



**PATIENT PRESENTING CLINICAL SIGNS**

Doby Babamohammadi focal seizing for 3 weeks. normal mental state.

**COMPUTED TOMOGRAPHIC STUDY OF THE HEAD AND SPINE**

**SPECIES** A pre- contrast CT study of the head, cervical spine, thoracic spine, lumbar and lumbosacral spine are provided for review. Transverse bone algorithms.  
Canine

**COMPUTED TOMOGRAPHIC FINDINGS**

**BREED Head**

Shihtzu The osseous calvarium and osseous facial structures are intact and symmetrical. No evidence of traumatic fracture or aggressive bone lesion.

**SEX** The brain attenuation is normal. No evidence of mass effect.

FS Mild distension of the lateral ventricles, incidental.

The cribriform plate is normal.

**AGE** The nasal cavity, pharynx and larynx are normal.

14 Years The frontal sinuses are rudimentary, incidental for the breed.

**INTERPRETED BY** The bulla cavity and auditory canal are normal.

Tilde Rodrigues Froes, DMV, MSc., Dr. Med Vet., Dipl. CBraRVet The retrobulbar spaces are normal.

Bilaterally, the temporomandibular joints are congruent.

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Some absent teeth are noted, especially in the maxillary arcade. The missing maxillary teeth include the triadans 202, 203,210, 106, 206, 107 and 207. A few fragments of their retained root are also seen. Moderate horizontal and vertical bone loss along the present teeth is seen. More demarcated geographic lysis in the alveolar bone adjacent to the triadans 108 and 208 is noted.

**Spine** (C1-C7, T1- to T13, 13 pairs of ribs, L1-Sacrum)

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Seven cervical, thirteen thoracic, seven lumbar vertebrae and sacrum are seen.

At the level of C6-C7, within the ventral aspect of the vertebral canal, there is a mild to moderate amount of heterogeneous hyperattenuating material that dorsally displaces and mildly compresses the spinal cord. The respective intervertebral space is collapsed, with a vacuum phenomenon, and incomplete ventral spondylosis deformans.

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Otherwise, the vertebrae bodies are normal in size, shape and attenuation.

Normal spine alignment, the dens is intact.

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**PATIENT** No other sites of narrowed intervertebral disc spaces or changes in the intervertebral discs or attenuation.

Doby Babamohammadi

Collimated cervical soft tissue:

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Canine

There is a large, oval-shaped hypoattenuating structure in the ventral cervical region, adjacent to the hyoid apparatus, and located between the left retropharyngeal lymph node and the left salivary gland. It measures approximately 2.6cm x 2.3cm x 1.9cm. The border of the left retropharyngeal lymph node is not clearly defined.

Collimated thorax:

**BREED**

Shihtzu

The trachea and main bronchus are normal.

The pulmonary parenchyma is reduced in volume expansion, and mild multifocal ground glass alveolar appearance is seen ventrally and predominantly cranially.

**SEX**

FS

The cardiac silhouette is subjectively globoid enlarged; however, no specific bulge is seen.

The pleural space is normal.

**AGE**

14 Years

The diaphragm and thoracic wall are normal.

Collimated abdomen:

Small hyperattenuating foci are seen in the right and left kidneys. The major measures 0.28cm in size.

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

A rounded soft tissue attenuating, and mildly heterogeneous, mass effect is seen in the left abdominal caudal region, contiguous to the spleen parenchyma. The spleen is mildly enlarged and convex shape. The bulge/mass effect adjacent to the spleen measures approximately 2.6cm x 3.2cm.

Otherwise, normal abdomen.

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Collimated musculoskeletal:

Mild to moderate periarticular ossification is seen at the caudal aspect of both shoulders and in both elbow joints.

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

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- C6-C7 disc herniation, mild protrusion causing mild impingement of the spinal cord, chronic disc disease and spondylosis deformans.
- No evidence of mass effect or abnormal enhancement in the brain.
- Mild bilateral lateral ventriculomegaly, incidental.
- Rudimentary frontal sinus, incidental.

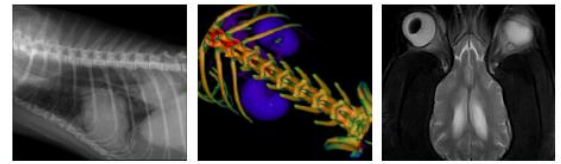
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- Moderate chronic periodontal disease, absent teeth, and suspect of root abscess in the triadan 108 and 208.
- Large rounded cervical ventral structure, differential diagnosis includes a salivary gland sialocele, and/concurrent enlarged ipsilateral retropharyngeal lymph node.

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- PATIENT** • Pulmonary passive atelectasis. The differential diagnosis includes less likely aspiration bronchopneumonia or infectious bronchopneumonia.
- Doby Babamohammadi • Mild generalized cardiomegaly.
- Multifocal small nephrolithiasis.
- Rounded abdominal mass contiguous to the spleen parenchyma, the differential diagnosis includes splenic mass, large regenerative splenic nodule, hematoma, benign or malignant neoplasm.
- SPECIES** • Bilateral shoulder and elbow osteoarthritis.

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

**BREED** No tomographic changes are detected in the brain that could be correlated to the present clinical signs. However, the tomography's sensibility is low compared to MRI, especially with no contrast.

Shihtzu Correlate the C6-C7 chronic disc disease and mild herniation with the neurological clinical signs and possible pain.

**SEX** An abdominal ultrasound and FNA of the splenic mass are suggested for further evaluation. In addition, a cervical ultrasound and FNA are suggested to explore the abnormal left cervical structure. Due to subjective signs of cardiomegaly, an echocardiogram is suggested if murmur is identified.

FS

**AGE**  
14 Years

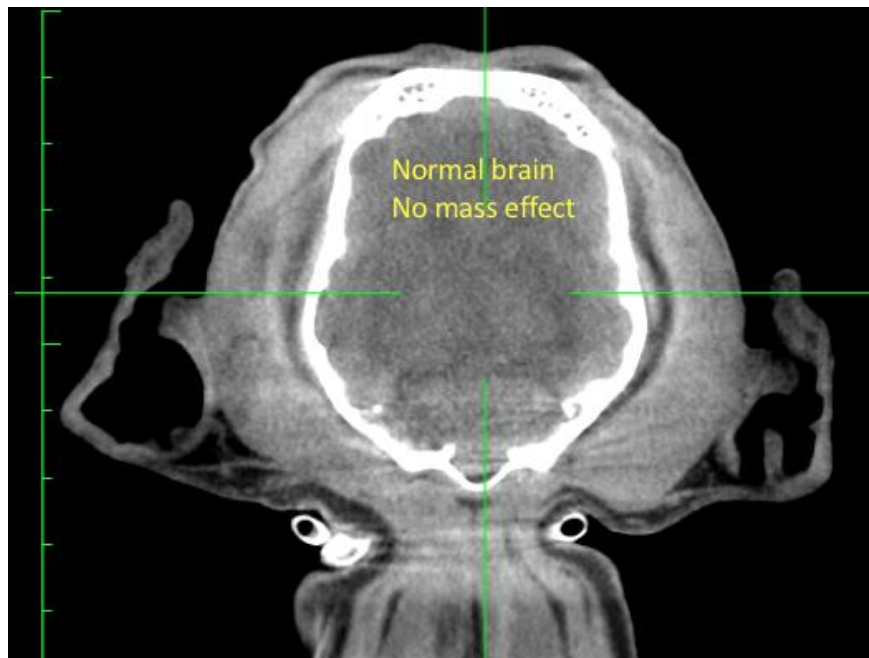
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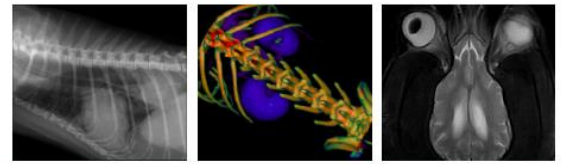
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**PATIENT**

Doby  
Babamohammadi

**SPECIES**

Canine

**BREED**

Shihtzu

**SEX**

FS

**AGE**

14 Years



Left side  
cervical  
abnormal  
structure

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C6

Mild disc herniation and  
spondylosis deformans

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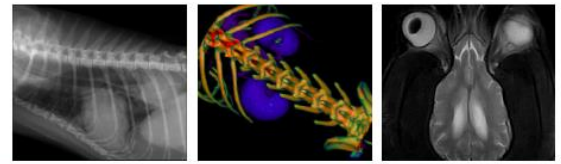
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**PATIENT**

Doby  
Babamohammadi

**SPECIES**

Canine

**BREED**

Shihtzu

**SEX**

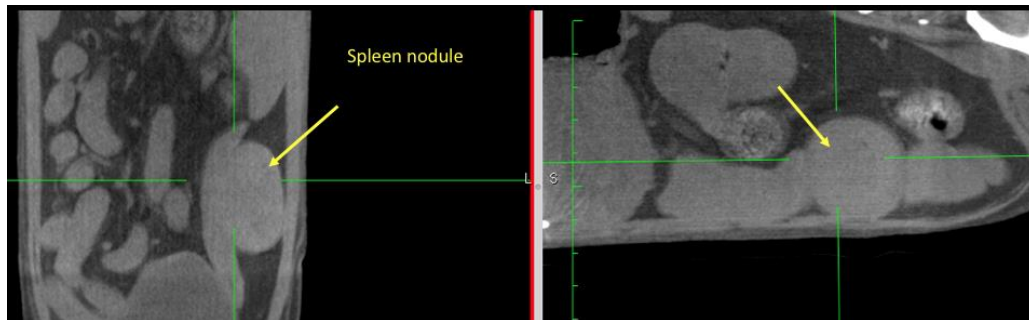
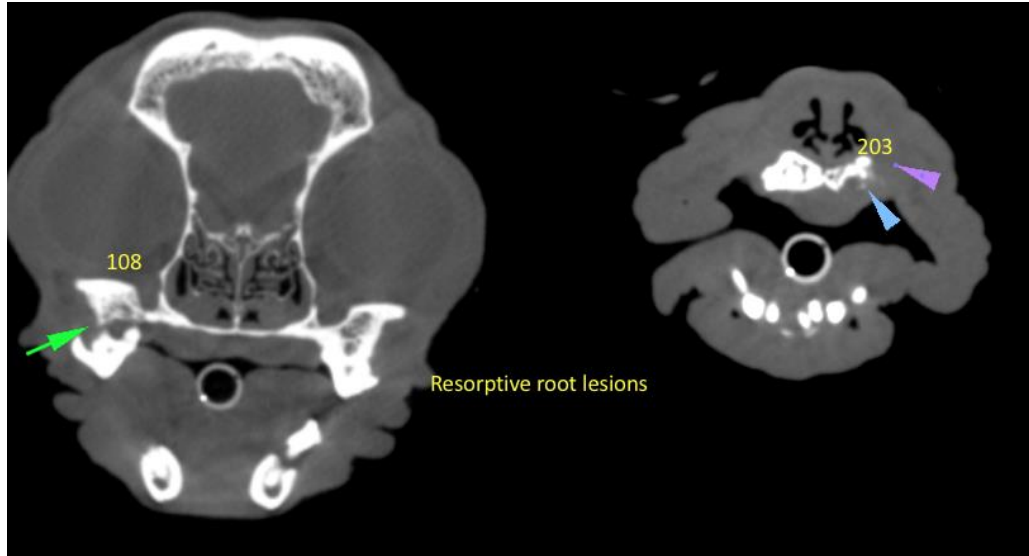
FS

**AGE**

14 Years

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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.

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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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