



**PATIENT**

Olive Maithonis

**PRESENTING CLINICAL SIGNS**

Olive has been stiff in the mornings and when she gets up from a nap. She seems to have a lack of full range of motion in her front legs. She seems to tire more easily on walks and when playing in the backyard (fetch). She has limped on and off on her left front leg for the past couple months. This limp comes and goes and isn't always bothering her. Symptoms worse after rest, after exercise, in the morning.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Pt is very stoic and does not show much pain during exam. She was more attentive to PE with left shoulder extension and caudal neck assessment. The lameness was not observed during exam but confirmed to be left front on videos later submitted by owner. No apparent pain in carpus or elbow. MSS angles 30 degrees bilaterally. No neurological deficits. Pt was tender with ultrasound probe pressure over the left supraspinatus.

**BREED**

McNab/Pit Bull

**SEX**

FS

**ULTRASONOGRAPHIC STUDY OF THE SHOULDERS**

**AGE**

8.5yr

**ULTRASONOGRAPHIC FINDINGS**

*Right*

The supraspinatus, deltoideus and infraspinatus muscles present within normal limits for shape, volume, echoarchitecture and echogenicity. The transition to the supraspinatus tendon is even and thin. The broad part of the supraspinatus tendon presents within normal limits for its shape, volume and echogenicity. There is no evidence of impingement. The attachment to the bone surface of the greater humeral tubercle is even and smooth. The infraspinatus muscle condenses and narrows down to a long tendon of even width, smooth outline and regular echogenic fibular echoarchitecture and up to the attachment to the bone surface of the humerus. There is no evidence of enlargement of the infraspinatus bursa. The average maximum thickness of the right supraspinatus is 7.0 mm.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

The biceps tendon can be seen from its origin through the bicipital groove, up to the musculotendinous transition and is within normal limits for shape, echogenicity and echoarchitecture. There is no evidence of synovial thickening and no evidence of abnormal effusion. The bone surface of the bicipital groove is even and smooth.

The visible margins of the shoulder joint are within normal limits.

**HOSPITAL NAME**

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**REFERRING VET**

Janice McConnell

*Left*

Moderate internal heterogeneity of the left supraspinatus tendon is seen. No evidence of mineralization is noted at this point. The left supraspinatus tendon measured 8.0 mm in maximum average thickness.

**INVOICE**

14703ag

Mild biceps impingement is noted. The bicipital tendon sheath presents mild synovial thickening and mild anechoic effusion. The bone surface of the bicipital groove is smooth with no evidence of new bone formation. The biceps tendon fibers are uniformly hyperechoic. The biceps tendon is of even thickness and is smoothly delineated.

**DATE**

08/25/2023



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**ULTRASONOGRAPHIC DIAGNOSIS**

- Mild left supraspinatus tendinopathy with mild biceps impingement and mild biceps tenosynovitis.
- Normal right shoulder.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The ultrasonographic findings are compatible with mild biceps impingement syndrome in the left shoulder secondary to supraspinatus tendinopathy with mild volume increase and bicep impingement. The ultrasonographic changes are relatively subtle at this point and should respond well to conservative management and physical therapy.

**BREED**

McNab/Pit Bull

Clinical and ultrasonographic monitoring could be considered. The use of PRP and/or bone marrow activated stem cells/BMAC could be discussed depending on the clinical correlation.

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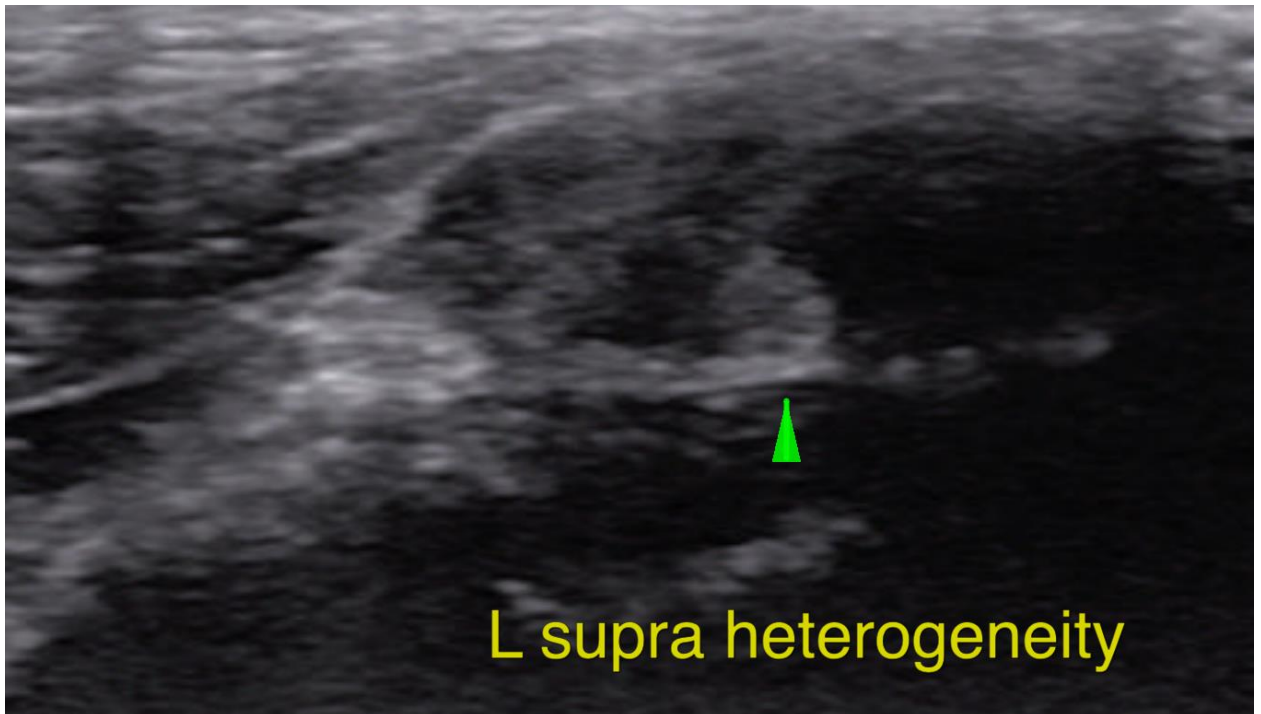
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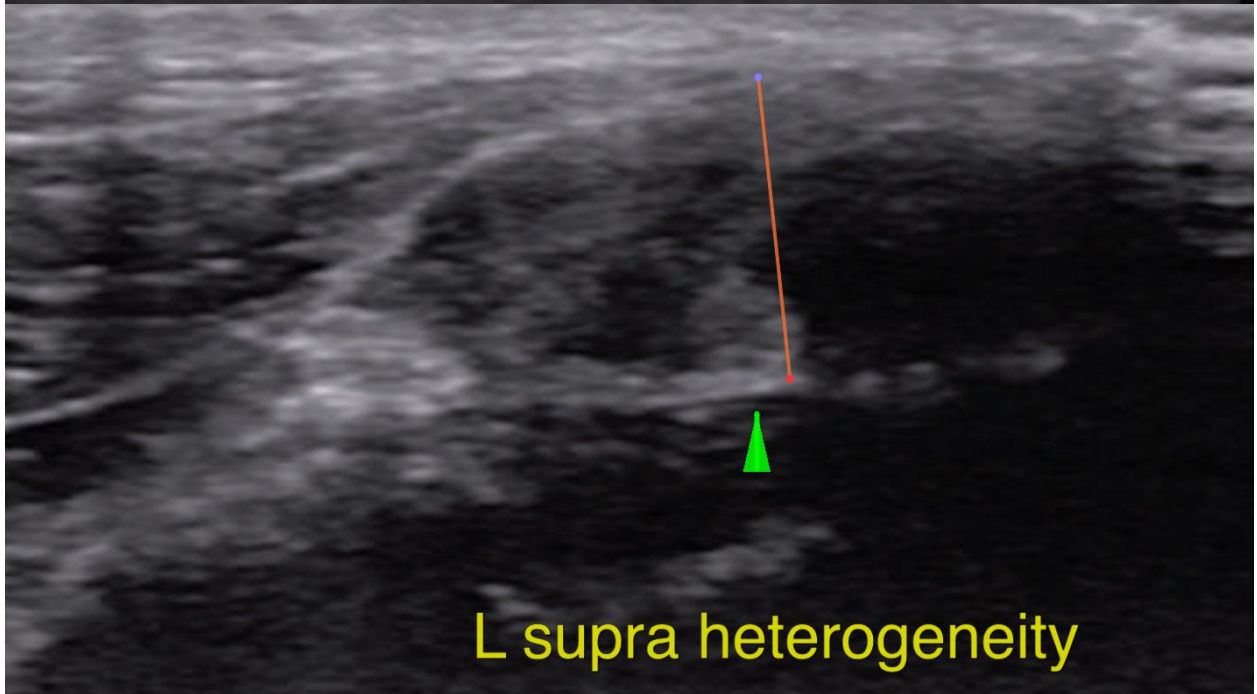
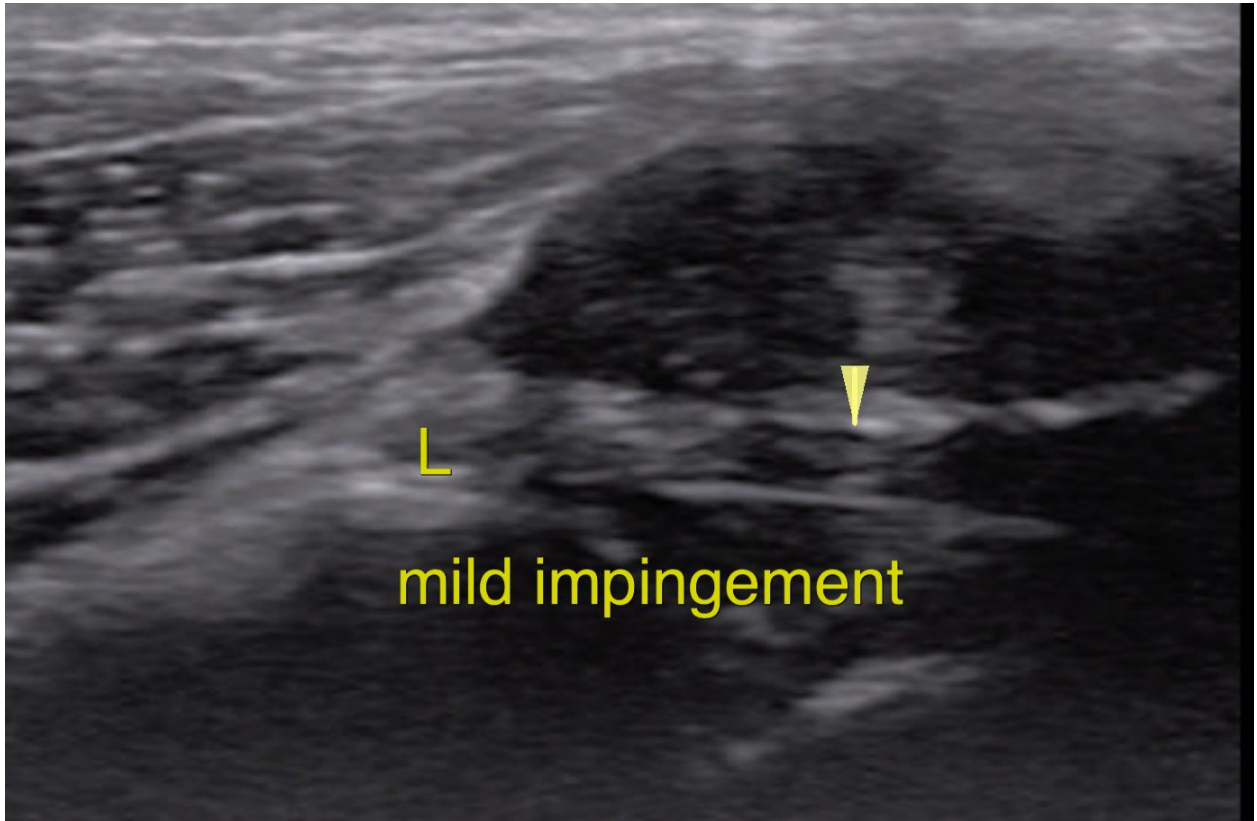
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

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Senior lecturer University of Giessen, Germany, Veterinary Faculty, Department of Radiology  
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