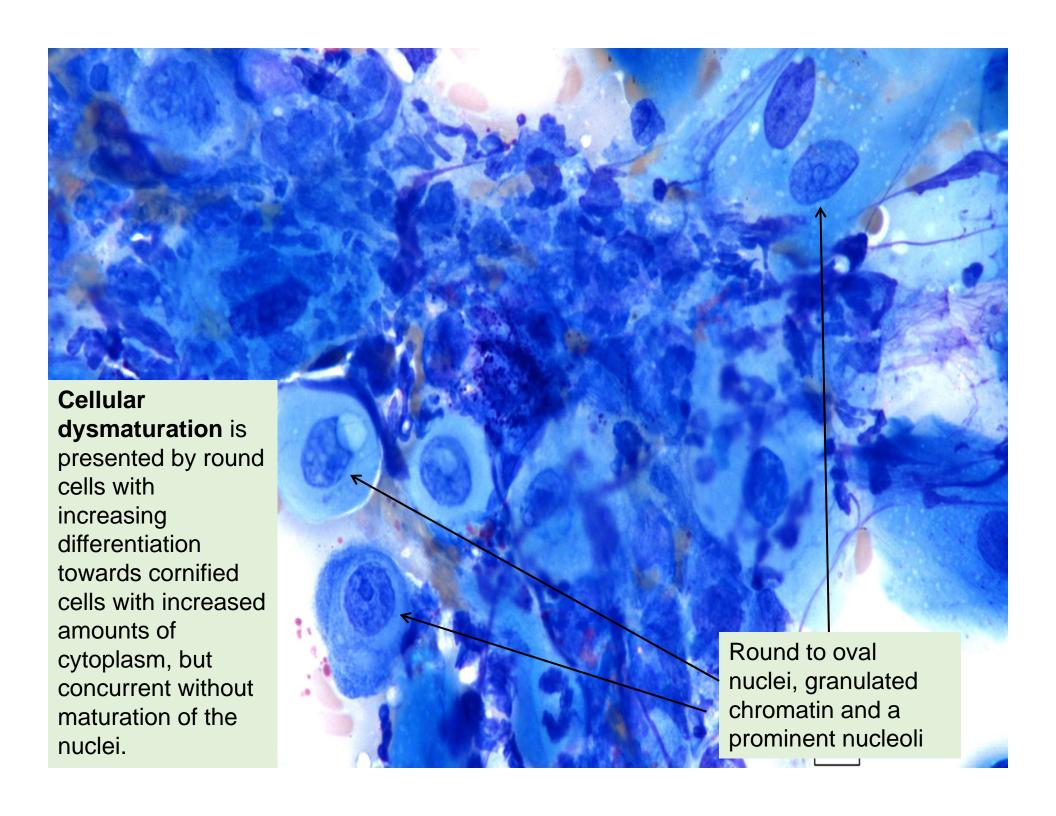
presented because of trouble eating

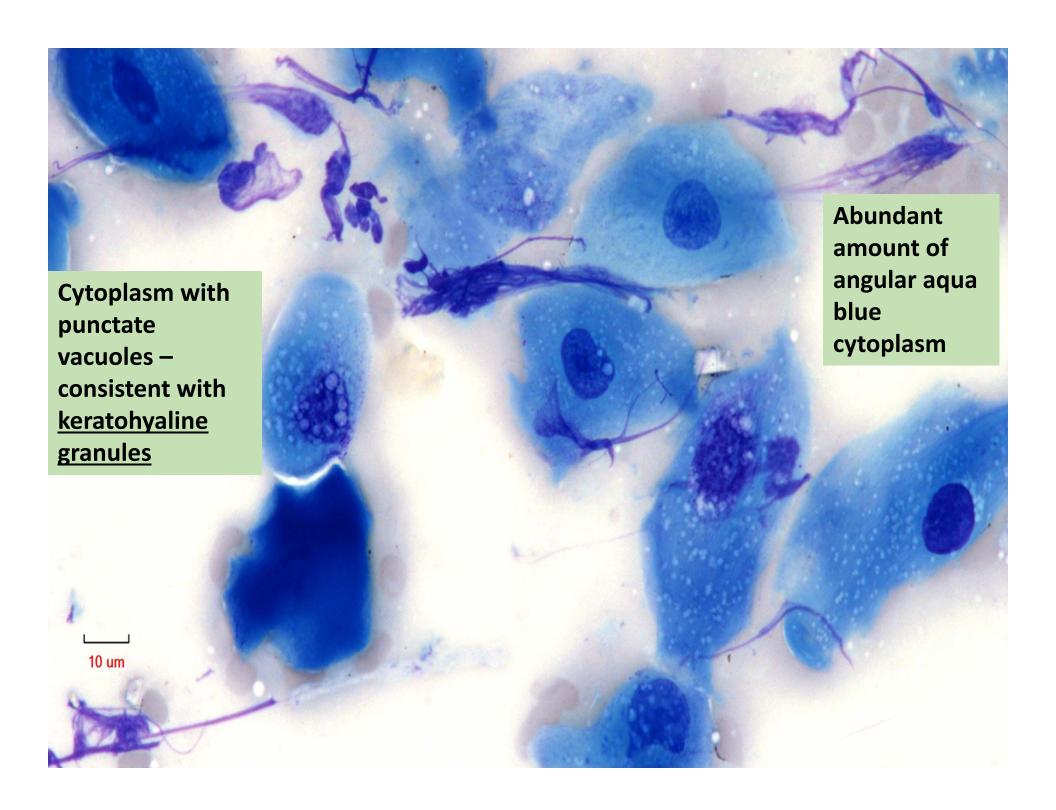
PE: mass near the center of his tongue with an area of 1*1 ulceration

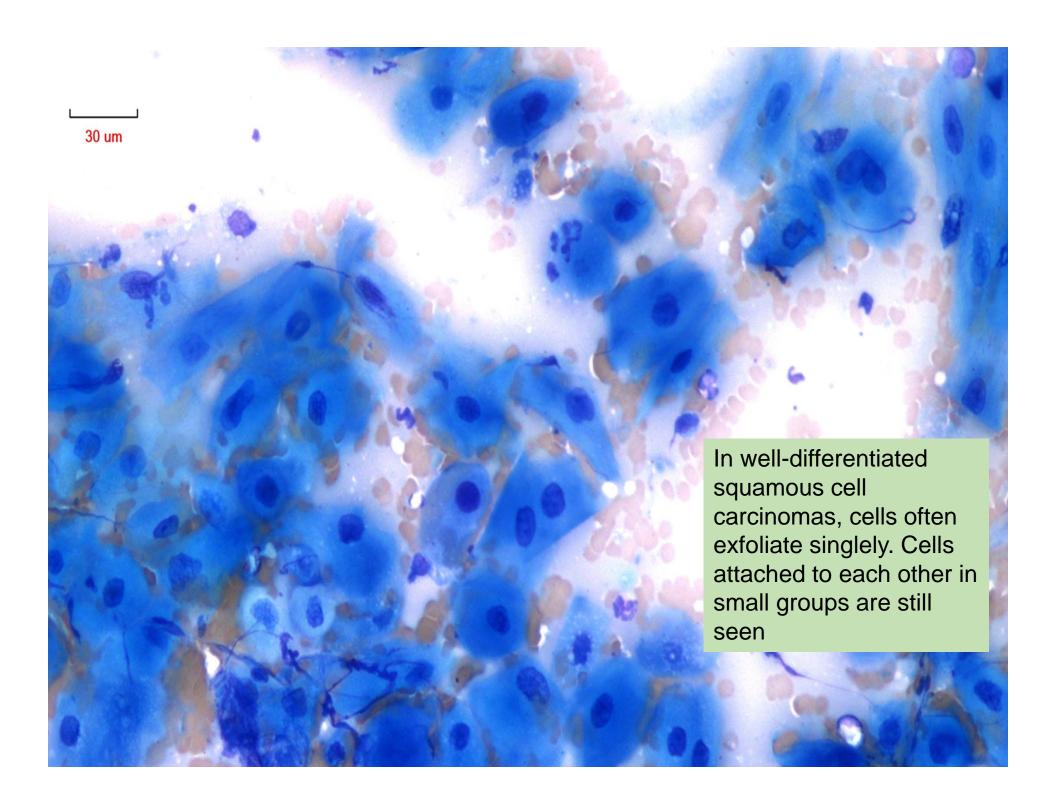












emperipolesis presence of an intact cell within the cytoplasm of another cell

In humans
emperipolesis is rarely
seen in benign lesions.
In domestic animals
there is not an
agreement on the
significance of
emperiopolesis. Though
they are commonly
seen in squamous cells
carcinoma

Squamous cell carcinoma

If the sample taken was a swab:
inflammation as a primary
process with squamous cell
hyperplasia of surface
epithelium could not be ruled

Discussion

- Squamous cell carcinomas are epithelial tumors commonly arising from the skin or organs with stratified squamous epithelium such as tongue, esophagus, pharynx, nasal septum, and uterine cervix.
- Method of collection is extremely important to the diagnosis of squamous cell carcinoma: For example, squamous cells normally line the epithelial surface of the tongue If this sample had been collected as an impression, the findings of inflammation and increased cellularity and atypical features of the squamous cell population could represent hyperplasia due to inflammation. But squamous cells are not expected to be found deep within tissue, therefore, knowing this sample was collected via tissue aspiration makes us confident of an atypical population and thus neoplasia.
- Don't forget: other lesions can contain squamous cells, incidental collections of skin, epidermal inclusion cysts, follicular tumors, etc. They will not always be representative of a carcinoma even when aspirates are taken!

Squamous cell neoplasia

- Oral squamous cell carcinoma is the second most common malignant oral neoplasia in dogs (after melanoma) and the most prevalent malignant oral neoplasia in humans.
- Mean age of dogs with lingual SCC was 10.7 years
- Tumor location in oral cavity and its association with survival time is discrepant across the literature, with some reporting no significant association to lingual tumors behaving more aggressively.
- The most common feline oral neoplasms are squamous cell carcinoma and fibrosarcoma. (Feline melanomas of the oral cavity are rare)
- The most common site for feline squamous cell carcinoma is the ventral portion of the tongue near the frenulum with early metastasis to the regional lymph node

<u>References</u>

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