



PATIENT

Boo Carroll

PRESENTING CLINICAL SIGNS

The right femur has marked lytic change along the distal 2/3 of the bone.

SPECIES

Canine

COMPUTED TOMOGRAPHIC STUDY OF THE HIND LIMBS & THORAX

Post contrast studies of the hind limbs and thorax available for review.

BREED

Labrador Retriever

COMPUTED TOMOGRAPHIC FINDINGS

Hind Limbs

A severe permeative expansile osteolysis of the mid and distal third of the right femur is seen. There are multiple cortical bone defects. The remnants of the cortices are severely expanded. A large amount of spiculated periosteal new bone formation and extensive regional soft tissue swelling are noted circumferential to the right femur. There are multiple foci of medullary sclerosis. The transition zone to the unaffected bone in the proximal third of the right femur is long and indistinct. Both fabellae and the popliteal sesamoid bone appear to be involved in the aggressive osteolytic mass and unsharp periosteal new bone formation of the proximal medial and caudal right tibia is seen.

SEX

FS

AGE

12 Years

Moderate articular swelling of the right stifle joint is noted.

Both coxofemoral joints show signs of hip dysplasia with moderate coxofemoral joint osteoarthritis.

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

The right popliteal, right superficial and deep inguinal, right hypogastric, and right medial iliac lymph nodes are moderately enlarged and rounded.

Thorax

The bony and surrounding soft tissue structures are within normal limits.

HOSPITAL NAME

Animal Surgical
Center

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.

REFERRING VET

Veterinary Vet Group

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

Multiple streak artifacts of the lung are seen. There are multiple pulmonary osteomas. Pulmonary nodules or masses are not seen.

INVOICE

54500

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

COMPUTED TOMOGRAPHIC DIAGNOSIS

DATE

10-6-22

- Expansile aggressive osteolytic mass of the right femur with extension of the osteolytic changes to the sesamoid bones and proximal tibia.
- Severe regional lymphadenomegaly involving the right popliteal, inguinal, hypogastric, and medial iliac lymph nodes.



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- Bilateral canine hip dysplasia with moderate secondary coxofemoral joint osteoarthritis.
- Multiple pulmonary osteomas.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

Canine

The CT study reveals a severely expansile and highly aggressive osteolytic mass of the right femur with peripheral soft tissue, sesamoid bone, and tibial involvement. Primary neoplasia of bone such as osteosarcoma with parosteal extension is a primary differential diagnosis. Other mesenchymal neoplasia such as chondrosarcoma, fibrosarcoma, hemangiosarcoma, and round cell neoplasia cannot be ruled out but are thought less likely.

BREED

Labrador Retriever

The lymph node changes are highly suggestive for metastatic disease and do involve the popliteal, inguinal, and sublumbar lymph centers on the right side. Further definition by means of sampling of the primary tumor and affected lymph nodes could be considered.

SEX

FS

The multiple mineral attenuating foci within the pulmonary interstitium are likely to represent benign age related incidental osteomas. Atypical metastatic disease with heterotopic bone formation cannot be ruled out entirely but is thought by far less likely.

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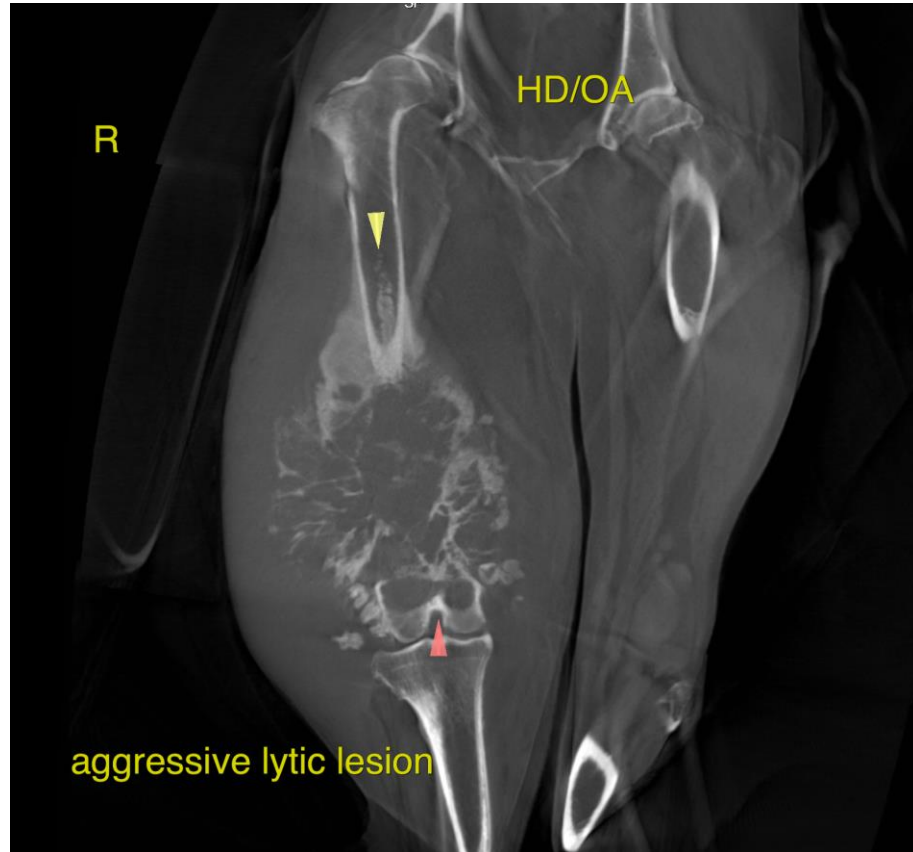
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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