



PATIENT PRESENTING CLINICAL SIGNS

Baron Nichols Presented for pu/pd, vomiting, yelping in pain, crying, and not eating well. Severe back pain and a right cranial abdominal mass noted.
 Abnormal PE/Chem/CBC/UA Results: Neut 11.97 k/uL Albumin 4 g/dL Alt 330 u/l

SPECIES COMPUTED TOMOGRAPHY OF THE THORAX AND ABDOMEN

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

BREED COMPUTED TOMOGRAPHIC FINDINGS

Shepherd Mix Thorax

The vertebral endplates T4/T5 present mild spondylosis formation.

SEX 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.

MN

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

AGE 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.

8

INTERPRETED BY The lung parenchyma presents the expected architecture and attenuation behavior with randomly interspersed punctuate mineralization. Compression atelectasis of the caudodorsal aspects of the lung parenchyma is seen.

Sebastian Schaub, DVM
 Dr. med. vet. DipECVDI

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

HOSPITAL NAME Abdomen

Northeast Veterinary Referral Hospital

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

REFERRING VET 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.

Dr. Runde

Originating from the right adrenal gland, an irregular marginated, soft tissue attenuating and mild irregular contrast enhancing mass is seen, measuring 4.6 x 4.0 x 7.0 cm in size. The fat at the caudal pole of the right adrenal mass presents moderate fat-stranding. The right adrenal mass is in close contact with the caudal vena cava at the same level, which is distorted - level with the orifice of the phrenicoabdominal vein in the caudal vena cava, an intraluminal filling defect is seen, occupying approximately 60% of the cross-sectional area of the caudal vena cava at the same level.

INVOICE

53380

DATE

8-10-22

The left adrenal gland is prominent, measuring up to 11 mm in diameter; the contrast enhancement pattern is mildly irregular.

In the retroperitoneal space, ventral to the aorta, level with L3/L4, a well-defined uniform soft tissue attenuating and peripheral contrast enhancing spherical mass, measuring 4.9 cm in size is



PATIENT

seen. The retroperitoneal mass presents a hypoattenuating center.

Baron Nichols

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

SPECIES

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.

Canine

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

BREED

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

Shepherd Mix

The bony and surrounding soft tissue structures reveal no abnormalities.

COMPUTED TOMOGRAPHIC DIAGNOSIS

SEX

MN

- Right adrenal soft tissue mass with vascular invasion and signs of mild retroperitoneal hemorrhage
- Left sided adrenomegaly with heterogeneous contrast enhancement pattern
- Likely cavitory retroperitoneal mass level L3/L4
- No evidence of pulmonary metastatic disease

AGE

8

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

The findings are consistent with primary neoplasia originating from the right adrenal gland and carcinoma or pheochromocytoma is the top differential here. The mass presents evidence of invading the caudal vena cava with tumor thrombus formation. The fat stranding at the caudal aspect of the mass is suggestive for hemorrhage. The retroperitoneal cavity lesion can present hematoma formation as there appears to be a connection to the adrenal mass, walled off by a contrast enhancing capsule and is considered likely here. Myxoid producing carcinoma, hemangiosarcoma, or abscess (would expect surrounding inflammatory changes) are potentials. The therapy of choice would be right sided adrenalectomy – may warrant venotomy.

HOSPITAL NAME

Northeast Veterinary
Referral Hospital

The left adrenal enlargement can present (non)functional macronodular hyperplasia or neoplastic transformation of the left adrenal gland (e.g. adenoma, adenocarcinoma, pheochromocytoma).

REFERRING VET

Dr. Runde

INVOICE

53380

DATE

8-10-22



PATIENT

Baron Nichols

SPECIES

Canine

BREED

Shepherd Mix

SEX

MN

AGE

8

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

HOSPITAL NAME

Northeast Veterinary
Referral Hospital

REFERRING VET

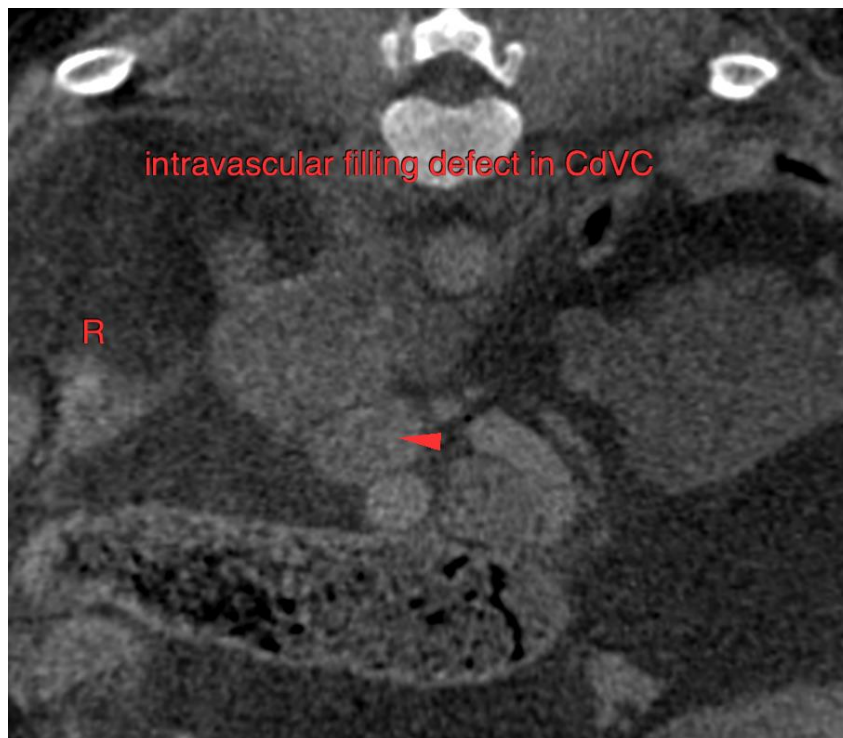
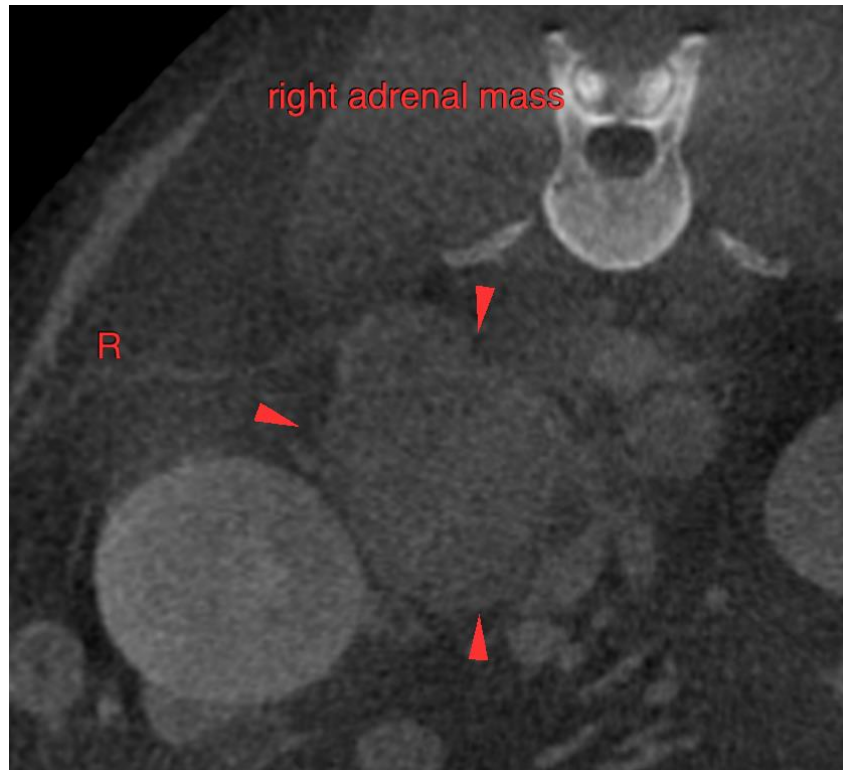
Dr. Runde

INVOICE

53380

DATE

8-10-22





PATIENT

Baron Nichols

SPECIES

Canine

BREED

Shepherd Mix

SEX

MN

AGE

8

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

HOSPITAL NAME

Northeast Veterinary
Referral Hospital

REFERRING VET

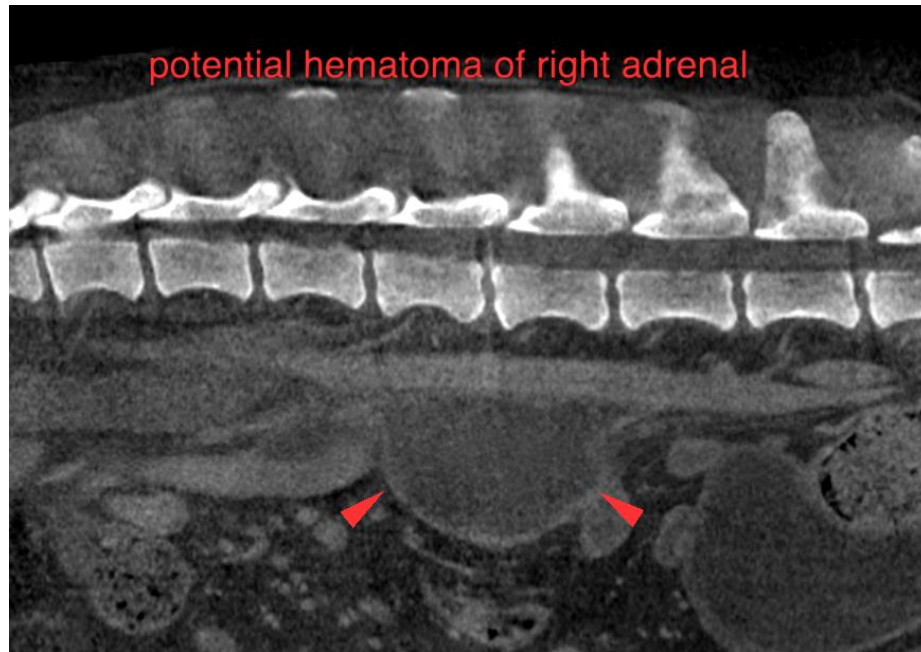
Dr. Runde

INVOICE

53380

DATE

8-10-22



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
sebast.schaub@gmail.com