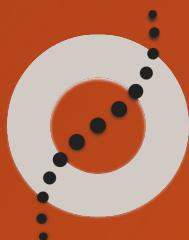


The ultrasound examination of the extremities

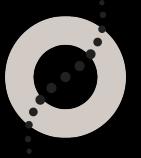


Diagnostic Mindset

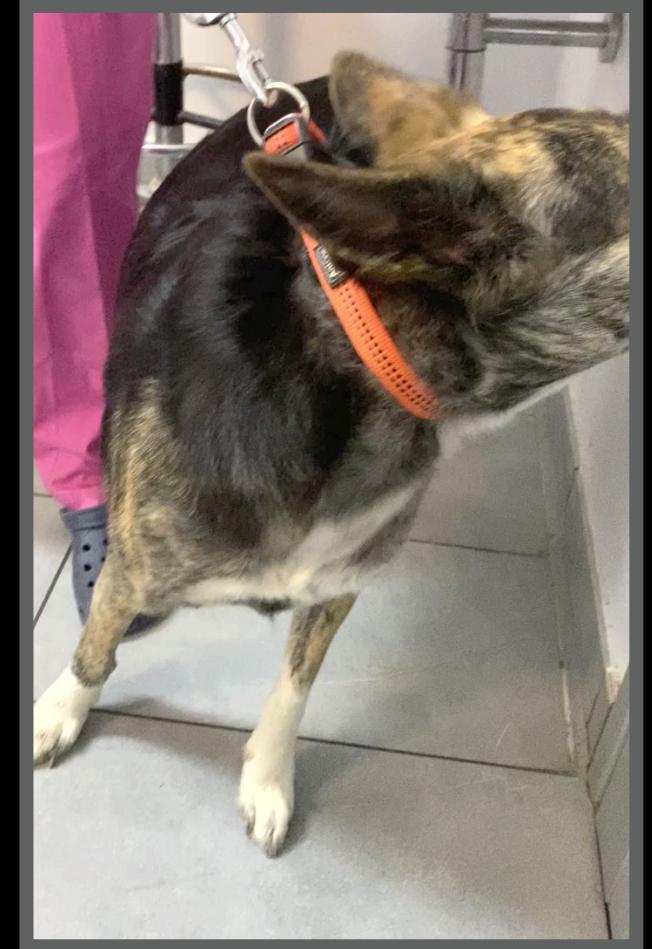


Giliola Spattini
DVM, PhD, DECVDI

Barattolo, Mongrel, MI, 2 years

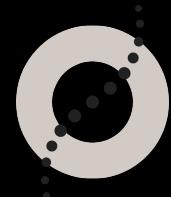


- He steps on a broken bottle
- Surgical repair of a deep cut left-metatarsal side
- Severe swelling of the left carpus and paw at the time of trauma
- Still lame after two weeks





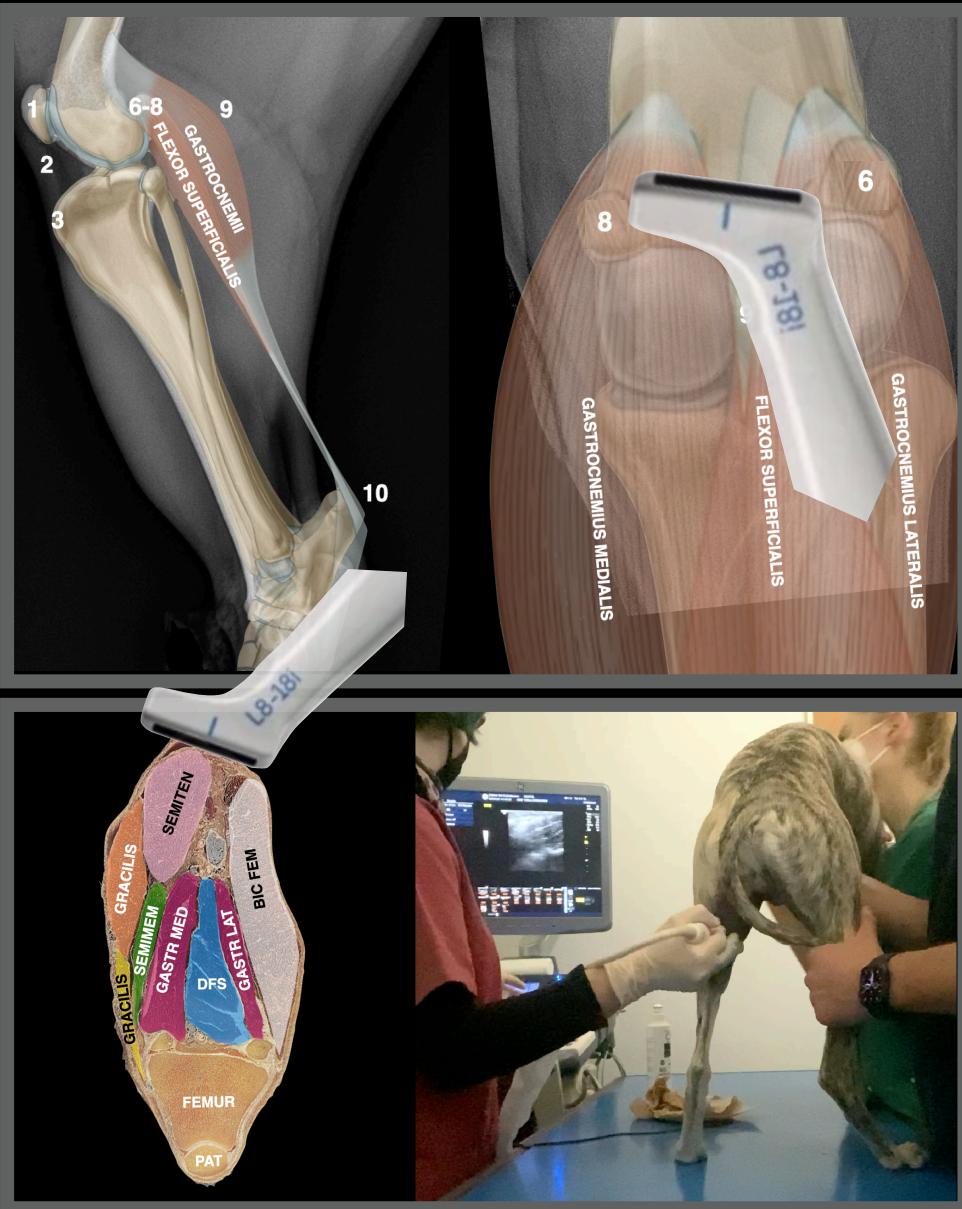
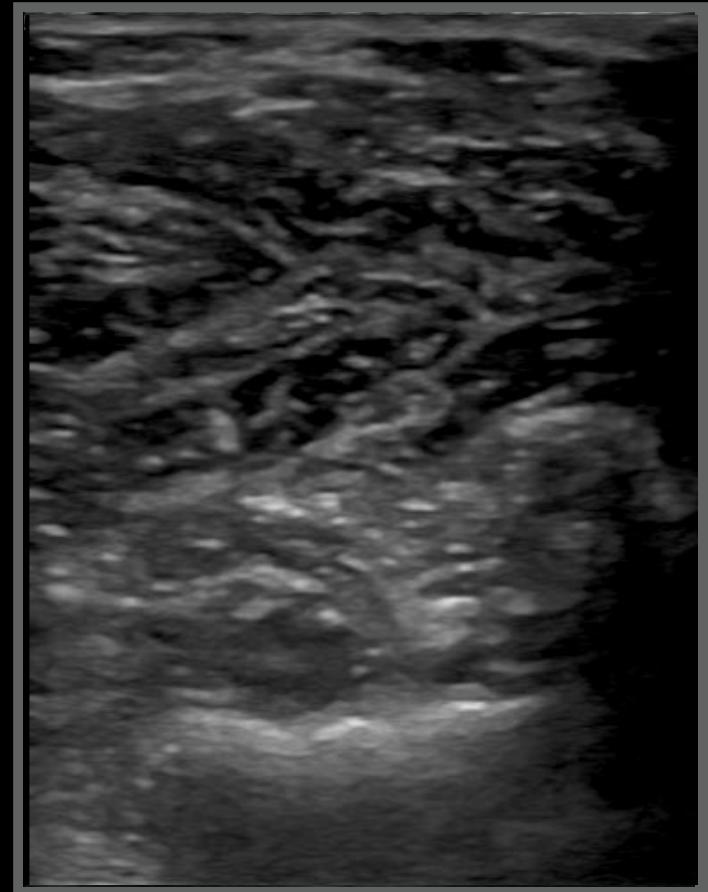
Barattolo, MI, 2 years

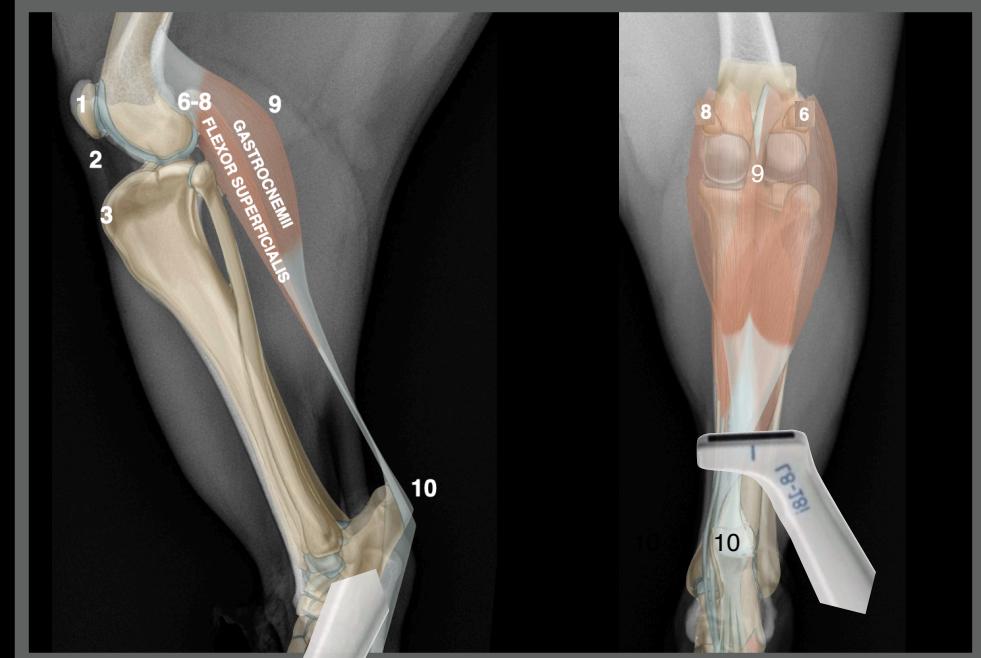


Barattolo, MI, 2 years

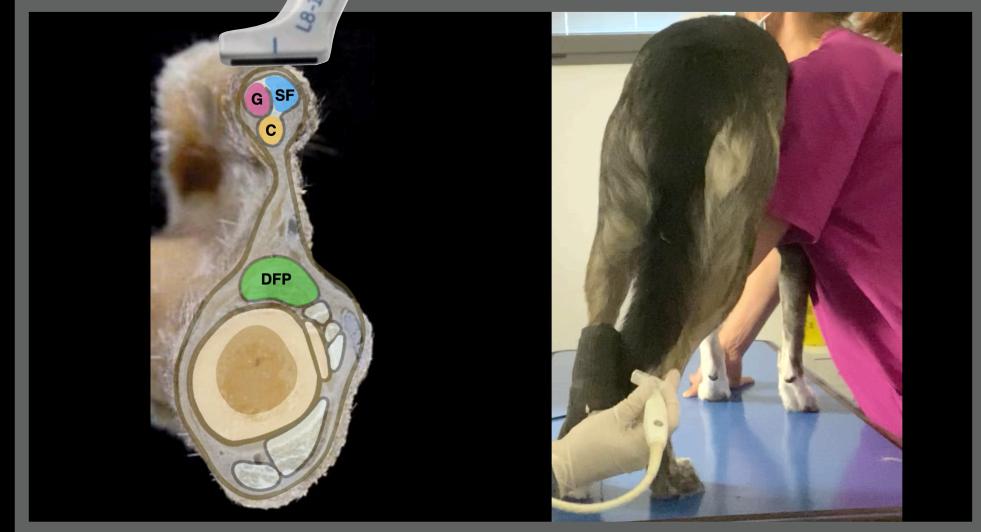
Left stifle

Caudal face transverse scan





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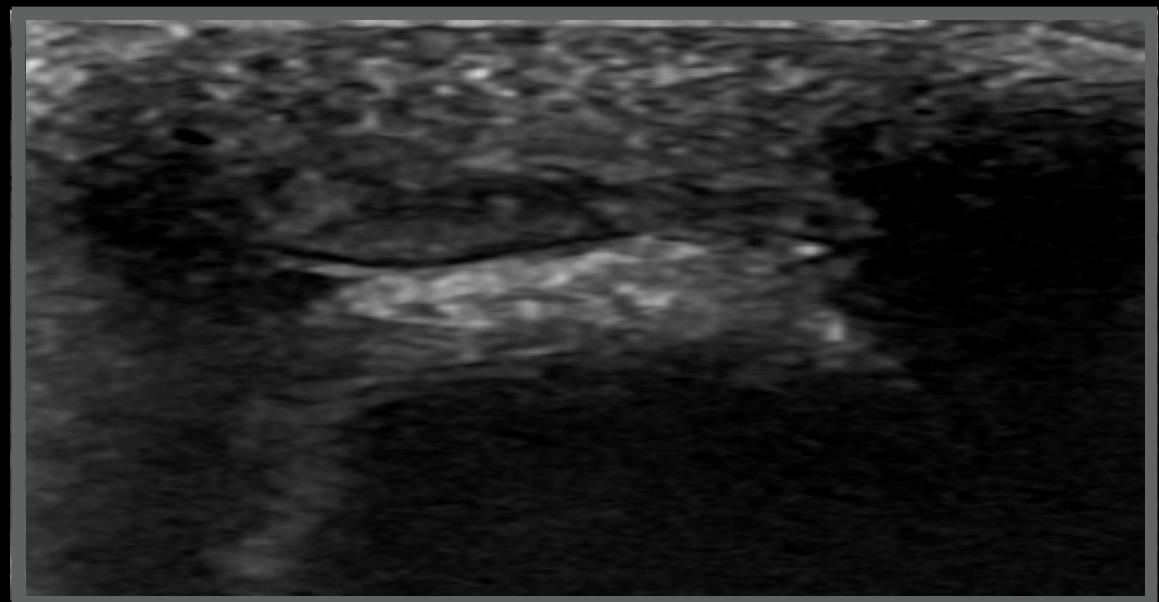


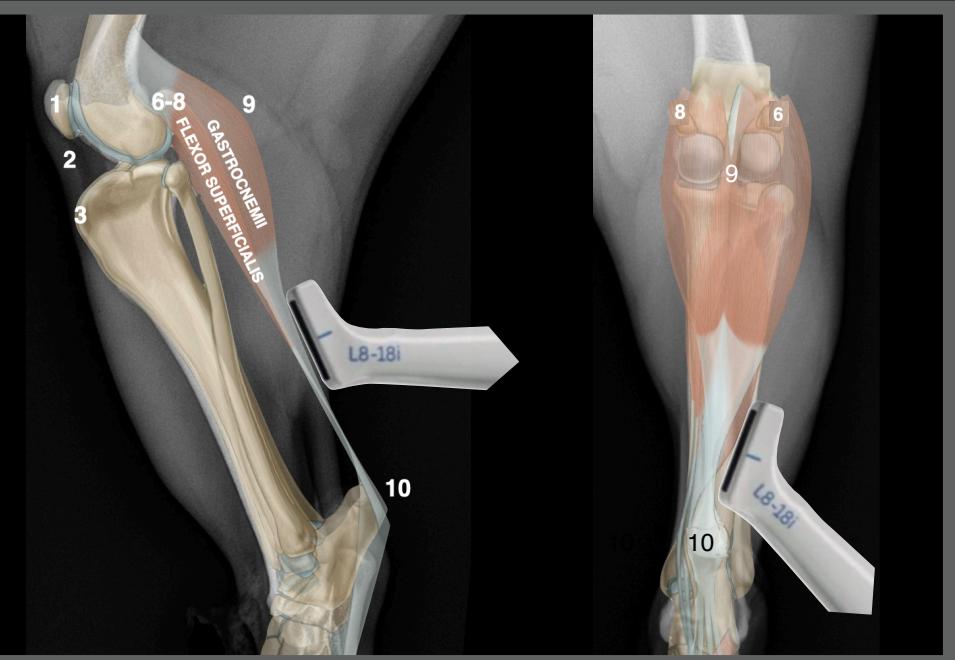
Barattolo, MI, 2 years

Left hock

Caudal face transverse scan

10



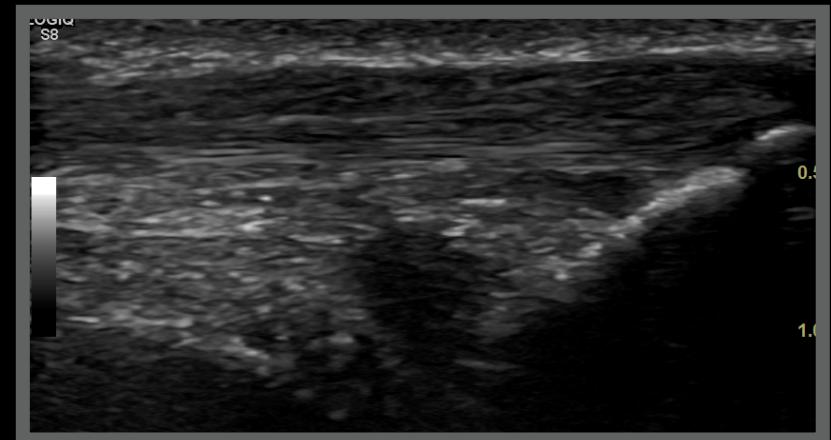
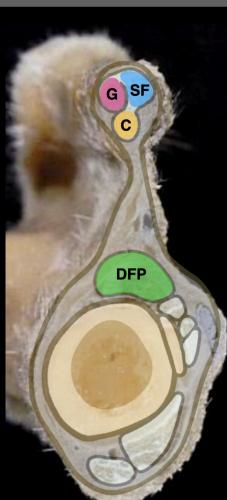
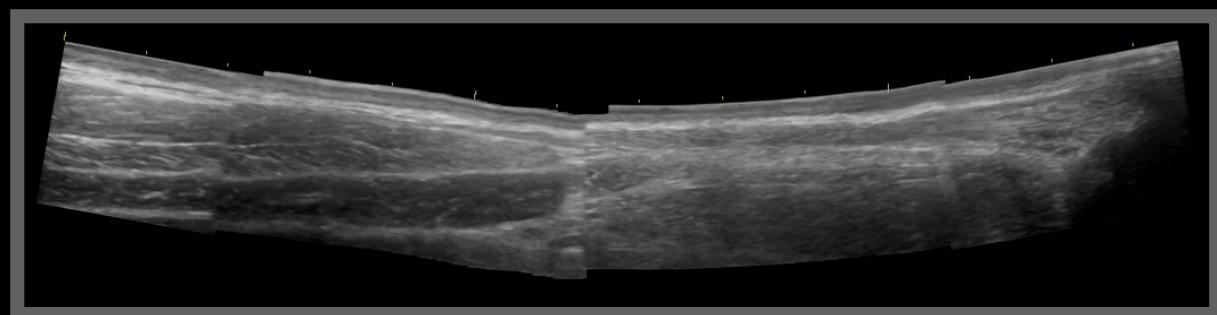


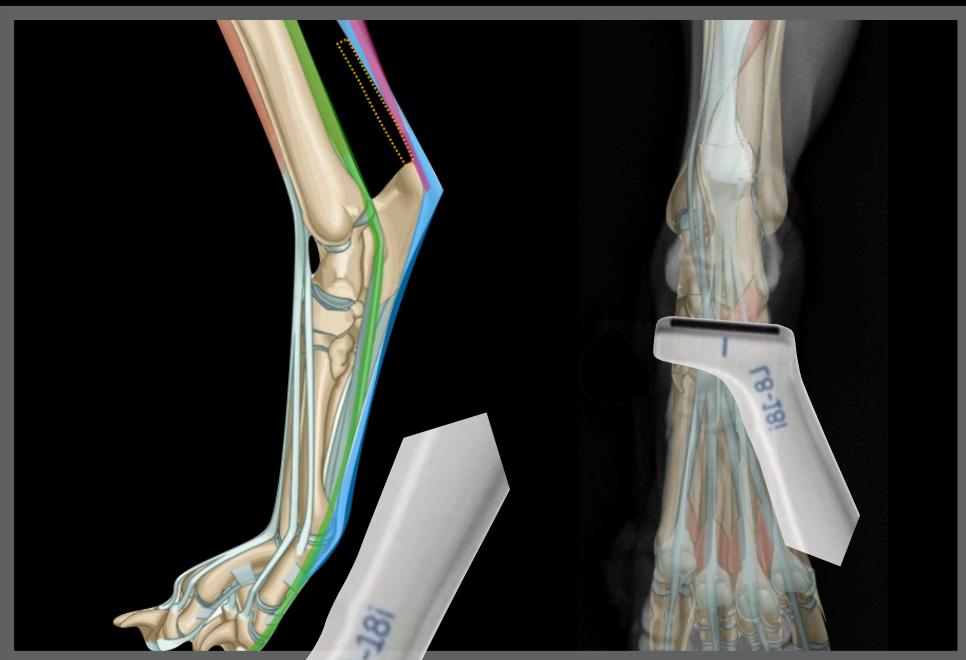
Barattolo, MI, 2 years

Left hock

Caudal face longitudinal scan

9-10



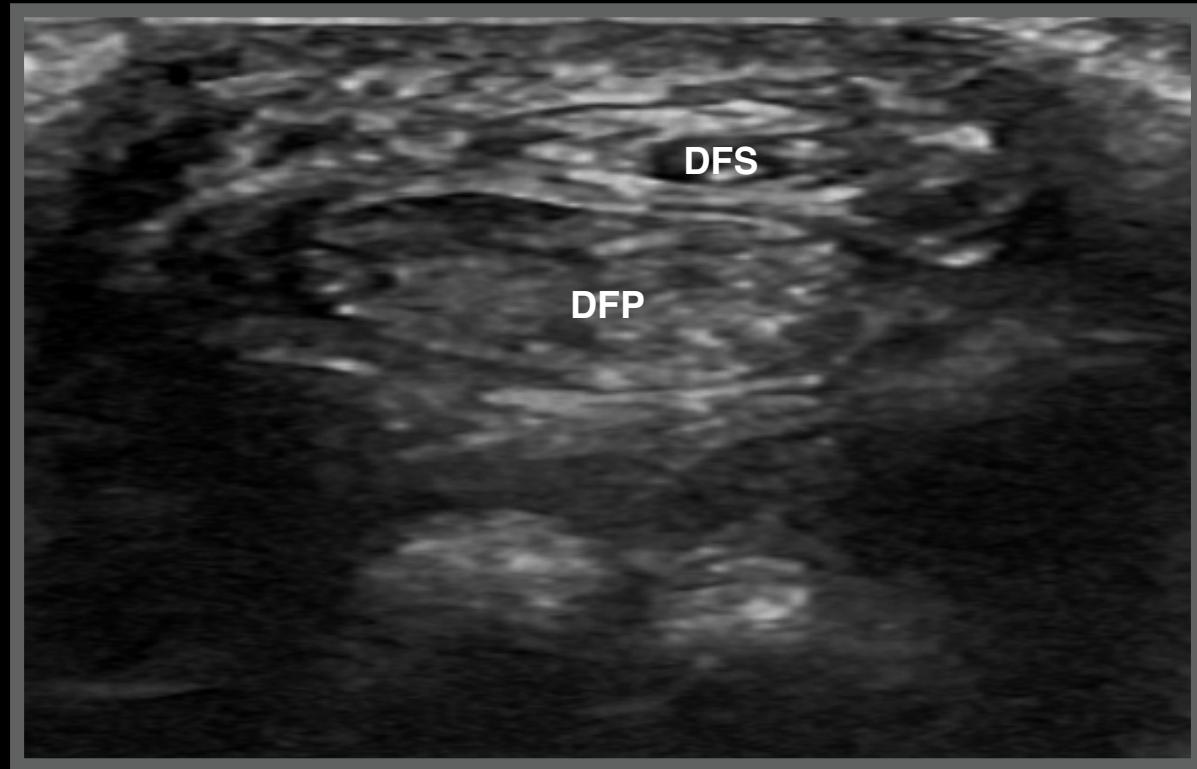


Barattolo, MI, 2 years

Right paw

Caudal face transverse scan

10

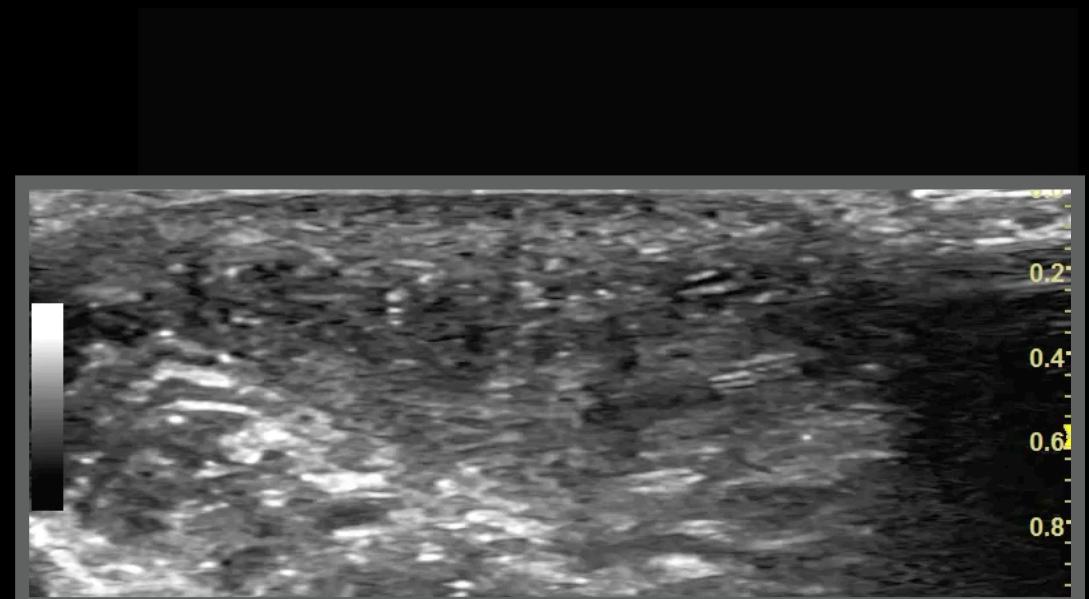




Barattolo, MI, 2 years

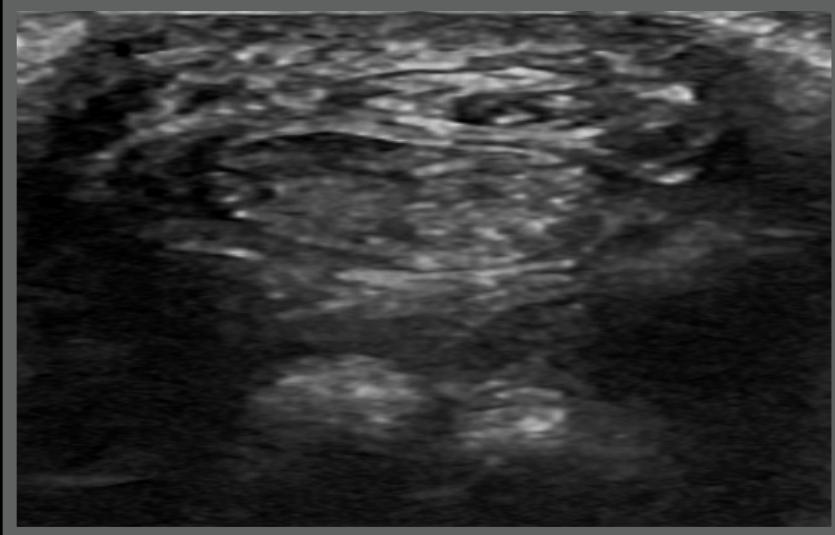
Left paw

Caudal face transverse scan

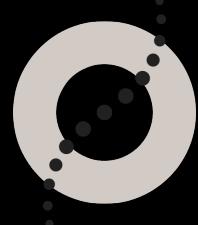
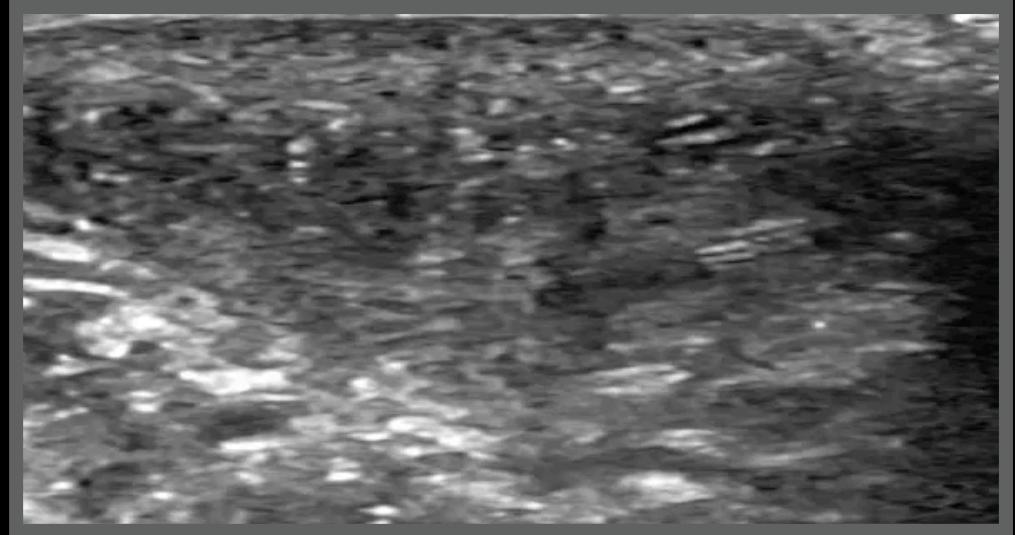


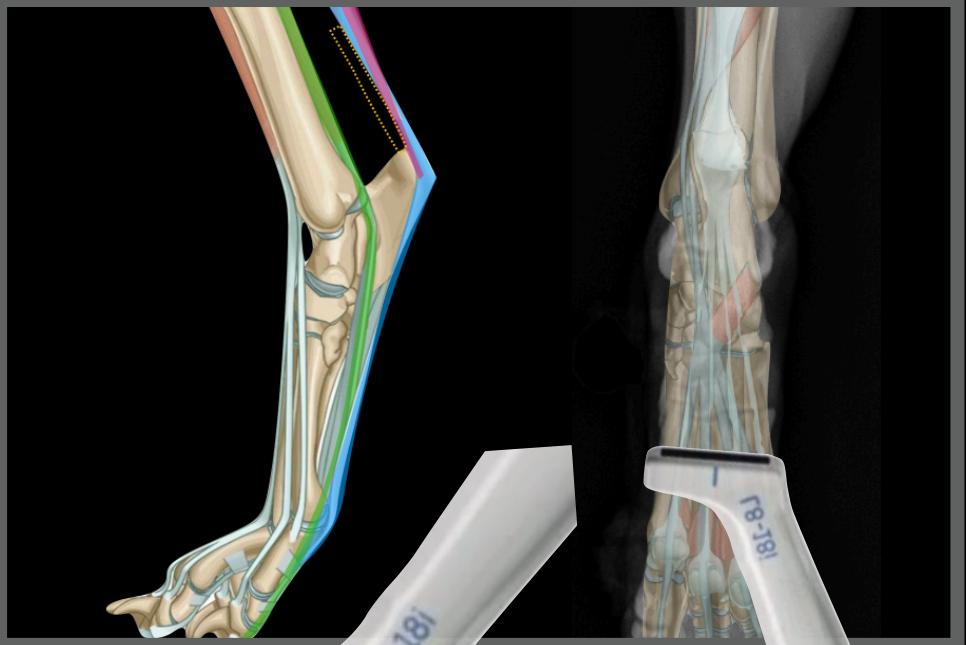
Barattolo, MI, 2 years

Right paw



Left paw

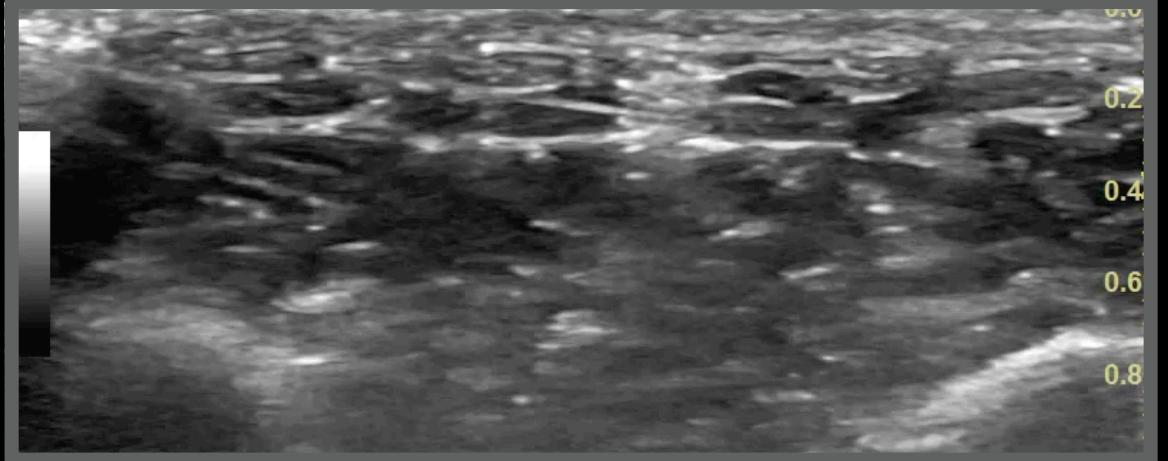




Barattolo, MI, 2 years

Right paw

Caudal face transverse scan

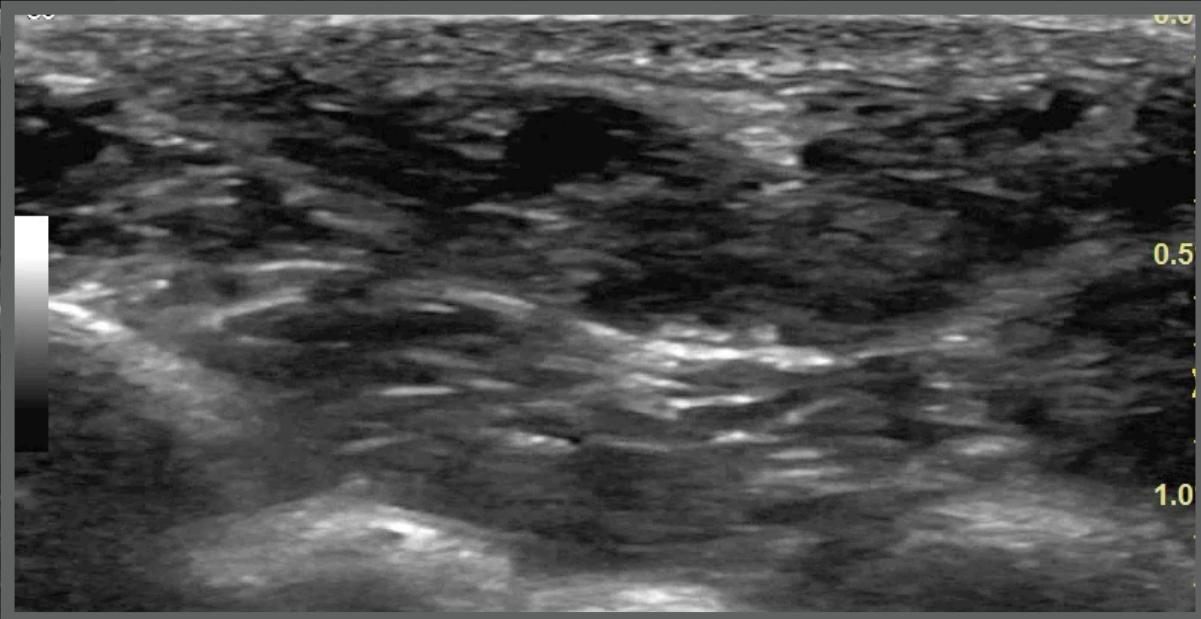


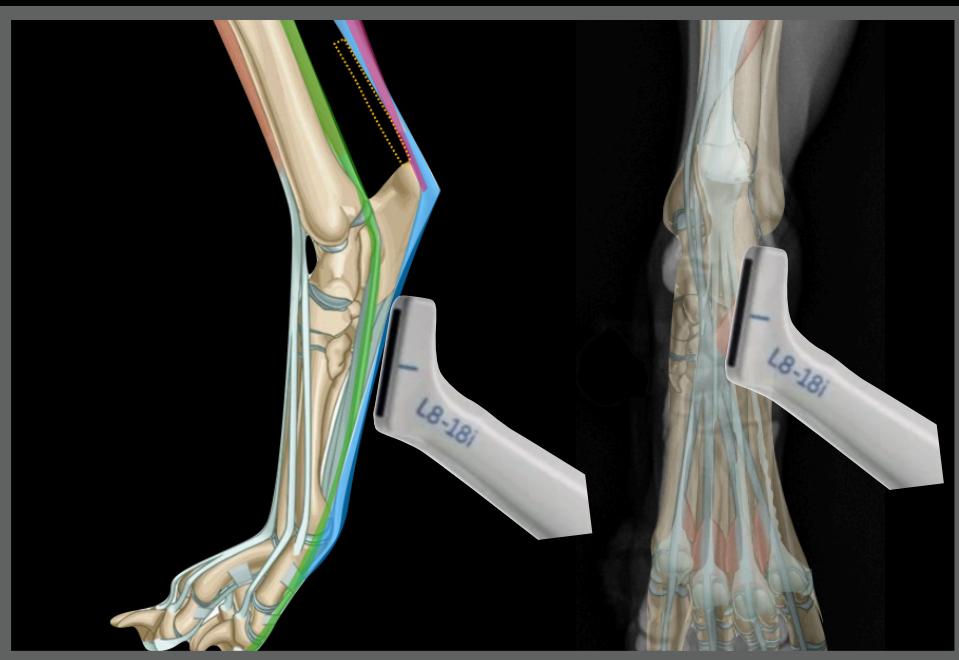


Barattolo, MI, 2 years

Left paw

Caudal face transverse scan

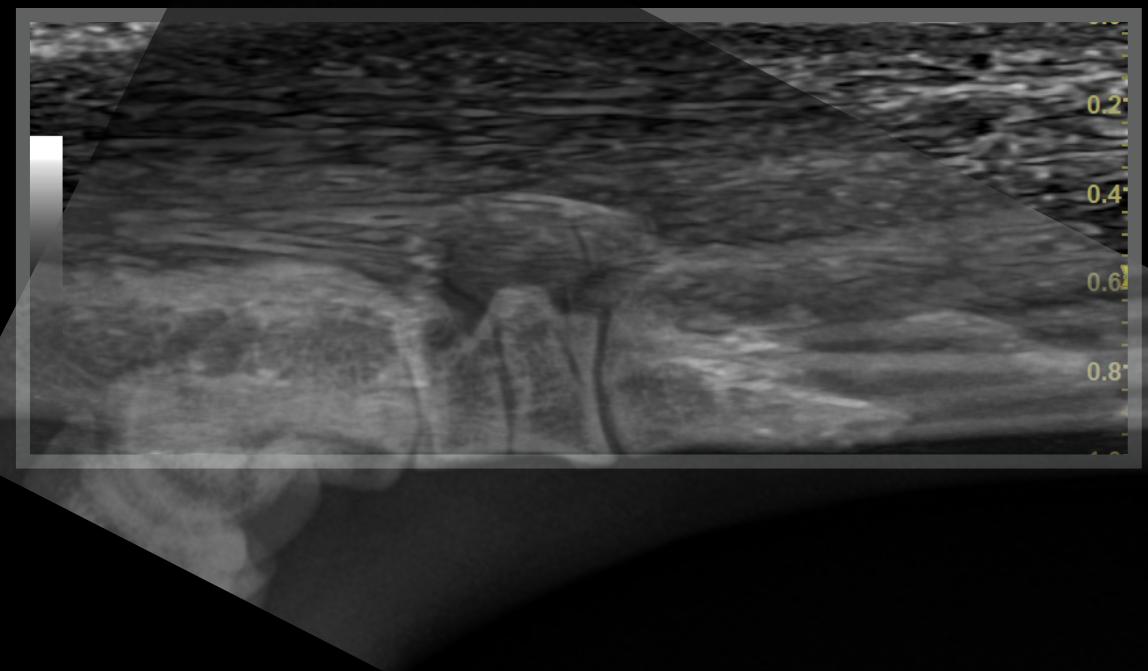




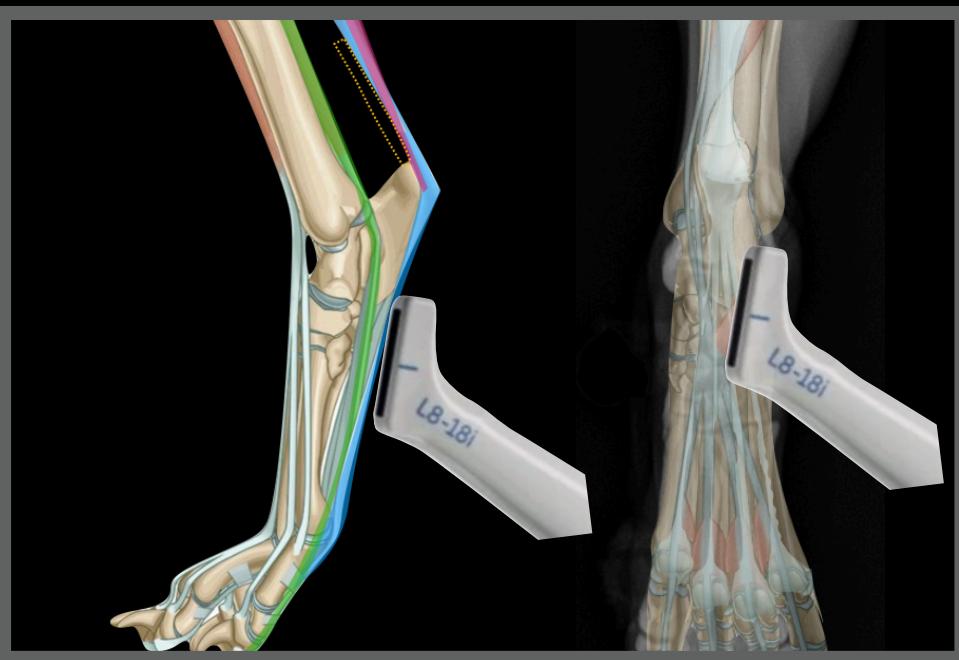
Barattolo, MI, 2 years

Right paw

Caudal face longitudinal scan



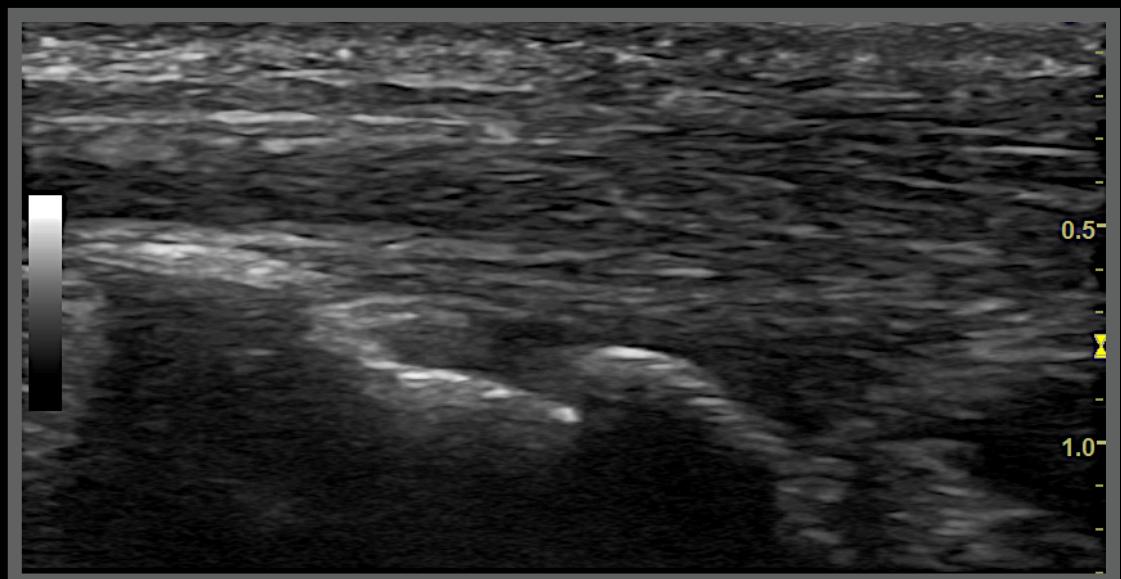
www.imaios.com



Barattolo, MI, 2 years

Left paw

Caudal face longitudinal scan



www.imaios.com

Ultrasonographic diagnoses

- Minimal chronic tendonitis left Achille's tendon
- Healing suture of the left superficial and deep flexors tendons (no complications visible)



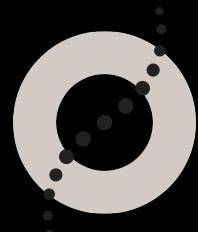
Next steps:

- Review the provided radiographs

Barattolo, MI, 2 years



Barattolo, MI, 2 years
2 weeks later



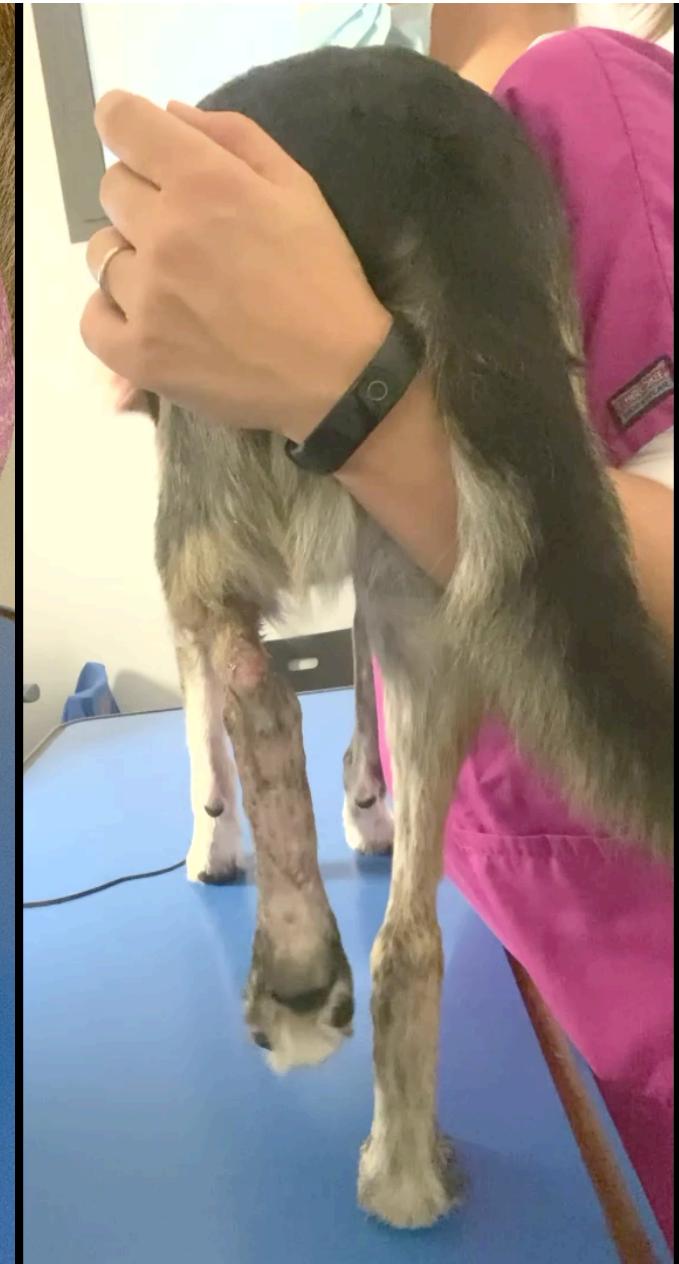
Barattolo, Mongrel, MI, 2 years

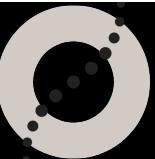
Two months later

- He steps on a broken bottle deep cut surgically repaired
- He fractured the left tibia falling
- Conservative management of the fracture



Barattolo, MI, 2 years
2 months later





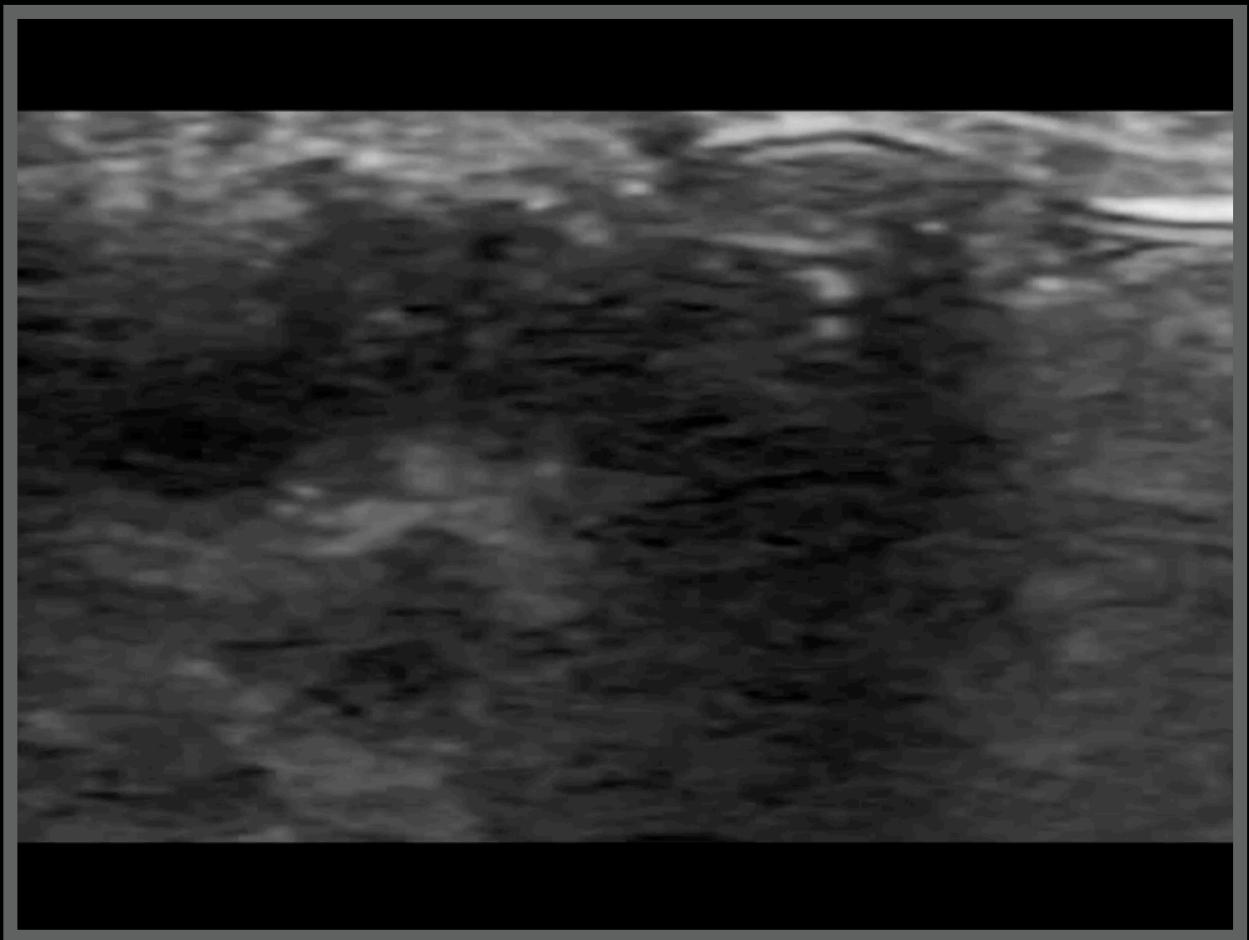
10

Barattolo, MI, 2 years

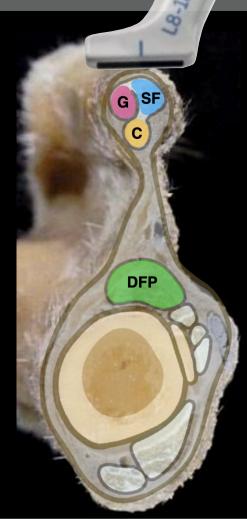
Two months later

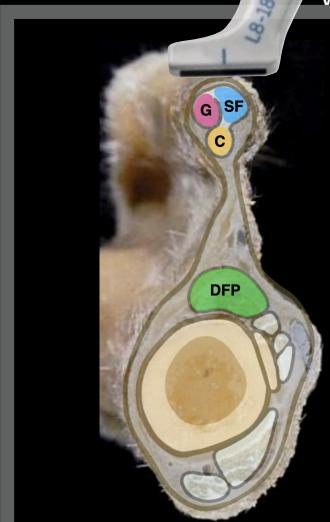
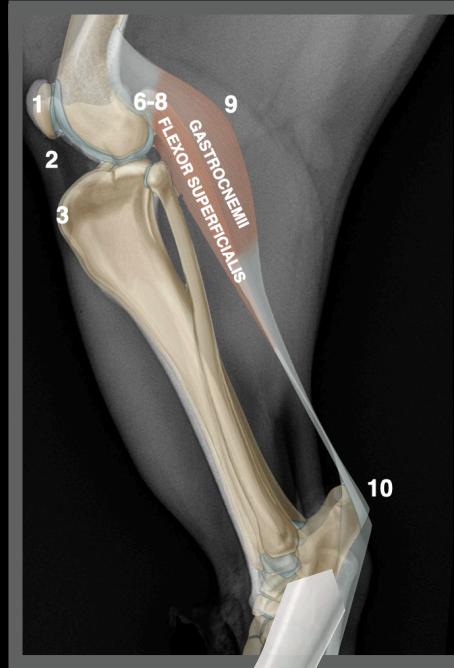
Right leg

Caudal face transverse scan



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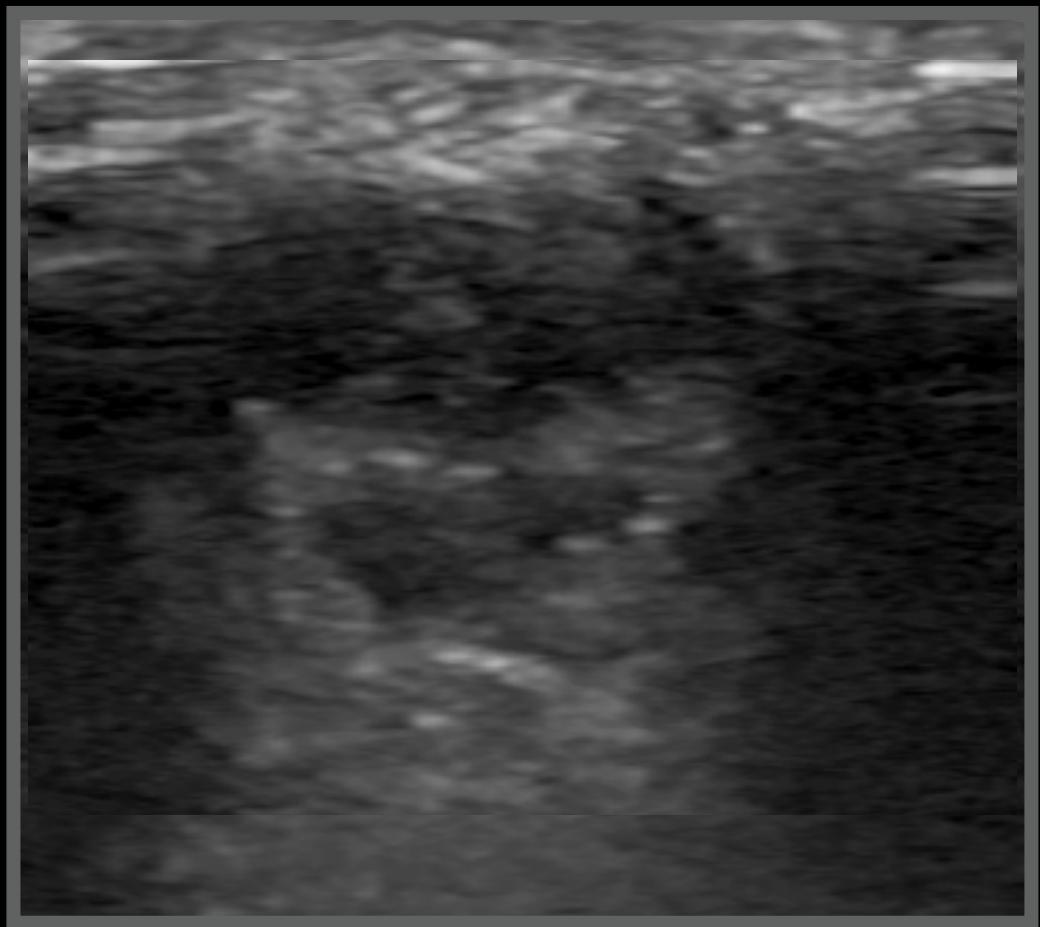
Two months later

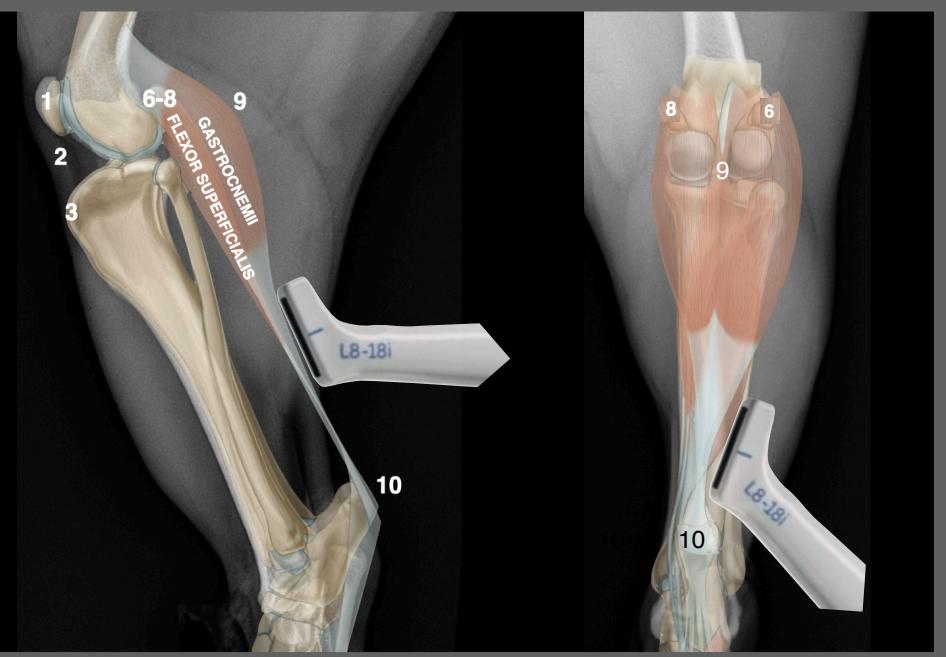
Barattolo, MI, 2 years

Left paw

Caudal face transverse scan

10





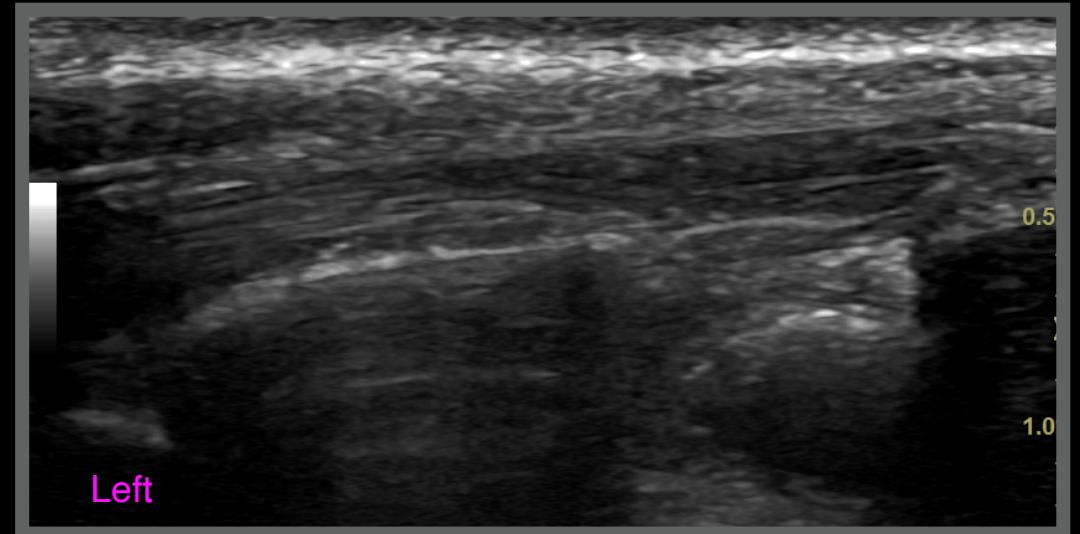
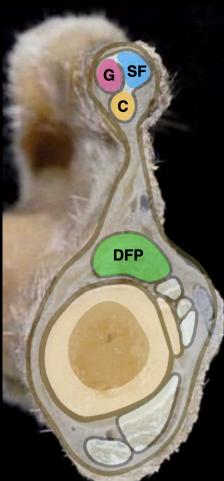
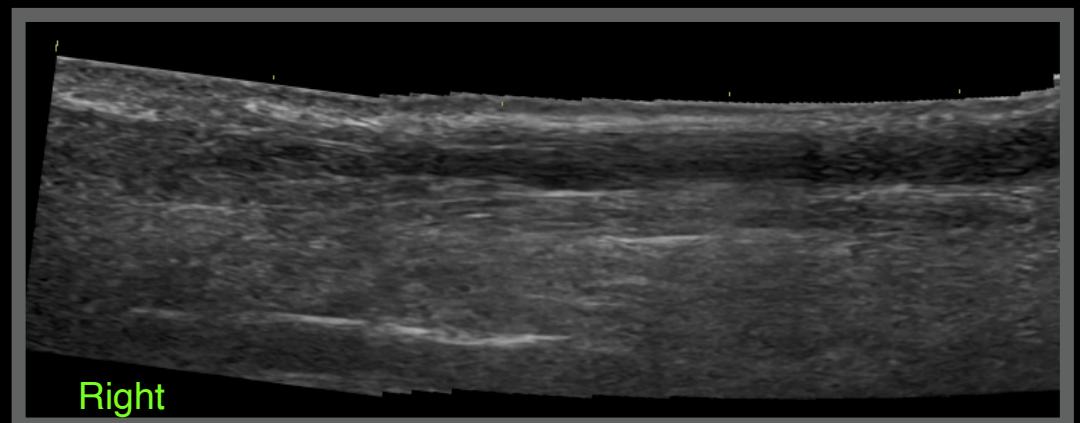
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Barattolo, MI, 2 years

Two months later

Caudal face longitudinal scan

9-10

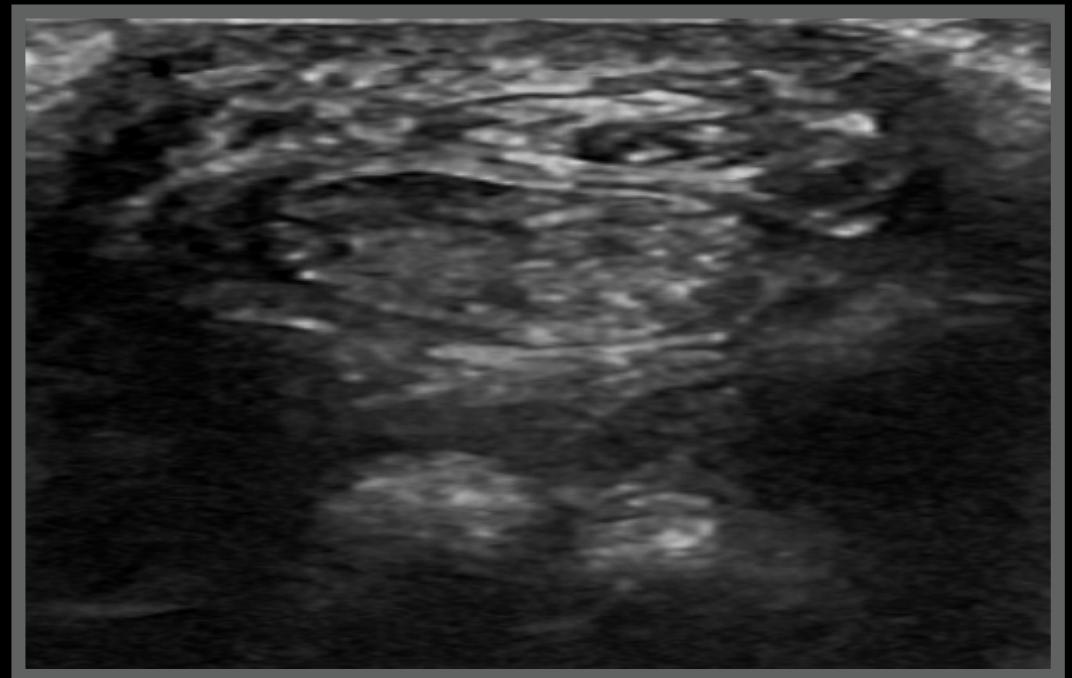
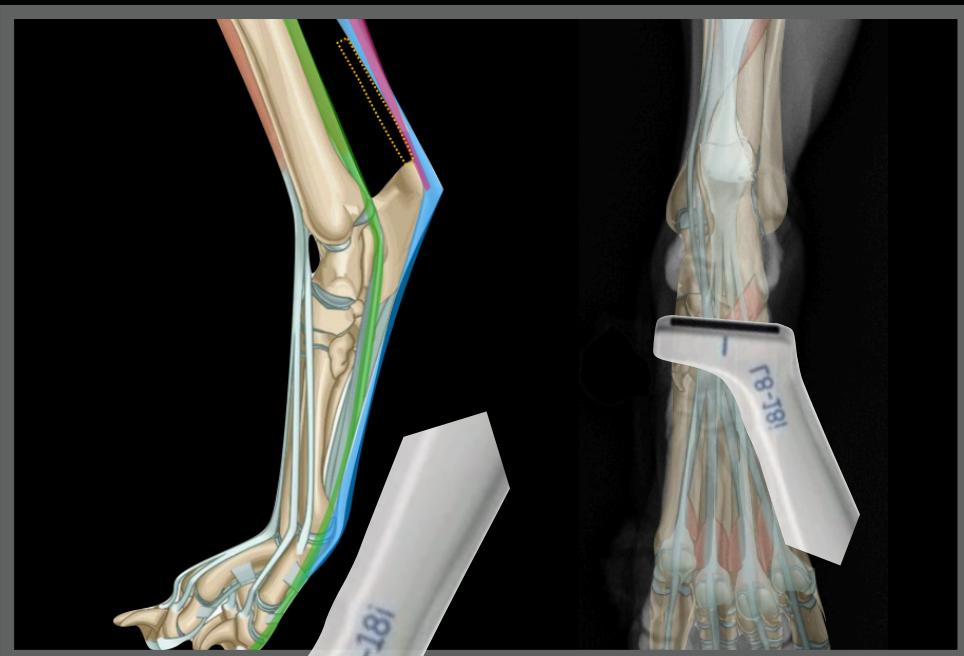
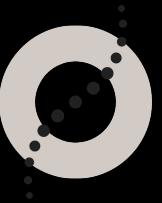


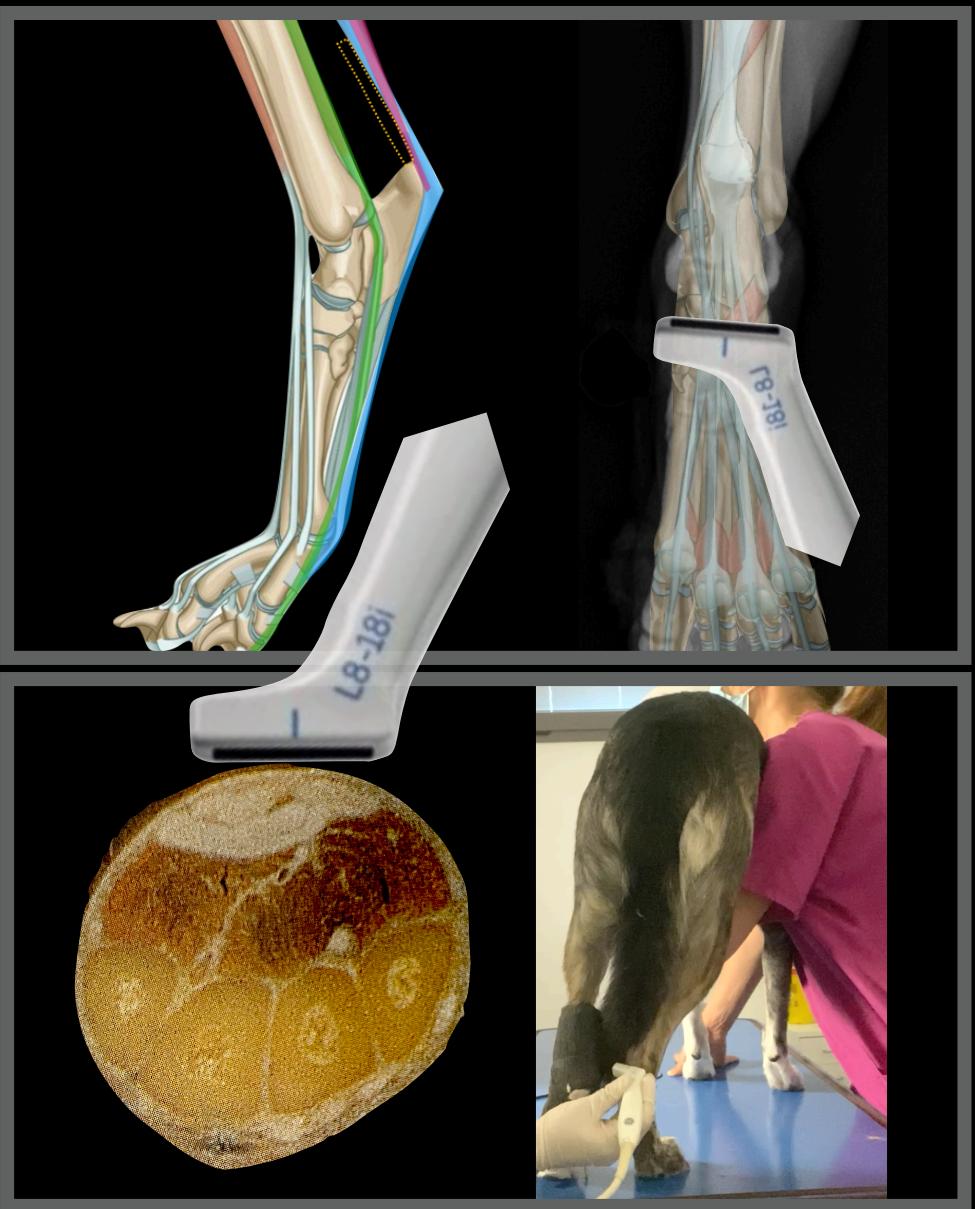
Barattolo, MI, 2 years

Two months later

Right paw

Caudal face transverse scan

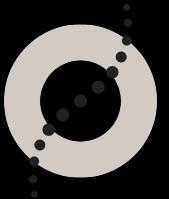




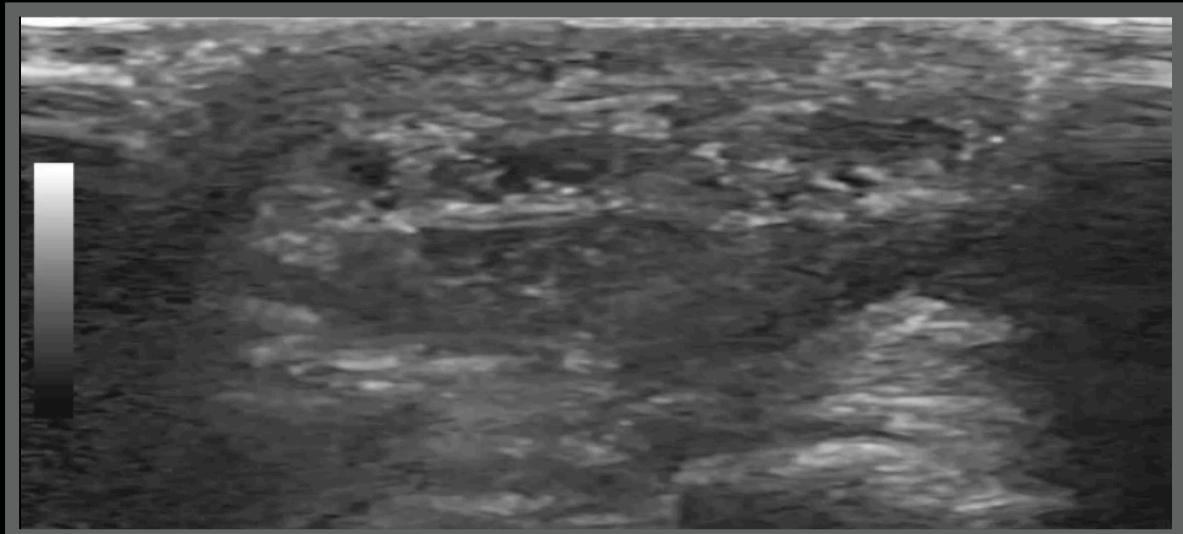
Barattolo, MI, 2 years

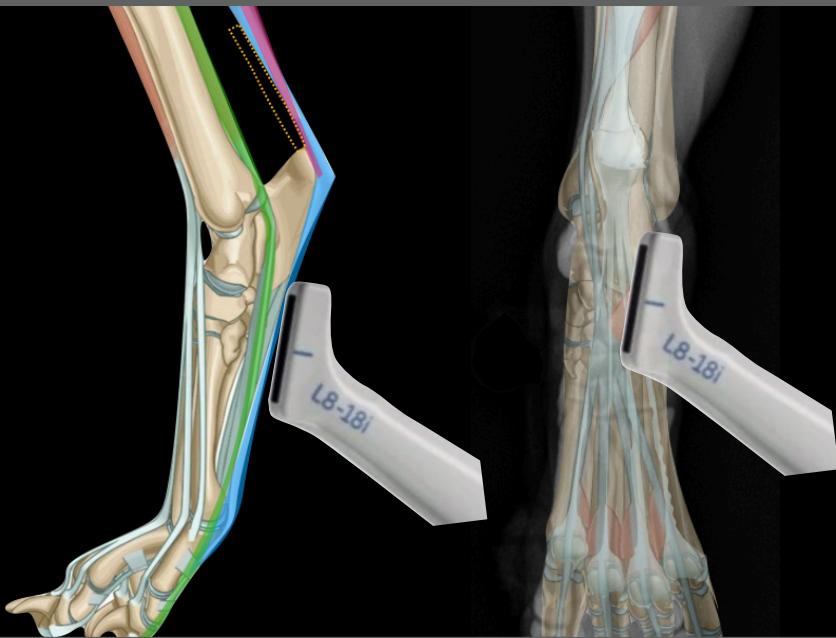
Left paw

Two months later



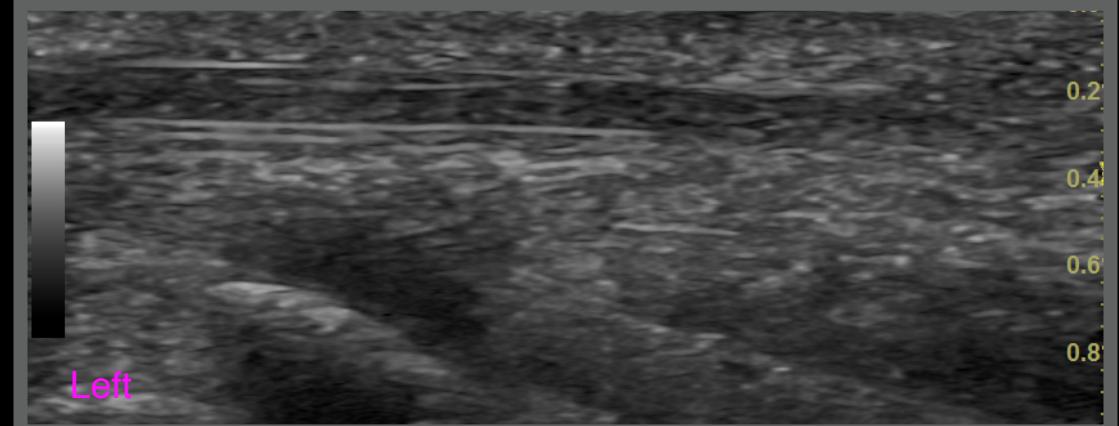
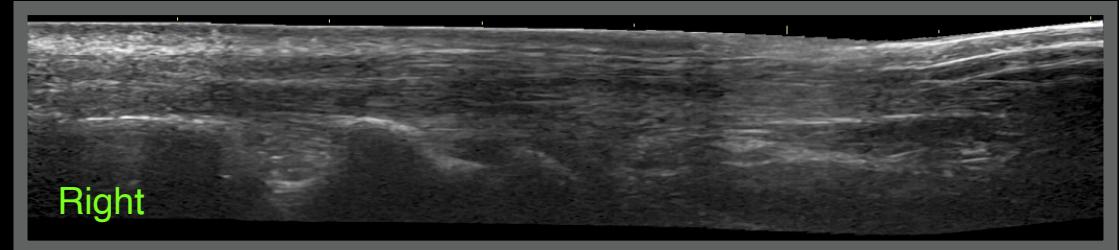
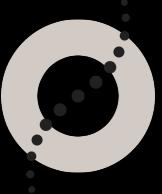
Caudal face transverse scan



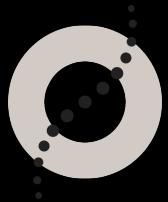


Barattolo, MI, 2 years

Caudal face longitudinal scan

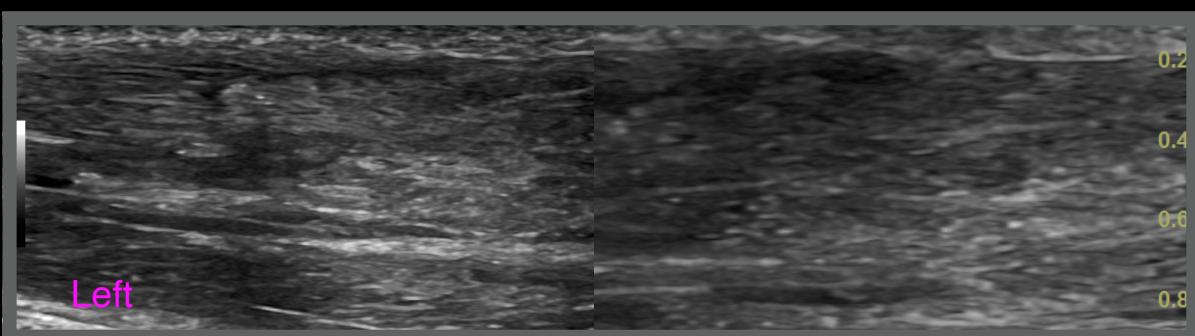
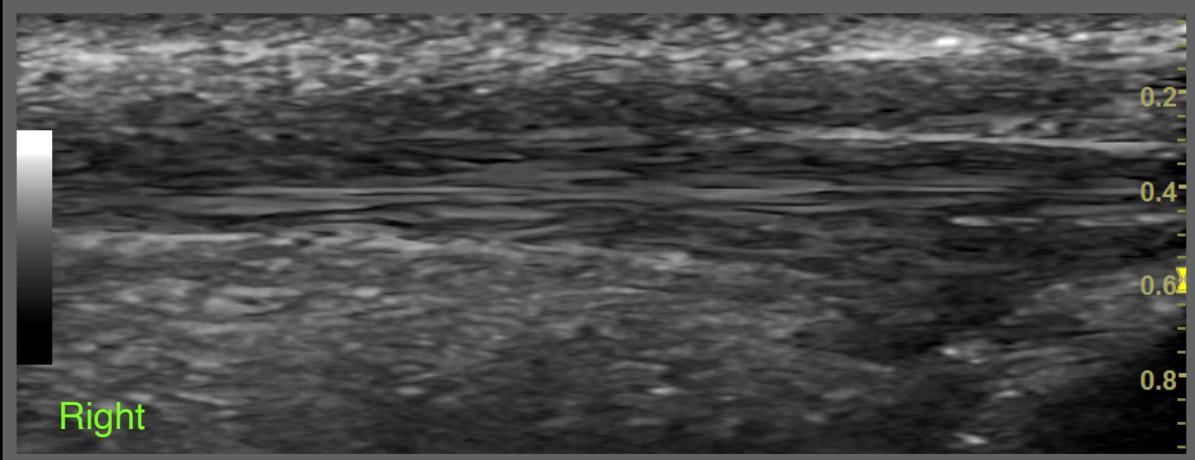
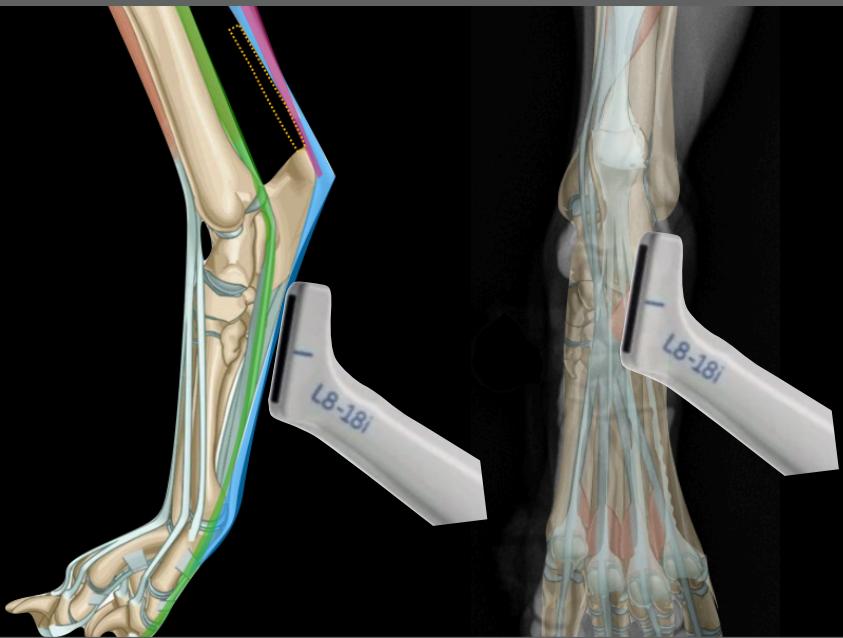


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Barattolo, MI, 2 years

Caudal face longitudinal scan



Barattolo, Mongrel, MI, 2 years

Two months later

Ultrasonographic diagnoses

- Improving healing of the tenomuscular structures
- Fracture stable
- Gradually reducing containment



Barattolo, Mongrel, MI, 2 years

Four months later

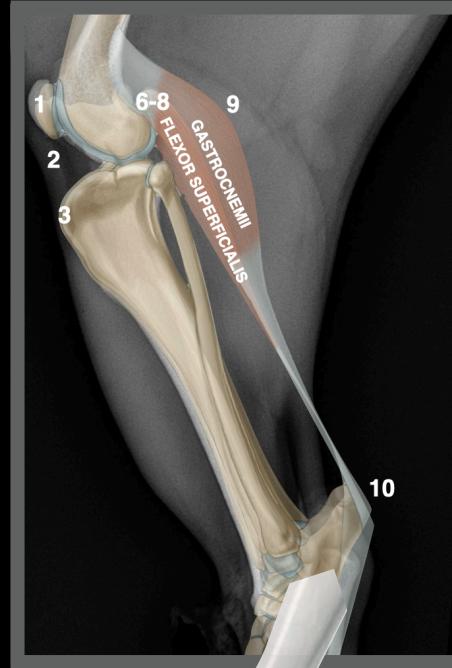
- Weight-bearing and increasing muscle tone on the left hindlimb for the last four weeks



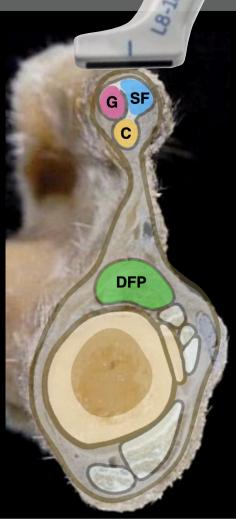
Barattolo, Mongrel, MI, 2 years

Four months later



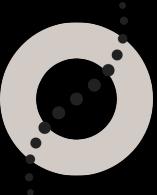


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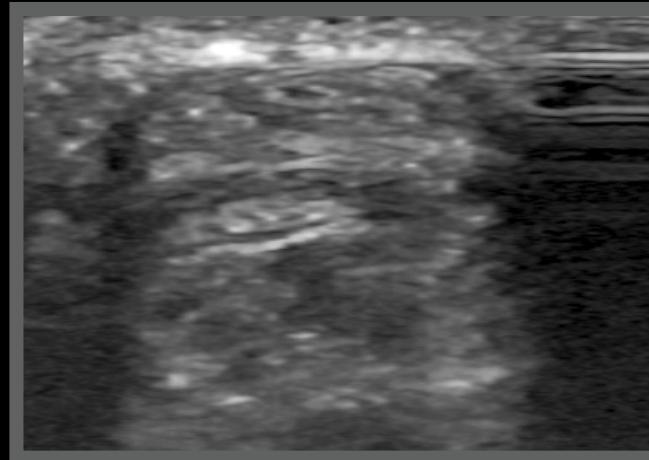
Barattolo, MI, 2 years

Four months later

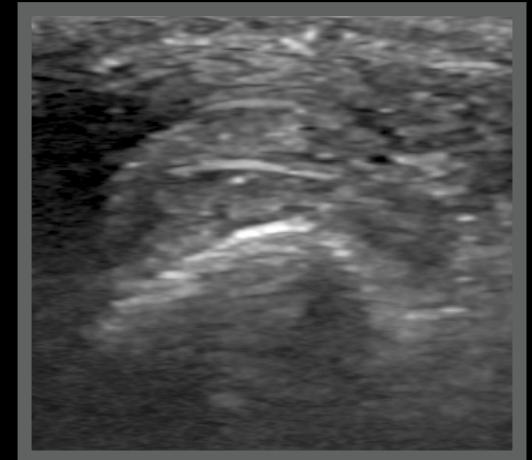


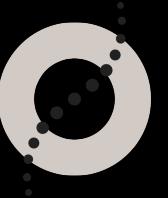
Caudal face transverse scan

Right



Left





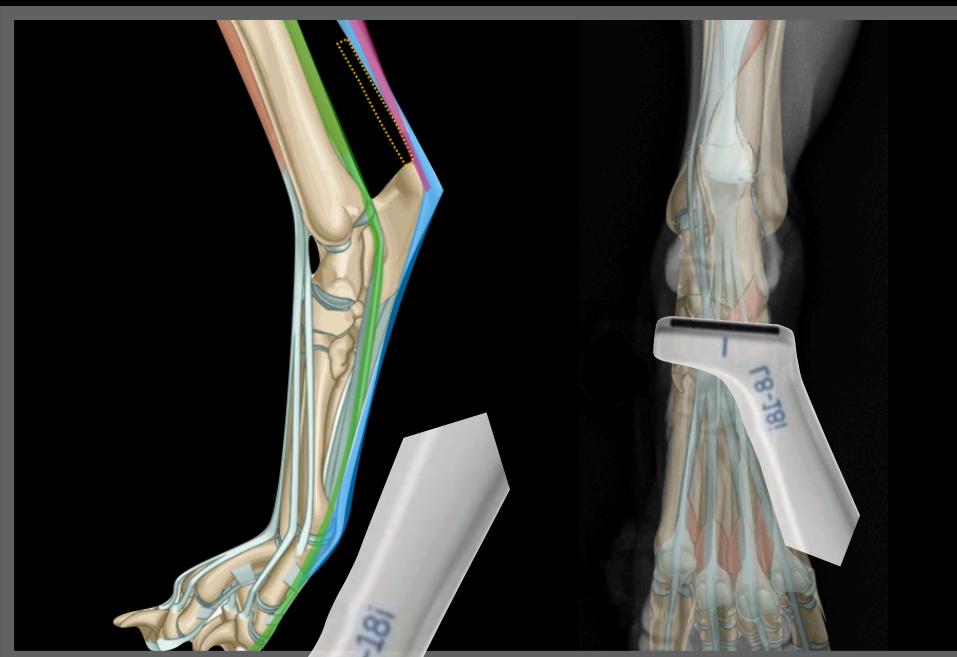
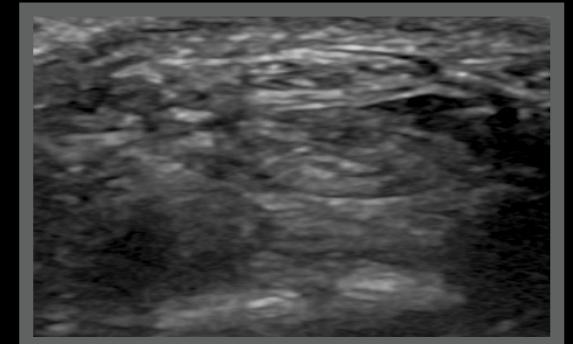
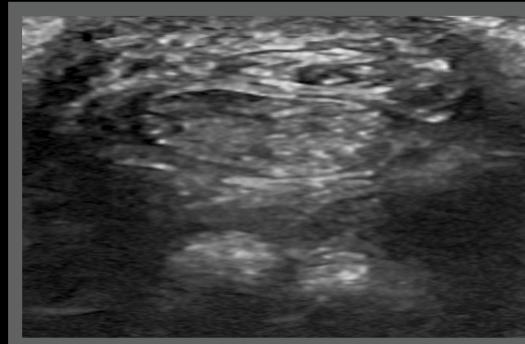
Barattolo, MI, 2 years

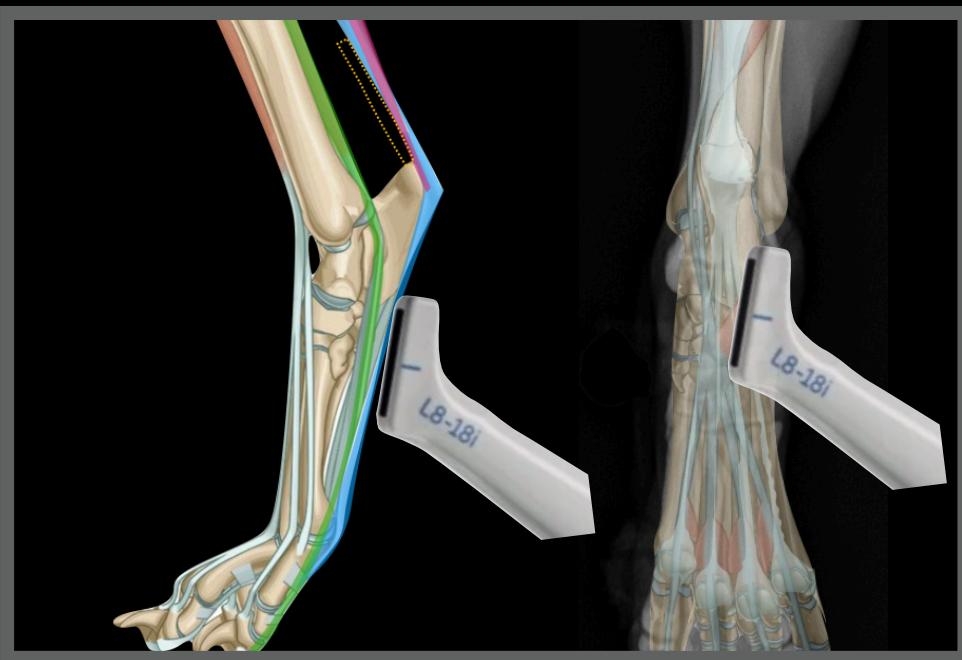
Four months later

Caudal face transverse scan

Right

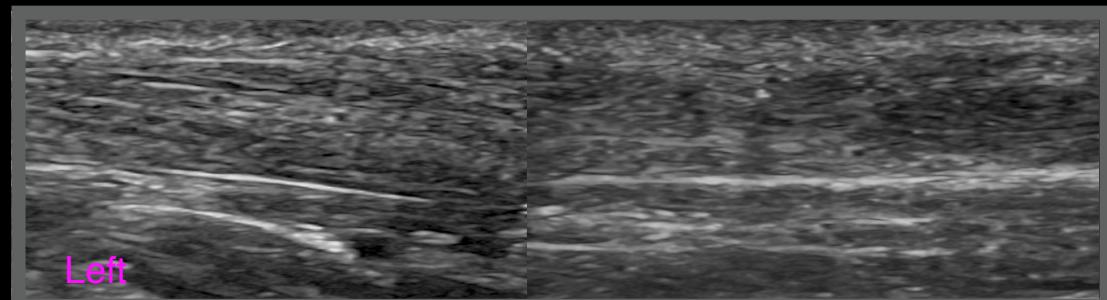
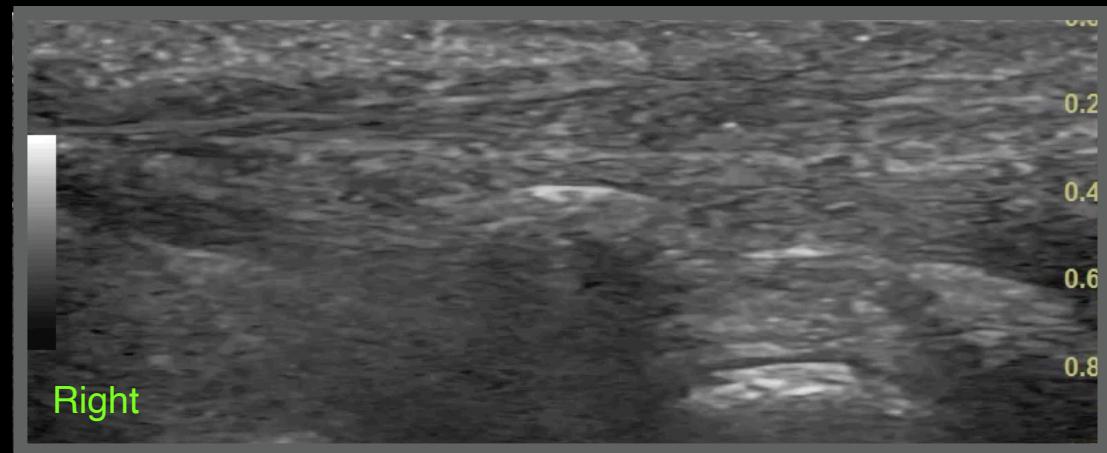
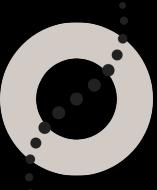
Left





Barattolo, MI, 2 years

Four months later



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Barattolo, Mongrel, MI, 2 years

Follow up

- He went back to normal activity after two months of controlled physical activity
- Sound for the last two years



Tuffo, English Setter, MI, 5 years

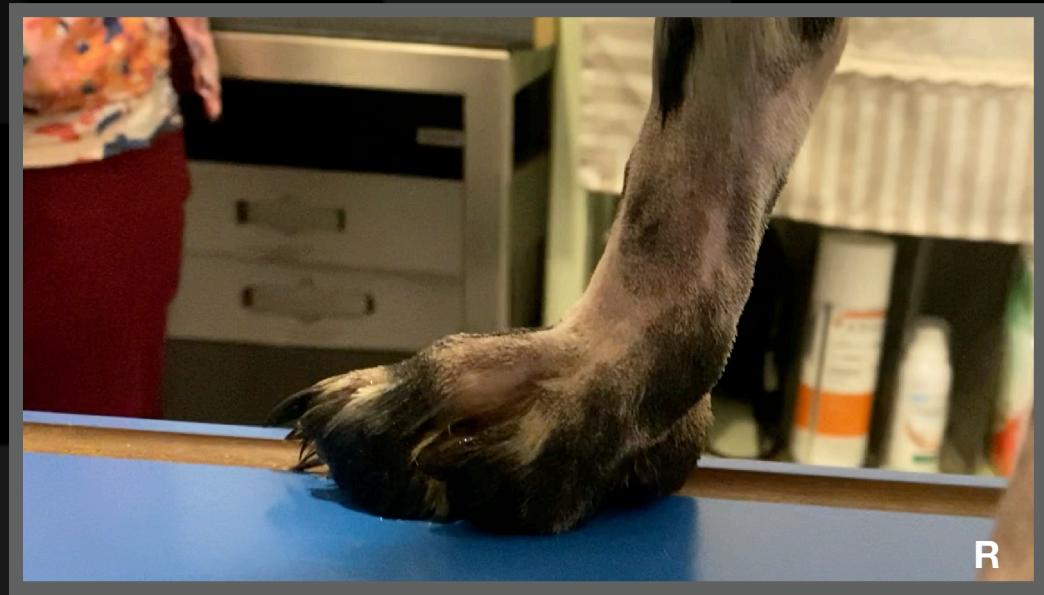
- For the last seven months, recurrent left hindlimb lameness after hunting
- Fine during the exercise but severely lame after rest
- Swollen MT-P1 joint of the left fourth digit



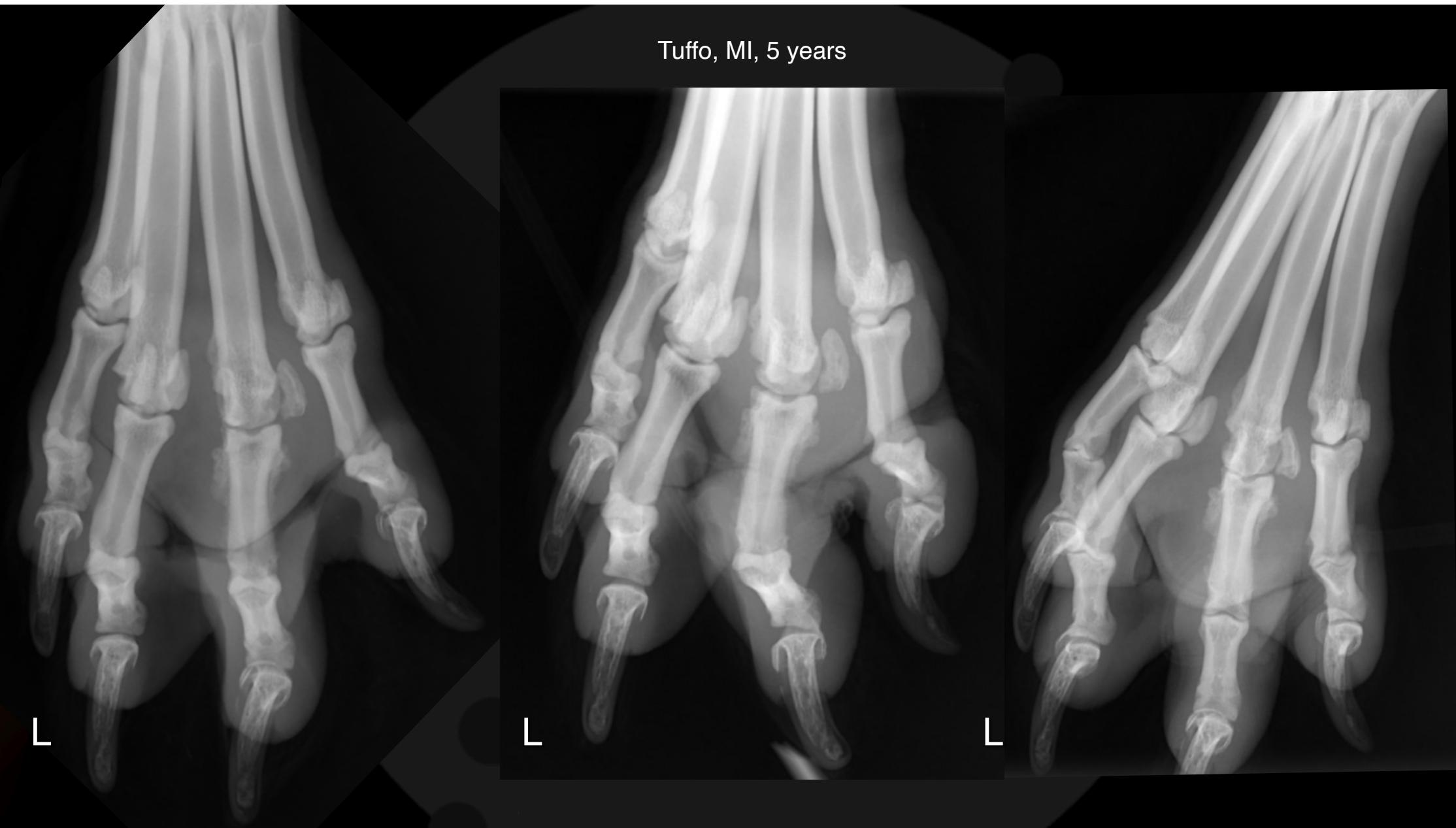
Tuffo,
MI, 5 years



Tuffo,
MI, 5 years



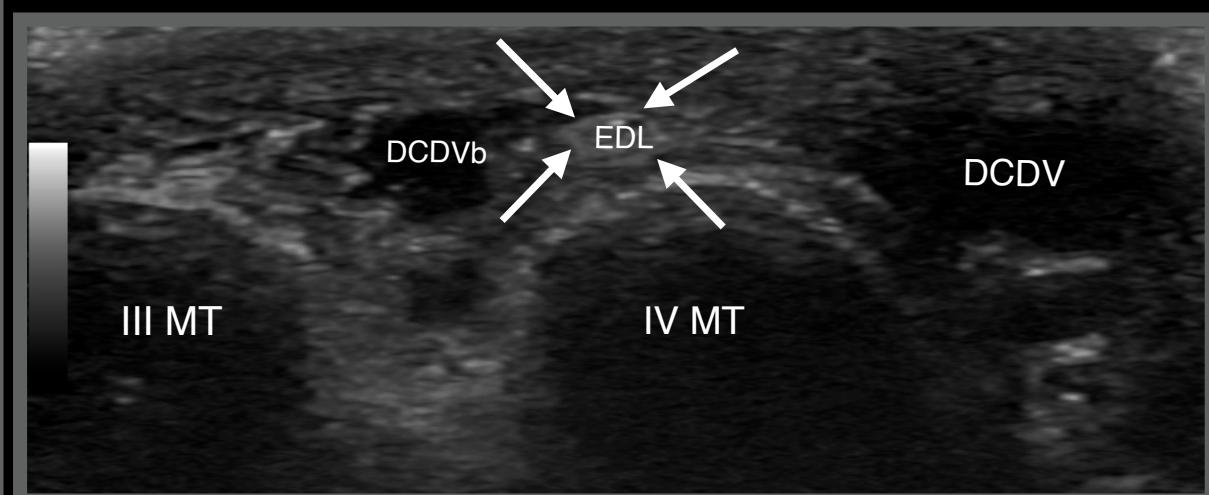
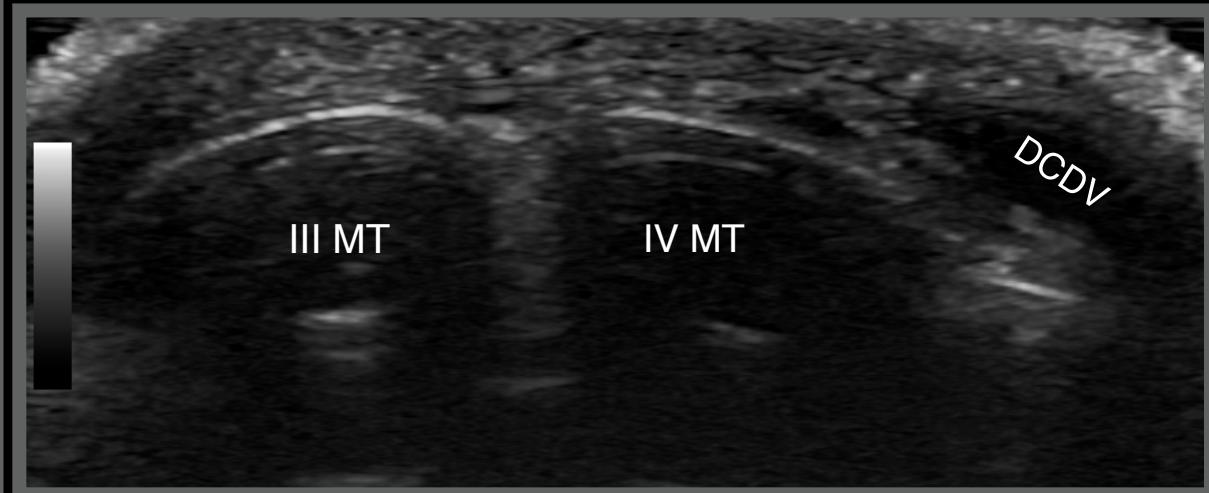
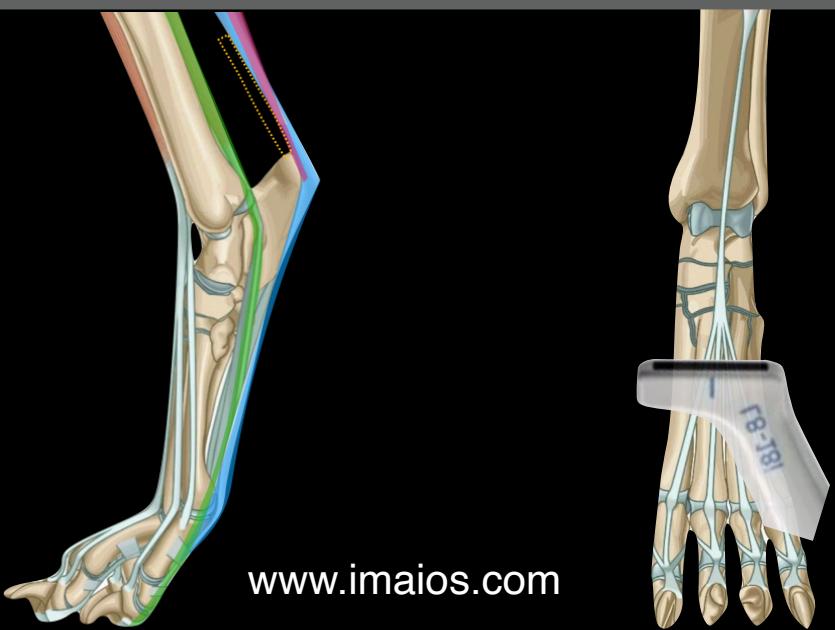
Tuffo, MI, 5 years



Tuffo, MI, 5 years

Right paw

Cranial face transverse scan



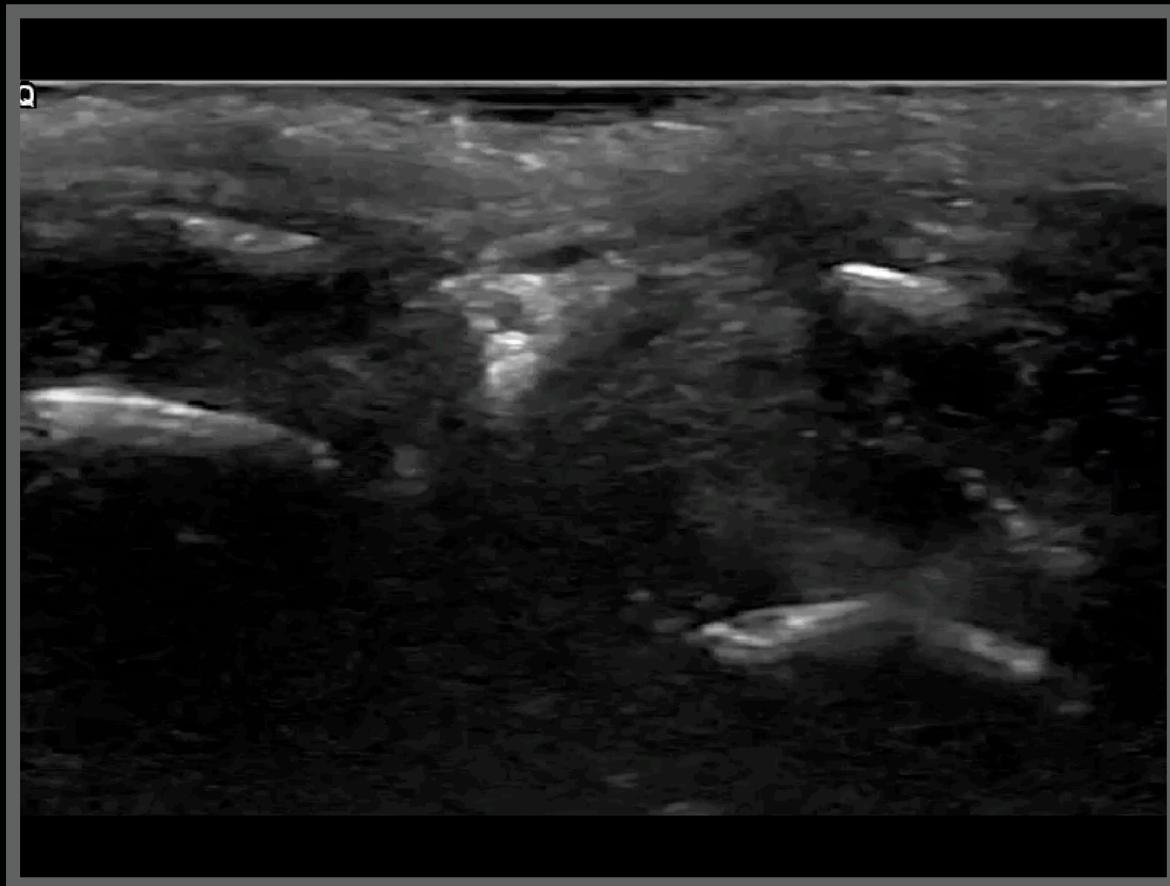
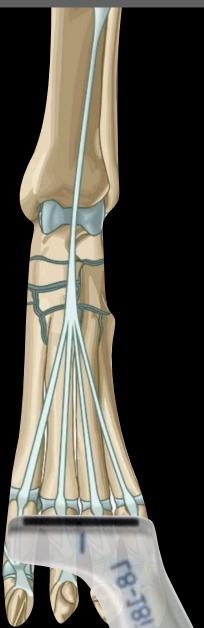
Tuffo, MI, 5 years

Left paw

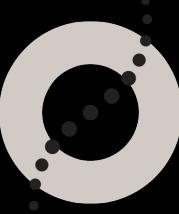
Cranial face transverse scan



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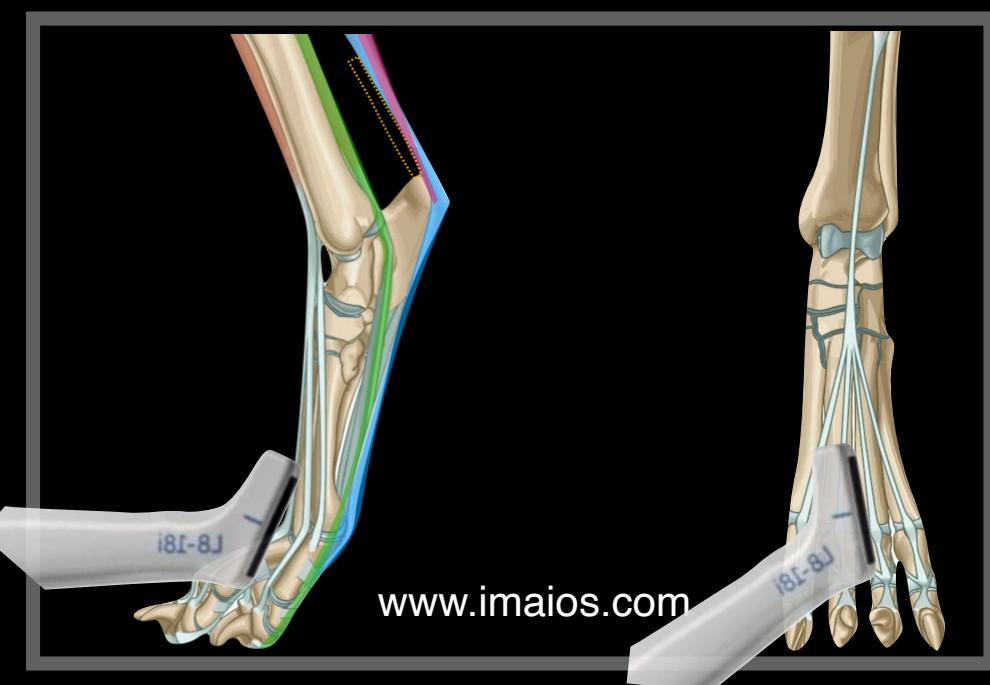
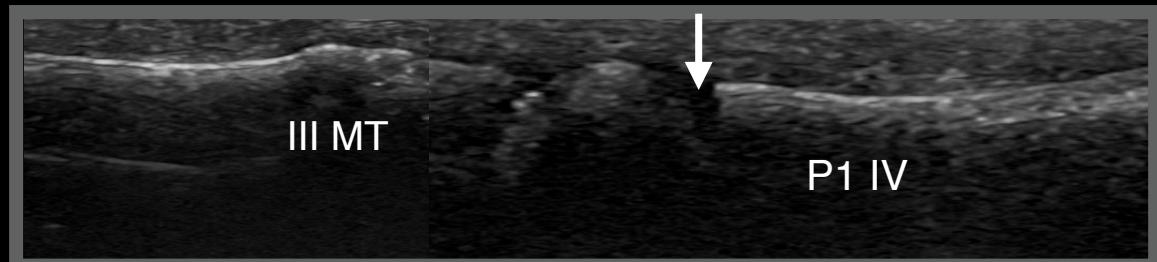


Tuffo, MI, 5 years



Right paw

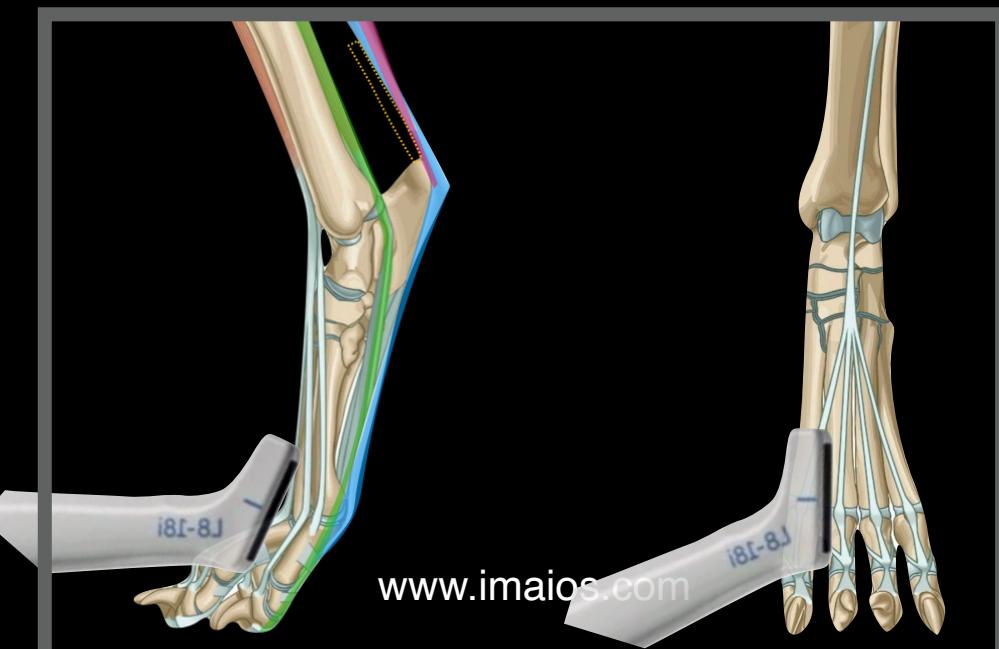
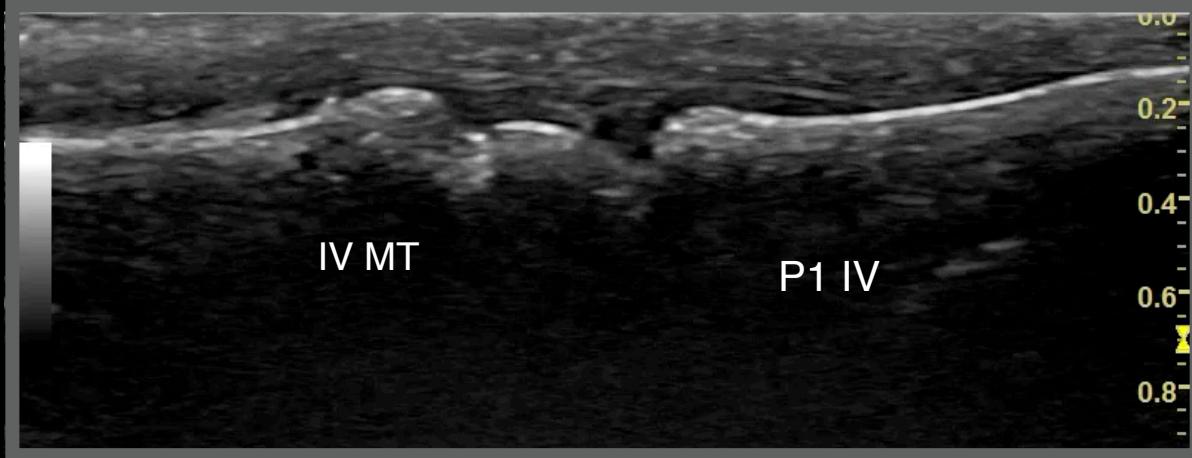
Cranial face longitudinal scan

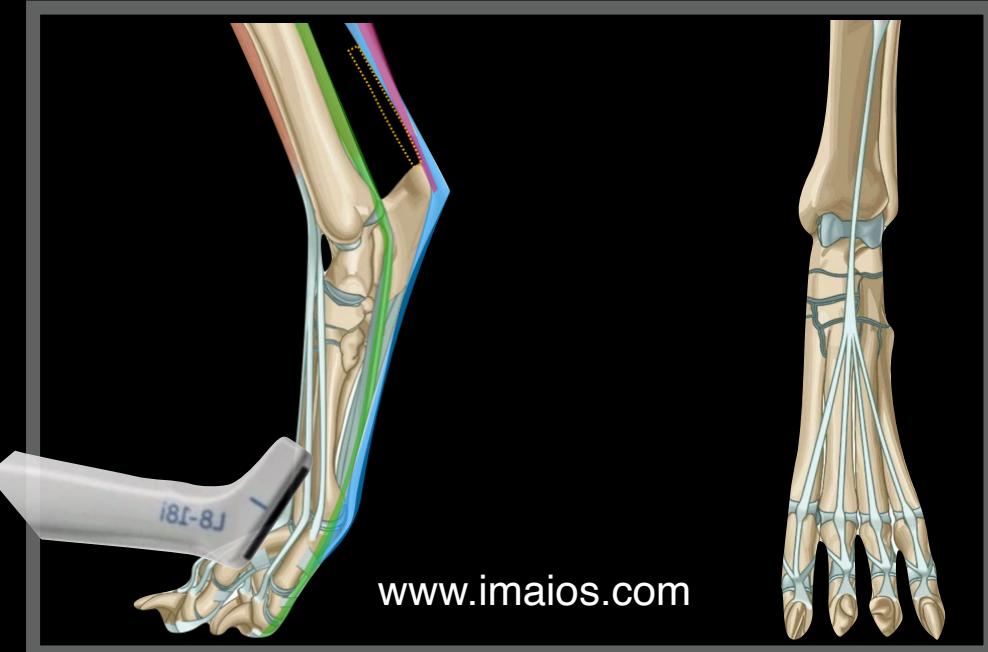


Tuffo, MI, 5 years

Right paw

Cranial face longitudinal scan

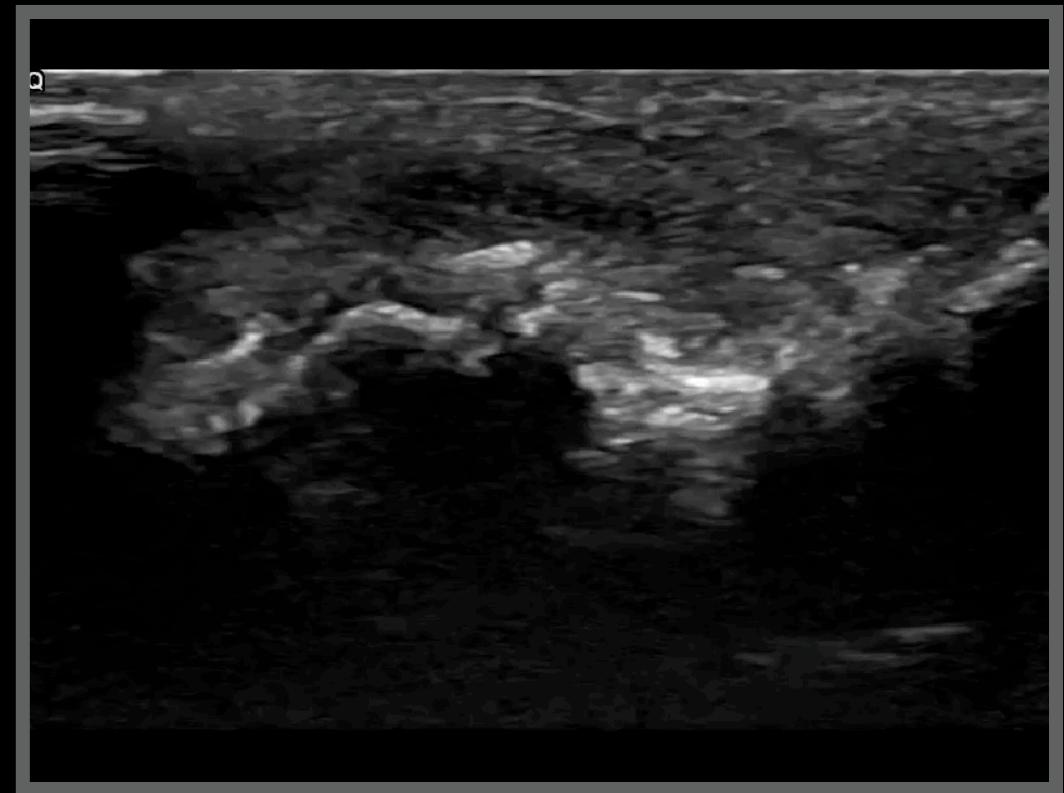
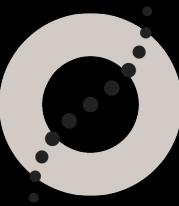


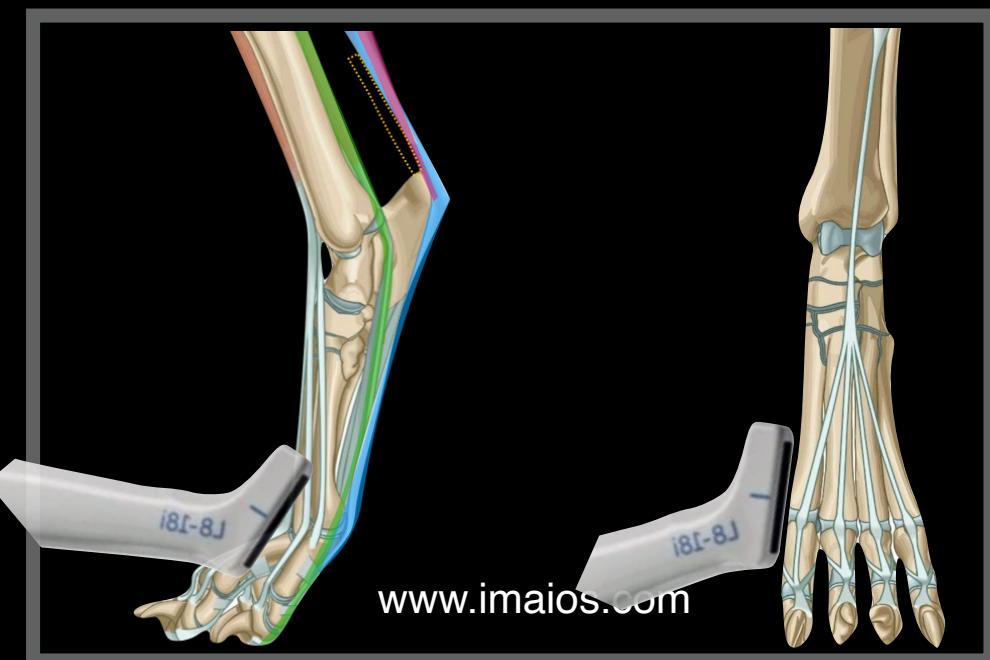


Tuffo, MI, 5 years

Left paw

Cranial face longitudinal scan, IV digit

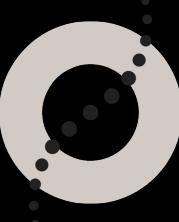




Tuffo, MI, 5 years

Left paw

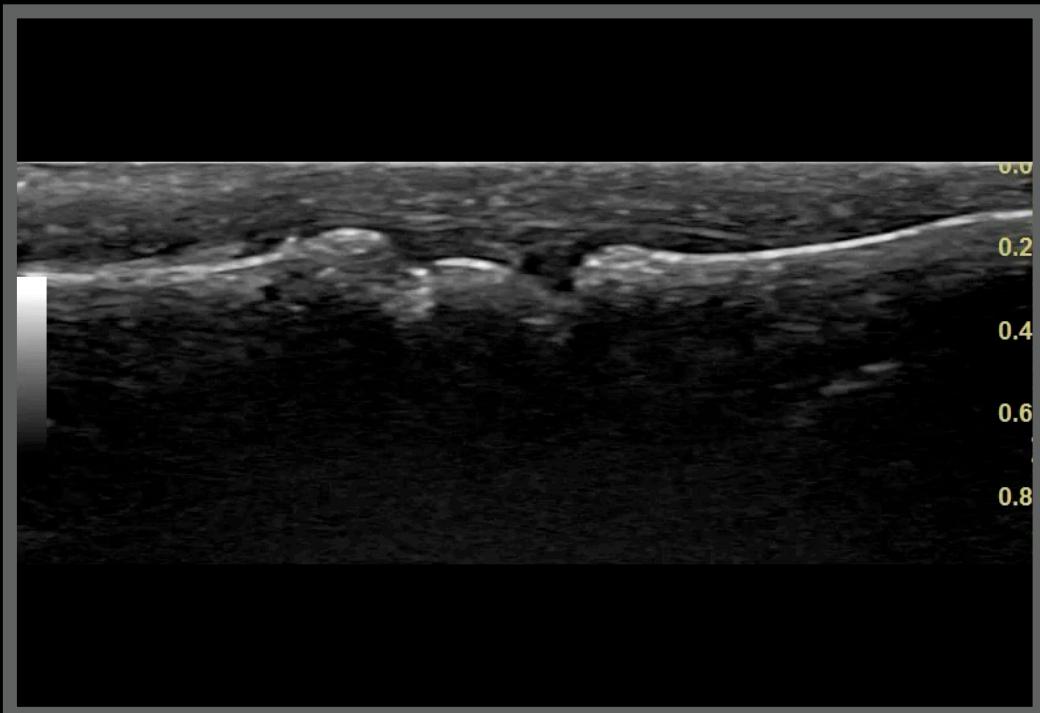
Cranial face longitudinal scan, IV digit



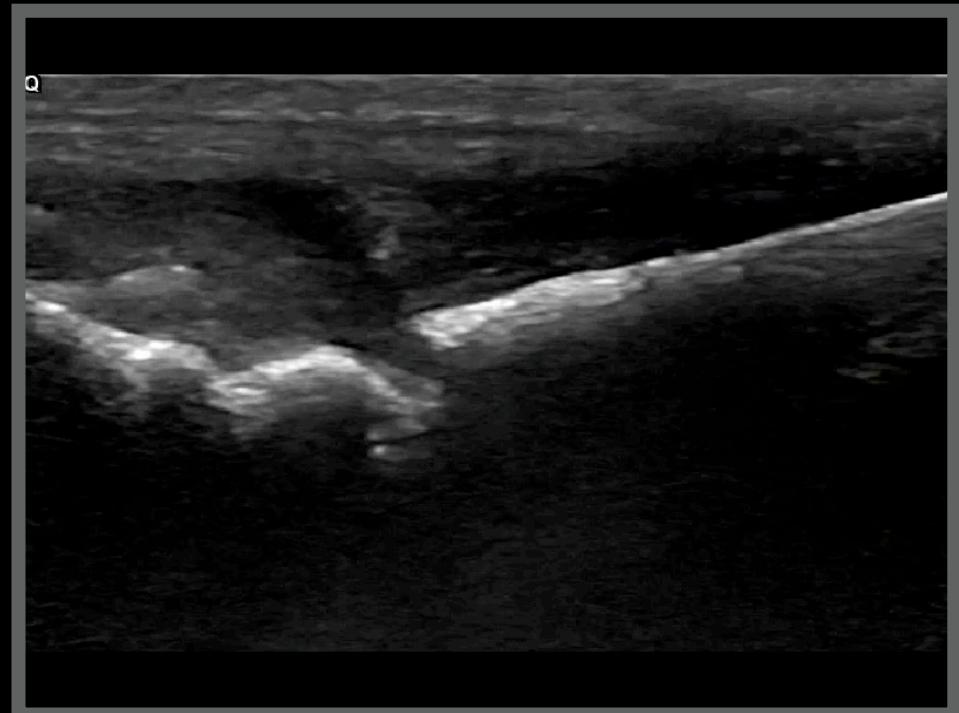


Tuffo, English Setter, MI, 5 years

Cranial face longitudinal scan, right IV digit



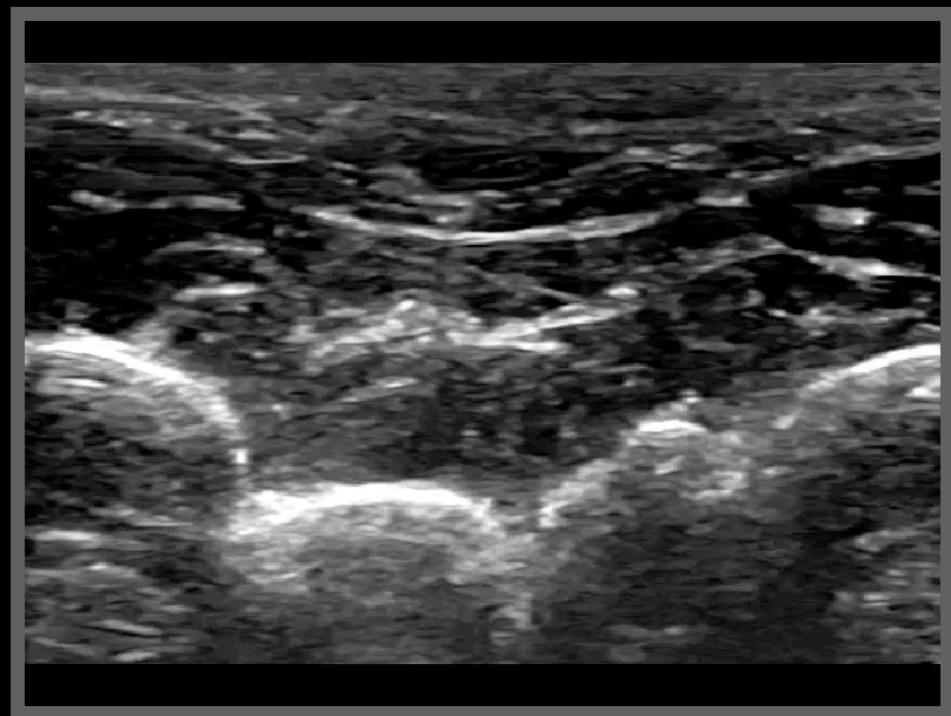
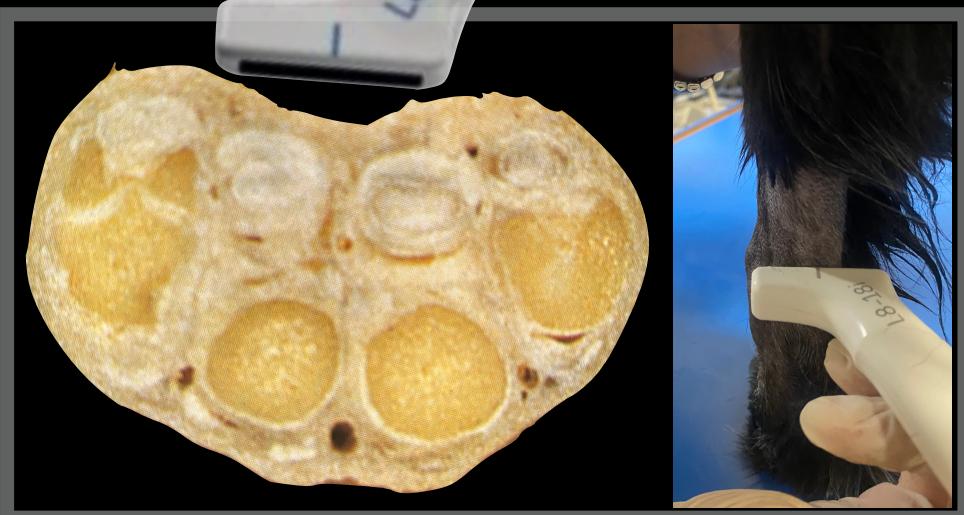
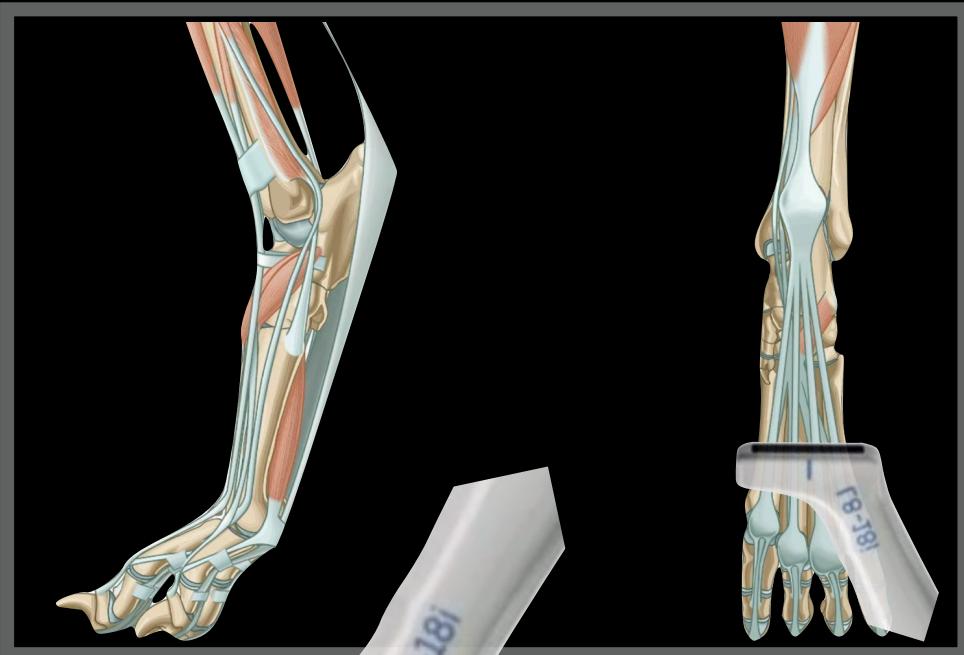
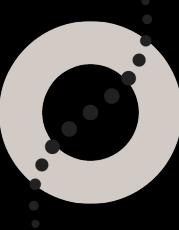
Cranial face longitudinal scan, left IV digit



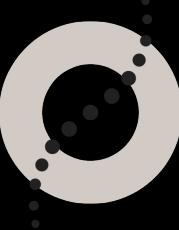
Tuffo, MI, 5 years

Right paw

Plantar face transverse scan, IV digit

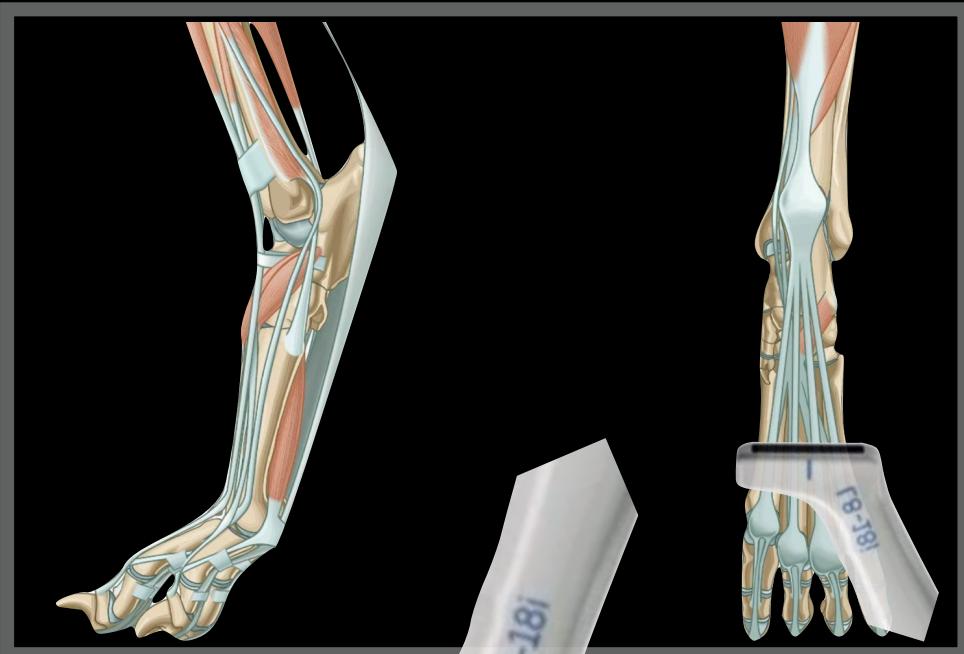
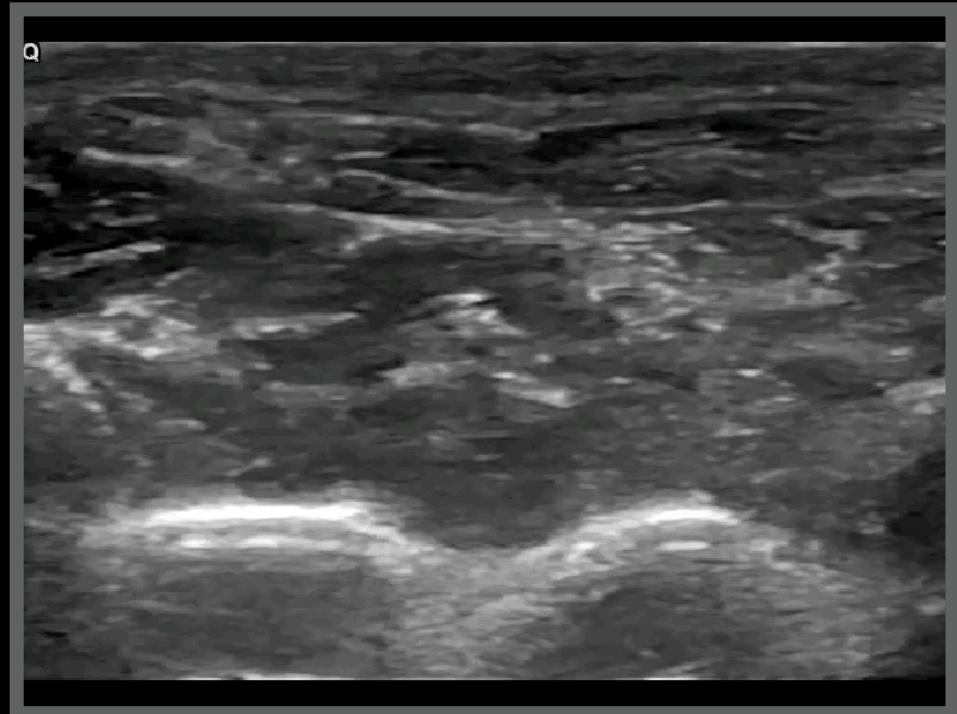


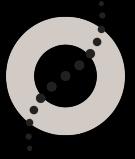
Tuffo, MI, 5 years



Left paw

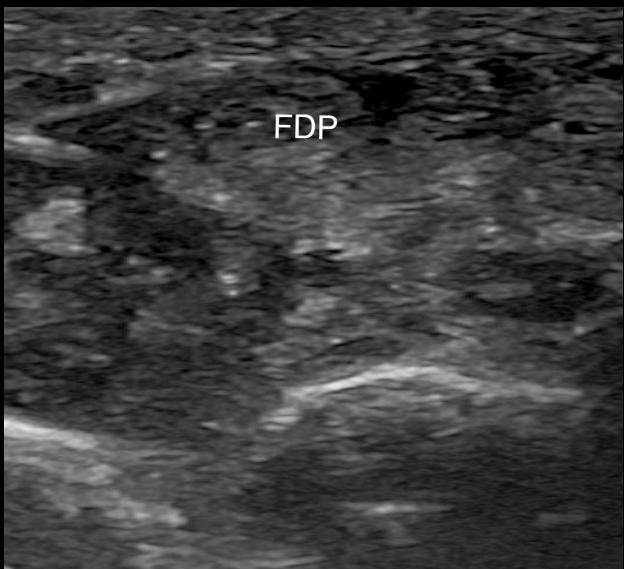
Plantar face transverse scan, IV digit



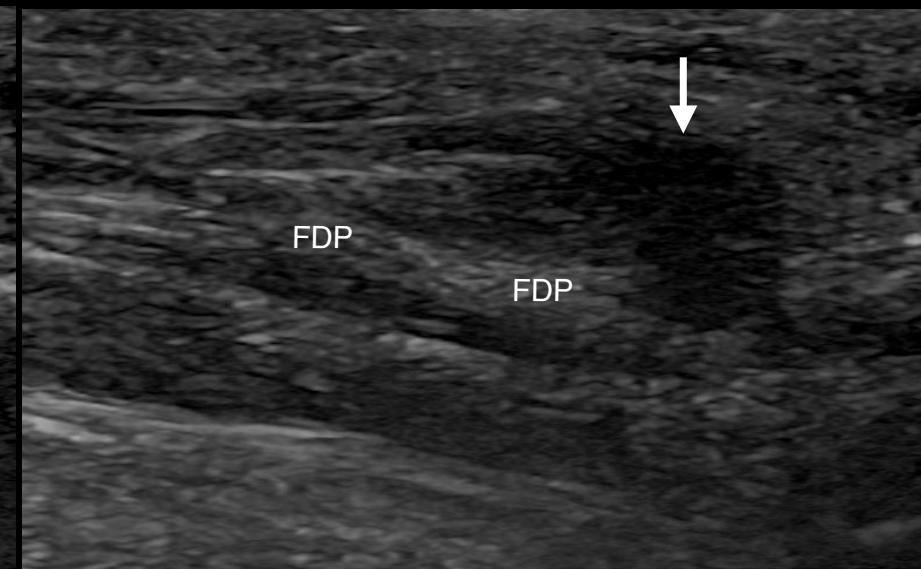


Tuffo, English Setter, MI, 5 years

Cranial face longitudinal
scan, right IV digit



Cranial face longitudinal scan, left IV digit



Tuffo, English Setter, MI, 5 years

Ultrasonographic diagnoses:

- Severe left MT-P1 OA and instability
- Loss of normal anatomy of the soft tissue surrounding the joint
- Lateral displacement of the sixth sesamoid bone
- Chronic extension and focal loss of the deep flexor tendon of the left fourth hindlimb digit
- Moderate, severe elongation of the right deep flexor tendon of the right fourth hindlimb digit



Conclusions

US can be helpful in grading muscle and tendon acute and chronic conditions

It can be useful for surgical planning or for follow-up after surgery



Pietra Di Bismantova, (RE), Italy

Thank you



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