



**PATIENT PRESENTING CLINICAL SIGNS**

Prince SO OR Humane Prince presents for an internal consult regarding a inappetence, smaller size compared to his littermates, underweight, excessive sleeping, abnormal mentation, His parvo test was negative. An abdominal ultrasound was preformed on 5/30/23 which showed a small liver and was suggestive of a shunt or MVD. His , which is seen most frequently with a macroscopic shunt (either portocaval or portoazygous). Protein C is low, which also is most consistent with a macroscopic shunt. It is still possible that he has severe liver dysfunction from other disease or microvascular dysplasia. CT for assessment for possible surgical correction of shunt

**SPECIES** Canine  
**BREED** Yorkshire Terrier  
 Abnormal PE/Chem/CBC/UA Results: ALP 352 (46-337), ALT 211 (8-75), GGT 11 (0-2), BUN 3 (7-29), HCT 39%bile acids were 5-30 pre = 56.1, post = 126.1. Prince's post-prandial bile acids level is > 100

**COMPUTED TOMOGRAPHY OF THE ABDOMEN**

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

**SEX COMPUTED TOMOGRAPHIC FINDINGS**

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

**AGE** 14 Weeks Both kidneys present an increased volume and are within normal limits for shape and organ architecture. After contrast administration a bilaterally symmetric and uniform nephro- and pyelogram is noted. In the urinary bladder a small amount of gravity dependent mineral attenuating material is seen.

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

Sebastian Schaub, DVM Dr. med. vet. DipECVDI The spleen presents with normal shape, even surface, uniformly attenuating parenchyma and homogeneous contrast enhancement, unremarkable.

The hepatic volume is decreased and the gastric axis is oriented cranially.

**HOSPITAL NAME** Southern Oregon Veterinary Specialty Center The portal vein presents a normal order of its tributary veins. The right lateral and middle intrahepatic branch of the portal vein can only be appreciated as a small bump of the portal vein. Originating from the proximal segment of the left intrahepatic branch of the portal vein, a short anomalous vascular loop between the portal vein and a dilated left hepatic vein is appreciated; measuring approximately 6.5 mm in diameter.

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

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

**INVOICE** The bony and surrounding soft tissue structures reveal no abnormalities.

- 59181
- COMPUTED TOMOGRAPHIC DIAGNOSIS**
- Left divisional intrahepatic portosystemic shunt
  - Secondary renomegaly
  - Secondary microhepatica
  - Cystolithiasis – suspect ammonium urate

**DATE**  
7-5-23



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

Prince SO OR  
Humane

The CT study is confirming the diagnosis of a portosystemic shunt, presenting a left divisional intrahepatic shunt, draining to a left hepatic vein. Shunt closure using a slow progressive closure technique (e.g. interventional coil embolization or open surgical technique) is the therapy of choice. Empirical treatment until surgery along with feeding of a hepatic diet is recommended.

**SPECIES**

Canine

**BREED**

Yorkshire Terrier

**SEX**

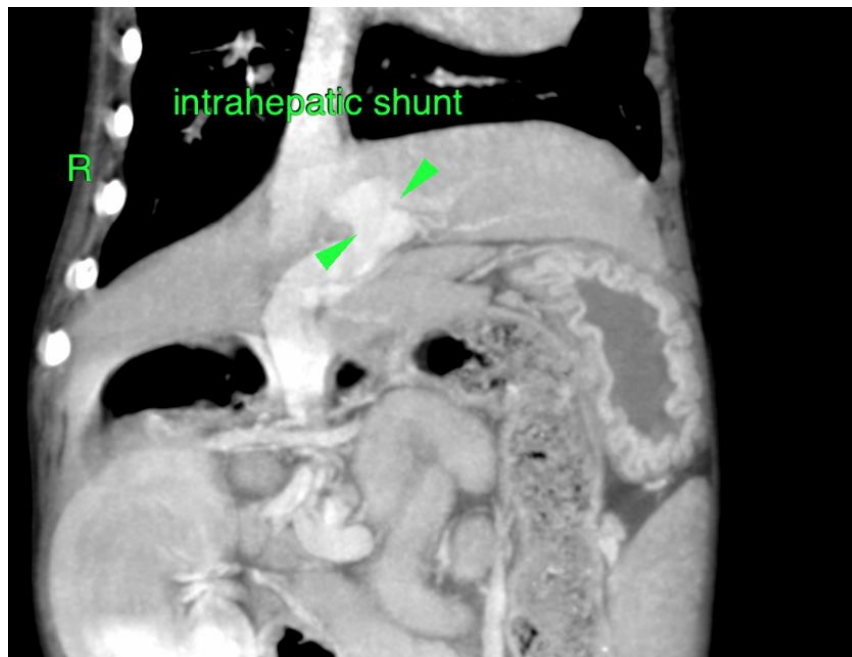
Male

**AGE**

14 Weeks

**INTERPRETED BY**

Sebastian Schaub, DVM  
Dr. med. vet. DipECVDI



**HOSPITAL NAME**

Southern Oregon  
Veterinary Specialty  
Center

**REFERRING VET**

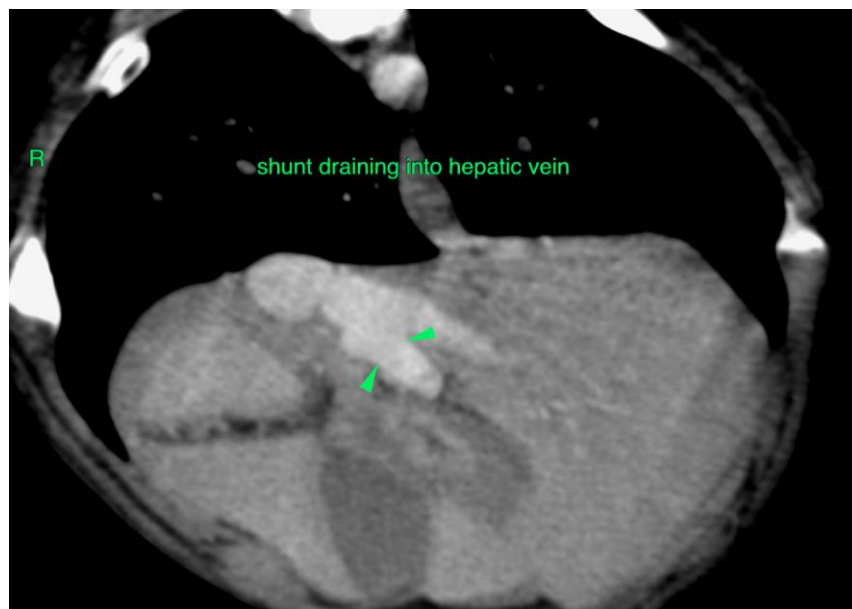
Kimberly Winters

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**PATIENT**

Prince SO OR  
Humane

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.

**SPECIES**

Canine

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.

**BREED**

Yorkshire Terrier

**Sebastian Schaub**, Sebastian Schaub, DVM, Dr. med. vet. DipECVDI  
[info@sonopath.com](mailto:info@sonopath.com)

**SEX**

Male

**AGE**

14 Weeks

**INTERPRETED BY**

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**HOSPITAL NAME**

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**REFERRING VET**

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