



PATIENT PRESENTING CLINICAL SIGNS

Sofia Keeler Presented for a history of a right mandibular swelling and hx of dental disease. There was a concern for a mass at the area of the right mandibular swelling. Hx of calcium oxalate stones and a R mpl.

SPECIES Abnormal PE/Chem/CBC/UA Results: ALT 189 u/l

Canine **COMPUTED TOMOGRAPHY OF THE SKULL & THORAX**

A high resolution pre- and post-contrast CT study of the skull and a post-contrast CT study of the thorax are provided for review.

BREED COMPUTED TOMOGRAPHIC FINDINGS

Pomeranian Skull

SEX The tooth elements, 311, 408 and 411 are absent. The right body of the mandible presents with a mild serrated transverse fracture, running through the ventral aspect of the alveolar crest of the mesial root of triadan 409, though the ventral cortex of the mandible at the same level. The alveolar crest of the mesial root of triadan 409 is widened. Triadan 101, 106-108, 110, 201, 308 present a significantly widened periodontal space. The remaining teeth present evidence of generalized periodontal disease.

AGE The nasal cavity presents the expected aerated spaces between thin & even conchae and turbinates with smooth mucosal lining.

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INTERPRETED BY Both temporomandibular joints present congruent joint spaces with even subchondral bone surfaces and are considered within normal limits.

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external ear canals are within normal limits.

HOSPITAL NAME The brain presents no deviation from normal anatomy and symmetry. The brain parenchyma is homogeneous and within normal limits for attenuation and distribution of contrast enhancement. The ventricular system is non-dilated and symmetric.

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The submandibular and medial retropharyngeal lymph nodes are small and elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation and contrast enhancement pattern is uniform.

REFERRING VET Thorax

Dr. Runde

The intervertebral disc space T12/T13 is collapsed. Level with the intervertebral disc space T12/T13 and T13/L1, disc material is mild to moderately bulging into the vertebral canal, distorting the ventral epidural space and mildly the dural tube at the same level. Multifocal mild spondylosis formation is seen along the caudal thoracic spine.

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The sternal, cranial mediastinal and tracheobronchial lymph nodes are small elongated with a normal short-to-long-axis-ratio is < 0.5, the attenuation and contrast enhancement pattern is uniform and considered within normal limits.

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The cardiovascular structures including the pulmonary vasculature are within normal limits.

The bronchial tree presents with regular branching and tapers uniformly towards the periphery as expected, the bronchial walls are thin and smooth. The bronchus-to-artery ratio is within



PATIENT normal limits.

Sofia Keeler The lung parenchyma presents the expected architecture and attenuation behavior with randomly interspersed punctuate mineralization of the lung parenchyma.

SPECIES Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.

Canine **COMPUTED TOMOGRAPHIC DIAGNOSIS**

BREED

Pomeranian

SEX

FS

AGE

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- Pathological fracture right body of the mandible due to periodontal abscess mesial root triadan 409
- Advanced periodontal disease 101, 106-108, 110, 201, 308
- Generalized periodontal disease of the remaining teeth
- Multiple absent teeth
- Intervertebral disc protrusion T12/T13 & T13/L1 with likely dynamic myelocompression
- Spondylosis deformans
- Pulmonary osteomas
- No evidence of pulmonary metastatic disease

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The CT study is consistent with chronic periodontal abscess of the mesial root of triadan 409 – explaining the reported soft tissue swelling – with secondary pathological right mandibular fracture at the same level. Recommend discussing treatment options with dentist.

Consider complete dental workup as well.

There are no signs for underlying malignant neoplasia.

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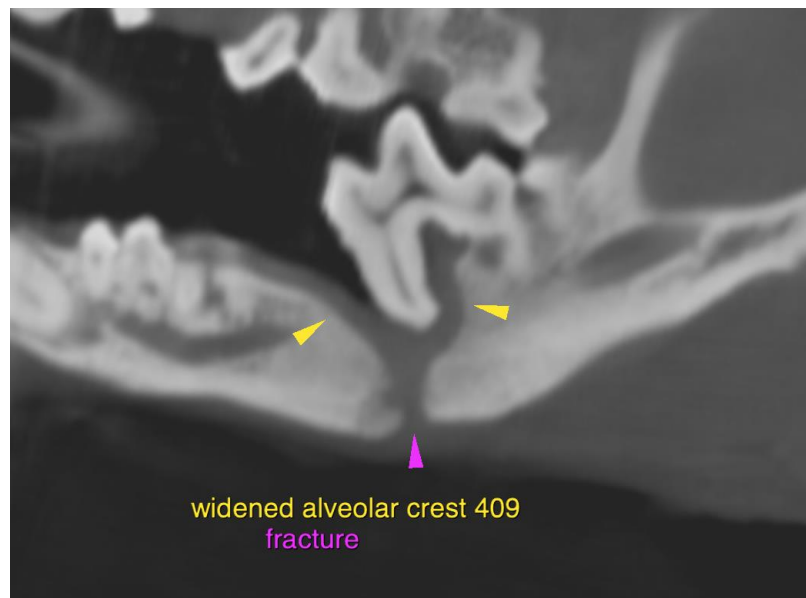
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PATIENT

Sofia Keeler

SPECIES

Canine

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Pomeranian

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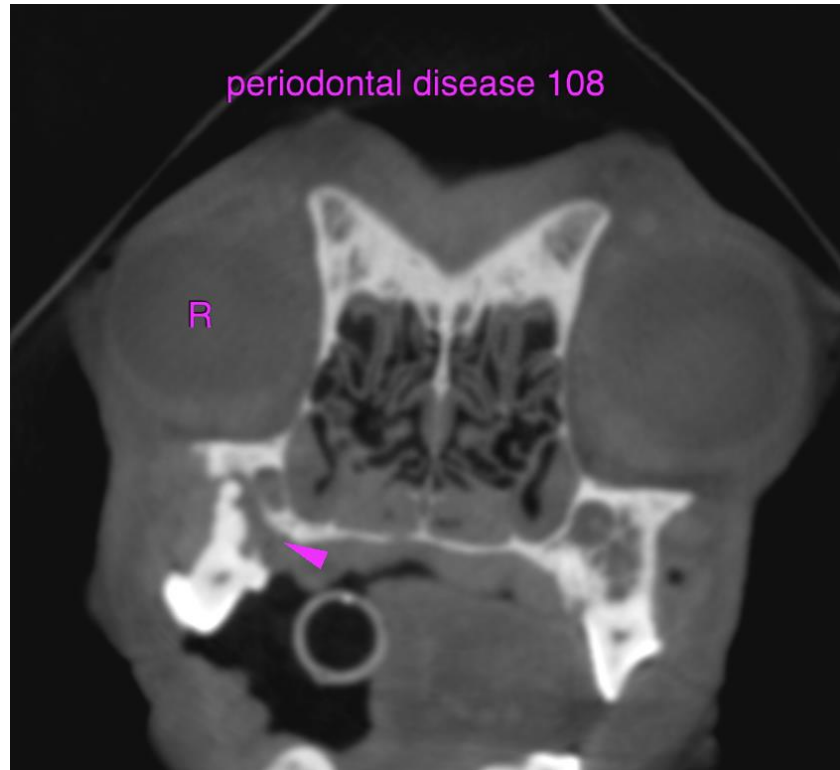
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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