



**PATIENT PRESENTING CLINICAL SIGNS**

Roscoe Barr/Gaugh

Pt had developed halitosis over the past month. When seen last week for exam, ulcerated mass was noted surrounding the PM of the lower right arcade. During dental procedure, the mass was noted to be about 2-2.5x larger than when seen the previous week. Pt has been taking a while longer to eat his meals over the past month. Three teeth were loose and removed (5/3), 407, 408, 409. Very difficult to close the gingiva as it was mostly tumor (somewhat white with respect to the interior portions, firm consistency but friable). Teeth and portions of mass were sent in for histopathology. Last week mandible was also noted to be abnormal, this week that abnormality also seemed to have grown. Abnormal PE/Chem/CBC/UA Results: Large, ulcerated oral mass at lower right arcade. No significant abnormalities. WBC 10.71 K/ $\mu$ L 5.05 - 16.76 7.17 K/ $\mu$ L %NEU 75.4 % 71.7 % %LYM 16.1 % 22.6 % %MONO 8.2 % 5.2 % %EOS 0.1 % 0.4 % %BASO 0.2 % 0.1 % NEU 8.08 K/ $\mu$ L 2.95 - 11.64 5.14 K/ $\mu$ L LYM 1.72 K/ $\mu$ L 1.05 - 5.10 1.62 K/ $\mu$ L MONO 0.88 K/ $\mu$ L 0.16 - 1.12 0.37 K/ $\mu$ L EOS 0.01 K/ $\mu$ L 0.06 - 1.23 LOW 0.03 K/ $\mu$ L BASO 0.02 K/ $\mu$ L 0.00 - 0.10 0.01 K/ $\mu$ L PLT 371 K/ $\mu$ L 148 - 484 409 K/ $\mu$ L MPV 14.0 fL 8.7 - 13.2 HIGH 12.5 fL PDW 14.0 fL 9.1 - 19.4 11.7 fL PCT 0.52 % 0.14 - 0.46 HIGH 0.51 % ProCyte Dx (May 3, 2023 9:28 AM) 11/2/22

**SPECIES**

Canine

**BREED**

Schnauzer

**SEX**

MN

**COMPUTED TOMOGRAPHIC STUDY OF THE HEAD**

A pre- and post-contrast CT study of the head are provided for review. One pre-contrast series of head, one post-contrast series of the head.

**AGE**

8

**COMPUTED TOMOGRAPHIC FINDINGS**

There is an expansile, mixed, osteoproliferative and osteolytic lesion centered in the right mandibular body with long extension. The lesion is centered adjacent to the triadans 407, 408, and 409; however, the cranial border and caudal border continue to the height of the triadan 406 until the mandibular ramus, close to the angular process and mandibular notch. The transition zone of the mass is long and ill-defined. The mass expands intraorally and into the adjacent soft tissue, including the ipsilateral digastric muscle. The soft tissue portion of the mass is heterogeneously enhancing, with mixed enhancing and hypoattenuating areas and irregular contour. The mass measures approximately 7.7cm x 3.1cm x 2.7cm; however, because of the ill-defined borders and irregular shape, measuring is difficult. A more resorptive alveolar lesion is seen within the adjacent teeth centered in the mass, triadans 407, 408, 409, and 406.

**INTERPRETED BY**

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**HOSPITAL NAME**

Petroglyph Animal Hospital

The mandibular teeth, 301, 302, 303, 401, 402, and 306 are absent.

The temporomandibular joints are congruent.

The other facial and cranial bones are preserved.

**REFERRING VET**

Amanda Espinosa

There is an asymmetry between the right masseter and temporal muscles in comparison with the left side. The right muscle mass is reduced in volume.

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The right mandibula's lymph nodes are enlarged, rounded shape and mildly heterogeneous enhancing.

The nasal cavities and turbinates are unremarkable.

The retrobulbar spaces are unremarkable.

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5-4-23

The collimated brain is normal, no mass effect is seen.

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**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Expansile and proliferative lesions, involving alveolar bone, cortical bone, and soft tissue with intraoral and extraoral extension, mixed attenuation, occupying the right mandibula almost completely, more rostral to the mandibular notch. Differential diagnosis includes neoplasms of mandibular or dental origin, for example, canine acanthomatous ameloblastoma, undifferentiated epithelial odontogenic neoplasms, or other non-odontogenic neoplasms.
- Adjacent to the mass, there is evidence of tooth displacement of the triadan 407, 408, and 409\*.
- Right mandibular enlarged lymphadenopathy, metastatic, or less likely reactive.
- Right masseter, temporal, and digastric muscles disuse and atrophy.
- Absent triadans 301, 302, 303, 401, 402, and 306.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS****SEX**

MN

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The CT study reveals an aggressive lesion involving osseous, adjacent soft tissue, and teeth in the right mandibula. The right mandibula is almost completely affected, showing aggressive behavior, which correlates with the presented clinical signs. As performed, a biopsy is required for the diagnosis. As mentioned, the differential diagnosis includes odontogenic or non-odontogenic tumors. Due to the size and characteristics of the lesion, it is difficult to differentiate; however, there is intra-oral and extra-oral involvement. Three-view thoracic radiographs may be useful in evaluating for evidence of pulmonary metastatic disease if not performed. A surgical oncology consultation is suggested; however, with this extensive lesion, no safety margins are evident for resectability of only the mass. The best option is likely the removal of the mandible.

\*The triadans 407, 408 and 409 were identified in the exam. Extraction likely occurred after the exam.

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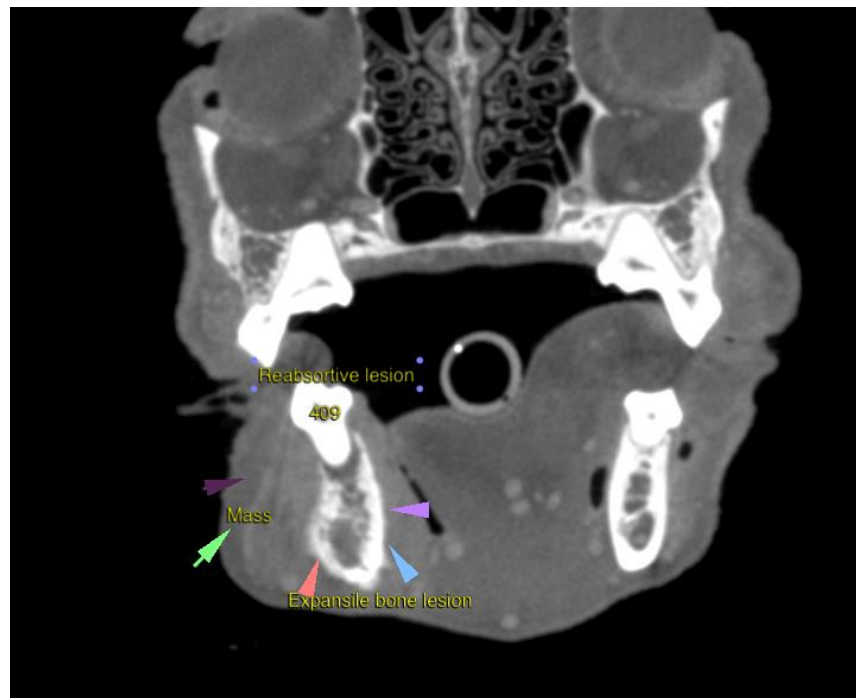
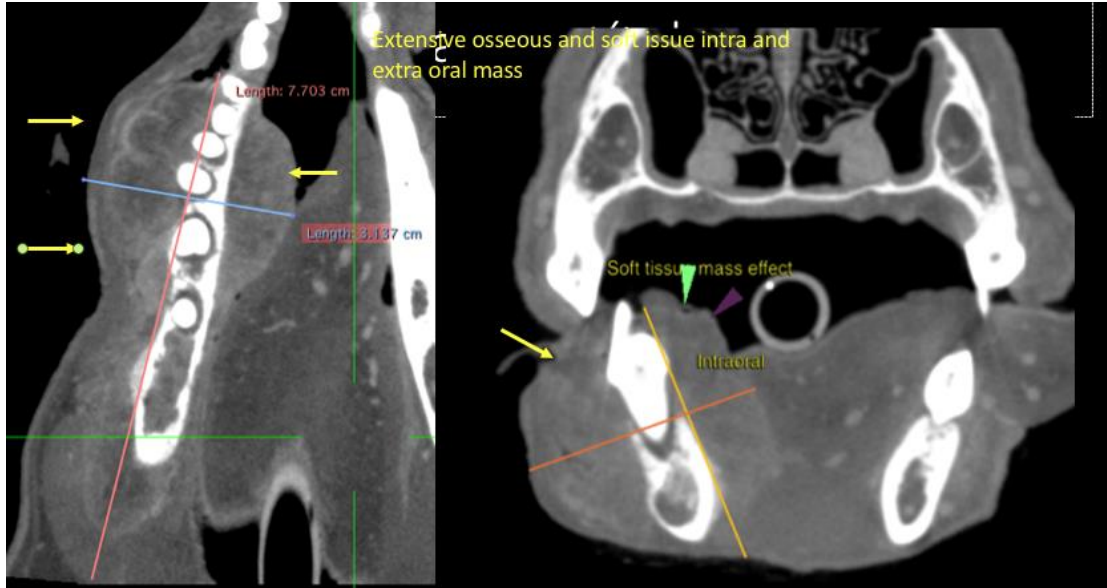
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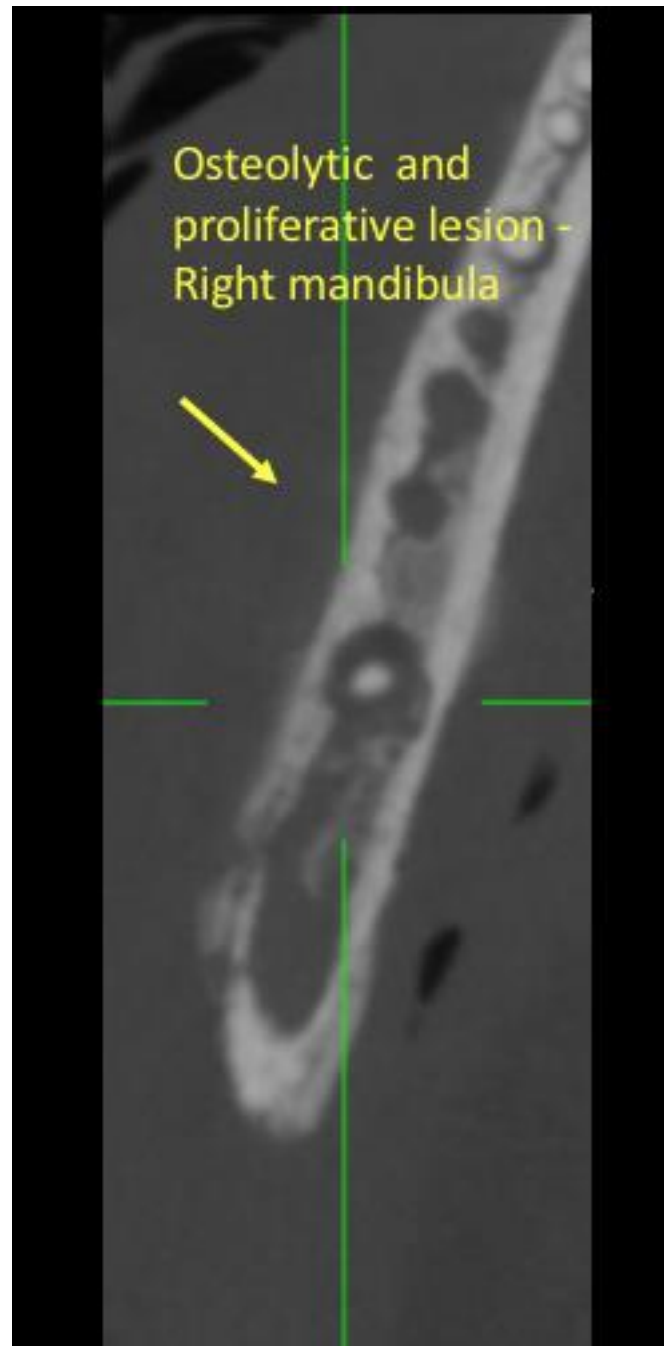
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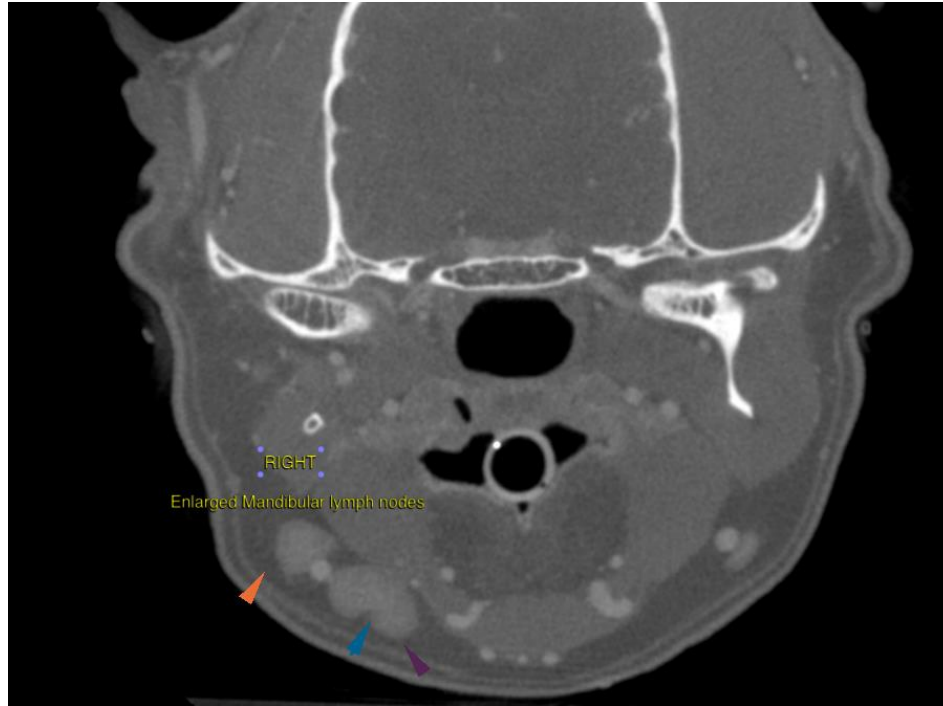
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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