



**PATIENT**

Ruthie Martin

**PRESENTING CLINICAL SIGNS**

Cushings workup. Has elevated ACTH stim and instead of doing ultrasound owner wants to do CT. Lack of hair growth, significant weight, and muscle loss. Some panting reported along with mild increase in water intake.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Worn canine teeth and others. Dental tartar

**BREED**

Labrador Retriever

**COMPUTED TOMOGRAPHIC STUDY OF THE HEAD, THORAX, & ABDOMEN**

Plain and post contrast studies of the head and abdomen and post contrast study only of the thorax available for review.

**COMPUTED TOMOGRAPHIC FINDINGS**

**Abdomen**

**SEX**

Female Spayed

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

**AGE**

11 Years

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.

An 18mm sized heterogeneously enhancing mass is seen within the cranial pole of the left adrenal gland. The right adrenal gland presents within normal limits.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

A 10.0 cm sized expansile cavitating mass with heterogeneous enhancement is arising from the splenic head. The remainder of the spleen presents diffuse heterogeneous contrast enhancement.

**HOSPITAL NAME**

Mobile Pet Imaging

No overall increase in liver size is seen; however, multiple mineral attenuating foci are distributed throughout the liver parenchyma. The gallbladder is moderately distended. A moderate amount of mildly hyperattenuating sediment is seen within the gallbladder.

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

**REFERRING VET**

Meaux

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

Spondyloses are noted at T11/12, T12/13, and L7/S1.

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**Thorax**

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 are uniform and considered within normal limits.

**DATE**

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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



**PATIENT** normal limits.

Ruthie Martin The lung parenchyma presents the expected architecture and attenuation behavior.

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

Canine **Head**

**BREED** The pituitary gland presents minimal enlargement and measures 7mm in height (reference range 6mm).

Labrador Retriever Thin and smoothly folded conchae and turbinates with even smooth mucosal lining.

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

Female Spayed Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The external auditory meatuses present within normal limits.

**AGE** 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.

11 Years The salivary glands present within normal limits.

**INTERPRETED BY** The dentition is incomplete. Triadan 108 is absent except for a small root remnant. Horizontal abrasion of the canine teeth is seen.

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Expansile cavitating splenic mass with heterogeneous enhancement of the remainder of the spleen.
- Left adrenal gland mass without evidence of vascular invasion.
- Hepatopathy with multifocal parenchymal mineralization.
- Gallbladder sludge.
- Minimal pituitary gland enlargement.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**HOSPITAL NAME**

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Differential diagnosis for the splenic mass includes hematoma as well as neoplasia such as hemangioma or hemangiosarcoma. At this point, there is no evidence of peritoneal effusion / hemorrhage noted. However, timely splenectomy is strongly recommended.

**REFERRING VET**

Meaux

The diffuse heterogeneous enhancement of the remainder of the spleen may represent extramedullary hematopoiesis, nodular hyperplasia, or diffuse infiltrative disease.

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Differential diagnosis for the adrenal gland mass includes functional / nonfunctional adenoma or adenocarcinoma as well as pheochromocytoma. However, based on the clinical history, functional adenoma or adenocarcinoma appear most likely.



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The mild pituitary gland enlargement is likely to represent a normal variant, however, concurrent pituitary adenoma and adrenal adenoma/adenocarcinoma cannot be ruled out entirely.

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Canine

It is notable that there is no hepatic enlargement at this point. The parenchymal mineralization is likely to be benign and may be situated within the biliary system or hepatic parenchyma. Consider cholangiohepatitis or other hepatitis a potential. Neoplastic pathology is thought unlikely based on the CT findings.

**BREED**

Labrador Retriever

**SEX**

Female Spayed

**AGE**

11 Years

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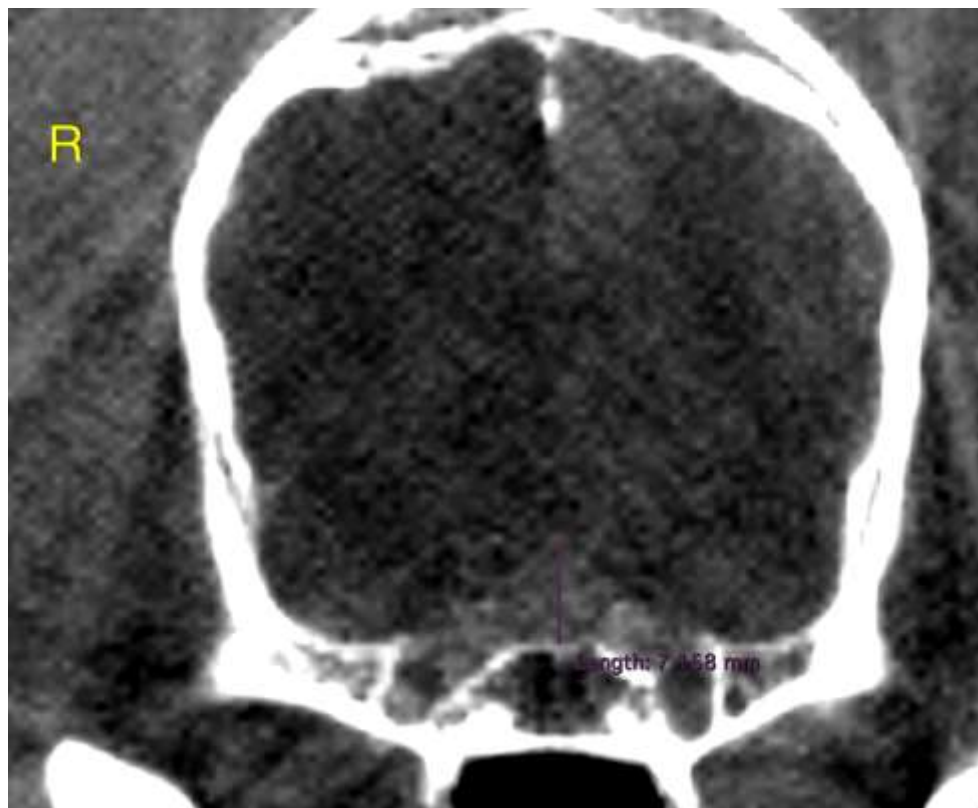
Meaux

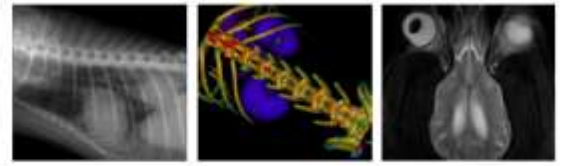
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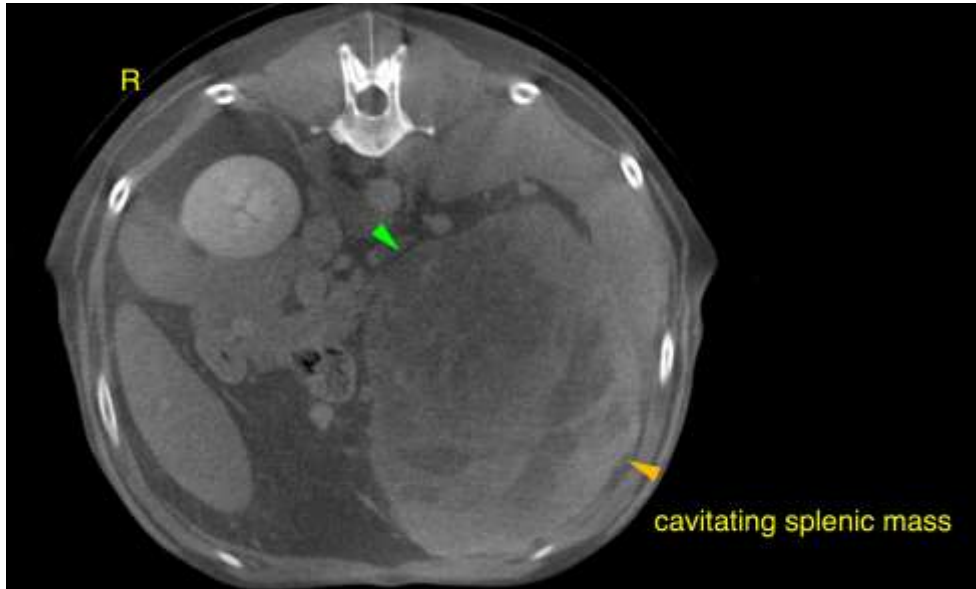
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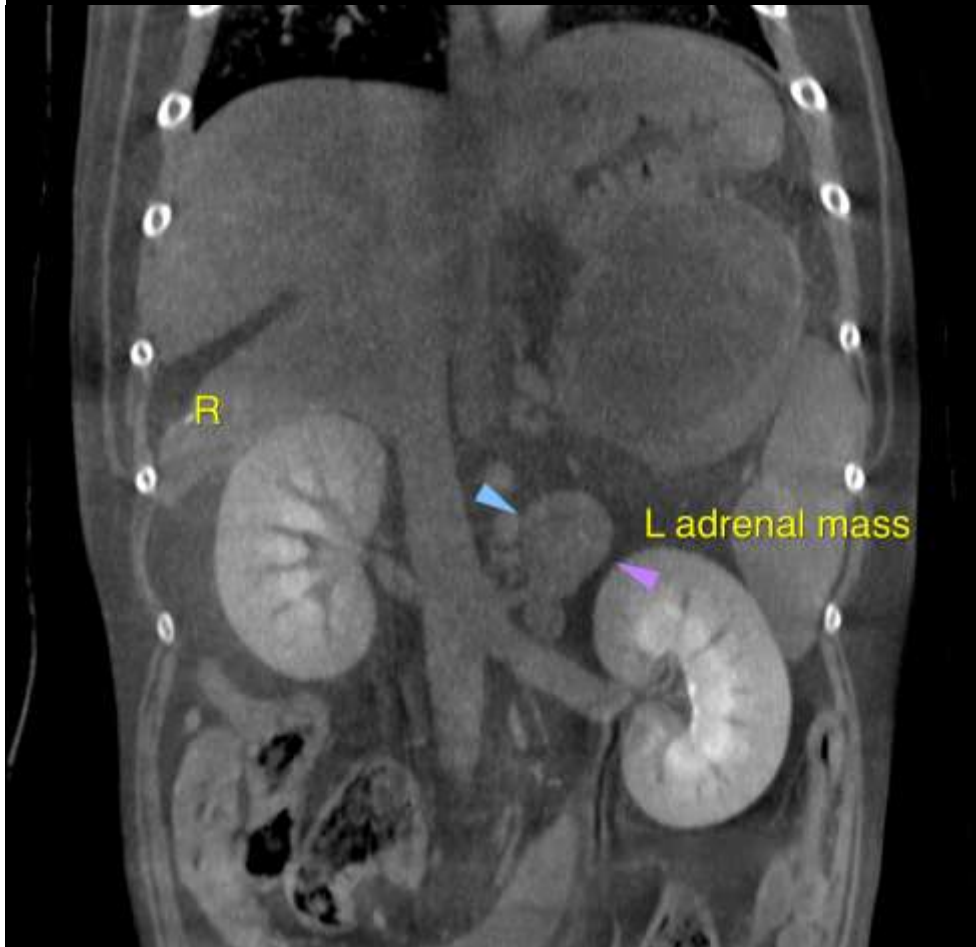
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cavitating splenic mass



L adrenal mass



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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.

**BREED**

Labrador Retriever

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