



**PATIENT PRESENTING CLINICAL SIGNS**

**Bentley Wright**  
**SPECIES** Canine  
 Patient has been experiencing neurologic episodes for the past 5 years (Since he was 3 years old.) The episodes are irregular, occurring every 3-4 months, and lasting for up to 4 minutes. Owner is certain these episodes are not seizures. Patient coherent, no loss of bowels, but experiencing sever ataxia. He has had previous radiographs including cervical radiographs by specialist and examinations by specialists - none leading to a diagnosis. Last "episode" was 12/17 and was the first time it occurred twice in one day (9:30am, 4:00pm). Prior episodes to that were 8/30, 4/7, 4/4, 12/13/21.

**BREED** Chihuahua  
 Abnormal PE/Chem/CBC/UA Results: August 2022 BW: sodium 151, Osmolality (Calc) 323, ALT 153 December 2022 BW: ALT(GPT) 184,

**COMPUTED TOMOGRAPHY OF THE SKULL, THORAX AND ABDOMEN**

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

**SEX COMPUTED TOMOGRAPHIC FINDINGS**

**MC**  
Skull

The tooth elements 106, 206, 305 and 405 are absent.

**AGE** 8 Years  
 The nasal cavity presents the expected aerated spaces between thin & even conchae and turbinates with smooth mucosal lining.

**INTERPRETED BY** Sebastian Schaub, DVM  
 Dr. med. vet. DipECVDI  
 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.

**HOSPITAL NAME** Animal Emergency Hospital Deland  
 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.

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** Dr. Schwanebeck  
 A stitching artifact is seen level with the caudal cervical spine.

Thorax

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

**INVOICE** 55837  
 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.

**DATE** 12-26-22  
 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 normal limits.



**PATIENT**

The lung parenchyma presents the expected architecture and attenuation behavior.

Bentley Wright

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

**SPECIES**

Abdomen

Canine

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

**BREED**

Chihuahua

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.

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

Both liver and spleen present with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.

**SEX**

MC

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.

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

**AGE**

8 Years

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

**INTERPRETED BY**

The bony and surrounding soft tissue structures reveal no abnormalities.

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Multiple absent teeth
- Normal thorax
- Normal abdomen, no evidence of portosystemic shunt – neither intra- nor extrahepatic

**HOSPITAL NAME**

Animal Emergency  
Hospital Deland

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

In the present study of the brain there is no evidence of macromorphological disease, explaining the presenting clinical signs.

**REFERRING VET**

Dr. Schwanebeck

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 hepatoencephalopathy and other systemic illness. In case of the strong clinical suspicion of structural intraparenchymal changes of the CNS an MRI may be considered.

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No macroscopic vascular bypass of the liver was noted in the pre- and post- contrast studies of the abdomen. However, if the clinical signs are consistent with insufficiency of the liver primary non-cirrhotic portal hypertension (microvascular dysplasia) or other diffuse parenchymal liver disease would still be a potential and should be ruled out by means of ultrasound guided or surgical liver biopsy

**DATE**

12-26-22



**PATIENT**

Bentley Wright

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

MC

**AGE**

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**HOSPITAL NAME**

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Hospital Deland

**REFERRING VET**

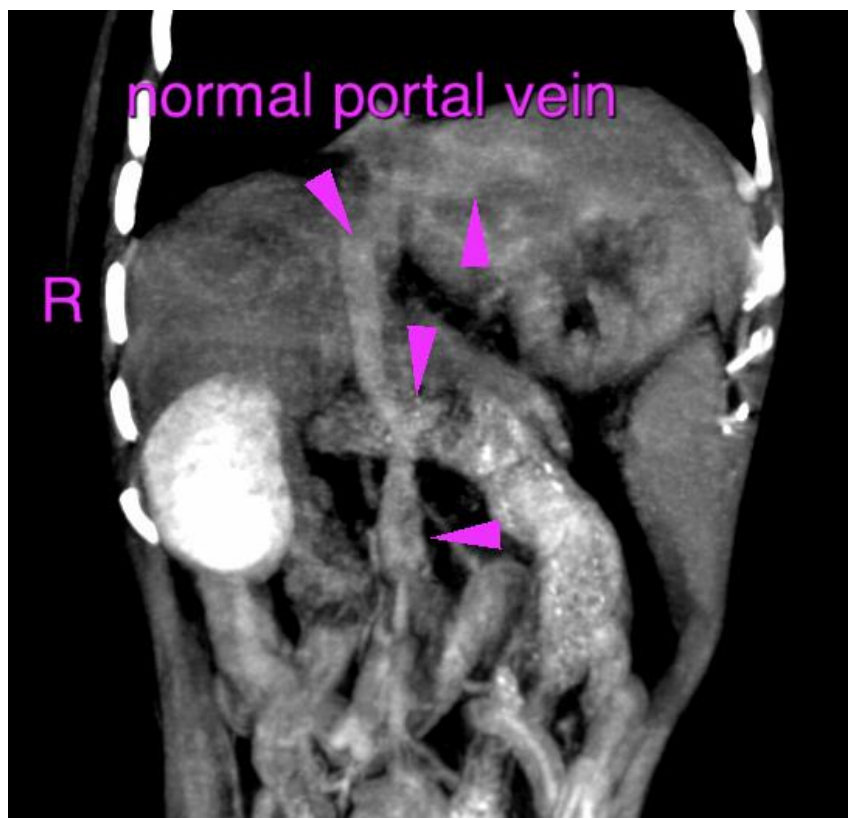
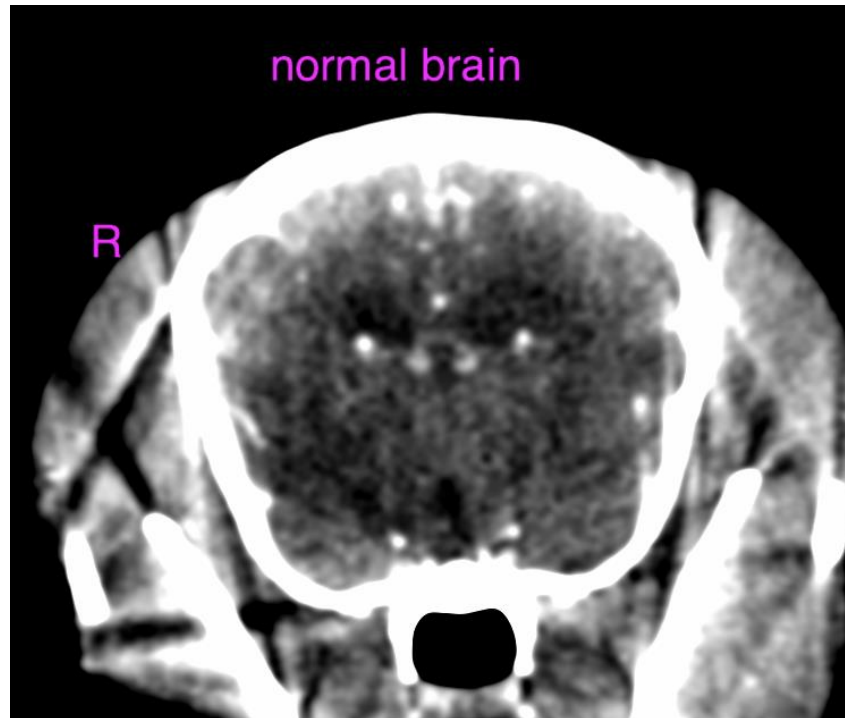
Dr. Schwanebeck

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**SPECIES**

Canine

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.

**BREED**

Chihuahua

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.

**Sebastian Schaub**, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI  
sebast.schaub@gmail.com

**SEX**

MC

**AGE**

8 Years

**INTERPRETED BY**

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