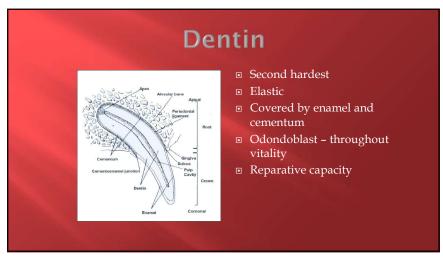


Enamel

□ Hardest tissue
□ Very brittle
□ 0.1 - 1.0 mm
□ Humans 5-10x
□ Impermeable
□ Not regenerative
□ Mostly inorganic

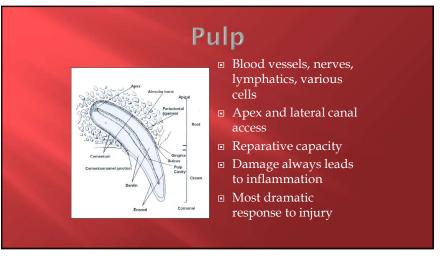
5



Dentin

Permeable
30,000 - 40,000 tubules mm
70% Inorganic
30% Organic (collagen)
Intimate association with pulp

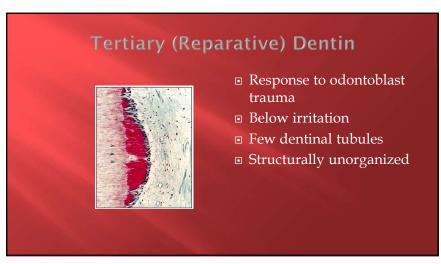
7



Dentin-Pulp Complex

Odontoblasts
Odontoblastic processes
Nerve fibers
Dentin tubule fluid
Contact with anything > pain

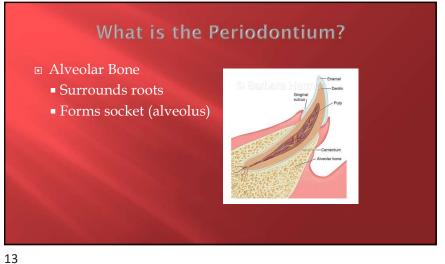
9 10



What is the periodontium?
("Around the Tooth")

□ Gingiva
□ Cover crown base & alveolar bone
□ Protective
□ Sulcus - Battlefield
□ Normal sulcus
□ 1-3 mm dog
□ < 0.5 mm cat

11 12



What is the Periodontium? Cementum Outer root surface Seals dentin tubules Anchored to AB by the periodontal ligament

14

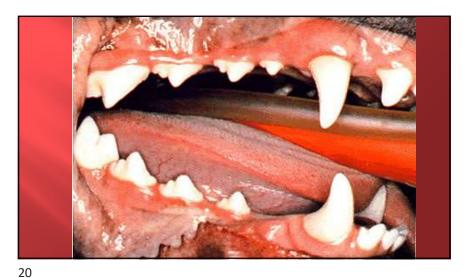
## What is the Periodontium? ■ Periodontal Ligament (PDL) Connective tissue Multipurpose Between tooth and bone Supports each Pain perception

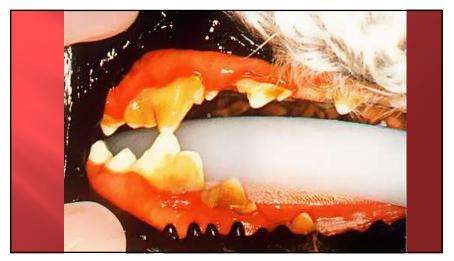
Why do we care about the periodontium?



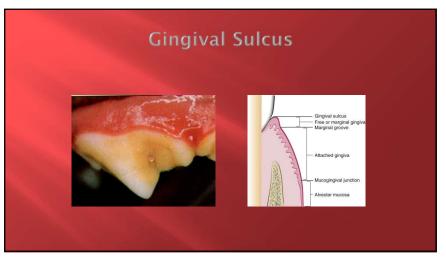
When does periodontal disease







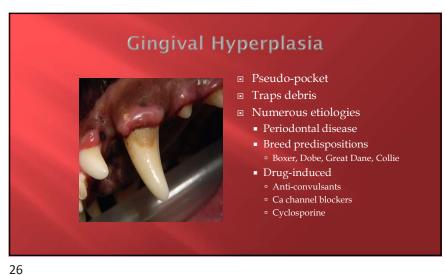




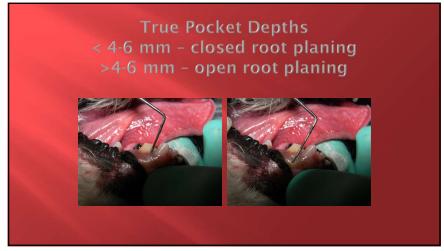


23











Stage 4 Periodontal Disease

Advanced periodontitis (failure)

> 50% attachment loss
Furcation exposure
Deep pockets
Exfoliation
How painful was it to get to this stage???

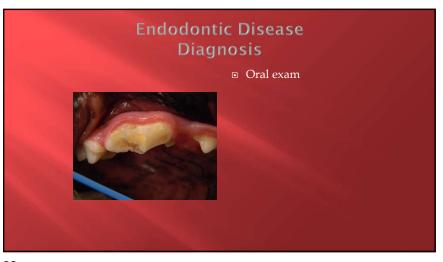
29





31

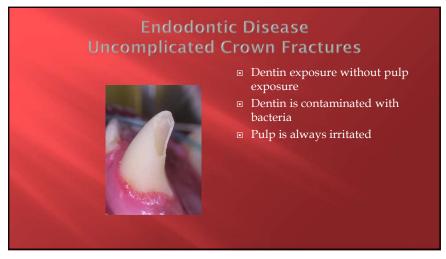
Q



Endodontic Disease
Diagnosis

Oral exam
Radiographs
Essential tool
View into the past
40-60% cortical bone loss needed
Periapical lesions may never be observed

33



Treatment
Uncomplicated Crown Fractures

If vital (alive)
Smooth fracture
Apply bonded sealant

Endodontics (root canal)
Extraction (toothanasia)

35



Endodontic Disease
Discolored Teeth

Are they dead?

37



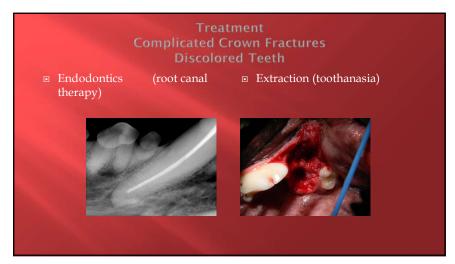
Discolored Teeth
Diagnosis

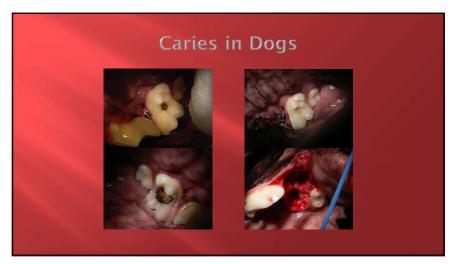
Oral Exam
Radiography
Possible wide canal
Possible PAL
Possible normal rad
Key: Canal does not dilate with endo ds
Key: Canal stops narrowing with endo ds

39

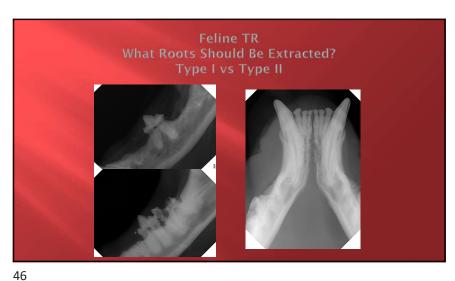










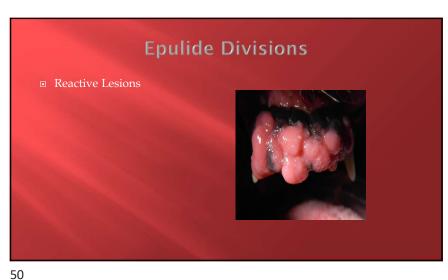


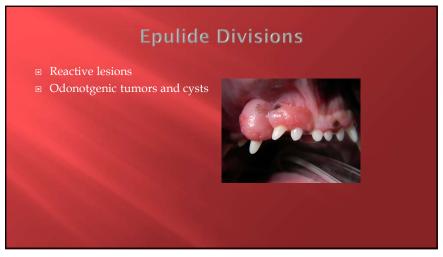
## Oral Neoplasia It's never "just" an epulis! Benign epulides Peripheral odontogenic fibromas Canine acanthomatous ameloblastoma Malignant Melanoma SCC FSA OSA OSA Mast cell HSA

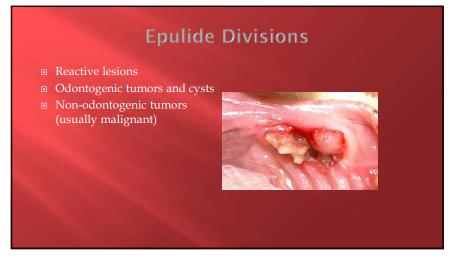


47

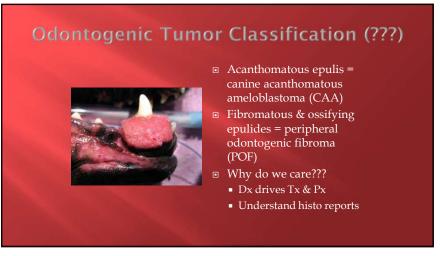








51 52



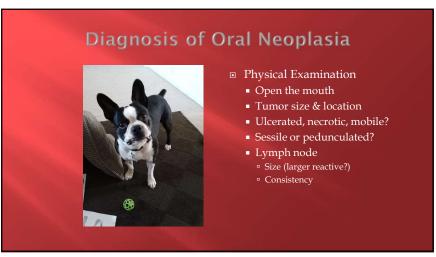
contains
minimal or negligible in

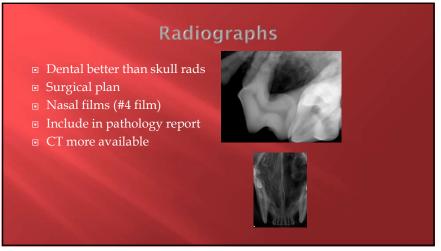
RE: 2000 MICROSCOPIC INT
MICROSCOPIC INTERPRETATI

Epulis

RE: 2007 PATHOLOGIST
PATHOLOGIST

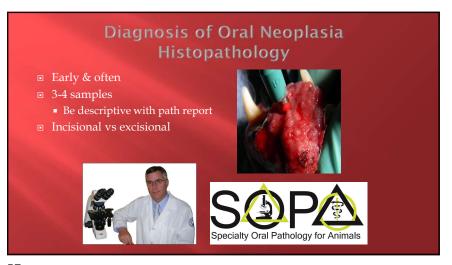
53



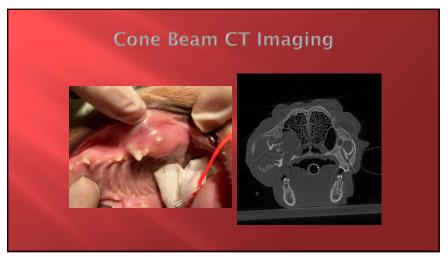


55

1/









59

























71 72



