



**PATIENT PRESENTING CLINICAL SIGNS**

**Tori Allen** History: Tori presented with a 7 month history of progressive neurologic signs. Her first seizure was noted in February 2021. She had 2 additional seizures in June. Another seizure was noted 10 days ago. She lost her ability to walk and hold herself up approximately 10 days ago. The owner feels that she has improved some in the last few days. Appetite is normal. Current medications include carprofen 25 mg 1/2 b.i.d., gabapentin 300 mg 1/2 s.i.d., methocarbamol 500 mg 1/4 tablet t.i.d., Thyro-Tabs 0.1 mg s.i.d. and Keppra 250 mg 1/2 b.i.d. Blood work dated 8/10/21. CBC - PCV = 56%, WBC = 9000, normal differential. Chemistry - ALT = 665, ALP = 799, cholesterol = 491, all else is normal. UA - USG = 1.041, pH = 6.0, 2+ protein, negative sediment.

**SPECIES**

Canine

**BREED**

Shih Tzu

**SEX**

Spayed Female

**AGE**

13 Years

**COMPUTED TOMOGRAPHIC STUDY OF THE SKULL, THORAX AND ABDOMEN**

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

**COMPUTED TOMOGRAPHIC FINDINGS**

**Skull:**

Multiple teeth are absent. The remaining teeth present evidence of moderate to marked periodontal disease.

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

**INTERPRETED BY**

Sebastian Schaub,  
DVM Dr. med. vet.  
DipECVDI

**HOSPITAL NAME**

VetMed Consultants

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

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.

**REFERRING VET**

Angela West

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.

**INVOICE**

12508

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.

**DATE**

8/11/21



**PATIENT** The intervertebral disc C5/C6 presents a moderate left sided protrusion into the vertebral canal, distorting the dural tube at the same level.

Tori Allen

The intervertebral disc space C6/C7 is collapsed and moderate sclerosis of the subchondral bone of the respective intervertebral endplates is seen with moderate spondylosis formation.

**SPECIES**

**Thorax:**

Canine

A lipoma is seen at the cranioproximal aspect of the left brachium, causing focal deviation of the cephalic vein.

**BREED**

Shih Tzu

The spinous process of T1 is incompletely fused.

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.

**SEX**

Spayed Female

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

**AGE**

13 Years

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 normal limits.

The lung parenchyma presents the expected architecture and attenuation behavior.

**INTERPRETED BY**

Sebastian Schaub,  
DVM Dr. med. vet.  
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Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.

**Abdomen:**

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The serosal fat presents normal attenuation behavior. There is no evidence of peritoneal effusion or peritonitis.

Both kidneys present within normal limits for size, shape and organ architecture. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted.

**REFERRING VET**

Angela West

Nodular enlargement of the cranial pole of the right adrenal gland is seen, presenting a uniform soft tissue attenuating parenchyma and heterogeneous contrast enhancement pattern.

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The liver presents with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.

In the mid segment of the spleen, a post contrast heterogeneous mild hypoattenuating ill-defined roundish parenchymal lesion is visible measuring 12 mm in diameter and causing focal rounding of the splenic margins.

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**PATIENT**

Tori Allen The pancreas is evenly contoured, the pancreatic parenchyma is homogeneous and presents uniform contrast enhancement.

**SPECIES**

Canine The position, delineation, wall and content of the gastrointestinal tract are considered within normal limits throughout.

Canine The intervertebral disc T13/L1 is mild to moderately protruding into the vertebral canal, mildly distorting the dural tube at the same level. The pictured parts of the right stifle joint present moderate osteophyte new bone formation.

**BREED**

Shih Tzu A small umbilical hernia is visible

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

**SEX**

- Intervertebral disc protrusion C5/C6 left sided
- Right adrenal mass
- Splenic parenchymal nodule
- Intervertebral disc protrusion T13/L1 with possible dynamic compressive myelopathy
- Degenerative osteoarthritis right stifle joint

**AGE**

- Spina bifida occulta T1
- Structural normal brain
- No evidence of pulmonary metastatic disease

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

Sebastian Schaub, DVM Dr. med. vet. DipECVDI The intervertebral disc protrusion C5/C6 is accentuated on the left side and can be an explanation for the described hemiparesis. Correlate with clinical findings – myelographic CT study can be used for further grading of the degree of compression.

**HOSPITAL NAME**

VetMed Consultants No abnormalities of the brain are noted, the heterogeneous attenuation pattern level with the brain stem is due to beam hardening artefact. In case of strong clinical suspicion for intraparenchymal changes of the brain, a MRI study can be used as an advanced imaging modality.

**REFERRING VET**

Angela West The right adrenal mass can present (non)functional macronodular hyperplasia or primary neoplastic transformation (e.g. adenoma, adenocarcinoma, pheochromocytoma). Recommend testing of the pituitary adrenal axis.

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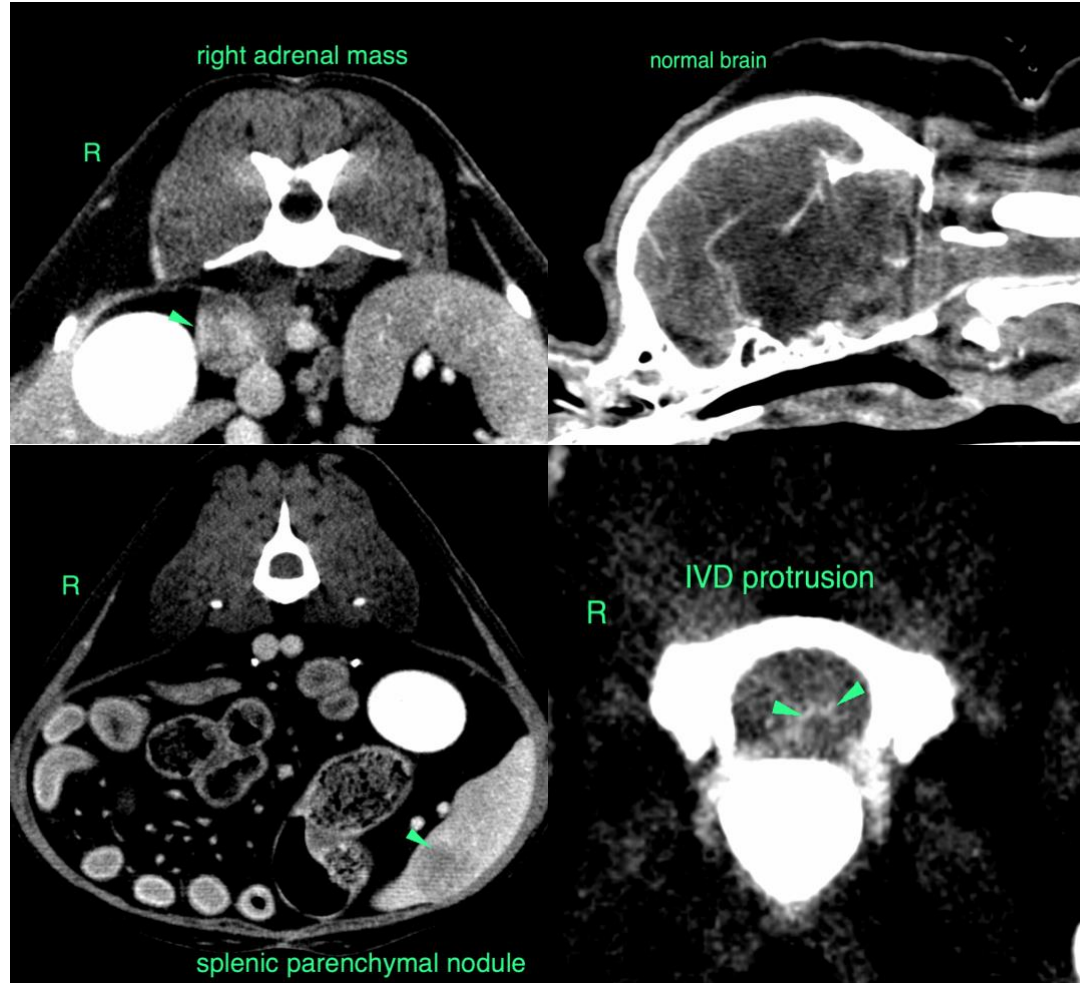
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**REFERRING VET**

Angela West



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.

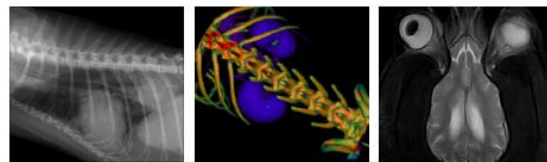
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