



**PATIENT PRESENTING CLINICAL SIGNS**

Dakota Heyrich  
 Diagnosing diabetes insipidus  
 Abnormal PE/Chem/CBC/UA Results: Neutrophilia of 26 K/uL Monocytosis of 1.17 K/uL  
 Chem WNL USG 1.007

**SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE HEAD & NECK**

Canine  
 Plain and post contrast studies available for review.

**BREED COMPUTED TOMOGRAPHIC FINDINGS**

Border Collie  
 The CT study reveals a large irregular shaped and ill-defined soft tissue attenuating mass within the right nasal cavity. Most of the right nasal cavity is filled with the soft tissue mass which presents heterogeneous contrast enhancement and measures approximately 10 cm in length and 3.5 cm in diameter. Regional turbinate destruction is noted as well as polyostotic aggressive bone lysis of the right palatinal, right maxillary, right nasal and frontal bones, right bony orbita, cribriform plate, and nasal septum. The mass extends into the medial aspect of the right orbita, into the left nasal cavity, and nasal fundus, as well as into the cranial vault where a mass effect onto the frontal lobe of the right cerebral hemisphere is noted. The pituitary gland presents within normal limits. The frontal sinus is filled with fluid attenuating contrast negative material.

**SEX**

MN

**AGE**

13 Years  
 The lumen of the left internal carotid artery is occupied by a hypoattenuating contrast negative ovoid luminal structure of 7 x 5mm at its emergence from the carotid sinus.

**INTERPRETED BY**

Nele Eley, DVM  
 Dr. med. Vet. DipECVDI

The left cranial parathyroid gland is enlarged and expands the cranial aspect of the left thyroid lobe. It measures 11mm in diameter and presents low nonuniform contrast enhancement accentuating the periphery of the parathyroid gland.

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Large soft tissue mass with aggressive biological behavior and intracranial extension within the right nasal cavity.
- Left parathyroid gland enlargement compatible with adenoma.
- Thrombus versus luminal soft tissue mass within the left internal carotid artery.

**HOSPITAL NAME**

Hackettstown Animal  
 Hospital

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**REFERRING VET**

Dr. Nause

The CT findings of the nasal cavity are compatible with a malignant soft tissue neoplasia such as adenocarcinoma, other carcinoma, lymphosarcoma, or fibrosarcoma which presents intracranial extension and a mass effect onto the right cerebral hemisphere which may explain the clinical signs of the patient. No direct mass effect onto the pituitary gland or pituitary gland enlargement was found.

**INVOICE**

54988  
 The findings of the left parathyroid gland strongly support the presence of an adenoma. Hyperplasia, parathyroiditis, adenocarcinoma, and secondary neoplasia of the parathyroid gland all are thought low potentials.

**DATE**

11-4-22

Note the presence of a luminal contrast negative mass within the emergence of the left internal carotid artery highly suggestive for a thrombus. A hypercoagulable state should be ruled out. Vascular neoplasia is a theoretical but by far less likely differential diagnosis.



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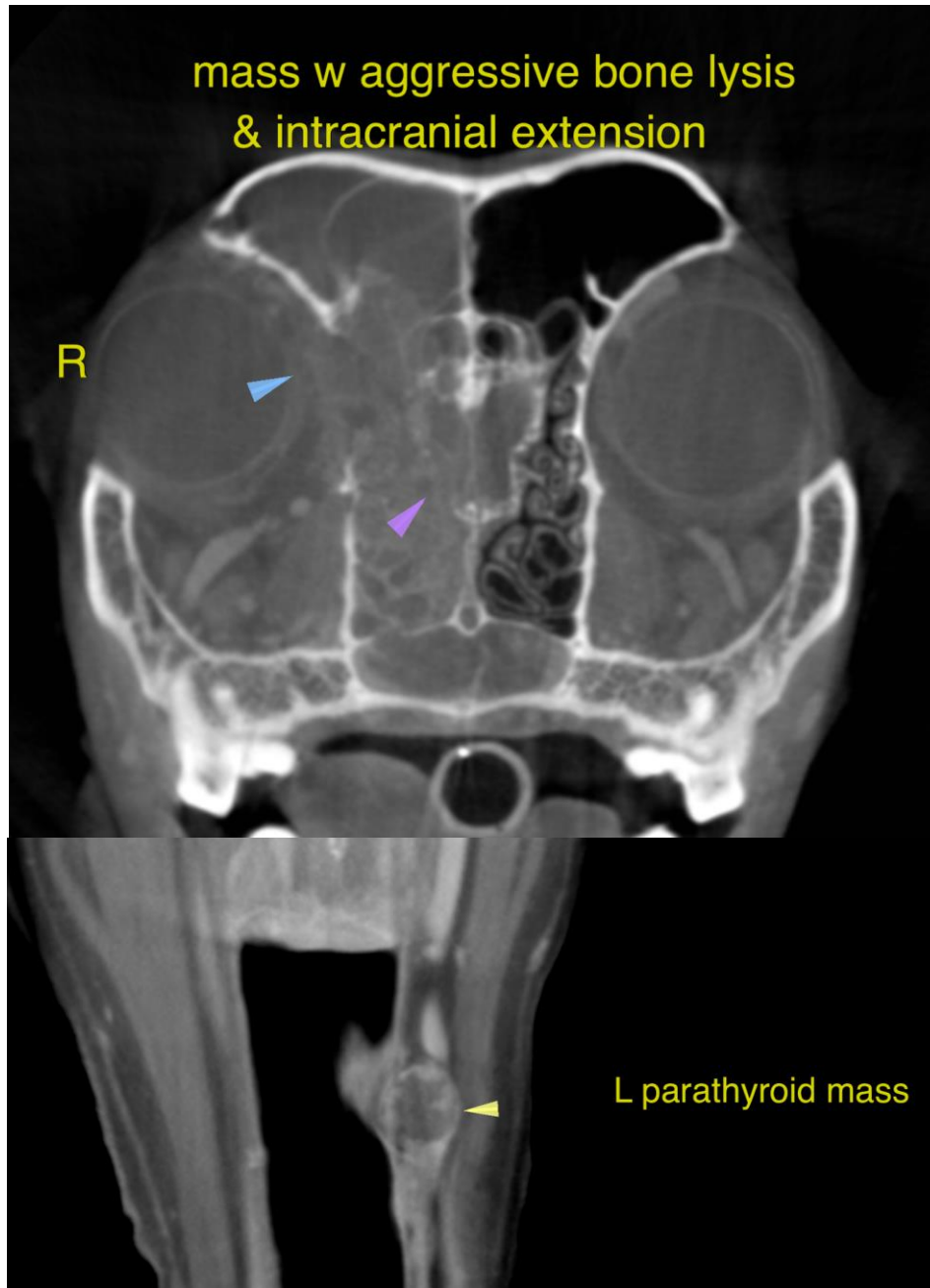
Dr. Nause

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**PATIENT**

Dakota Heyrich

**SPECIES**

Canine

**BREED**

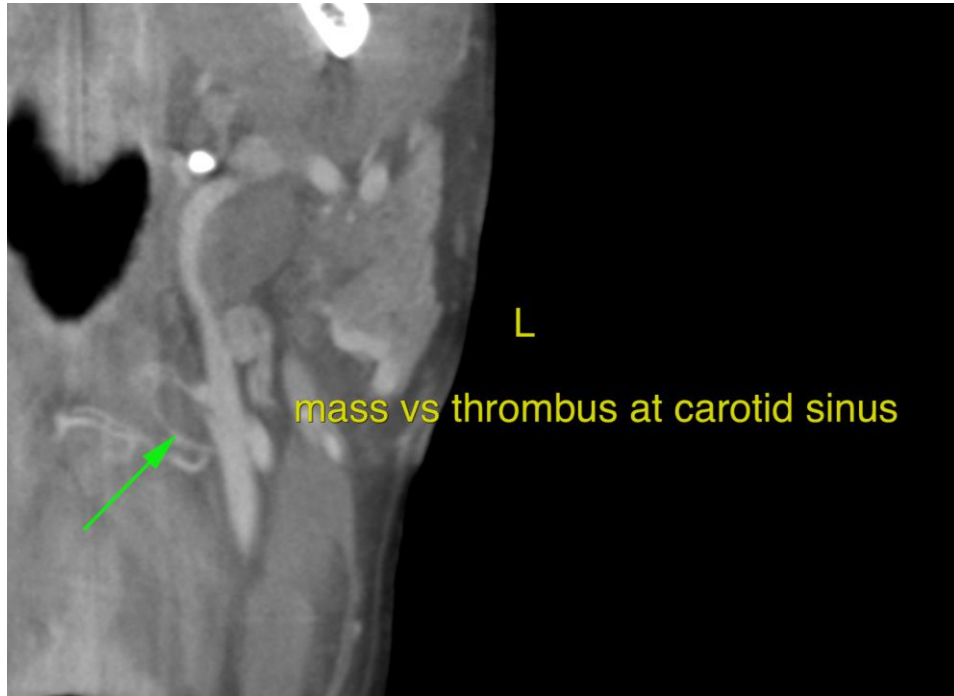
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

**HOSPITAL NAME**

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Hospital

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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