Treating Tooth Resorption in Dogs

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This is the second installment of a two-part presentation investigating tooth resorption in dogs. While the first installment (page 26, January 2013 issue) outlined the various classifications of tooth resorption, the following segment maps treatment options and techniques.

Appropriate therapy for tooth resorption will depend on clinical and radiographic appearance, as well as owner preference once treatment options have been discussed. Intraoral radiography is central to the decision-making process; if intraoral radiography is unavailable and tooth resorption is clinically apparent, the patient should be referred. If referral is not an option, the tooth should be extracted to eliminate oral bacterial invasion. Without intraoral radiography, root fragments may be left behind during extraction, potentially causing painful problems later.

For the first installment, see Tooth Resorption in Dogs by Dr. Jan Bellows at cliniciansbrief.com/canine-tooth-resorption
Recheck
When resorption begins deep in the alveolus on the root surface, the periodontal ligament and root parts may be replaced with bone- or cementum-like tissue via a noninflammatory process. If the lesion does not appear to extend into the oral cavity, it can be monitored for progression q6mo. Watchful waiting is indicated in cases with minimal root involvement not extending into the oral cavity; follow-up intraoral radiography q6–12mo is recommended accordingly. If the resorption area approaches or extends into the oral cavity, extraction is the treatment of choice.

Reduce
In rare forms of tooth resorption, the root’s dental hard tissue is replaced by bone. The root will appear to have less radiopacity when compared with adjacent normal roots. The remaining crown’s height can be reduced to a subgingival level via amputation and sutured closed.
Root canal therapy, an advanced procedure with guarded prognosis, can be used to treat cases of internal and external tooth resorption. Because tooth resorption in dogs is idiopathic and possibly progressive, long-term success of root canal therapy may not affect the clinical course of tooth destruction.

In cases of tooth resorption, long-term success of root canal therapy may not affect the clinical course of tooth destruction.
Remove

When resorption begins near the cementoenamel junction and progresses toward the crown, dentin and enamel loss near the gingival attachment often exposes the sensitive dentinal tubules and pulp to the oral environment. Subsequent inflammation of surrounding tissues can lead to increased sensitivity. Once the resorption extends into the oral cavity, surgical extraction via flap exposure is indicated.

A Left mandibular cheek teeth

Intraoral radiograph revealing external root resorption of the second and third premolars

B

To create the full-thickness flap, a #11 surgical scalpel blade is used to incise the alveolar gingiva between the teeth following vertical releasing incisions.

C

Sulcular incision

D

A molt elevator is used to release attached gingiva from the alveolar plate.

E

Exposed full-thickness mucogingival flap

F
Removing all dental hard tissue is often difficult in cases of canine tooth resorption. Extraction of an affected tooth (or multiple teeth) is technique sensitive and can be time intensive. Referral is often the best option (avdc.org can help locate a local veterinary dentist).