



PATIENT PRESENTING CLINICAL SIGNS

Molly Freeman Thoracic Osteolytic Neoplasia. Mass growing through bone in 9th thoracic vertebrae, mass in L thoracic wall.

SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE THORACIC SPINE & THORAX

Canine Plain and post contrast studies in soft tissue, bone, and lung windows available for review.

BREED COMPUTED TOMOGRAPHIC FINDINGS

Shepherd mix A large lefthand sided paravertebral soft tissue mass is seen level with the mid thoracic spine. The mass extends into the dorsal aspect of the caudal mediastinum, dorsal aspect of the left pleural cavity, left dorsocranial abdomen, as well as into the left paravertebral musculature. The mass measures approximately 11 cm in length, 8 cm in height, and 8 cm in width. Lesion margins are ill-defined. Severe heterogeneous contrast enhancement is seen with multifocal cavitations. Polyostotic aggressive osteolytic changes of the 9th thoracic vertebra and 7th – 11th left ribs are seen. Extension of the mass into the vertebral canal is noted level with the 9th thoracic vertebra causing a severe mass effect onto the spinal cord at the same level. The mass effect causes ventral deviation of the left lung as well as rightward deviation of the aorta and ventral deviation of the caudal thoracic esophagus.

SEX

Spayed Female

AGE

12 Years

An aggressive osteolytic lesion of the costochondral junction of the 8th left rib is seen.

Multiple small soft tissue attenuating interstitial pulmonary nodules are noted.

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

There are multiple splenic nodules.

One of the abdominal paraaortic lymph nodes is moderately enlarged and rounded measuring 1 cm in diameter and presenting heterogeneous contrast enhancement.

HOSPITAL NAME

Bluegrass Veterinary
Specialists

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Paravertebral soft tissue mass with polyostotic aggressive osteolytic changes of the 9th thoracic vertebra and left 7th-11th ribs and thoracic as well as cranial abdominal extension.
- Multiple interstitial pulmonary nodules compatible with metastatic disease.
- Aggressive osteolytic lesion of the 8th left ribs compatible with metastatic disease.
- Single sublumbar paraaortic lymphadenomegaly suggestive for metastatic disease.
- Multiple splenic nodules.

REFERRING VET

Gover

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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The CT study reveals a malignant paravertebral soft tissue neoplasia with extension into the vertebral canal, thoracic cavity, and cranial abdomen. Differential diagnosis includes soft tissue sarcoma, round cell neoplasia, and less likely chondrosarcoma.

DATE

2-14-23

Final diagnosis would require sampling for histology. The mass is however unfortunately in a nonresectable position and multiple lesions compatible with metastatic disease are seen represented by multiple interstitial nodules, an aggressive osteolytic lesion at the costochondral junction of the 8th rib, and paraaortic lymphadenomegaly.



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The splenic nodules may also represent metastatic disease. Benign splenic lesions such as nodular hyperplasia or extramedullary hematopoiesis are potential differential diagnoses too.

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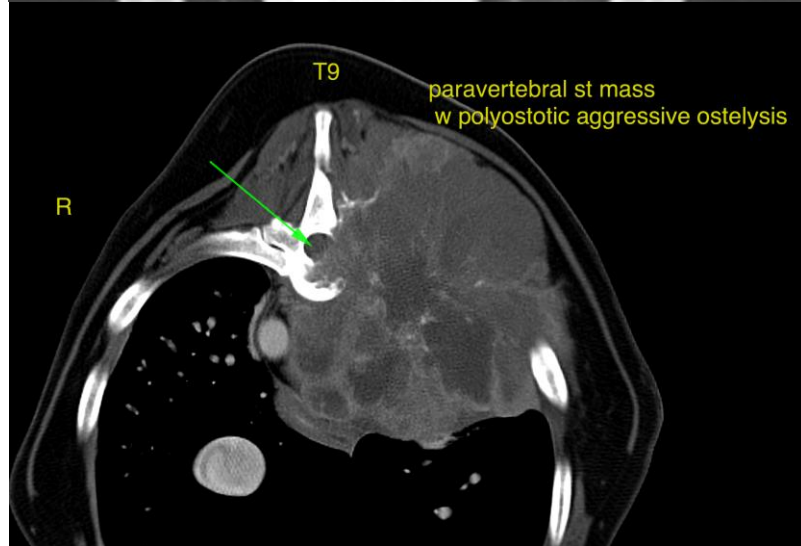
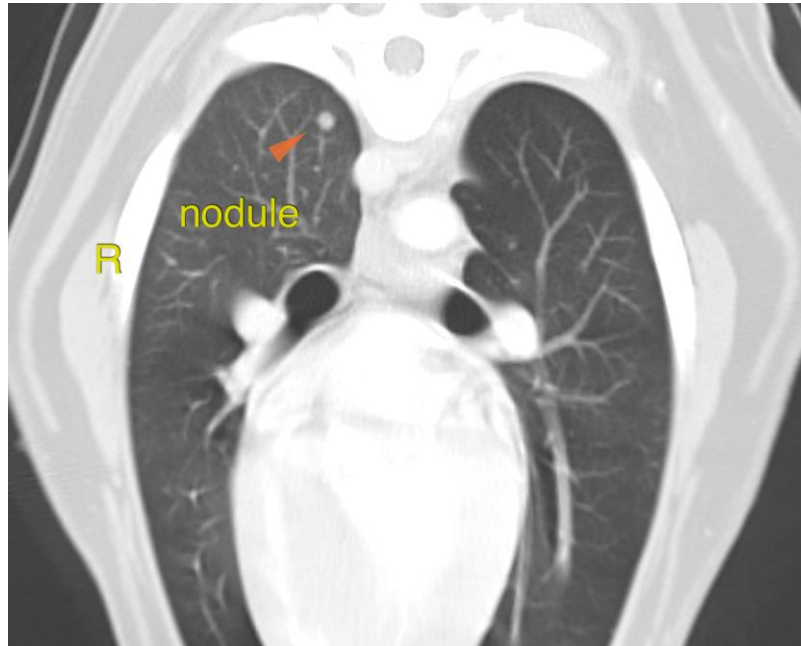
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

SPECIES

Canine

Nele Eley, DVM, Dr. med. vet., DipECVDI
European Specialist in Veterinary Diagnostic Imaging, Cert. Radiology,
Senior lecturer University of Giessen, Germany, Veterinary Faculty, Department of Radiology
Nele.Eley@sonopath.com

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