



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Spooky Donovan **PRESENTING CLINICAL SIGNS** History: Patient has a history of seizures every 6 months for the past 2-3 years. A month ago, pet started to have seizure every other day to once a day. 3 days ago started to have seizures daily with extended duration. On physical exam, he is mentally inappropriate, dull, and paddling. He has severe generalized ataxia and absent CPs in all four limbs.

SPECIES Canine **Abnormal PE/Chem/CBC/UA Results:** History of elevated ALT and bile acids (pre- and post-prandial), decreased BUN, glucose, and glob/alb

BREED COMPUTED TOMOGRAPHIC STUDY OF THE SKULL AND ABDOMEN

BREED Yorkie/Biewer **COMPUTED TOMOGRAPHIC STUDY OF THE SKULL AND ABDOMEN** A high resolution pre- and post-contrast CT study of the skull and abdomen are provided for review.

SEX COMPUTED TOMOGRAPHIC FINDINGS

SEX Spayed Female **Skull**
The tooth elements 105, 106, 205, 206, 301, 305, 311, 401, 405, 406 and 411 are absent. The remaining teeth present evidence of generalized mild periodontal disease.

AGE 6 Years **Abdomen**
The nasal cavity presents the expected aerated spaces between thin & even conchae and turbinates with smooth mucosal lining.

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

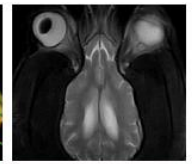
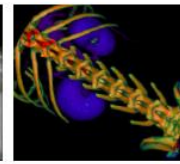
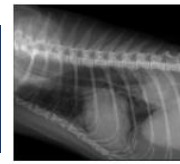
Sebastian Schaub, DVM
Dr. med. vet. DipECVDI **Abdomen**
Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external ear canals are within normal limits.

HOSPITAL NAME Mobile Pet Imaging **Abdomen**
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. Seraydar **Abdomen**
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.

INVOICE 19018 **Abdomen**
The serosal fat presents normal attenuation behavior. There is no evidence of peritoneal effusion or peritonitis.

DATE 12/5/22 **Abdomen**
Both kidneys present irregular margins with multiple concave depression of the renal capsule and wedge-shaped post contrast hypoattenuating parenchymal regions. Staghorn calculus formation is seen in the renal pelvis bilaterally.



PATIENT

Spooky Donovan

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

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

SPECIES

Canine

The hepatic volume is moderately decreased, the gastric axis is oriented cranially.

BREED

Yorkie/Biewer

The left gastric vein is dilated, measuring approximately 2.5x the diameter of the paralleling portal vein at the same level. The portal vein is tapering in its course cranially. Originating from the dilated left gastric vein, an anomalous vascular loops is coursing cranially and dorsally – beyond the gastric fundus – in a tortuous manner, draining into the dilated azygos vein. The anomalous vascular loop originating from the left gastric vein is measuring 4.6 mm in diameter.

SEX

Spayed Female

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

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

AGE

6 Years

The bony and surrounding soft tissue structures reveal no abnormalities.

COMPUTED TOMOGRAPHIC DIAGNOSIS

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

- Congenital single extrahepatic portosystemic shunt, left gastric vein to azygos vein (porto-azygos shunt)
- Mild microhepatica
- Nephrolithiasis bilaterally
- Bilateral chronic renal infarcts
- Generalized mild periodontal disease
- Multiple absent teeth
- Normal brain

HOSPITAL NAME

Mobile Pet Imaging

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Dr. Seraydar

The current CT study is consistent with a congenital single extrahepatic portosystemic shunt (left gastric vein to azygos vein) which is a plausible explanation of the described clinical signs. Patients with a porto-azygos may present clinical signs later in life, up to 6-7 years of age. Secondary mild microhepatica and likely ammonium-urate calculus in the renal pelvis.

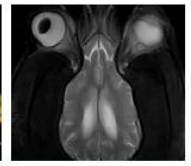
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Surgical intervention by a slow progressive closure technique (ameroid constrictor, cellophane banding) is the therapy of choice. Ligation of the shunt vessel may be feasible as well if there is no evidence of portal hypertension during digital compression of the shunting vessel. Empirical treatment until surgery along with feeding of a hepatic diet is recommended.

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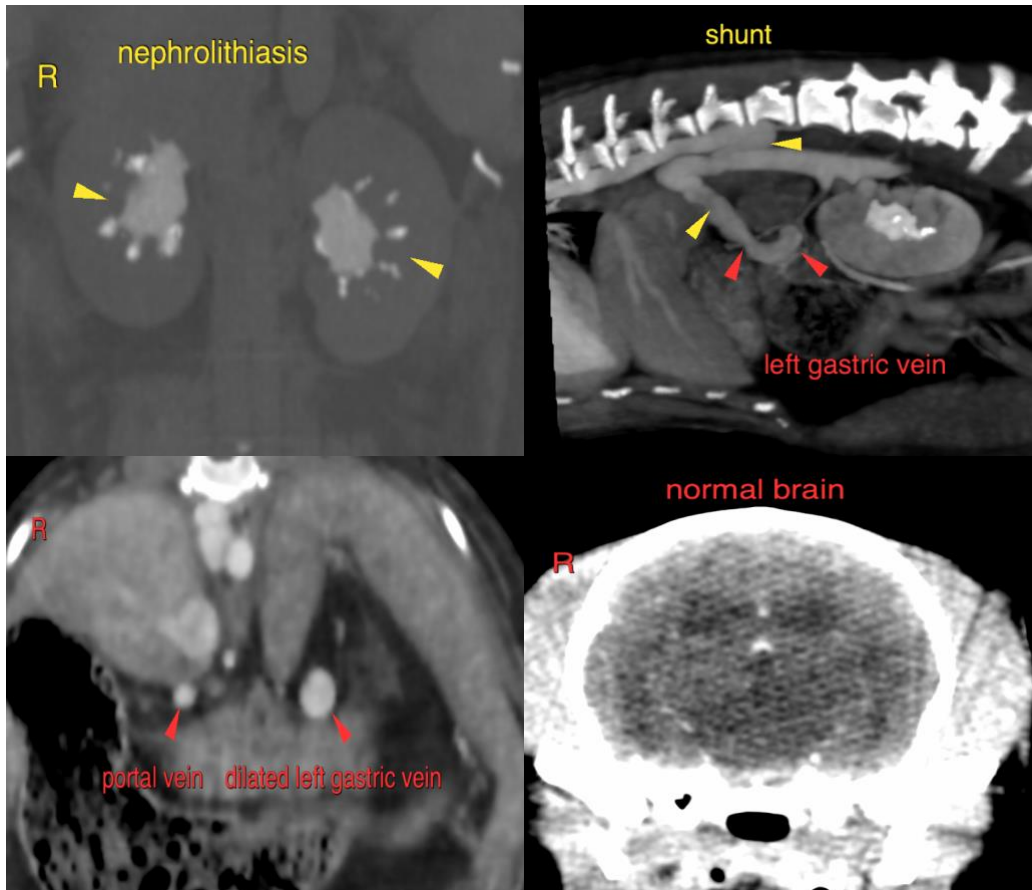
Dr. Seraydar

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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.

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