



**PATIENT PRESENTING CLINICAL SIGNS**

Sadie Roxby Presented for a history of head pressing, lethargy - noted after eating.  
 Abnormal PE/Chem/CBC/UA Results: Alb 1.9 Tp 4.6 Ca 7.8 Alp 320 Col 80 Hct 35% Nh3 338

**SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE ABDOMEN AND THORAX**

Canine A high-resolution pre-and post-contrast CT study of the abdomen and thorax are provided for review. Performed a CTA liver angiography, pre-contrast and post-contrast phase of full abdomen and thorax, totaling 7 series.

**BREED**

Yorkshire Terrier

**COMPUTED TOMOGRAPHIC FINDINGS**

**Abdomen**

**SEX** There is a moderate length anomalous shunting vessel that emerges from the splenic vein feeding into the caudal vena cava at the level of the cranial pole of the right kidney. The shunt vessel reaches a maximum diameter of approximately 0.66 to 0.68cm, and the portal vein in the portal hepatis reaches a maximum diameter of approximately 0.34cm. The hepatic caudal vena cava is distended.

FS

**AGE**

The liver is severely small in size, and the gastric axis is shifted cranially. The gallbladder is unremarkable, moderately hypoattenuating fluid distended.

8 Months

The kidneys are subjectively enlarged, with normal shape, and regular contour. No evidence of mineral attenuating structures is seen within the renal pelvis of the right and left kidneys.

**INTERPRETED BY**

Tilde Rodrigues Froes, DMV, MSc., Dr. Med Vet., Dipl. CBraRVet

No mineral attenuating calculi are visible within the urinary bladder.

The spleen is normal in size, homogeneously soft tissue attenuating, and uniformly contrast enhancing.

The stomach is moderately distended and contains a moderate amount of homogeneous attenuating fluid material admixed and gas.

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The duodenum and small intestine are moderately dilated and contain moderate homogeneous hypoattenuating fluid content and gas.

The colon is moderately to severely distended and contains gas admixed with heterogeneous soft tissue attenuating fecal material.

**REFERRING VET**

Dr. Runde

The pancreas and mesentery are normal.

The abdominal lymph nodes and adrenal glands are normal.

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No other abnormalities are identified.

**Thorax**

The thoracic trachea is normal in luminal diameter and position.

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The lumen of the main bronchus is normal.



**PATIENT** The pulmonary expansion and attenuation are normal.

Sadie Roxby The cardiac silhouette and pulmonary vessels are normal. The contrast media adequately fills the cardiac chambers and vessels on post-contrast series.

**SPECIES** The sternal, tracheobronchial, and cranial mediastinal lymph nodes are unremarkable.

Canine The pleural space and diaphragm are normal.

The thoracic musculoskeletal structures are unremarkable, juvenile open physes.

**BREED** **COMPUTED TOMOGRAPHIC DIAGNOSIS**

Yorkshire Terrier

- Spleno-caval extra-hepatic shunt with secondary microhepatia.
- Bilaterally symmetric compensatory renomegaly.
- Moderate gastric distention and diffuse intestinal dilatation, functional ileus.
- Normal thorax.

**SEX**

FS

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**AGE**

The suspected congenital portosystemic shunt is confirmed. Bilateral pinpoint mineral nephrolithiasis is seen. Gastrointestinal functional ileus is usually correlated with shunt disease.

8 Months

A consultation with a specialized center is recommended to discuss the best option for surgical treatment.

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**PATIENT**

Sadie Roxby

**SPECIES**

Canine

**BREED**

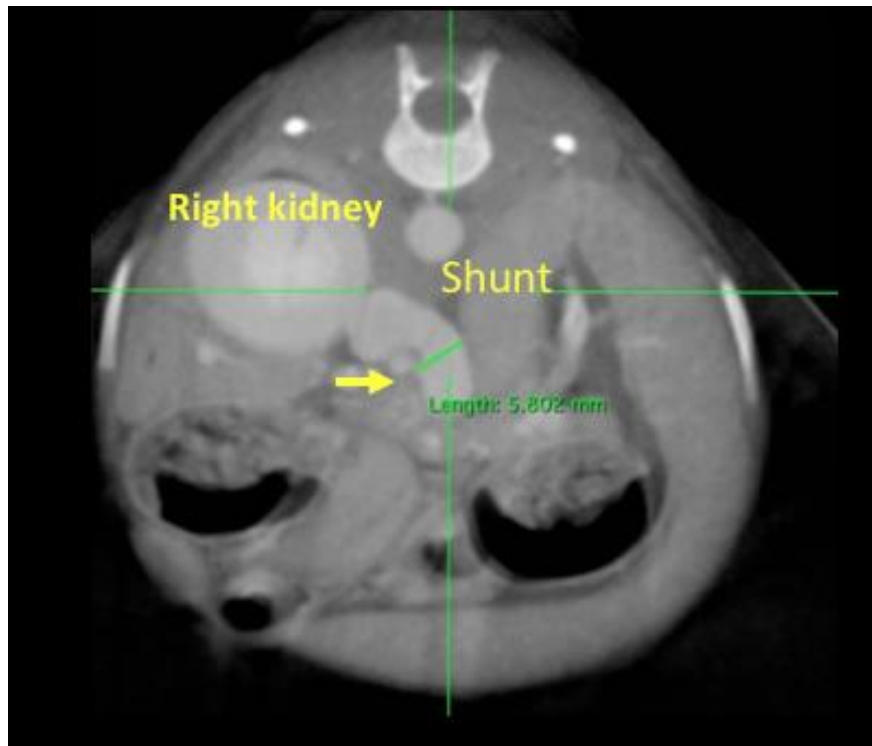
Yorkshire Terrier

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**PATIENT**

Sadie Roxby

**SPECIES**

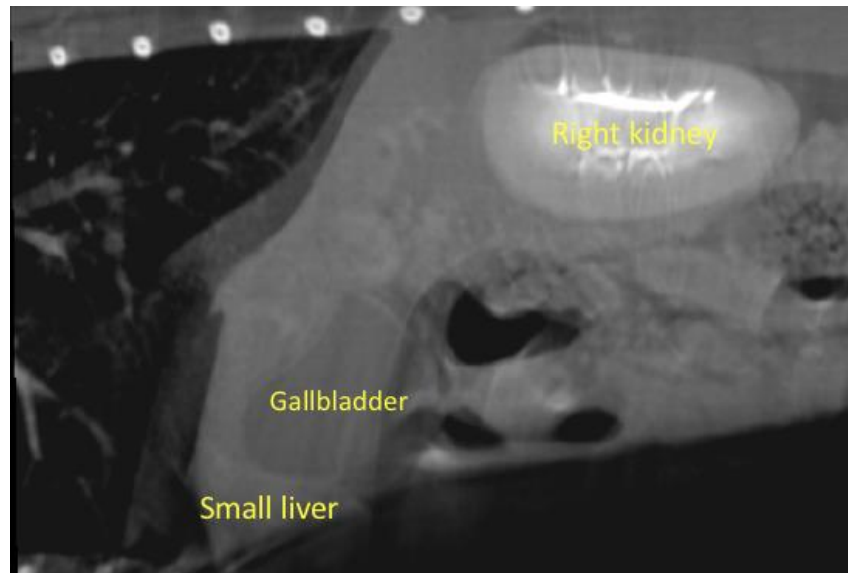
Canine

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Yorkshire Terrier

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**AGE**

8 Months

**INTERPRETED BY**

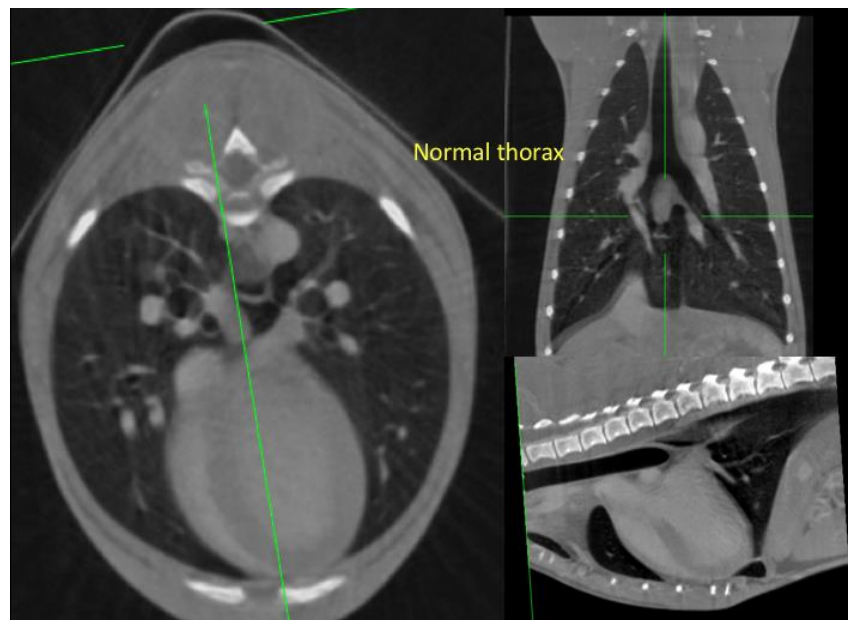
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**PATIENT**

Sadie Roxby

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.

**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.

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