



**PATIENT**

Maggie Kiefer

**PRESENTING CLINICAL SIGNS**

Rescue dog with malnutrition on adoption. Lyme+ on Doxycyclene. Lameness right rear still.

**SPECIES**

Canine

**RADIOGRAPHIC STUDY OF THE RIGHT STIFLE**

Mediolateral and craniocaudal views of the right stifle on ventrodorsal hip extended radiographs totaling 3 images available for review.

**BREED**

Mixed

**RADIOGRAPHIC FINDINGS**

The muscle volume of the right hind limb is reduced.

**SEX**

Female Spayed

Flaring of the distal right femoral metaphysis is seen with smooth periosteal new bone formation in the caudolateral and medial cortex. The medullary cavity of the distal right femoral metaphysis is heterogeneous with multiple ovoid lucent areas surrounded by peripheral sclerosis.

**AGE**

8 Months

Similar changes are seen to a milder degree bilaterally within the proximal femoral metaphysis, within the left distal femoral metaphysis, and within the proximal metaphysis of both tibiae. No reduction in longitudinal growth is noted.

**RADIOGRAPHIC DIAGNOSIS**

- Polyostotic metaphyseal osteopathy with medullary lysis and sclerosis accentuating the right distal femur.
- Disuse atrophy of the right hind limb musculature.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The radiographic study reveals heterogeneous medullary sclerosis and periosteal new bone in the distal right femur accentuating its metaphyseal portion. However, this appears to be a polyostotic rather than a monostotic occurrence with similar changes being visible in the metaphyseal portions of all visible long bones. Hematogenous osteomyelitis including bacterial, protozoal, and fungal appears to be a potential and may correlate with the patient history of Lyme disease. Leishmania, rickettsia, and other bacterial infections have been reported in young animals with similar occurrence. Malnutrition and osteochondrodysplasia cannot be ruled out entirely as differential diagnoses but are considered less likely based on the radiographic appearance.

**HOSPITAL NAME**

Blandford Animal  
Hospital

**REFERRING VET**

Russ LaPierre

**INVOICE**

51095

**DATE**

3-22-22



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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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