



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Rocky Kijewski
SPECIES Canine
BREED American Pit Bull Terrier

6 week recheck CT and second stage of the dental treatment The tomographic findings are similar to the previous radiology report, with traumatic fractures in the left mandible, ramus, and condylar process and ipsilateral temporomandibular joint incongruity. There is a mild displacement between the fragments in the condylar process fracture that causes some instability; a recheck x-ray or tomography are suggested in 25–30 days to evaluate the healing process and determine if reabsorption could occur in this specific region. Multiple tooth fractures are seen, which is comparable to the oral exam. A better decision about dental treatment or extraction can be made with the definition of these characteristics. The most critical fractures are in the triadans 109, 210, and 310

Abnormal PE/Chem/CBC/UA Results: Fracture - Tooth Complicated (pulp exposed) crown fracture of the right maxillary fourth premolar and right mandibular first molar teeth (108, 409). Treatment: Surgical Extraction. Root Canal Therapy declined. Discussed appropriate chew toys. Fracture - Tooth Complete Root fracture of the left maxillary second molar (210). Treatment: Surgical Extraction. Discussed appropriate chew toys. Malocclusion- Class 1 Traumatic Class I malocclusion secondary to a Right Mandibular Drift resulting in open occlusion due to attrition left maxillary third incisor with the left mandibular canine cusp and left maxillary third premolar with left mandibular first molar teeth (203/304, 207/308). Treatment: Interceptive orthodontic surgical extraction of the left maxillary third incisor (203) followed by orthodontic ostectomy of the left incisive bone. Crown Reduction with application of a light cured unfilled resin sealant left maxillary third premolar, left mandibular canine, and fourth premolar teeth (207, 304, 308).

SEX

Male

AGE

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COMPUTED TOMOGRAPHIC STUDY OF THE HEAD

A pre-contrast CT study of the head are provided for review totaling two series. One pre-contrast series more rostral, bone algorithm and one pre-contrast series more caudal, focus on the temporomandibular joints, bone algorithm.

INTERPRETED BY

Tilde Rodrigues Froes, DMV, MSc., Dr. Med Vet., Dipl. CBraRVet

COMPUTED TOMOGRAPHIC FINDINGS

A persistent small discontinuity line is seen transversally in the left condylar process, with minimal displacement between the fragments, and callus formation. In comparison to the previous exam, the discontinuity line was more ill-defined. The medial border of the condylar process is mildly irregular, with a few subchondral microcysts; however, there is no evidence of reabsorption, reduction of bone attenuation, or reduction in size of this particular portion. The temporomandibular joint is incongruent.

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There is a thin persistent discontinuity line with adjacent ossified callus in the left mandibular ramus. At this portion, the mandibular ramus is thicker in comparison to the contralateral, and slightly tortuous in contour.

REFERRING VET

Mike Wiegand, DVM, DAVDC

The alignment between the mandibular ramus is straighter, in comparison to the previous exam.

There are some missing teeth including the triadans 102, 103, 109, 309, 310 and 311.

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There is a small fracture line at one of the roots of the triadan 210.

There are hyperattenuating structures at the border of the enamel surface of the triadans 108 and 408.

DATE

7-4-23



PATIENT The cribriform plate is intact.

Rocky Kijewski The nasal cavities and frontal sinuses are unremarkable.

SPECIES The tympanic bullae are normal. However, the horizontal portion of the external auditory canals are filled with hypoattenuating material and present irregular borders with pinpoint calcification.

Canine The medial retropharyngeal lymph nodes and mandibular lymph nodes are unremarkable.

BREED No mass effect is seen in the brain.

American Pit Bull Terrier

COMPUTED TOMOGRAPHIC DIAGNOSIS

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- Non-healing, complete transversal fracture of the condylar process of the left mandible, with more regular callus formation, persistent temporomandibular joint incongruency, and consequent osteoarthritis. However, there was no evidence of reabsorption at the previously identified fragment.
- Mostly healed fracture of the left mandibular ramus, with thicker appearance correlated to callus formation.
- The mandibles present with more regular alignment.
- Absent teeth triadans 102, 103, 109, 309, 310 and 311.
- Resin sealants are noted at the triadans 108 and 408.
- Fracture line at the root of the triadan 210.
- Chronic bilateral otitis externa.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATION

In comparison to the previous report, a healing process of the fracture lines are noted. In the condylar process, it is possible that a pseudoarthrosis occurred to which a persistent lucent line was identified. There is no noted reabsorption of the medial fragment of the condylar process from the previous fracture, which indicates a good prognosis; however, this joint has an incongruency and secondary osteoarthritis that requires life-course management. The alignment between the mandible and ramus is adequate. Consider repeating the computed tomography yearly to check the evolution of the left temporomandibular osteoarthritis.

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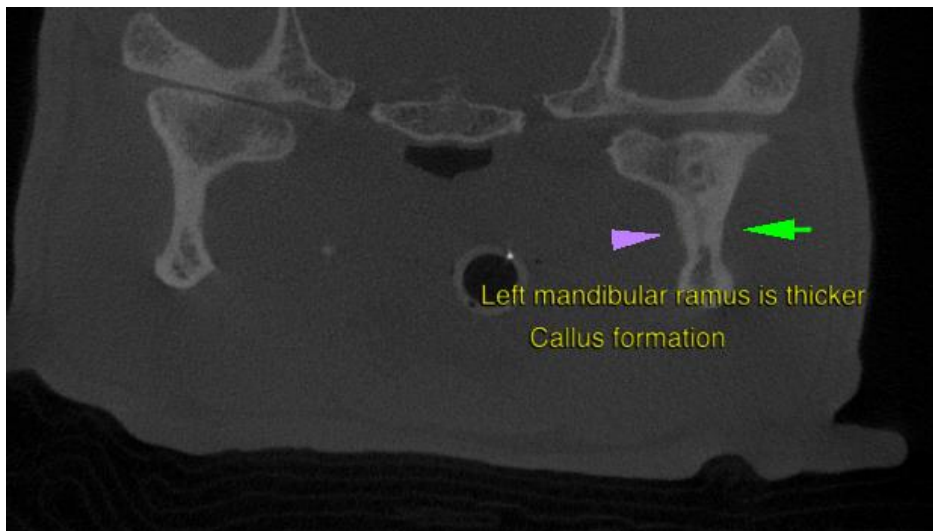
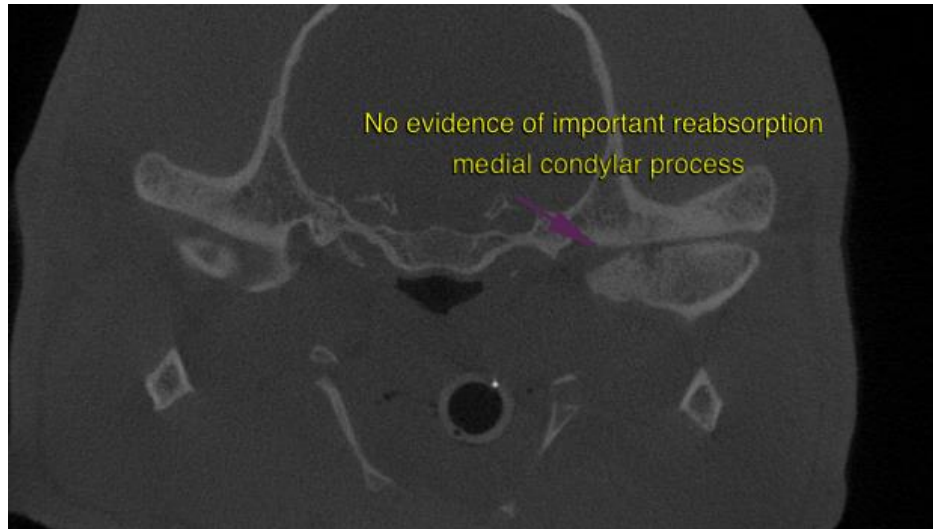
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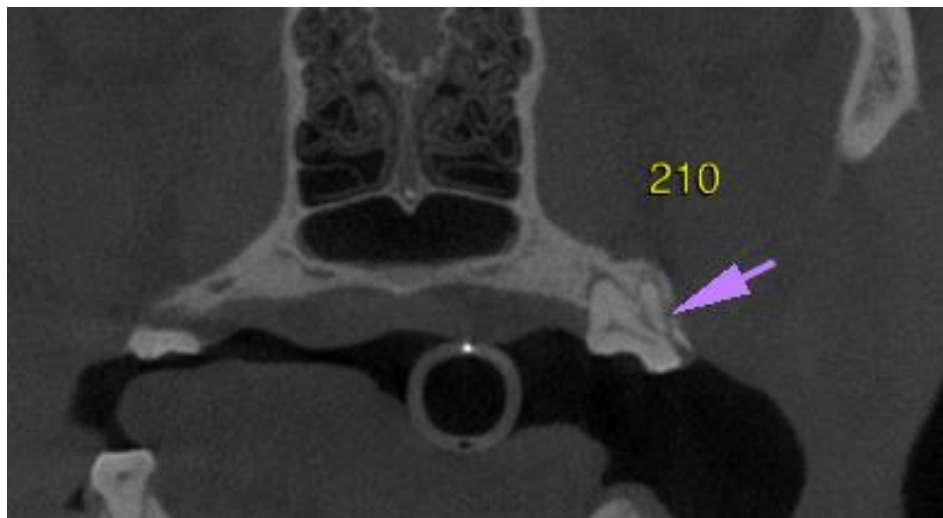
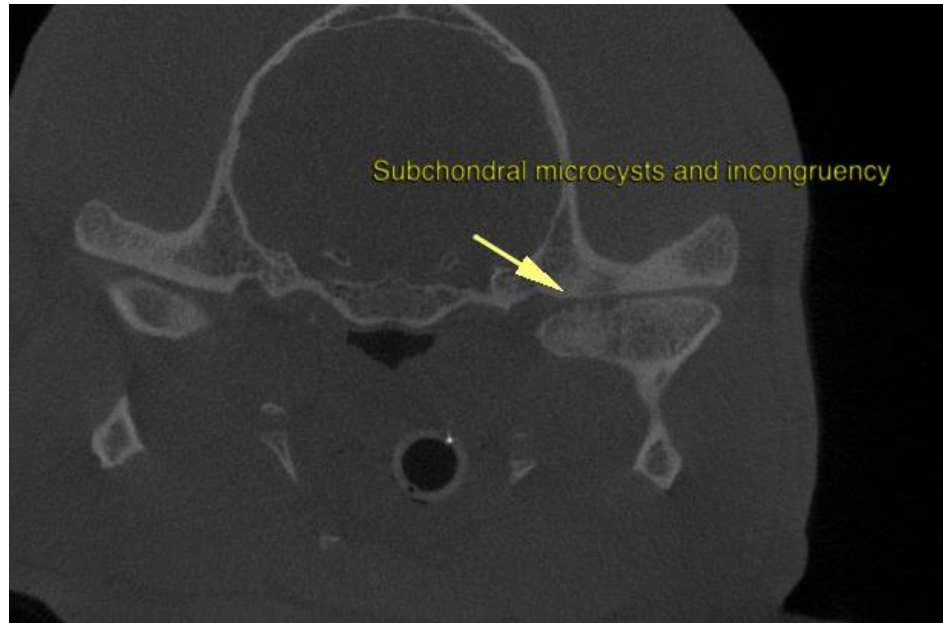
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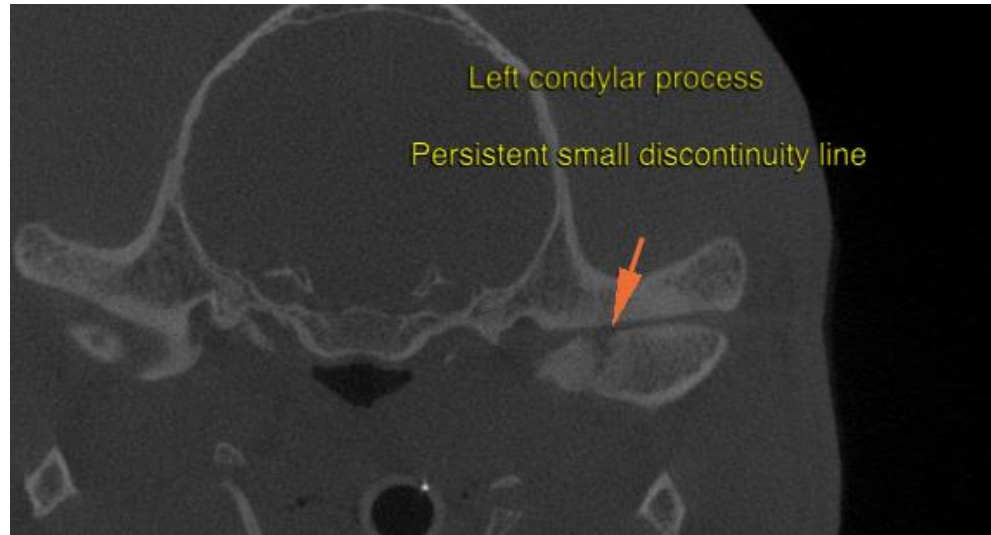
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

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