



**PATIENT**

Crystal Adams

**PRESENTING CLINICAL SIGNS**

Presented for severe pu/pd. Diagnosed with hyperadrenocorticism and treated with trilostane. No improvement in clinical signs with actual worsening signs as trilostane dose was increased. Owner also reports that she seems 'out of it' sometimes  
Abnormal PE/Chem/CBC/UA Results: Alp>2000 u/l

**SPECIES**

Canine

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

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

**BREED**

Chihuahua

**COMPUTED TOMOGRAPHIC FINDINGS**

**Abdomen**

**SEX**

Suture material from prior celiotomy is seen in the ventral abdominal midline.

FS

The abdominal cavity is voluminous.

**AGE**

15

Moderate generalized enlargement of the liver with multiple hypoenhancing nodules is seen.

Polypoid hyperplasia of the gallbladder wall is noted.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

Both adrenal glands are plump in shape with average pole diameters of 7.5mm. No evidence of an adrenal gland mass is seen.

Both kidneys are irregular in shape, small in size with heterogeneous nephrogram, delayed pyelogram, and multiple cortical renal cysts. Mineral attenuating foci are noted in the renal diverticuli of both kidneys.

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Referral Hospital

Occasional small hyperenhancing splenic nodules are seen.

**Thorax**

A chronic healing fracture of the 2<sup>nd</sup> right rib is noted.

**REFERRING VET**

Dr. Runde

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.

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

**INVOICE**

52938

Partial lobar atelectasis of the left cranial and left caudal lobes is seen.

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

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**Head**

The brain presents no deviation from normal anatomy and symmetry. The grey and white matter



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distinction and the neuroparenchymal attenuation are as expected. The distribution of contrast enhancement is within normal limits throughout the parenchyma and meninges. The ventricular system is non-dilated and within the limits of the expected volume and symmetry. The pituitary gland presents within normal limits. No evidence of pituitary gland enlargement is seen.

**SPECIES**

Canine

Thin and smoothly folded conchae and turbinates with even smooth mucosal lining. The osseous lining of the nasal cavities is intact.

**BREED**

Chihuahua

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

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.

**SEX**

FS

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.

The salivary glands present within normal limits.

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The dentition is incomplete. Multifocal severe periodontal disease is noted and there is moderate atrophy of the alveolar crest in all quadrants.

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

**INTERPRETED BY**

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Dr. med. Vet. DipECVDI

- Mild bilaterally symmetric adrenomegaly.
- No evidence of a pituitary mass.
- Hepatomegaly with multiple nodules.
- Gallbladder wall polypoid hyperplasia.
- Occasional splenic nodules.
- Bilateral chronic hypercalcemic nephropathy.
- Healing rib fracture and periodontal disease – both unlikely to be related to the current clinical presentation.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**REFERRING VET**

Dr. Runde

The findings suggest presence of bilateral adrenal gland enlargement in terms of hyperplasia. The borderline measurements suggest (partial) response to the medical treatment. Presence of a pituitary microadenoma should be considered.

The liver changes are compatible with endocrine hepatopathy. Diffuse infiltrative disease cannot be ruled out entirely but is thought less likely. Correlate with the laboratory values.

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The renal changes are compatible with chronic nephropathy/chronic nephritis. Decreased renal excretion appears to be a potential.

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The splenic nodules are compatible with benign nodular hyperplasia. Neoplastic disease is thought unlikely.



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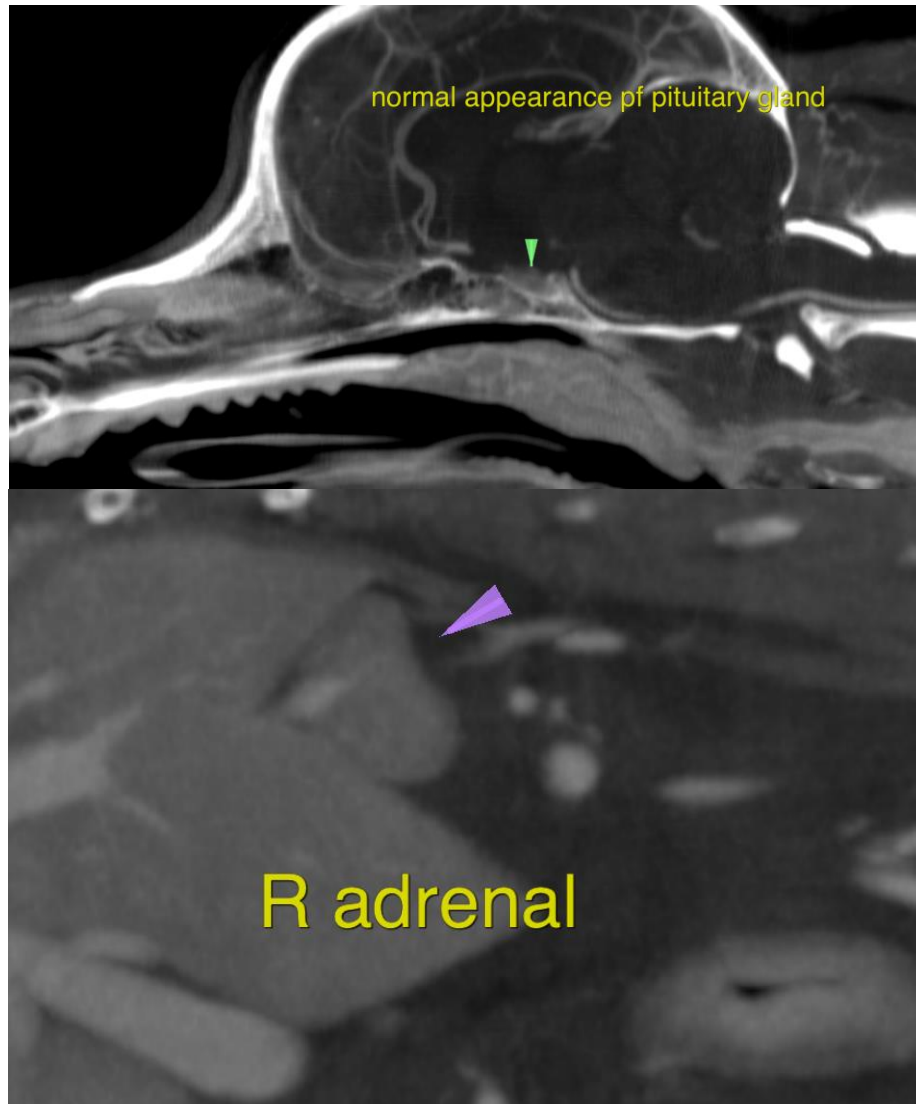
Dr. Runde

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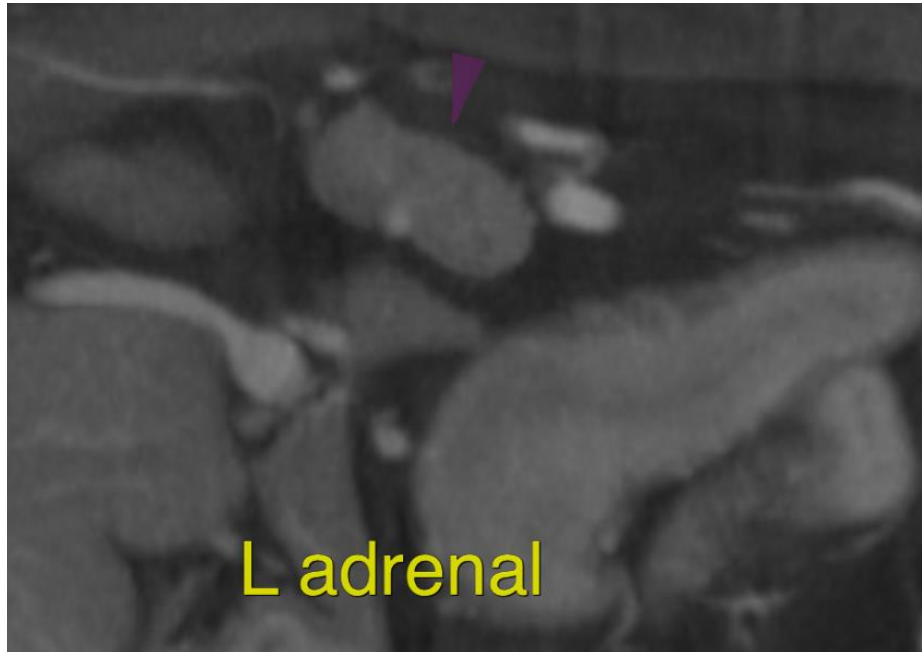
Chihuahua

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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.

**HOSPITAL NAME**

Northeast Veterinary  
Referral Hospital

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Dr. Runde

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