



**PATIENT PRESENTING CLINICAL SIGNS**

**Jerry Colon** History: Neuro signs. Owner reported sudden onset of head shake augmented when walking and trip over thoracic limbs.

**SPECIES** Abnormal PE/Chem/CBC/UA Results: CBC --- mild leukopenia CHEM --- unremarkable

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

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

**Yorkshire Terrier** **COMPUTED TOMOGRAPHIC FINDINGS**

**SEX** **Skull**

**Neutered Male** The tooth elements 106, 206, 301-303, 311, 401, 402 and 411 are absent. Triadan 107, 108, 207, 208, 306 and 306 present a moderate widening of the periodontal space. The remainder of the dentition present evidence of moderate periodontal disease.

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

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

**INTERPRETED BY**

**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**

**Veterinary Image Center** 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.

**REFERRING VET**

**Dr. R. Fernandez** The intervertebral disc space C6/C7 is collapsed and the respective vertebral endplates present moderate spondylosis formation and sclerosis of the endplates. The remainder of the osseous and soft tissue structures of the neck – including the cervical spine – are within normal limits.

**INVOICE** **Thorax**

**16666** The bony and surrounding soft tissue structures are within normal limits.

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**PATIENT** 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.  
Jerry Colon

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

**SPECIES** 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.  
Canine

The lung parenchyma presents the expected architecture and attenuation behavior.

**BREED** Small incidental gas pockets are seen within the esophageal lumen, there is no evidence of abnormal dilation.  
Yorkshire Terrier

**Abdomen**

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

**AGE** Both kidneys present within normal limits for size, shape and organ architecture. A mild amount of mineral attenuating material is associated with the renal pelvis bilaterally. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted.  
10 Years

The adrenal glands are within normal limits for size, shape and organ architecture.

**INTERPRETED BY** Both liver and spleen present with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.  
Sebastian Schaub,  
DVM Dr. med. vet.  
DipECVDI

The portal vein presents a normal order of its tributary veins and intrahepatic branching. No abnormal vessel is noted inside and outside of the liver parenchyma.

**HOSPITAL NAME** The pancreas is evenly contoured, the pancreatic parenchyma is homogeneous and presents uniform contrast enhancement.  
Veterinary Image  
Center

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

**REFERRING VET** The intervertebral discs L1/L2 to L5/L6 are mildly protruding into the vertebral canal, distorting the ventral epidural space at the same level. The lumbosacral intervertebral disc is mild to moderately protruding into the vertebral canal, occupying approximately up to 25% of the cross-sectional area of the vertebral canal at the same level.  
Dr. R. Fernandez

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**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Moderate periodontal disease 106, 206, 301-303, 311, 401, 402 and 411

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**PATIENT**

Jerry Colon

- Generalized mild periodontal disease
- Mild to moderate intervertebral disc protrusion L7/S1 with possible dynamic compression of the caudal equina fibers
- Mild intervertebral disc protrusion L1/L2 to L5/L6 without compressive myelopathy
- Chronic discopathy C6/C7 without compressive myelopathy

**SPECIES**

Canine

- Multiple absent teeth
- Normal thorax and thoracic spine

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**BREED**

Yorkshire Terrier

An underlying macromorphological cause of the presenting neurological clinical signs is not detected. However, according to the history an ischemic insult can be a potential differential diagnosis.

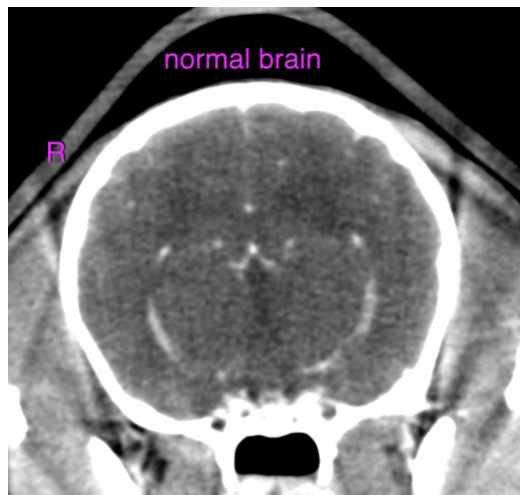
**SEX**

Neutered Male

If not yet done so the workup should be complemented by examination of CSF and complete bloodwork to screen for brain disease that is not necessarily associated with structural changes of the brain parenchyma and rule out other systemic illness. MR imaging may be indicated in case of the strong suspicion of structural parenchymal changes of the brain.

**AGE**

10 Years



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**HOSPITAL NAME**

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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.**

**REFERRING VET**

Dr. R. Fernandez

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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**Sebastian Schaub, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI**  
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**SPECIES**

Canine

**BREED**

Yorkshire Terrier

**SEX**

Neutered Male

**AGE**

10 Years

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