

Identification

- Owner identification
 - Visual
 - · Affecting maxillofacial symmetry
 - · Daily homecare
- Concurrent clinical signs
- Oral discharge/bleeding/drooling/changes in eating and/or behavior
- Veterinary identification
- Conscious examination
- During COHAT

Cornell University Veterinary Specialists

1 2

Differentials

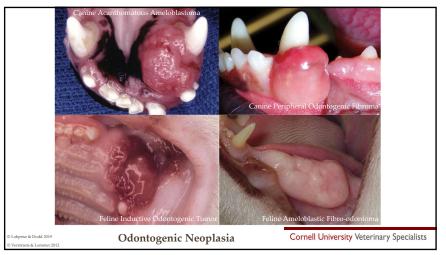
- Neoplastic mass
- Non neoplastic mass
- Odontogenic Cyst
- •Odontogenic Infection
- Non-odontogenic Infection

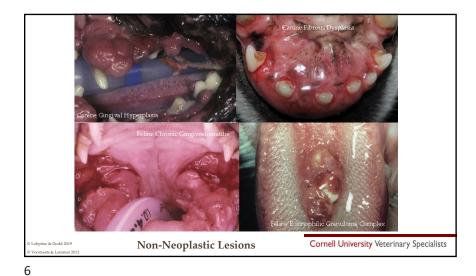
Cornell University Veterinary Specialists



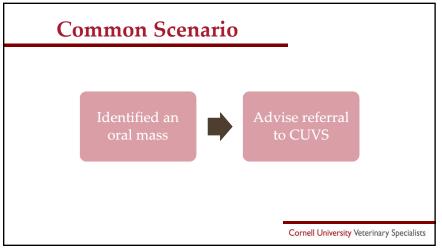
3

11th Annual Continuing Education Conference – January 2022









7

Immediate Referral

• Why not?

9

- •Is it necessary?
- · Pathology of the mass
- Experience of the veterinary surgeon
- Facilities available to the veterinary surgeon
- •Resources of the client?
- •Motivations of the client?
- Availability of specialist?
- •Limitations of specialist?

Cornell University Veterinary Specialists

Alternative Scenario

Examination

Documentation

Diagnostic Imaging

Biopsy

Histopathology

Cornell University Veterinary Specialists

10

Client Communication

Unknown Oral Mass

• Characterization required by sampling

• Limitations of FNA in the oral cavity
• Conscious examination limits oral mass and oral health
evaluation

• Limitations of sedated biopsy
• Limitations of sedated examination

• Cohart

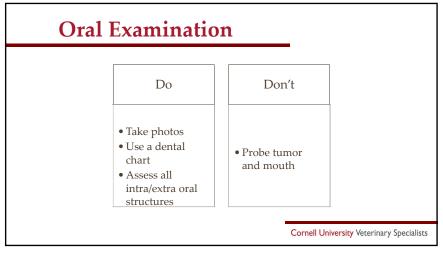
• General Anesthesia for Comprehensive Oral Examination
• Dental Radiographs (minimum of mass)
• Biopsy of mass

Cornell University Veterinary Specialists

Importance of the COHAT

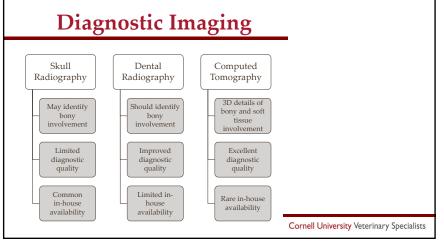
- General Anesthesia
- Safety
- Control
- Allows for comprehensive approach
- Comprehensive Oral Examination
 - Accurately assess oral mass
- Assess overall oral health
- Very useful for the vet receiving referral
- Radiography
- Assess potential bony involvement
- Assess extent of oral mass
- · Assess overall oral heath

Cornell University Veterinary Specialists



Concurrent Oral Disease • Periodontal/Endodontic/Tooth Resorption • To treat or not to treat? Pro's Con's • \$\$\$ · Elimination of disease · Elimination of · Time consuming pain/discomfort · Risk of interfering with • Reduce complications tumor site with surgery and · Risk of seeding tumor Cornell University Veterinary Specialists radiation

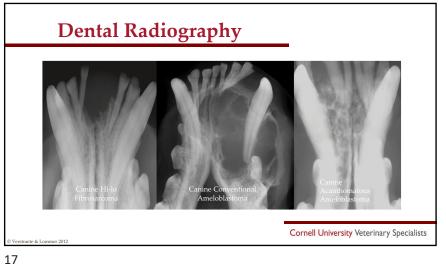
13 14

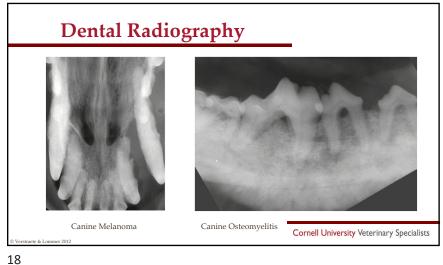


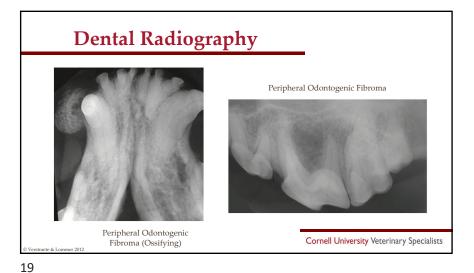
Feline Multilobular Osteochondrosarcoma

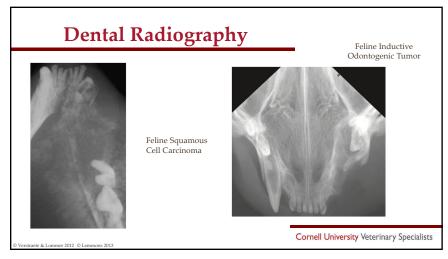
Canine Osteosarcoma

Cornell University Veterinary Specialists

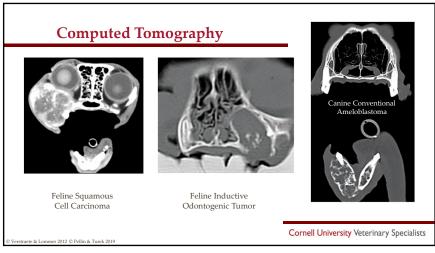


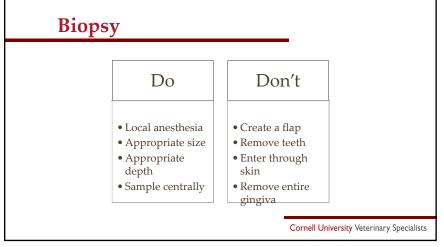






20





21 22

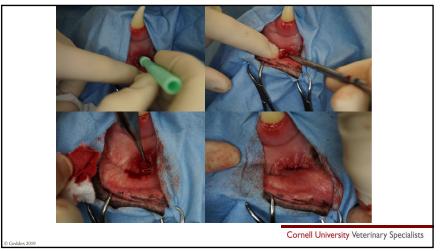
Biopsy Techniques Soft Tissue Hard Tissue • Punch biopsies • Osteotome + Mallet • Trephine • 2mm minimum depth • Rongeurs • 3mm minimum size • High Speed Bur • Suture 4/5-0 • 2mm minimum absorbable depth monofilament • 3mm minimum size simple interrupted Cornell University Veterinary Specialists

Hemostasis

- Always attempt to place sutures
- Typically sufficient
- Digital pressure
- Patience
- · Chemical cautery
- · Last resort
- Battery operated cautery
- Radiosurgery/Electrosurgery

Cornell University Veterinary Specialists

11th Annual Continuing Education Conference – January 2022



Gingival Masses & Sampling

- Not always benign and non-invasive
- Respect the periodontium

26

28

• Refer to Dentist if out of comfort zone





Cornell University Veterinary Specialists

25

Gingival Biopsy Technique

- Debulk mass with blade or radiosurgery
- Gingivoplasty with diamond bur or radiosurgery
- Preserve
- Gingival height
- Gingival thickness
- Restore gingival contour



Cornell University Veterinary Specialists

Gingival Biopsy Technique



27

Gingival Biopsy Technique



Cornell University Veterinary Specialists

Low caseload

Difficulties in Oral Histoprahology

Quality of biopsy samples

Cornell University Veterinary Specialists

29

Submitting Histopathology

- · Label anatomical site correctly
- Provide
- Photos
- · Diagnostic imaging
- History
- Differentials
- Samples
- · Large enough
- More than one if possible
- · Consider separate lab for your oral histopathology

Cornell University Veterinary Specialists

Post-Operative Care & Follow Up

Subtlety of

- Oral rest
- 2 weeks
- Soft food
- No toys
- Analgesia
- •~1 week
- NSAID
- Opioid (Cats)
- •+/- Gabapentin

- Oral recheck examination
 - 2 weeks post procedure
- Histopathology
 - Utilize CUVS for consultation

Cornell University Veterinary Specialists

31

32

30

Take Home Points

- Assessment/diagnosis often within primary practice capabilities
- Importance of COHAT
- Diagnostic imaging is essential
- Considered biopsy approach
- · Challenges of oral histopathology
- We are always here to help!

dentistry@cuvs.org

Cornell University Veterinary Specialists

References

- Shyamala K, Girish HC, Murgod S. Risk of tumor cell seeding through biopsy and aspiration cytology. J Int Soc Prev Community Dent. 2014;4(1):5–11.
- Decker AM, Taichman LS, D'Silva NJ, Taichman RS. Periodontal Treatment in Cancer Patients: An Interdisciplinary Approach. Curr Oral Health Rep. 2018;5(1):7–12.
- Irie MS, Mendes EM, Borges JS, Osuna LG, Rabelo GD, Soares PB. Periodontal therapy for
 patients before and after radiotherapy: A review of the literature and topics of interest for
 clinicians. Med Oral Patol Oral Cir Bucal. 2018;23(5):e524–e530. Published 2018 Sep 1.
 doi:10.4317/medoral.22474
- Razek AA. Imaging appearance of bone tumors of the maxillofacial region. World J Radiol. 2011;3(5):125–134.
- Poh CF, Ng S, Berean KW, et al. Biopsy and histopathologic diagnosis of oral premalignant and malignant lesions. J Can Dent Assoc 2008;74:283–8.
- Moule I, Parsons PA, Irvine GH. Avoiding artefacts in oral biopsies: the punch biopsy versus the incisional biopsy. Br J Oral Maxillofac Surg 1995;33: 244–7.

Cornell University Veterinary Specialists