

Dental Service to Improve Feline Overall Health

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www.denvervetdental.com

All of these owners trust us to improve their cat's health.



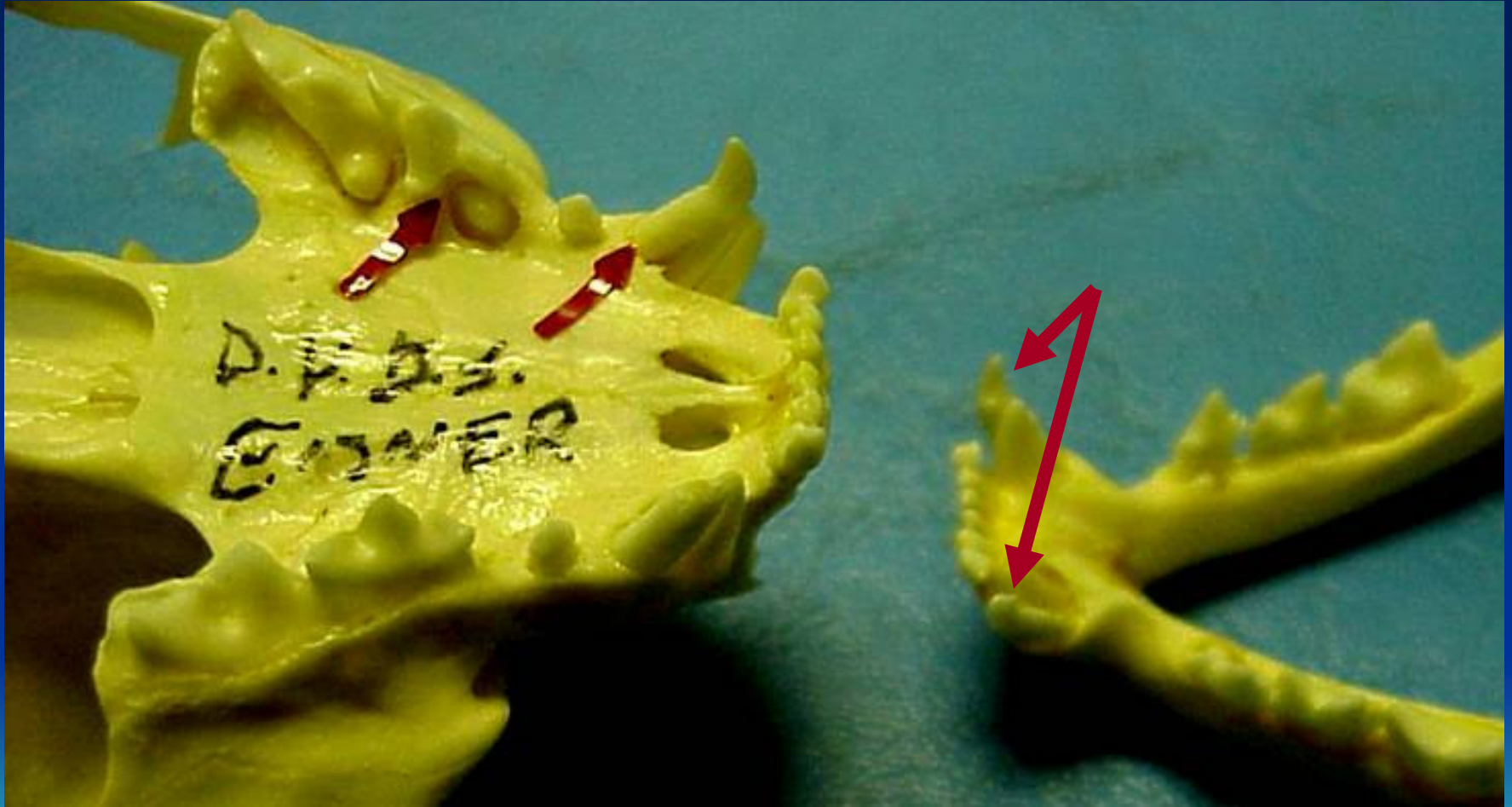
Feline Pediatric Dental Care

- ☆ 8 weeks of age – 1st exam.
 - ☆ 12 weeks of age – 2nd exam.
 - ☆ 16 weeks of age – 3rd exam.
 - ☆ 6 months of age – 4th exam and provide juvenile dental care, with fluoride.
- Developmental defects and malocclusions
 - Persistent or fractured deciduous teeth
 - Unerupted, crowded & rotated adult teeth
 - Inflammatory problems

Listen, Examine, then Share

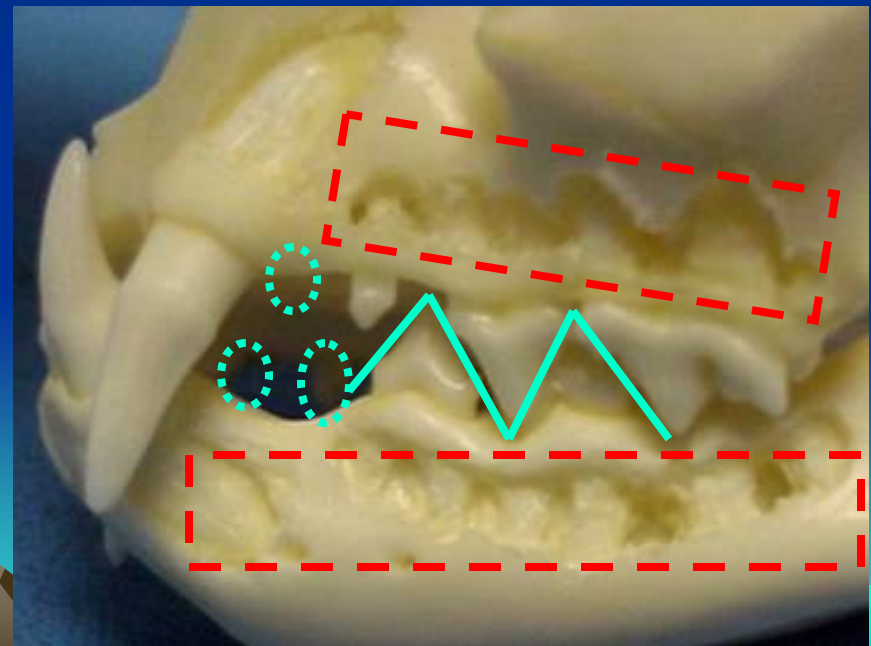
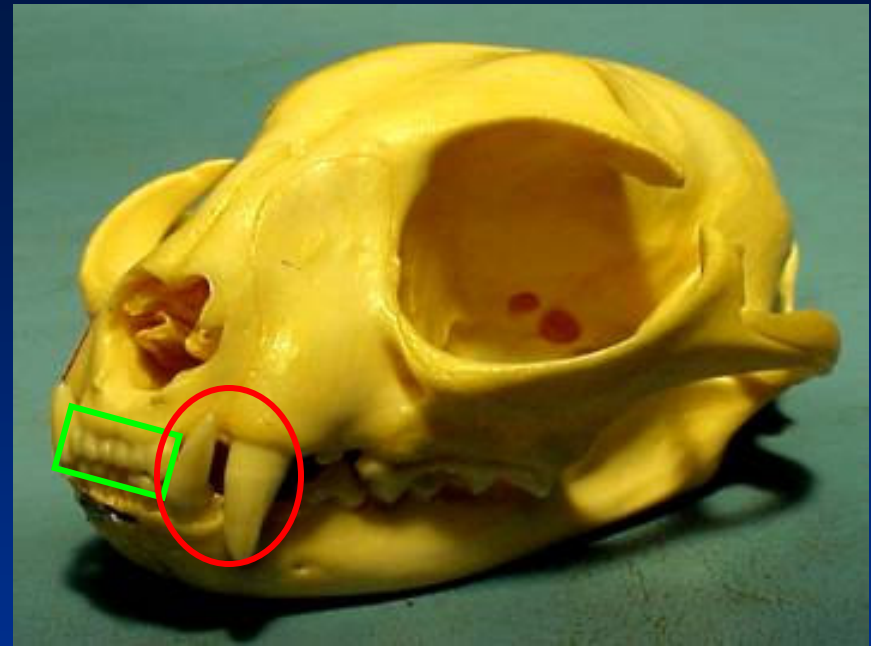


Feline deciduous teeth are oriented similarly to those in dogs



Normal Feline Occlusal Anatomy

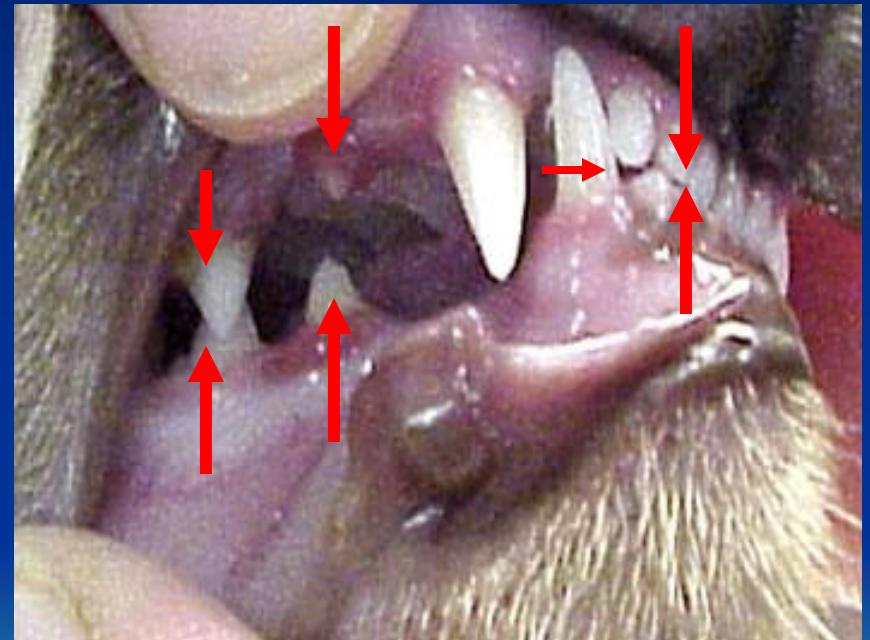
- 30 adult teeth
- Scissor incisal bite
- Healthy dental interlock
- Anisognathic cheek teeth
- Interdigitating premolar relationship



Early is the right time for examination

5-month old Siamese "Esmeralda"

Class III Level bite >



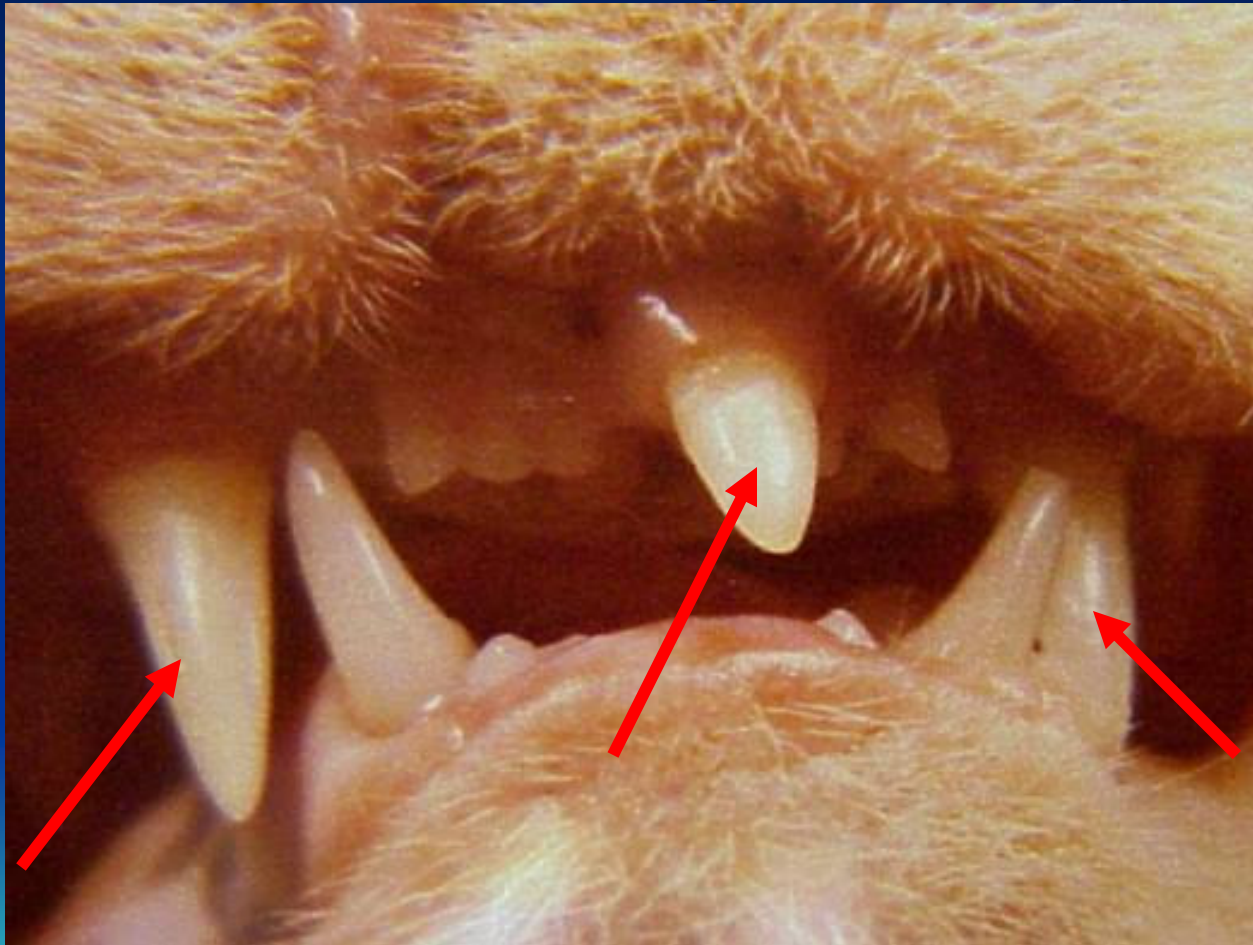
Oriental Shorthair

5 1/2 month old blue spotted tabby



Supernumerary left upper canine

3-year old Domestic longhair: 3 upper canines



Feline 3-rooted P³ & supernumerary rotated 3-rooted P₄. "Snow" 2yo DSH -₂



Painful occlusal trauma: Stage I Perio.Dz: *8-mo. old Siberian cat "Leonilla" ₃*



Painful occlusal trauma: Stage I Perio.Dz:

8 mo old Siberian cat "Leonilla" ⁷

Post-op Photos

Treatment:

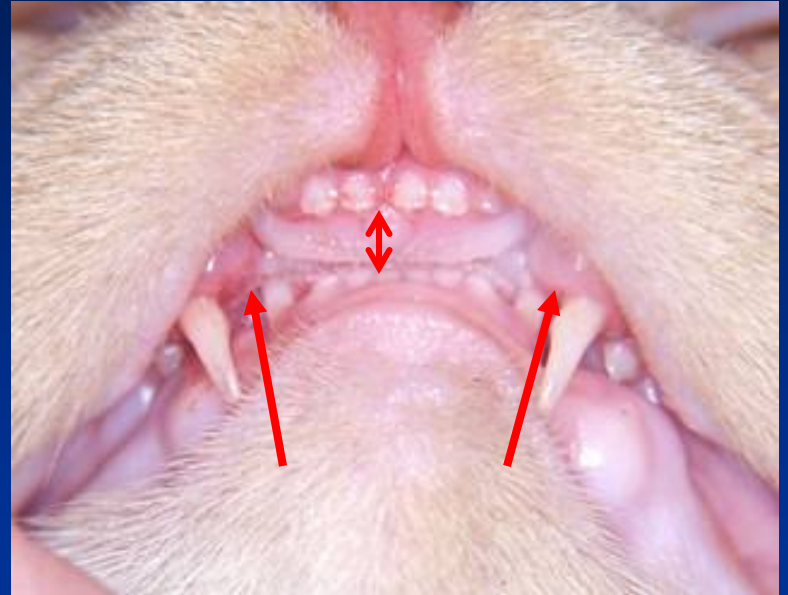
Odontoplasty

- 1] Coronal reduction
- 2] Dentinal sealant
- 3] 1.2% Fluoride treatment
- 4] Chlorhexidine soak of gums

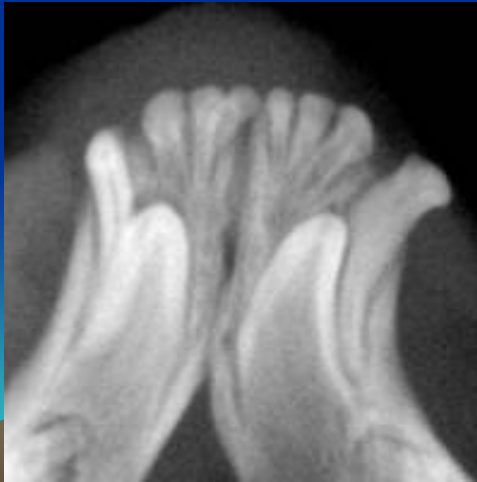


Interceptive Orthodontics: "Foxy" ¹

Transitional dentition with Class II 5 mm Overjet



Interceptive Orthodontics: "Foxy"₂



Adult tooth interference: Painful Open Bite Coronal Reduction and Pulp Cap *3yo DSH "Tobbe"*



Malocclusion & orthodontic adjustment

“Do not put a price on another person’s pleasure”

ref: DL Piermattei



Early Professional Dental Care: "Noa",



- 6mo old
- Comin' to the vet
- Wassup?

Narcotics -Oooo☺



Early Professional Dental Care: “Noa”₂

- Uh oh!



Early Professional Dental Care: “Noa”³

- Perfect scissor bite
- Just lost his last primary teeth 36 hours ago (upper canines)



Early Professional Dental Care: "Noa"⁴

Perfect time for juvenile dental care, of course.

- Subgingival curettage, polishing, & fluoride treatment.



Early Professional Dental Care: “Noa”⁵

And you
DECLAWED
me too!

Thanks, Dad!



The 5 components of *Adult Feline Dental Maintenance*

- 1] Annual professional dental care
- 2] Dental friendly diets
- 3] *Hygiene-brushing, tooth coating, water additives*
- 4] Gingival exercise with proper products
- 5] Dental friendly treats



- *Gingivitis, Periodontitis, FORLs*
- *Root canal therapy - an alternative to extraction*
- *Extractions*

Veterinary Oral Health Council

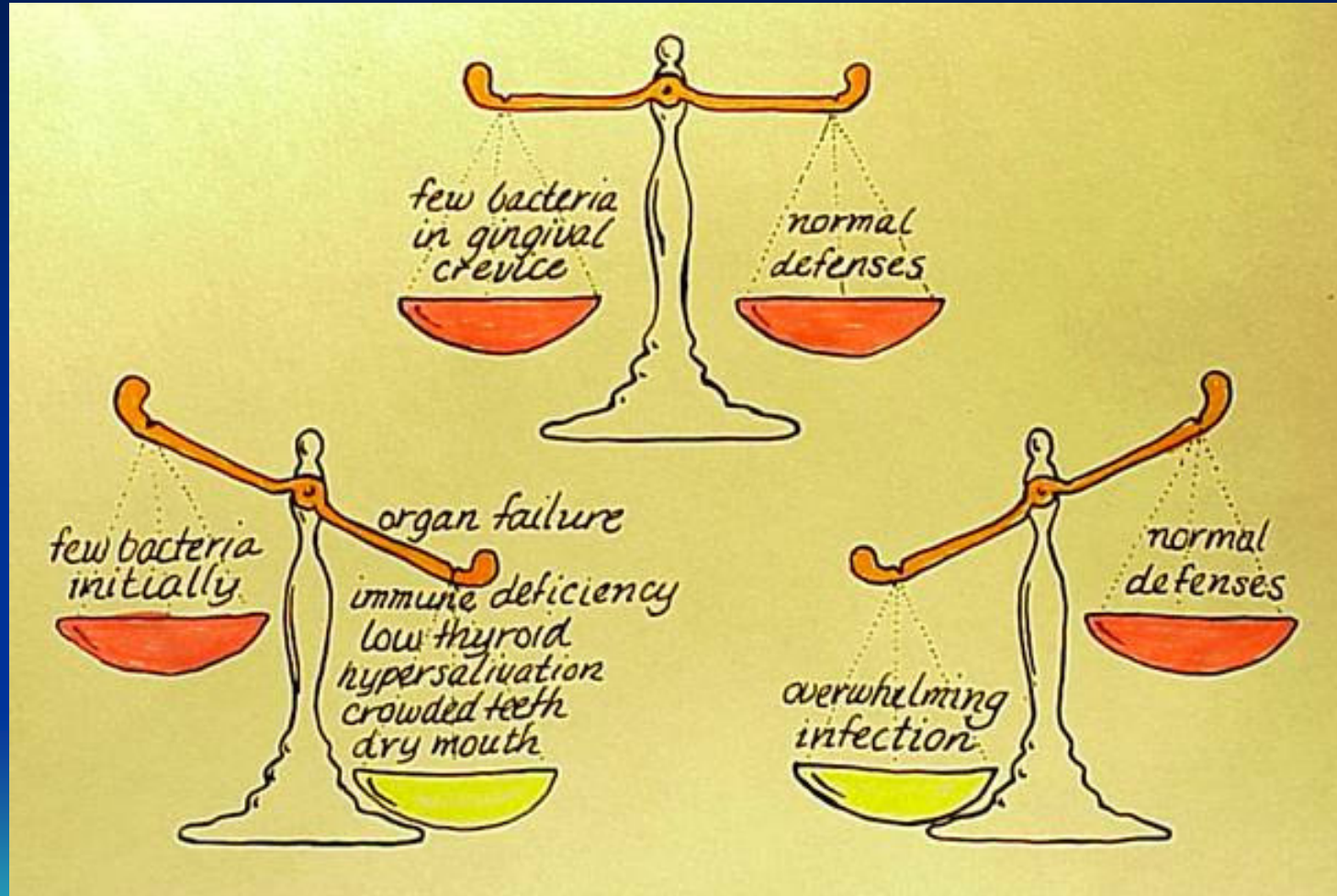
VOHC Seal of Acceptance

www.vohc.org

- 17 Accepted products so far are proven to be 20% more effective than controls.
- Double blind studies
- Including some feline Science, Iams, Friskies and Purina diets, as well as Feline Greenies treats.



The Delicate Balance of Oral Health



Annual Feline Dental Prophylaxis 1

Dental care every year provides good oral health.

- Tartar-removing forceps lessen procedure time.
- More efficient than using an extraction forceps.
- Ultrasonic scaling reduces fatigue and is efficient



Annual Feline Dental Prophylaxis ²

Supragingival scaling + subgingival curettage followed by polishing & subgingival irrigation



Instruments for Oral Diagnosis

☆ Explorer tips (17/5)

☞ *Detect subtle irregularities in the tooth*

☞ *More delicate tips = better tactile assessment*



☆ Calibrated periodontal probe

☞ *To chart periodontal pockets*



Dental Radiograph Unit

Dental film (less \$)

Isolates teeth

No fogging

Flexible & small

No backscatter

Sharper images

Digital imaging (LE\$\$)

1/2 kVp, 1/2 time

No film, No storage

No film mounts

No chemicals

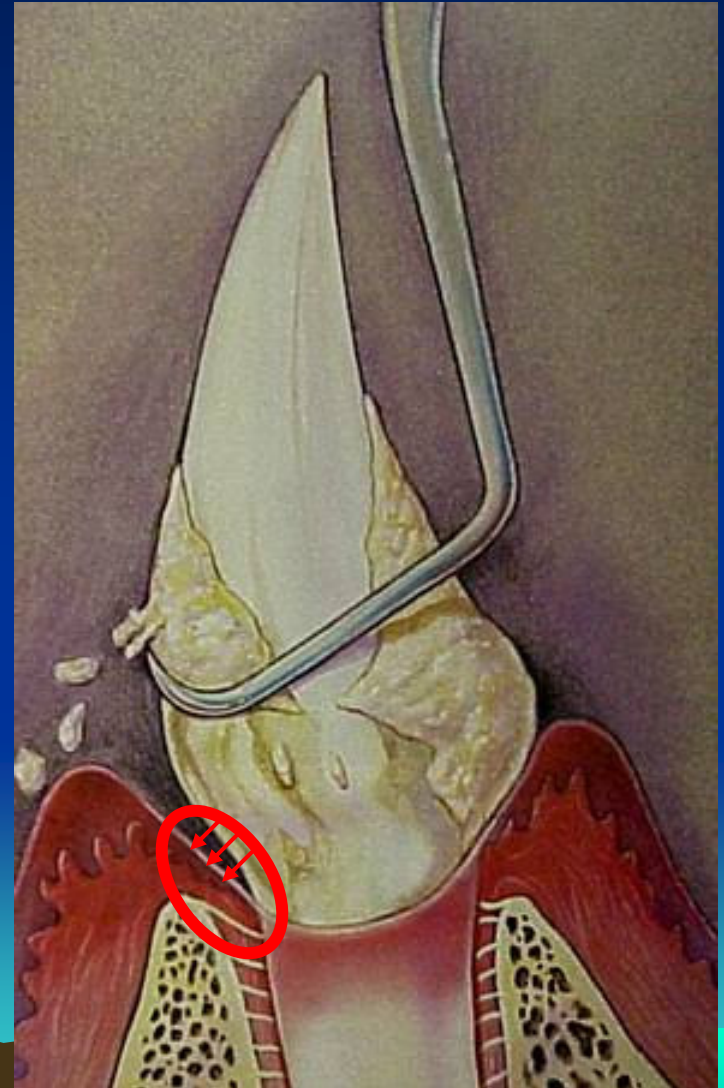
No Processor



Periodontontists go to great lengths

...to save a silly millimeter

The Epithelial Attachment Apparatus



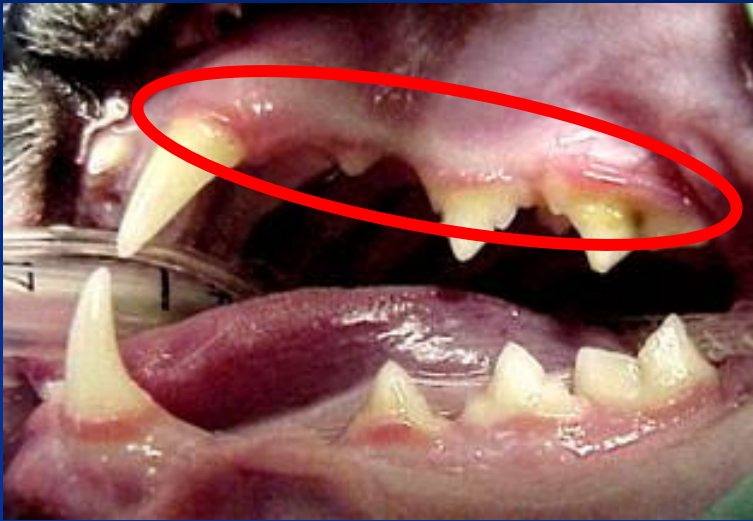
Be sure to check the whole oral cavity!

15-year old Siamese

“He’s a picky eater, Doc.”



Stage I PD: Marginal gingivitis & very minor calculus: 2-year old DSH "Homer"



Perfect time for periodic dental prophylaxis.

Stage I: Gingivitis with edema

7-year old Siamese mix "Pearl"

- Certainly, if not before, now is the time for professional dental care!



Stage I PD (Gingivitis): 5-year old DSH "Mao" *Still time for curative care*

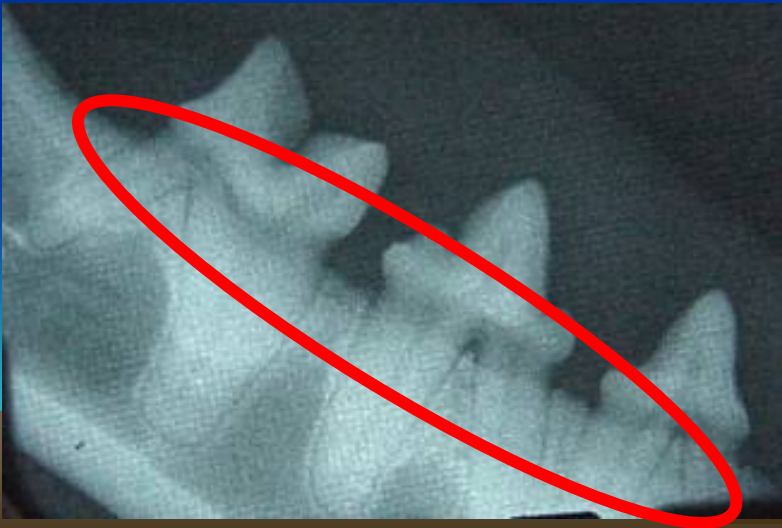


Stage II PD (*Early Periodontitis*)

*Bone loss seen radiographically
5 year old DLH "Peaches" ₁*



Stage II PD: *Bone loss seen radiographically* *5 yr. DLH "Peaches" ₂*



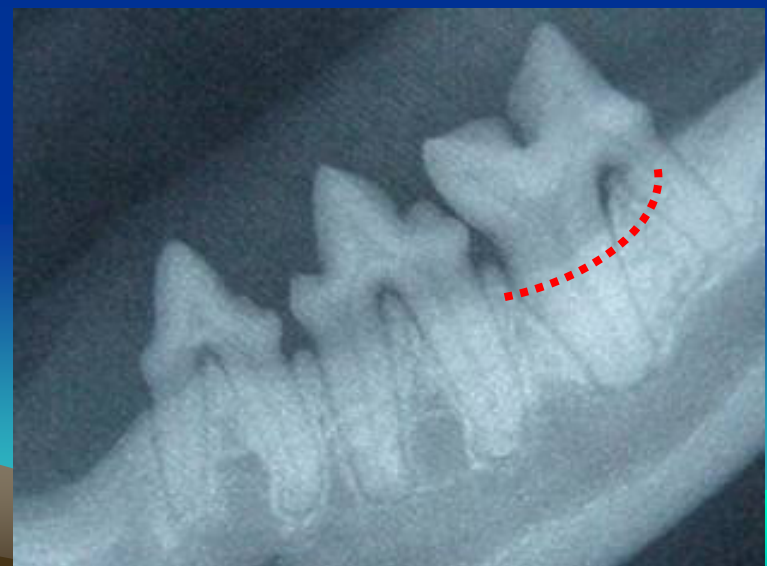
Stage III PD: (Crowding) Mod. Periodontitis
Tx-Prophy/CHX/Fluoride: 3yo MCC "Bailey" ₂



Stage III Perio: Tx-Prophy/CHX/Fluoride

3 yo MCC "Bailey"³

Stage II Perio. Disease
Early Periodontitis



Evaluating Periodontal disease

7-year old Domestic Shorthair: "Harley"⁵



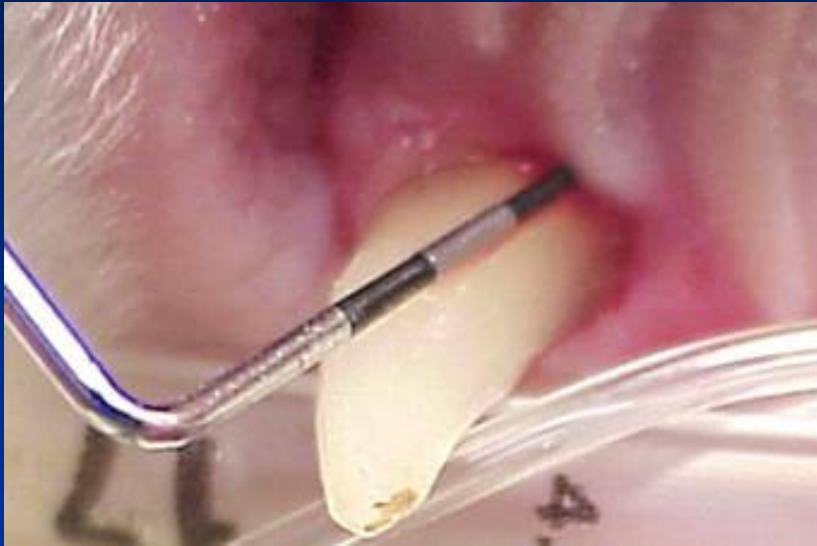
Stage III PD (Tx-Doxirobe®)

7yo DMH "Ashley" ₁



Stage III PD (Tx-Doxirobe®)

7yo DMH "Ashley" ₂



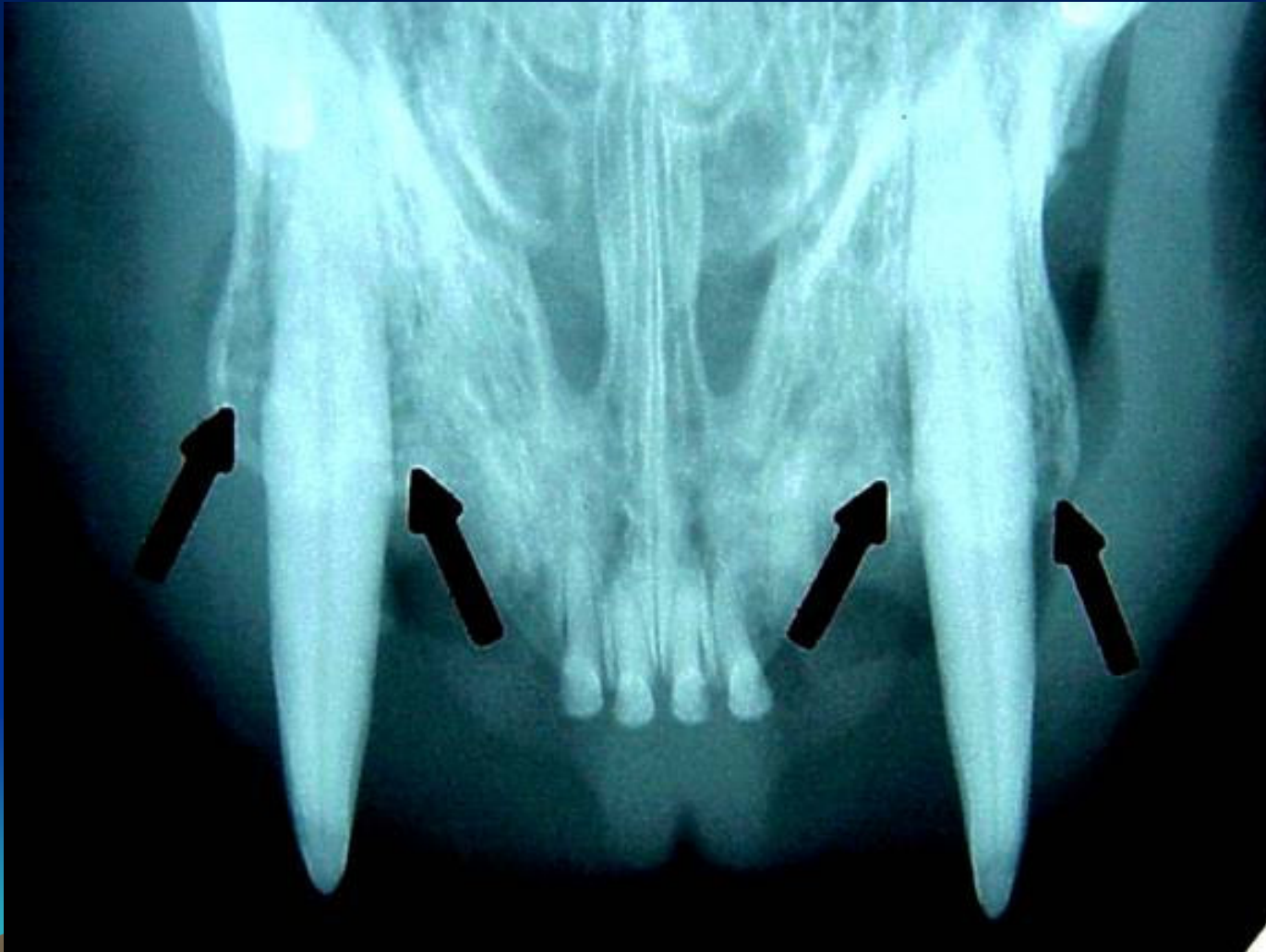
Stage III PD (Tx-Doxirobe®)

7yo DMH "Ashley" ₃



Reactive Bone/PD

8 yo Siamese: "Sugar"



Reactive Bone: "Tigger"

An inflammatory reaction to periodontal infection

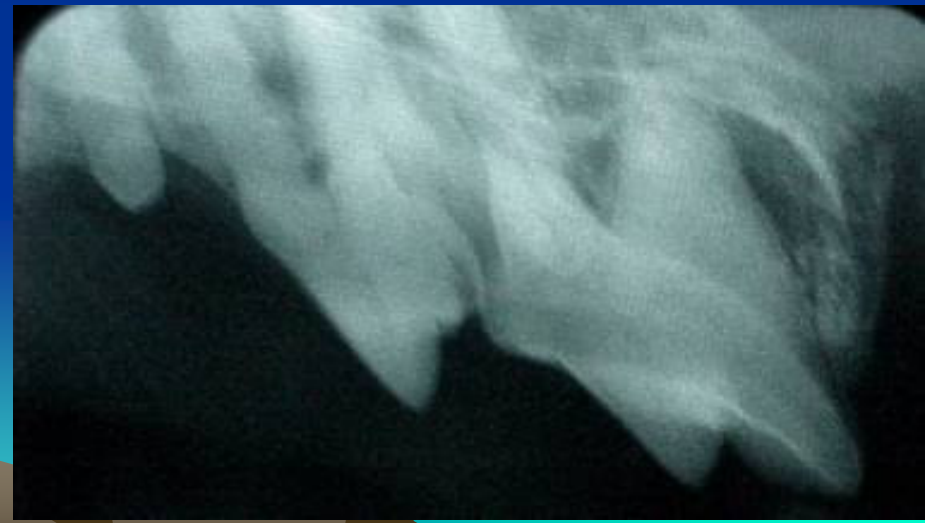
- 14-year old DSH
- Had a very fat chin
- Owner sure it was cancer...but permitted a radiograph & biopsy, followed by surgery.
- *Tigger lived 5 1/2 years more, to age 19 1/2.*



20yr DSH~BUN 80,Creat 4.6: *"Boots" in Pain* ,



20yr DSH~BUN 80,Creat 4.6: "Boots"₂
(Evaluation requires removing calculus)



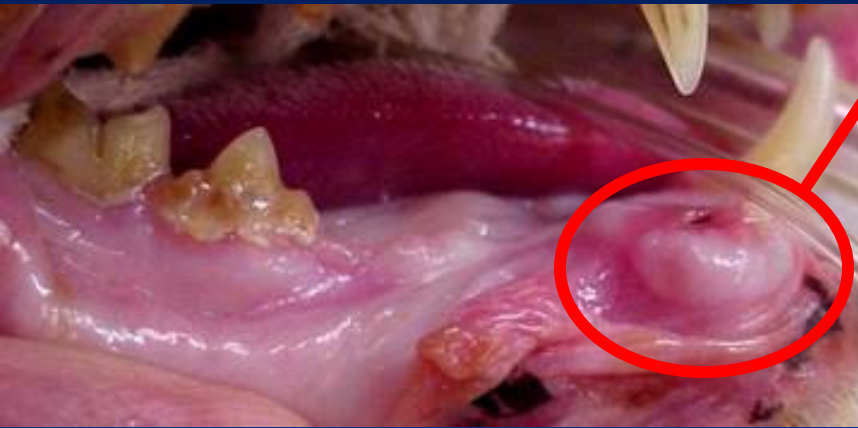
20yo DSH~BUN 80,Creat 4.6: “Boots”₃

*Dentinal tubule exposure = source of pain.
Comfortable now = less stress for nephritic
geriatric patient.*



20yo DSH~BUN 80,Creat 4.6: “Boots”

Source of more pain



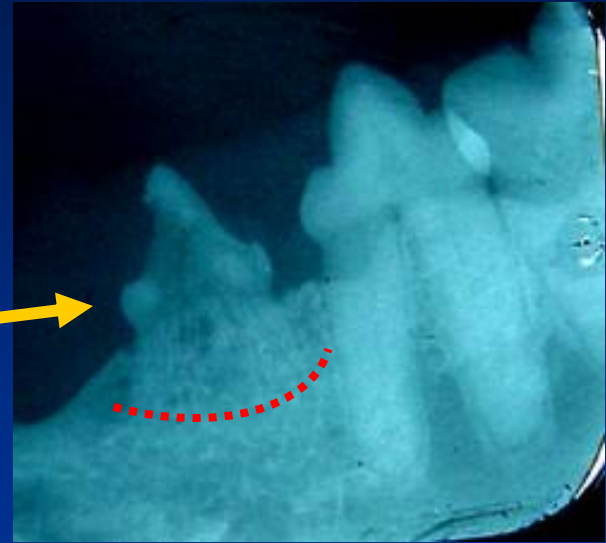
Feline Inflammatory Disease: “Repo”₁



- Found in dumpster
- 6 unsuccessful months of med. therapy of gums & extracted 6 mandibular incisors.

Feline Crown Amputation Assessment

- Upper: OK to amputate crown and suture closed

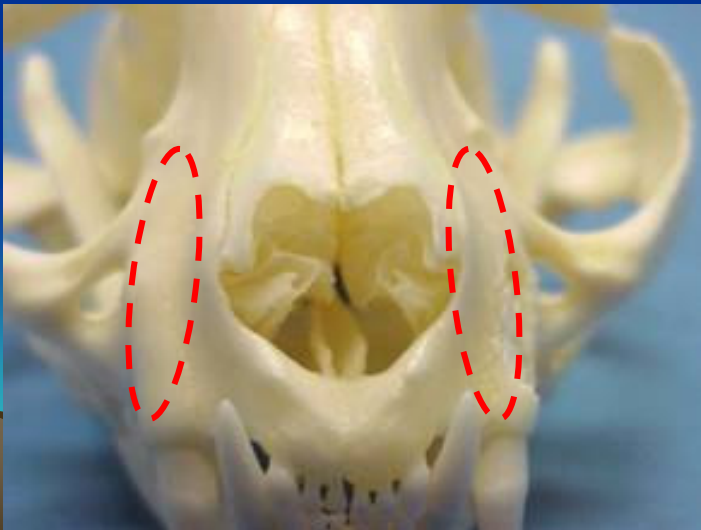
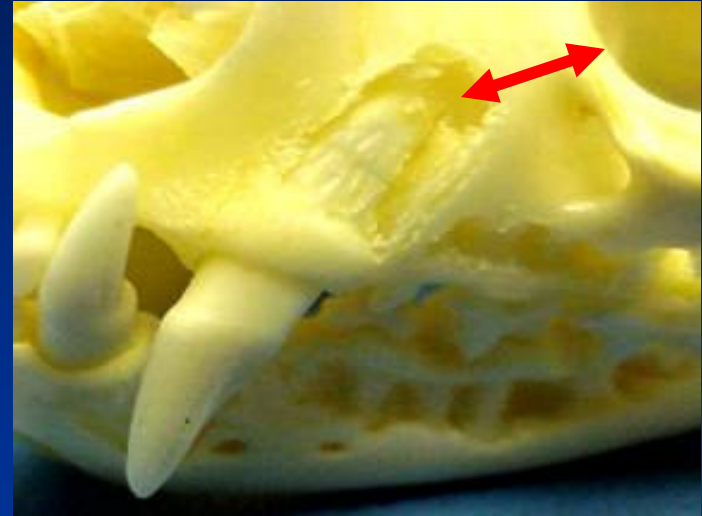
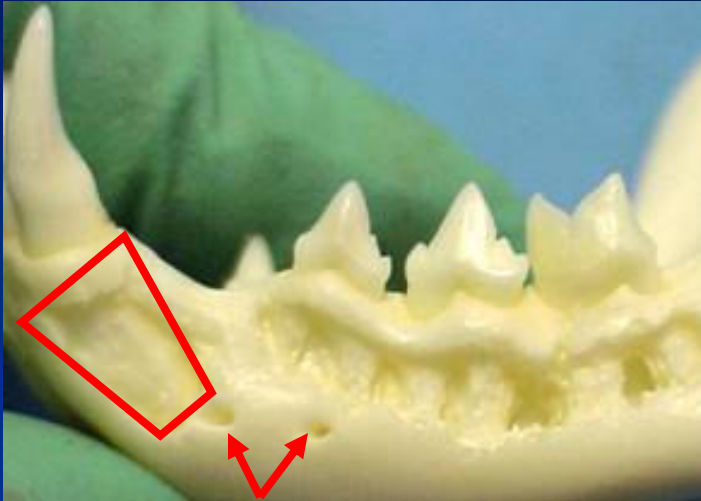


- Lower: Better extract whole tooth



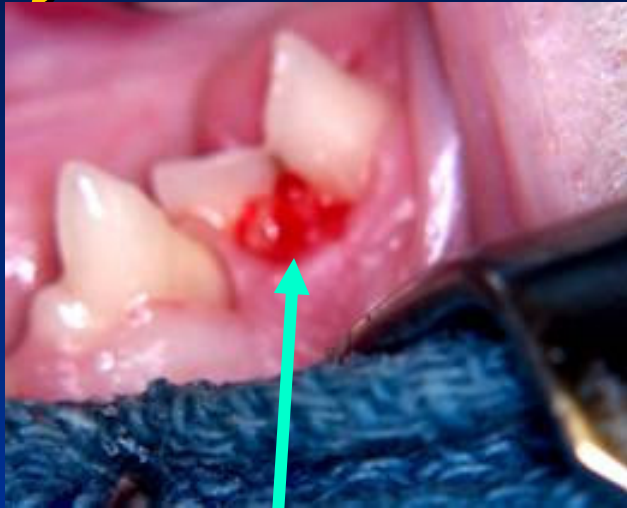
Critical Clinical Feline Extraction Anatomy

A study skull is again helpful

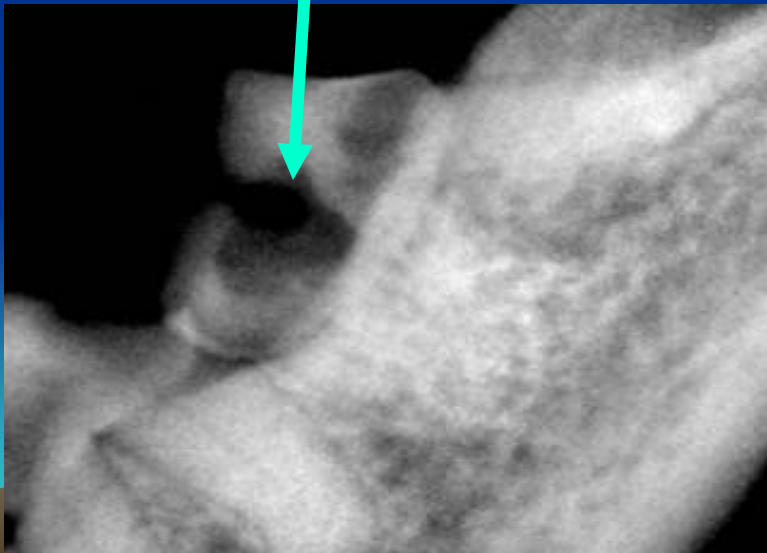


To amputate crown or fully extract?

6-year old DSH "Basel" ₁



- More root structure exists than you might expect.
- Sculpt around the roots.
- ☆ Remove part of the target tooth, if crowded, to provide elevator space (→).



Amputate feline crown or fully extract

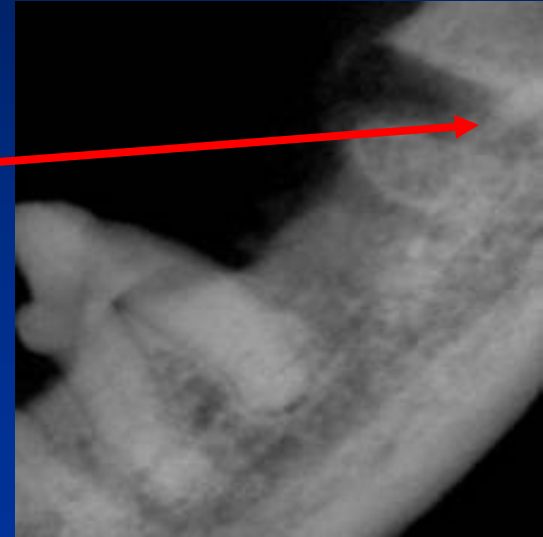
“Basal” ₂

- ☆ Sculpt around the roots (○) to provide for trouble-free elevation of the whole root.



...and if you can't identify the root end.
When in doubt, radiograph the snout!

“Basal”₃



- In cases like this, keep taking radiographs until you see that you have retrieved all the fragments!



Extraction kit for whole mouth extractions





Feline Inflammatory Disease: “Repo”

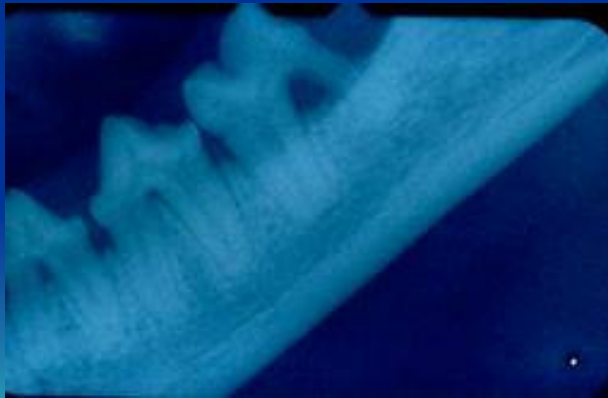
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- Found in a dumpster
- 6 unsuccessful months,
treating gums
medically
- Had extracted only his
6 mandibular
incisors.

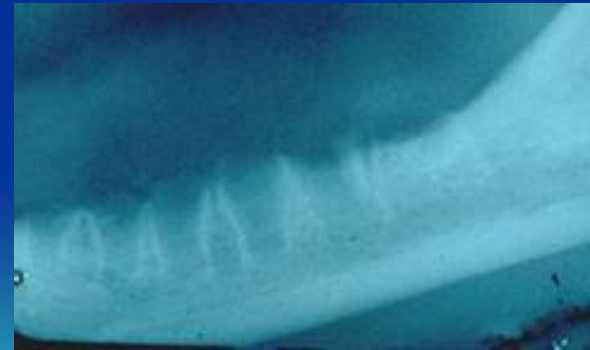


Feline Inflammatory Disease: “Repo”²

Before



After



Feline Inflammatory Disease: “Repo”³

If you don't x-ray ~ examine the teeth



Feline Inflammatory Disease: “Repo”⁴

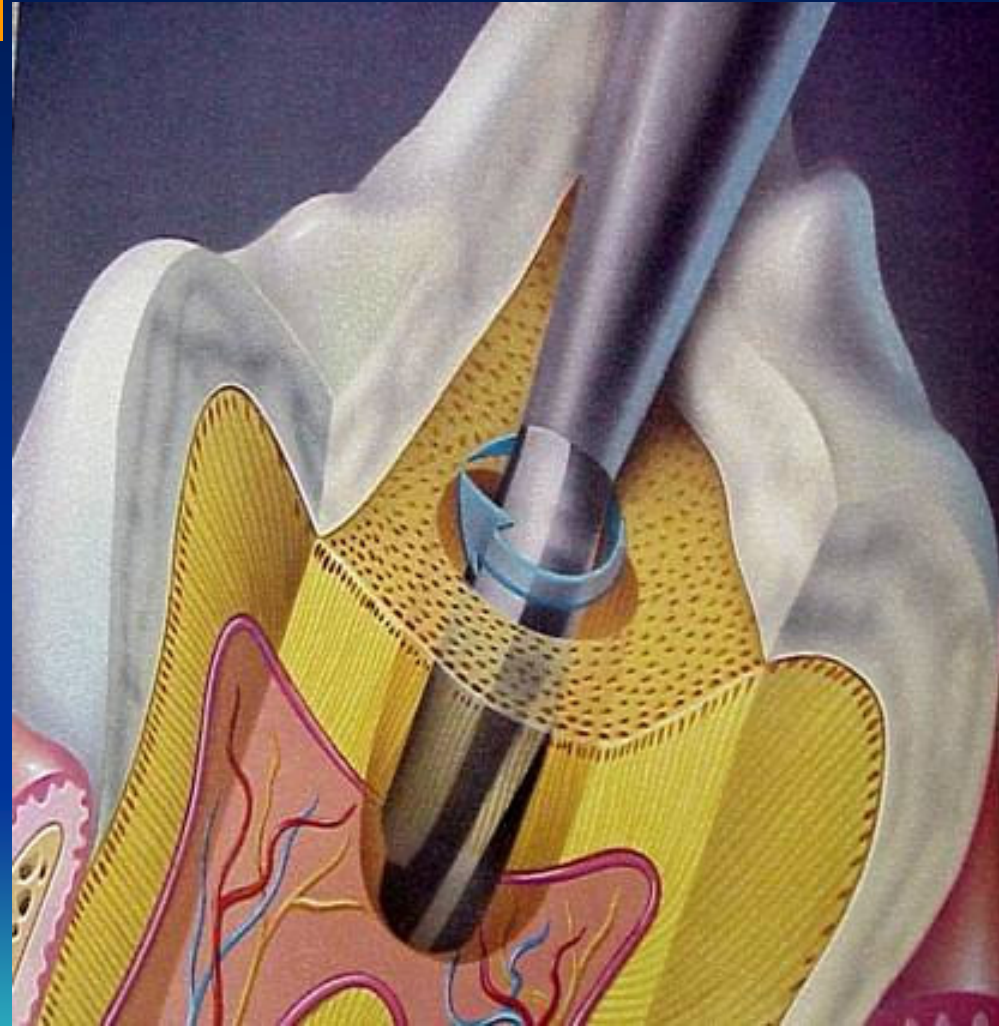
- 1 month later
- He had gained 2 pounds.
- He ate only dry food, by choice.
- Mary Beth was thrilled!



Root canal therapy

An alternative to extraction

- **S**alvages a functional tooth.
- **A** pain reliever.
- **V**ery little pain postoperatively.
- **E**xtraction, surgical = more time, more mess.
- **S**urgical extraction can cost more!



Indications for Root canal therapy

- Fracture, with pulp exposure
- Caries or FORL perforating the pulp canal
- Discolored teeth with pulp necrosis
- Pulp or periapical abscess
- Iatrogenic insult to pulp
- Periodontal disease involving the pulp



Root canal therapy is less traumatic for the cat than extraction



Endodontic follow-up care >>>

- **Disp antibiotics & pain medication**
Amoxicillin & Buprenex p.o.
- **Recheck** restoration in 1 month.
- **Follow-up** radiograph with next routine semi-annual or annual dental care.
- **Annual radiographs** for 5 years.

For More Information

www.avdc.org

- ☆ Getting more involved in Dentistry
 - ☆ American Veterinary Dental College (AVDC) position statements
 - ☆ Veterinary Oral Health Council (VOHC)
 - ☆ Veterinary Nomenclature
 - ☆ Referrals to diplomates near and far
 - ☆ Dental Information for pet owners
 - ☆ National Pet Dental Health Month
 - ☆ Dental CE Programs
- 

Not all work is worthwhile.

Don't confuse activity with accomplishment.



And, above all, take dental radiographs & be honest in appraising your work.

Thank you very much.