Dentistry in the Pediatric and Juvenile

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Pediatric and Juvenile Oral Examination

- Why is this important?
 - Dental problems are not limited to our older or senior patient
 - o Recognizing abnormalities early allows for treatment sooner to prevent more serious complications
 - o Many conditions are painful



Canine Dentition

- Deciduous Dentition
- 28 deciduous teeth
 - 12 incisors 4 canines

 - 12 premolars 0 molars
- · Permanent (Adult) Dentition
- 42 adult teeth
 - 12 incisors
 - 4 canines
 - 16 premolars 10 molars
- Variations in eruption schedules







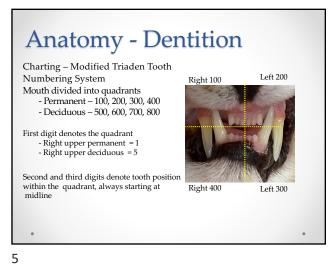
- Deciduous Dentition
- 26 deciduous teeth
 - 12 incisors 4 canines

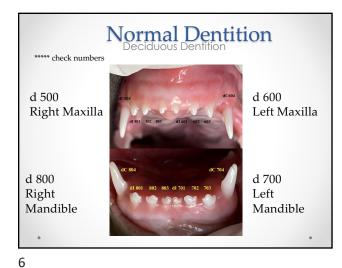
 - 10 premolars
- · Permanent (Adult) Dentition
- 30 adult teeth
 - 12 incisors - 4 canines
 - 10 premolars 4 molars
- All should be present by 6 months

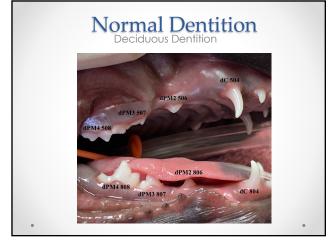




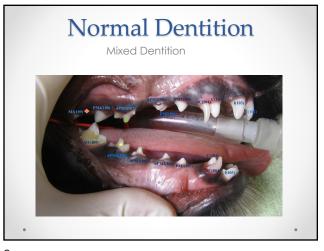
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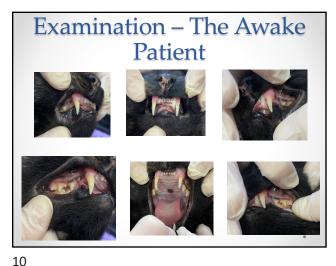






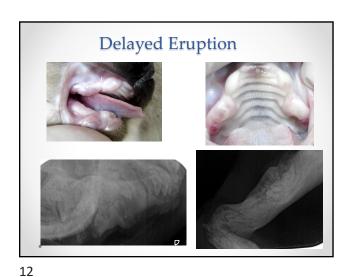






Delayed Eruption

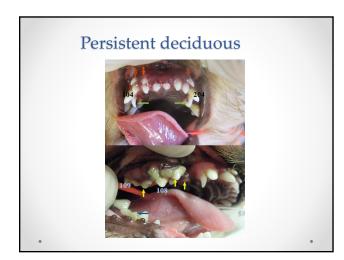
- The dentition and anatomy of the mouth is constantly changing
- Thorough examinations at every puppy or kitten visit necessary
- By 8 weeks, all deciduous teeth should be erupted.
- By 6-7 months, all adult teeth should be erupted (cats by 6 months).
- Some cases, these teeth may fail to erupt
- Radiograph any areas with missing teeth on oral examination.
- Monitor exfoliation general rule: two of the same tooth should not occupy the same spot at the same time

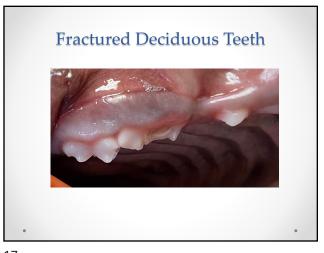


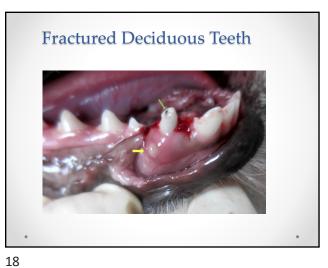


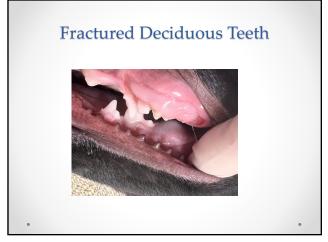


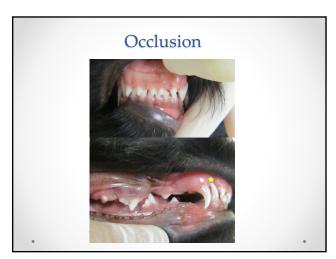












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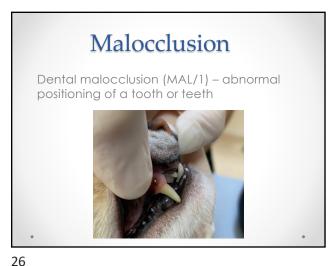


Dental Malocclusion (MAL/1) • Described according to the direction the tooth placed o Labial(LAB) o Mesial (MV) o Distal (DV) Lingual(LV)Palatal



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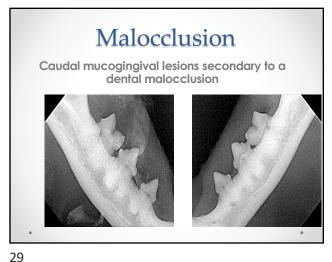


Malocclusion

Caudal mucogingival lesions secondary to a dental malocclusion

- Cats
- Reactive oral lesions secondary to occlusal trauma
 congenital or acquired malocalusion
- Gingival and mucosal lesions result of contact between the maxillary fourth premolar tooth and the mandibular tissues
- have been described as granulation tissue, inflammatory polyps and pyogenic granulomas

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Malocclusion

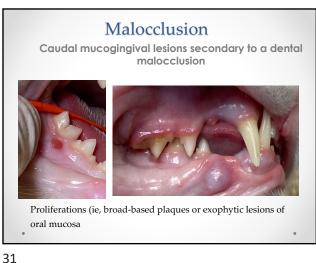
Caudal mucogingival lesions secondary to a dental malocclusion

Causes

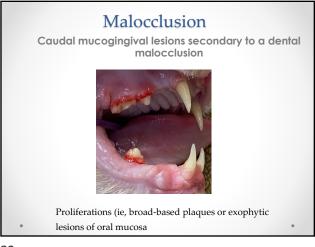
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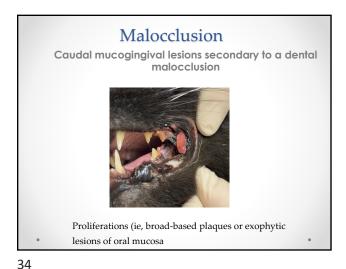
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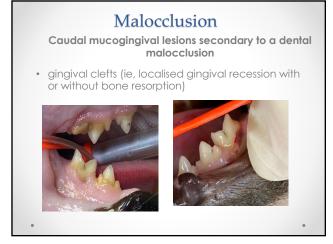
- o Congenitally acquired malocclusion, brachycephalic Acquired
 - Proposed occlusal drift(teeth migration in coronal direction) = seen in humans, worsened after teeth removed. Cats?
 - o Alterations of the periodontal ligament and cement of the mandibular premolar and molar teeth, indicative of a possible distal drift, have been reported in feline patients.
 - Hypercementosis, narrowing of the periodontal space and alveolar bone expansion of the premolar and molar teeth (as well as maxillary canine teeth) = periodontal growth (or segmental alveolar bone growth),



Malocclusion Caudal mucogingival lesions secondary to a dental malocclusion Proliferations (ie, broad-based plaques or exophytic lesions of oral mucosa

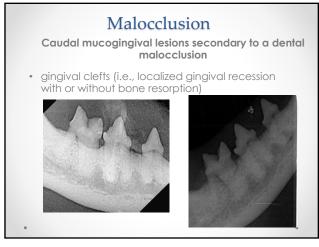


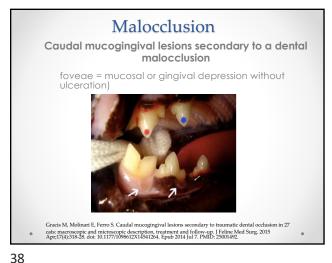


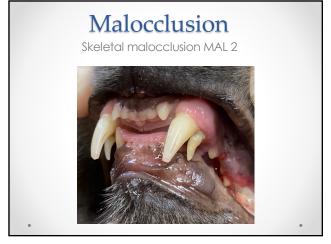


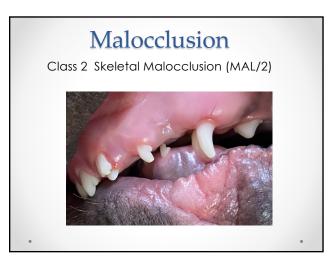


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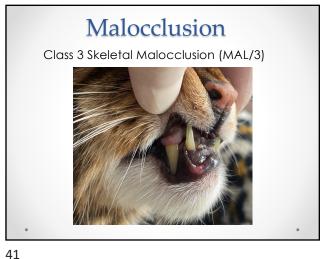




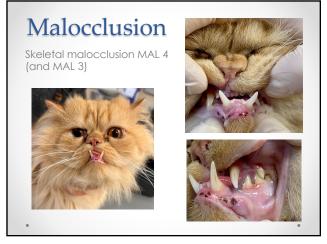


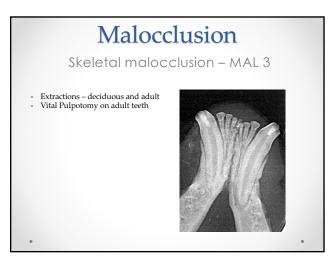


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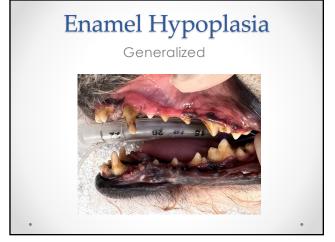


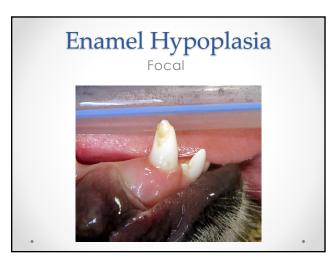
Treatment Options:

- Extractions deciduous and adult
- Vital Pulpotomy on adult teeth



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Oral Inflammation

Gingivitis versus Periodontitis

- · Both are types of periodontal disease
- Gingivitis = inflammation of the gum tissue due to reaction to plaque bacteria
 - swollen gums
 - bright red gums
 - bleeding gums
- · Periodontitis = inflammatory disease of the supporting structures of teeth or periodontium:

 - Gingivaperiodontal ligamentalveolar bone

 - cementum



Oral Inflammation

Gingivitis versus Periodontitis

- Clinical feature that distinguishes periodontitis from gingivitis is the presence of clinically detectable attachment loss (loss of periodontium)
 - o gingival recession
 - o bone loss (height and density)
 - ligament loss

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- periodontal pocket formation
- Gingivitis is reversible, periodontitis is not (needs help)





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Oral Inflammation

Feline Juvenile Gingivitis/Juvenile Hyperplastic Gingivitis

- Pronounced focal or generalized inflammation of the gingival tissues in young cats
- Diagnosed between 7-10 months of age
- · Possible causes:
 - · exaggerated tooth eruption inflammation
 - Viral exposure (FeLV, FIV, Calici) · Immune- mediated disorders
 - · Multifactorial response
- · Generalized inflammation does not
- to the surrounding mucosa
- Typically do not see periodontitis changes
- Retained deciduous





Oral Inflammation

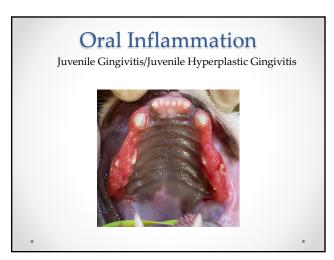
Feline Juvenile Gingivitis/Juvenile Hyperplastic Gingivitis

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Oral Inflammation

Juvenile periodontitis

- Usually occurs before 8 months of age
- Siamese, Main Coon, and domestic shorthaired cats are predisposed.
- Most common presenting sign is halitosis at the time of permanent tooth eruption.
- Oral examination reveals marked generalized inflammation of the marginal gingiva extending to the attached gingiva.
- Closer examination under general anesthesia will usually reveal marked incisor mobility, as well as gingival recession, periodontal pocketing, and furcation exposure of the cheek teeth





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