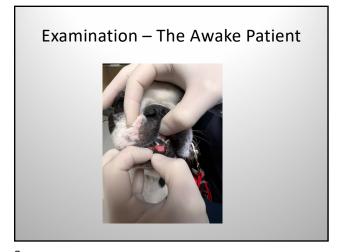
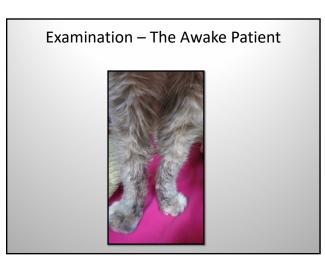
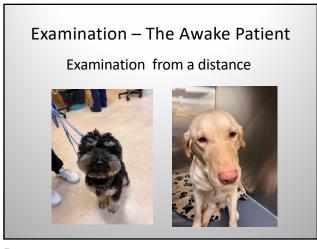
Canine and Feline Swellings and Masses

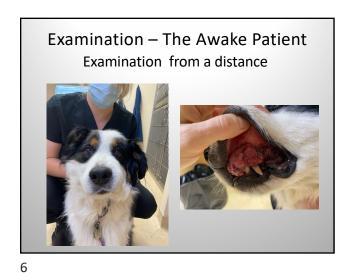
Dr. Angelica (Angie) Bebel, DVM, DAVDC West Coast Veterinary Dental Services, Vancouver, B.C Email: tembo4444@gmail.com Office Telephone: 604-473-3605



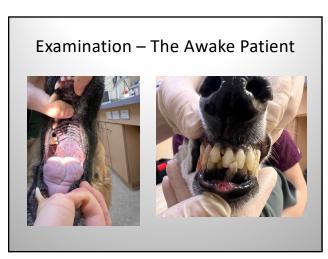
Examination – The Awake Patient Examine the entire patient, not just the mouth









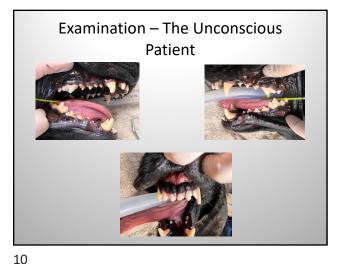


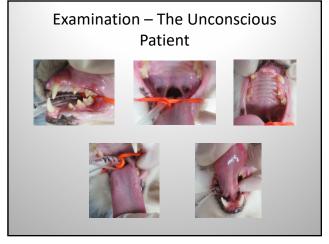
Examination – The Unconscious Patient

Sedation and/or anesthesia necessary in order to perform a thorough, in-depth oral examination

- · Caudal oral cavity
- Lingual/palatal surfaces surfaces
- Base of tongue, ventral tongue
- · Periodontal examination
- Intraoral, extraoral radiography
- Sample collection

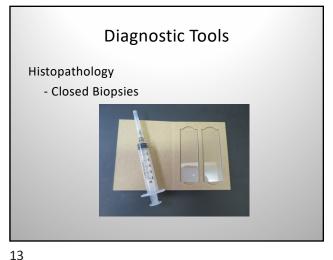
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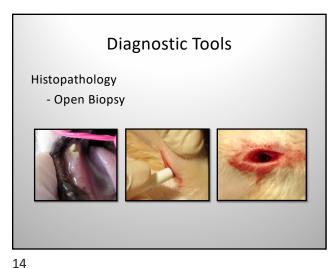




Diagnostic Tools Medical Imaging Intraoral/Extraoral dental radiographs Skull radiographs Computed tomography

11 12





Staging · Lymph node assessment - Fine needles aspirates - Lymph node biopsy (mandibular, medial retropharyngeal) Chest radiographs · Abdominal Ultrasound

Types of Oral Lesions

- Non neoplastic lesions
 - Reactive
 - Gingival hyperplasia (GH)
 - Do not use 'epulis' only descriptive, no further implication on the nature of the lesion
 - a proliferation of the attached gingiva, often due to a chronic inflammatory response to the bacteria in plaque, food impaction, dental malposition and dental resorptive lesion
 slowly progresses, if not complicated by trauma or secondary

 - infection

 it involves the marginal contour of the gingiva

 evolves and it can almost completely cover the crowns of the teeth
 - slowly growing painless (usually) enlargements tend to appear most commonly in areas occupied by teeth, not in edentulous areas.

Types of Oral Lesions • Non – neoplastic lesions – Reactive (GH) • Can be firm, example has osseous metaplasia

Types of Oral Lesions

- Non neoplastic lesions
 - Reactive
 - Drug induced gingival enlargement/gingival overgrowth
 - histopathology characterized by excessive accumulation of extracellular matrix proteins, such as collagen, or amorphous ground substance.
 - An inflammatory infiltrate dominated by plasmacytes and thickened keratinized epithelium is typically present.
 - There main types:
 - » phenytoin derivatives anticonvulsant, 50% incidence in people
 - » calcium channel blockers
 - » cyclosporine.

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Types of Oral Lesions

- Non neoplastic lesions
 - Focal fibrous hyperplasia (FFH)
 - Aka fibrous or fibromatous epulis
 - different from the peripheral odontogenic fibroma, which is a benign neoplastic lesion of odontogenic origin
 - common in dogs; in one study it was found to account for 43.5% of all 'epulis'-like lesions in dogs
 - usually a sessile lesion, smooth and pink, and not inflamed or ulcerated
 - It consists of dense fibrous connective tissue covered by stratified squamous epithelium

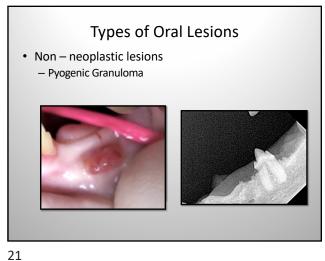
Types of Oral Lesions

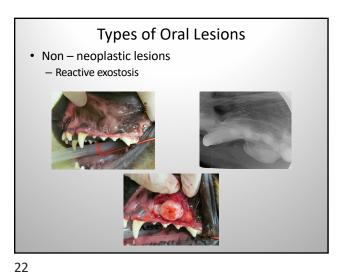
- Non neoplastic lesions
 - Focal fibrous hyperplasia (FFH)



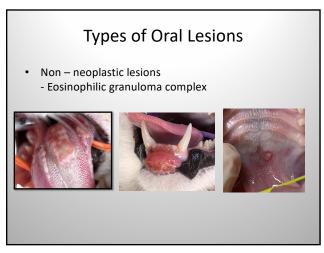


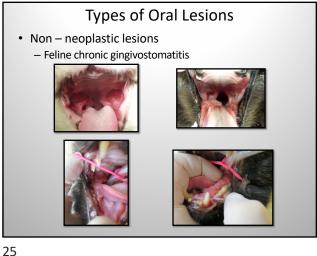
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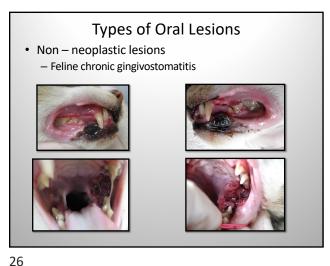












Oral Neoplasia

- Odontogenic, Non-odontogenic
 - Inductive (effects on surrounding mesenchymal tissues), Non-inductive
- Malignant (non-odontogenic)
 - Oral neoplasms: ~ 5-6 % of all canine neoplasms.
 - Malignant melanoma (MM), Squamous cell carcinoma (SCC), fibrosarcoma

Odontogenic Tumours

- Derived from epithelial, ectomesenchymal and/or mesenchymal elements that are involved in tooth development
- · Can be further characterized as inductive or non-inductive
- · Considered rare in domestic animals
- True incidence unknown due to constant changes in nomenclature

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Odontogenic Tumors

Canine Odontogenic Tumors

Epithelial Odontogenic Tumors

- Ameloblastoma (Central, Canine Acanthomatous Ameloblastoma or CAA)
- Amyloid-producing odontogenic tumors

Mesenchymal Tumors

- Peripheral odontogenic fibroma (POF)
 - » Many of the tumors previously described as fibromatous and ossifying epulides have been reclassified as peripheral odontogenic fibroma

Mixed Epithelial and Mesenchymal

0.4------

Odontogenic Cysts

Dentigerous cyst Radicular cyst

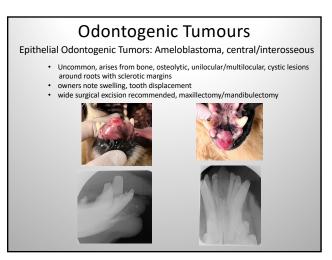
Keratogenic cyst

Odontogenic Tumours

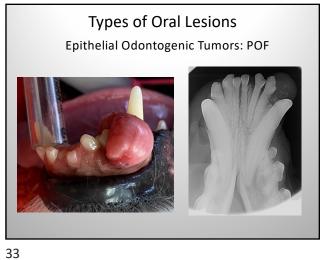
- Remain localized in the mandible or maxilla causing swelling and distortion
- Complete surgical excision, with 0.50 cm 1cm (2 cm) margins recommended and is usually curative, depending on the tumour
- Malignant odontogenic tumors in cats and dogs are rare

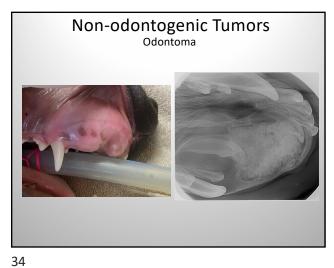
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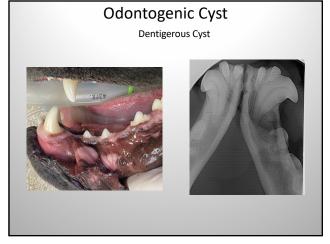
Odontogenic Tumours Epithelial Odontogenic Tumors: Canine Acanthomatous Ameloblastoma (CAA) Treatment: surgical excision at least 1 cm, radiation therapy may be helpful

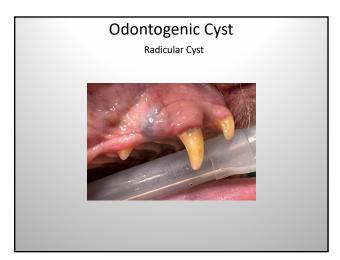


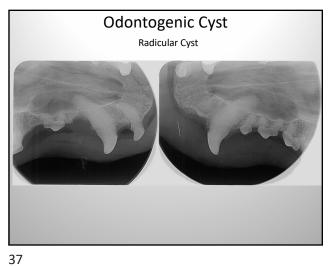
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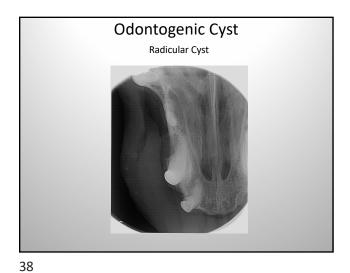


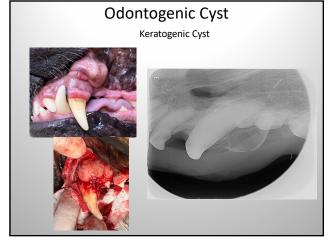


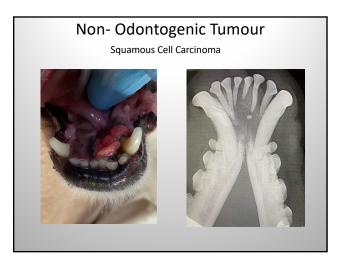




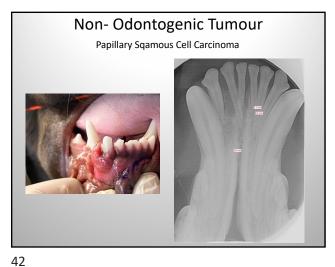




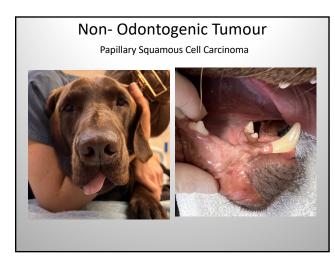






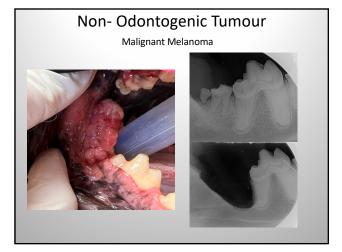


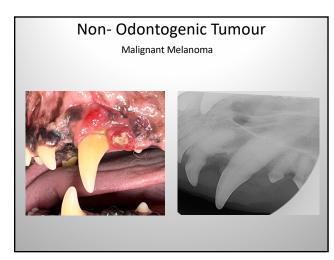






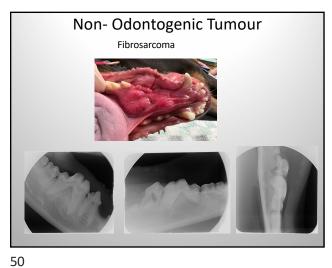






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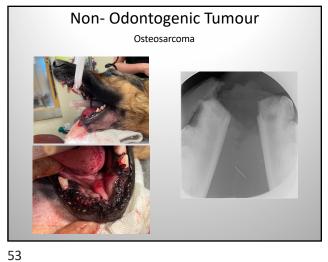




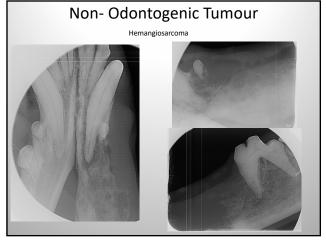


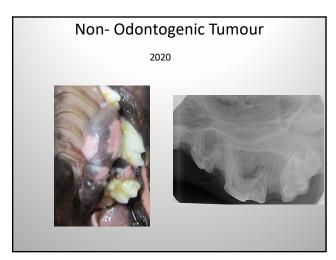


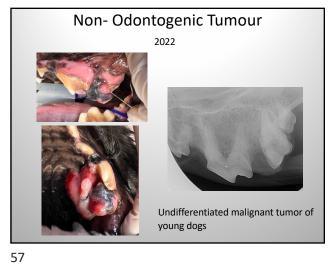
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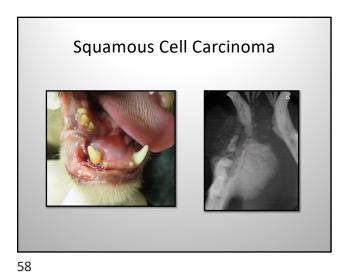


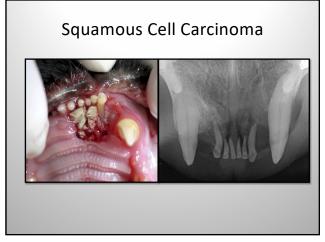


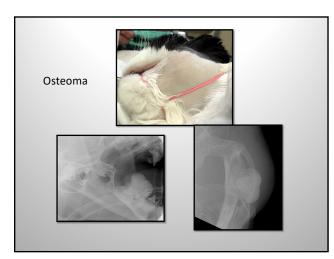


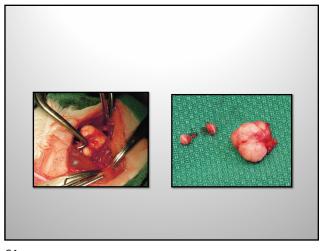












Summary

- Thorough history and complete physical and oral examination, both conscious and unconscious, are critical
- Oral examination should include dental radiographs
- Difficult to differentiate benign from malignant lesions histopathology
- Any swelling/mass should be biopsied

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