

Ultrasound of the lateral and medial aspect of the stifle

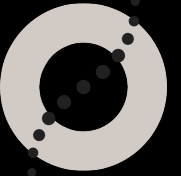


Diagnostic Mindset



Girola Spattini
DVM, PhD, DECVDI

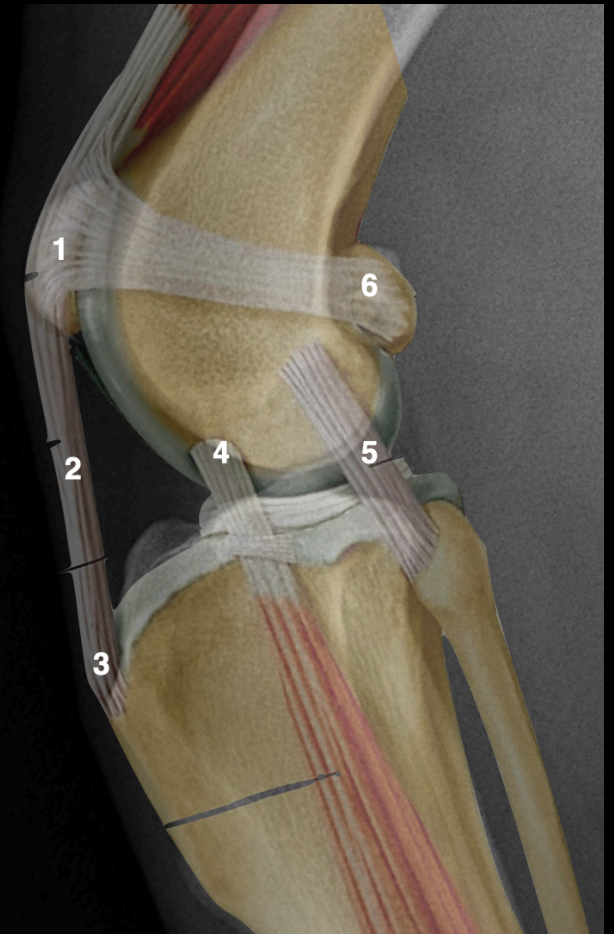
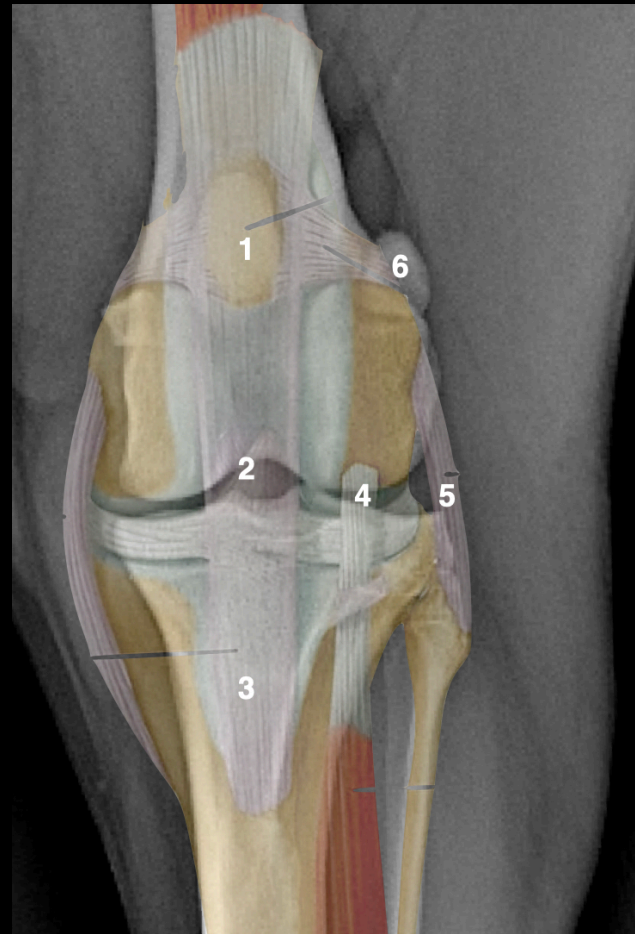
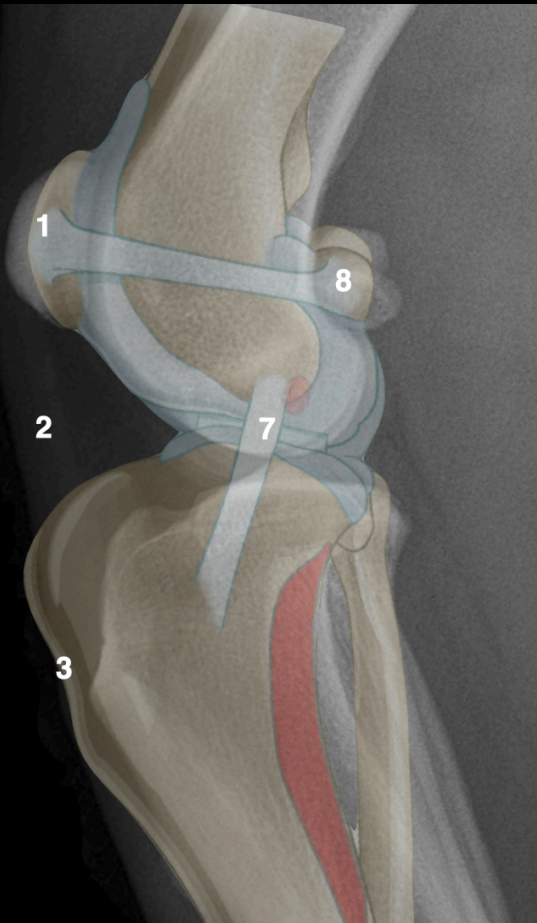
Stifle joint: 1-8



Medial face

Cranial face

Lateral face



Chupito, Shetland , MI, 4 months

- The patient was in the garden alone for one hour
- Since then (one week), abnormal gait right hind limb



Chupito, Shetland , MI, 4 months

Right tarsus hyperextension

Focal swelling lateral aspect of the right stifle



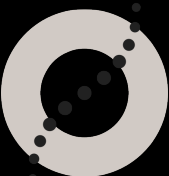
Left tarsus



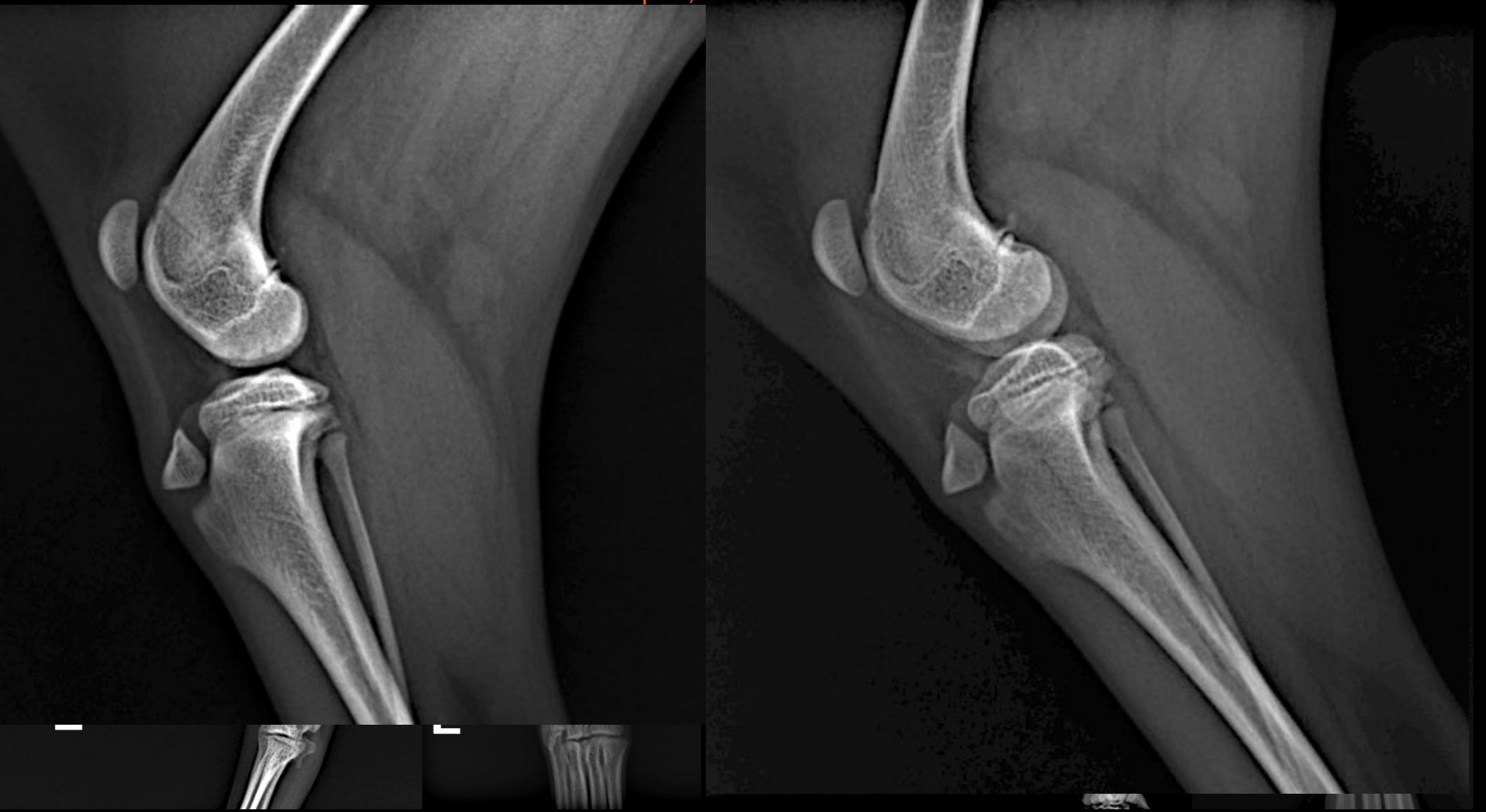
Right tarsus



Chupito, MI, 4 months



Chupito, MI 4 months



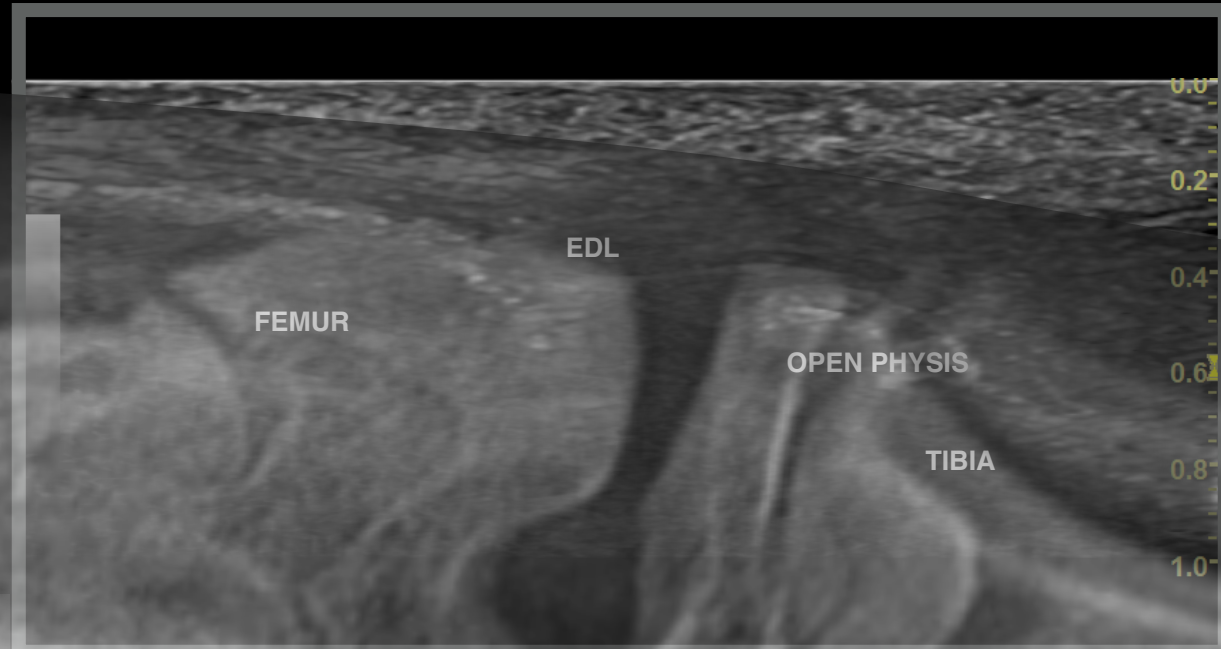
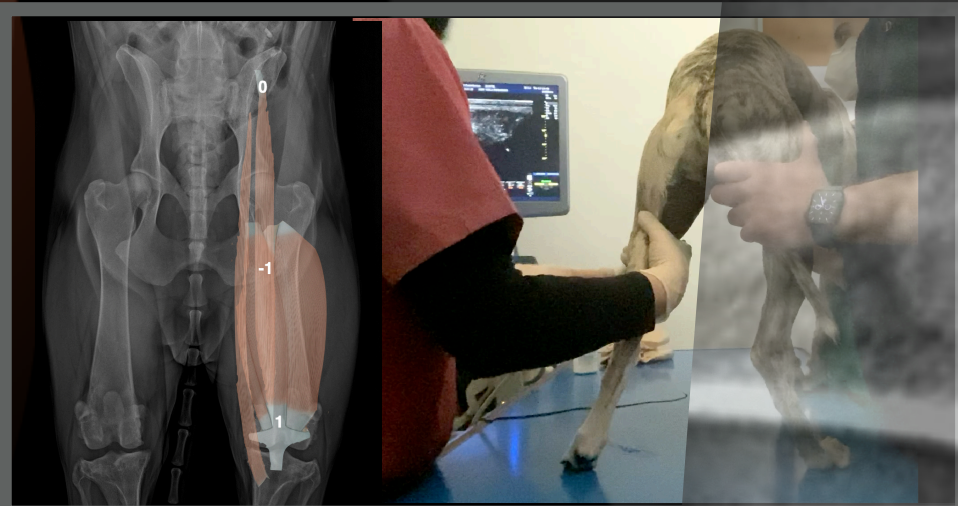
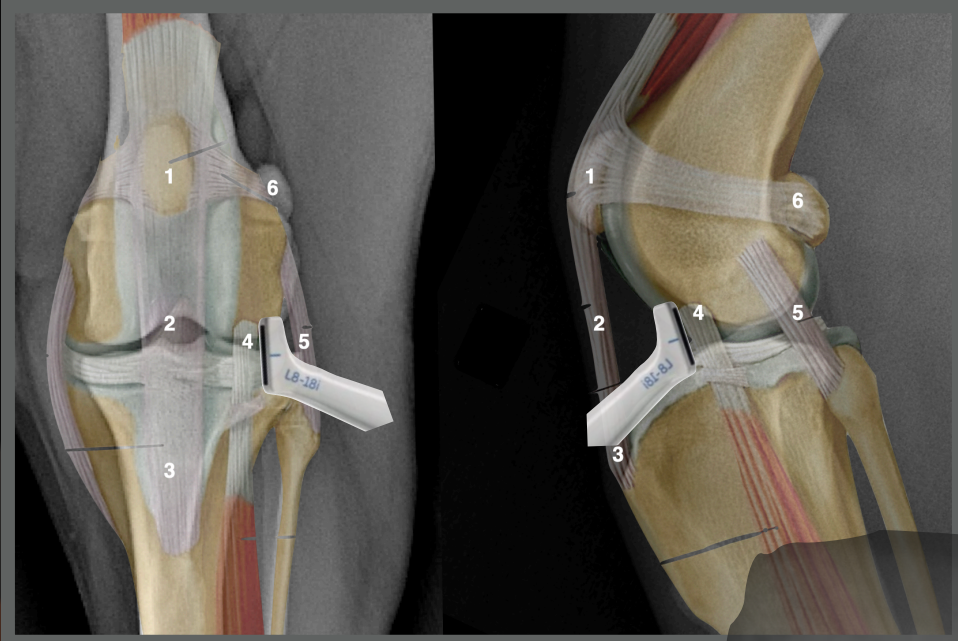
Chupito, MI, 4 months

Left stifle

Sound limb

Lateral face longitudinal scan

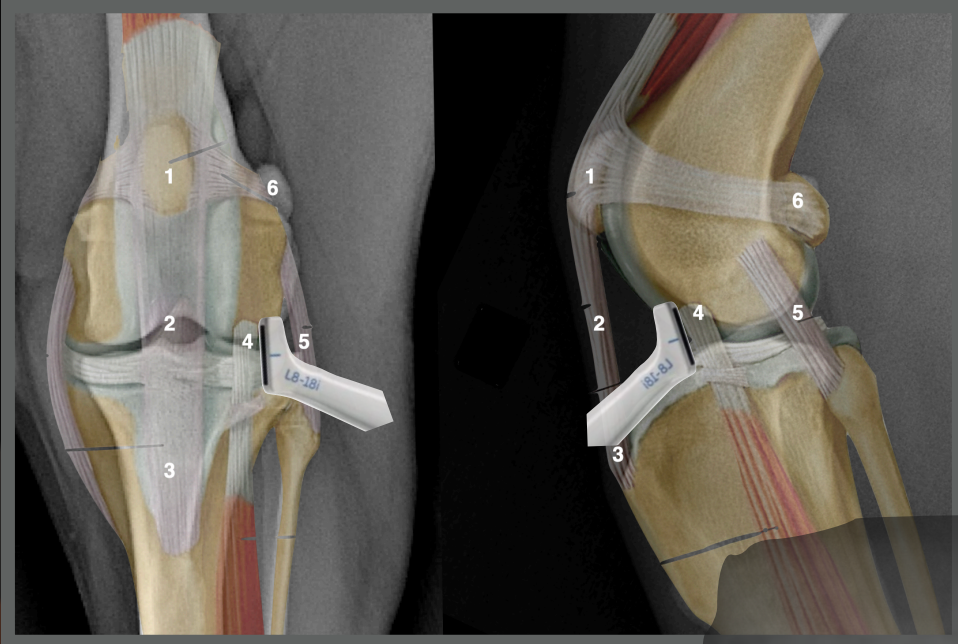
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Chupito, MI, 4 months

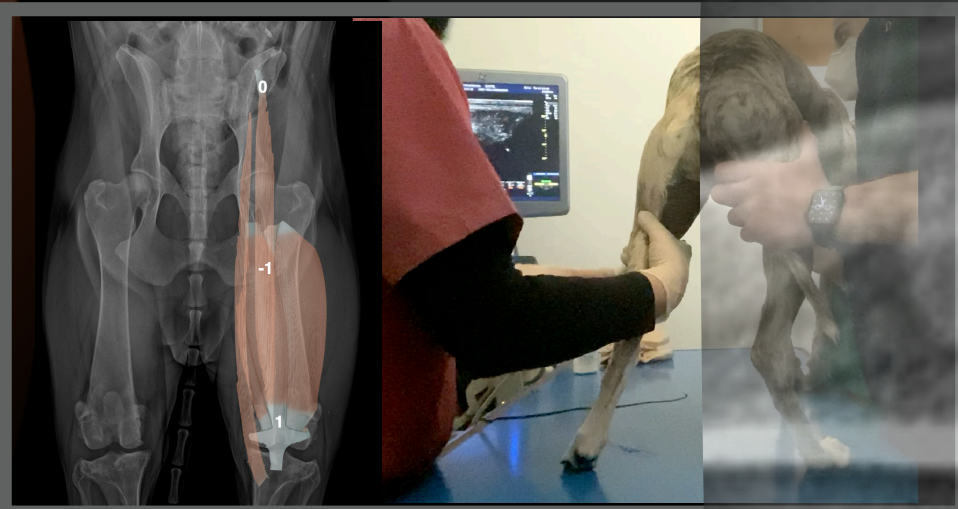
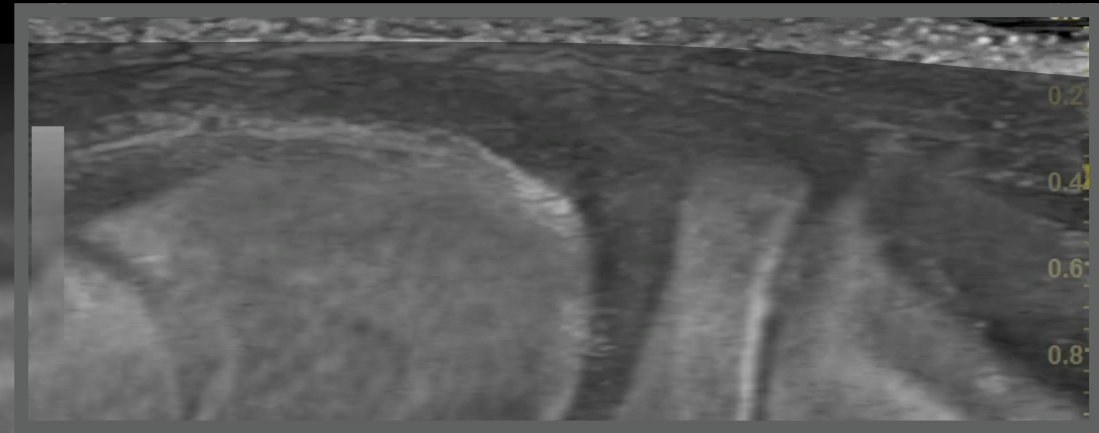
Right stifle

Affected limb



Lateral face longitudinal scan

4

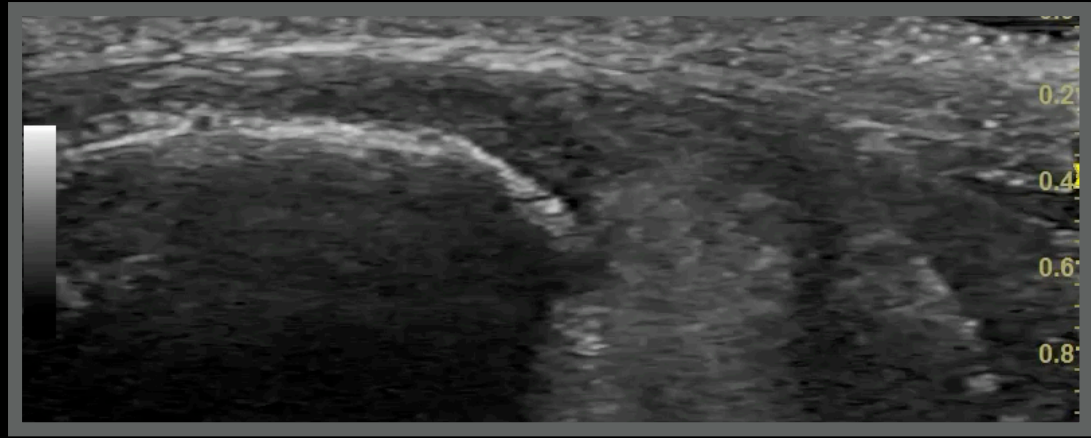
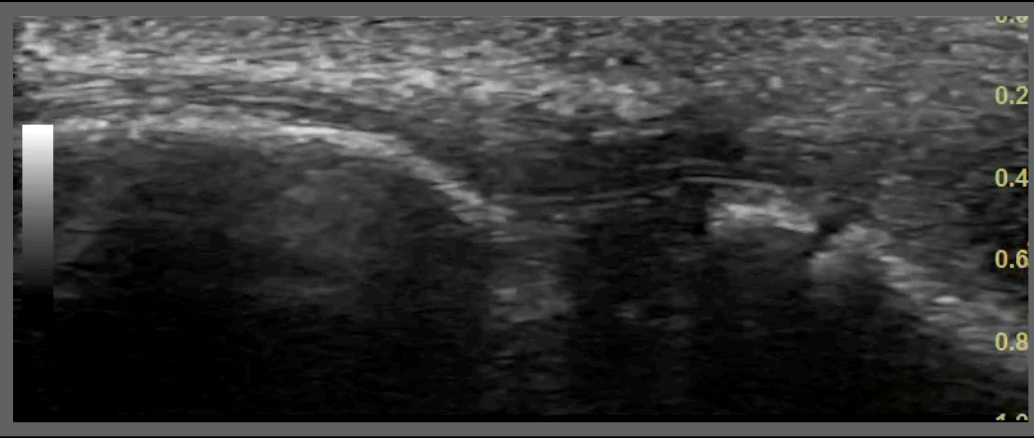




Chupito, MI, 4 months

Left stifle

Right stifle



Chupito, Shetland , MI, 4 months

Ultrasonographic diagnoses:

- A suspected avulsed small fragment from the right extensor fossa
- Partial avulsion of the insertion of the right extensor digitorum longus



How to arrive to Conclusions:

- PE examination
- Blood works
- Ultrasonographic findings
- Literature



Literature

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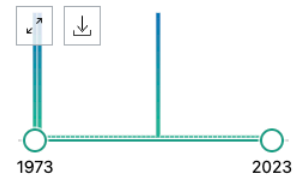
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3 results

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RESULTS BY YEAR



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ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

- Books and Documents
- Clinical Trial
- Meta-Analysis
- Randomized Controlled Trial
- Review
- Systematic Review

Letter: **Avulsion of the extensor digitorum longus muscle in the dog.**

1 Goedegebuure SA, van den Ingh TS, Lieben NH.

Cite J Small Anim Pract. 1974 Jun;15(6):418.

Share PMID: 4449230 No abstract available.

Avulsion of the extensor digitorum longus muscle in the dog: a report of four cases.

2 Pond MJ.

Cite J Small Anim Pract. 1973 Dec;14(12):785-96. doi: 10.1111/j.1748-5827.1973.tb06421.x.

Share PMID: 4803917 No abstract available.

[Avulsion of the origin of the tendon of the extensor digitalis longus muscle in a Doberman pinscher].

3 Stöcklin P, L'Eplattenier H, Montavon PM.

Cite Schweiz Arch Tierheilkd. 1999;141(2):53-7.

Share PMID: 10028227 German.

Avulsion of the tendon of the **extensor digitalis longus** muscle is a rare condition in young, large breed **dogs** or as a consequence of chronic lateral patellar luxation in adult **dogs**. ...The postoperative result was excellent, with recovery of ful ...

First Prev Page 1 of 1 Next Last

Literature

PubMed.gov extensor longus dog [Advanced](#) [Create alert](#) [Create RSS](#) [User Guide](#)

Sorted by: Best match

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RESULTS BY YEAR

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PUBLICATION DATE

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Share PMID: 4803917 No abstract available.

3 **Extensor Tendon Entrapment on Computed Tomography Imaging of Distal Radius Fractures.**
Nigh ED, Emerson CP, To D, Barnhill S, Rizzo MG, Nguyen DM, Ugarte A, Muñera F, Greif DN, Jose J, Dodds SD.
Cite J Wrist Surg. 2020 Apr;9(2):129-135. doi: 10.1055/s-0039-3402424. Epub 2019 Dec 24.
Share PMID: 32257614 **Free PMC article.**
Mechanism of injury included falls (n = 7), motor vehicle accidents (n = 6), **dog** bites (n = 2), and gunshot wound (n = 1). Entrapped tendons were limited to the **extensor** compartment and included the **extensor pollicis longus** (EPL; n = 11), **extens** ...

4 **Ultrasonographic anatomy of the dorsal region of the carpus of the dog.**
González-Rellán S, Fdz-de-Trocóniz P, Barreiro A.
Cite Vet Radiol Ultrasound. 2021 Sep;62(5):591-601. doi: 10.1111/vru.13003. Epub 2021 Jul 26.
Share PMID: 34309128
The final study, based on the methodology developed in a pilot study performed in twenty-two carpi, comprised two phases: (a) identification phase, in which a correlation between ultrasound and dissection and anatomic slices was performed in forty-eight cadaver carpi and the ultr ...

Unusual presentation of an avulsion of the long digital extensor tendon in a dog: radiographic, computed tomographic, arthroscopic, surgical and histological findings

Een ongewone vorm van avulsie van de pees van de m. extensor digitorum longus bij een hond: radiografische, computertomografische, artroscopische, chirurgische en histologische bevindingen

^{1,2}G. Verhoeven, ¹B. Van Ryssen, ¹I. Gielen, ¹M. Risselada, ¹H. van Bree

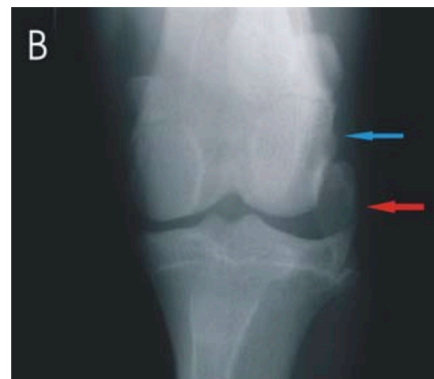
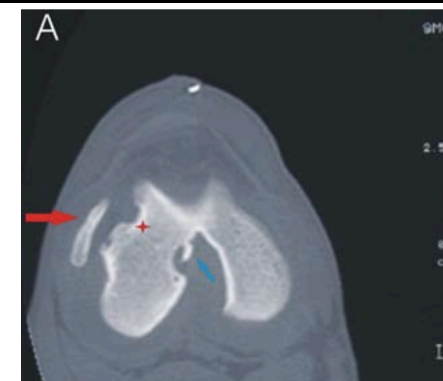
¹Department of Medical Imaging of Domestic Animals, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, B-9820 Merelbeke

²Algemene Dierenkliniek Randstad, Frans Beirenslaan 155, B-2150 Borsbeek

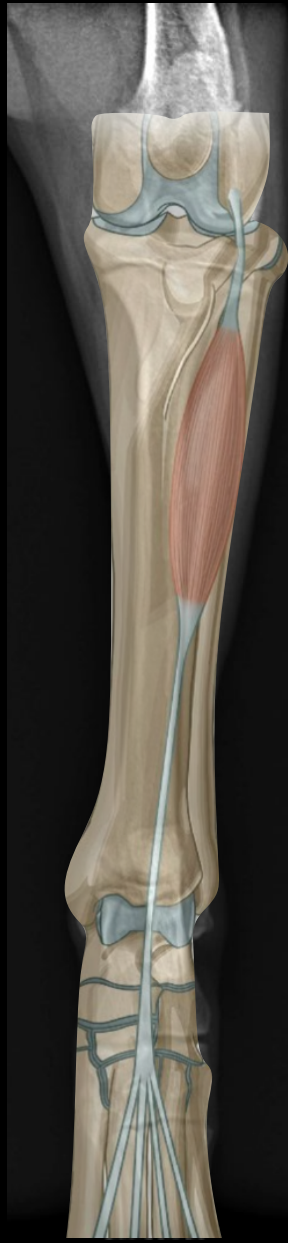
Geertverhoeven@hotmail.com

ABSTRACT

A long digital extensor tendon avulsion is reported in a 15-month-old intact male Great Dane with a right pelvic limb lameness of 2-week duration. The orthopedic, radiographic, computed tomographic, arthroscopic, surgical and histological findings are described. Surgical excision of the avulsed bone fragment and re-attachment of the tendon to the lateral joint capsule of the stifle joint was successful and the dog was free of lameness 6 and 12 months after therapy.

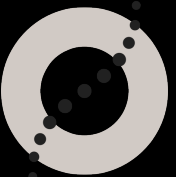
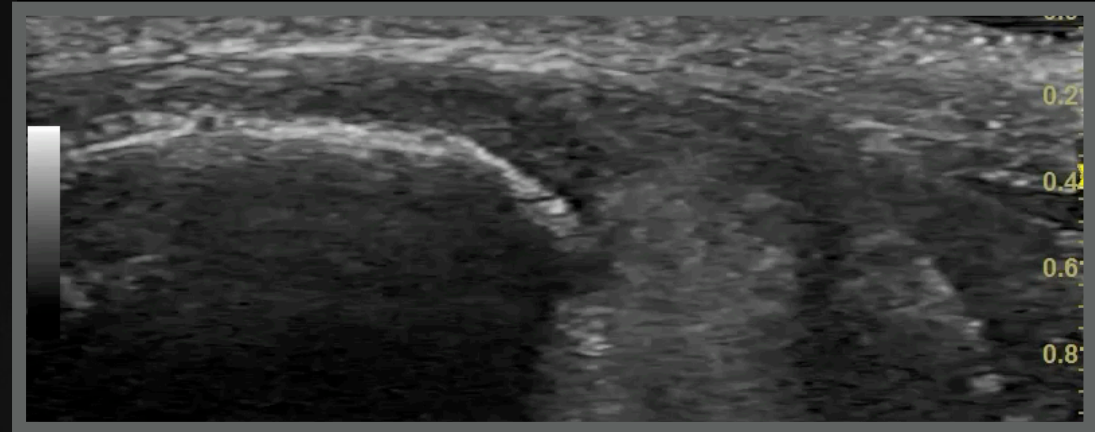


Extensor digitorum longus



Key points to diagnose EPI avulsion

- Focal swelling lateral margin of stifle
- Tarsal hyperextension
- Scattering artefact and tendon detachment at the extensor fossa



Chupito, Shetland, MI, 6 months

Two months recheck

- Clinically fine
- Housed in an active family



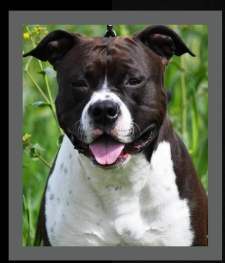
Drew, American Staffordshire, MI, 4 years

- Abnormal gait in the last two months
- Stable stifles on sedation
- Stoic patient
- Suspected pain on right stifle



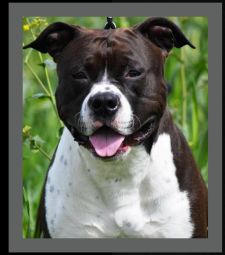


Drew, MI,
4 years

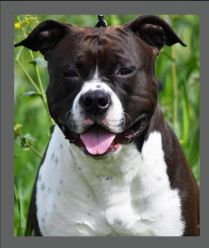




Drew, MI,
4 years



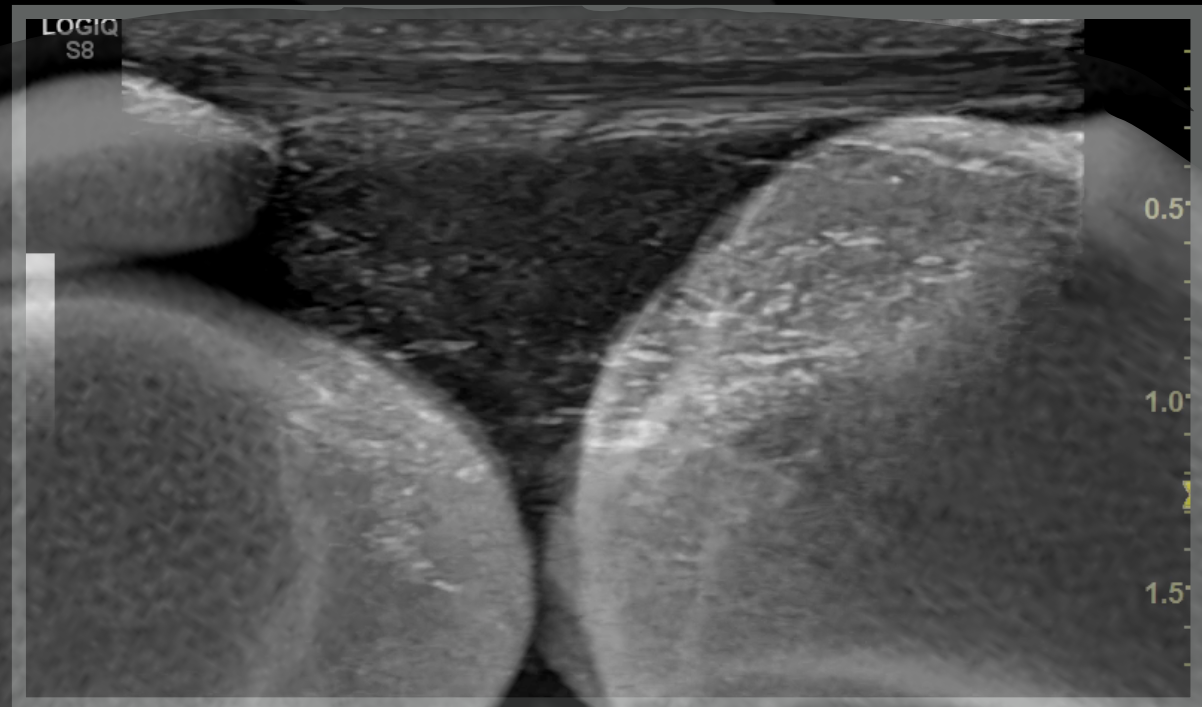
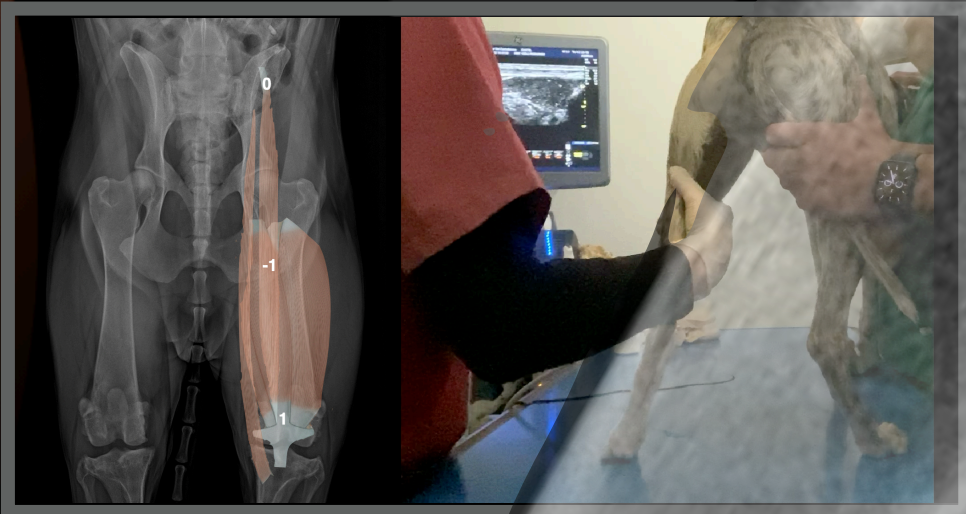
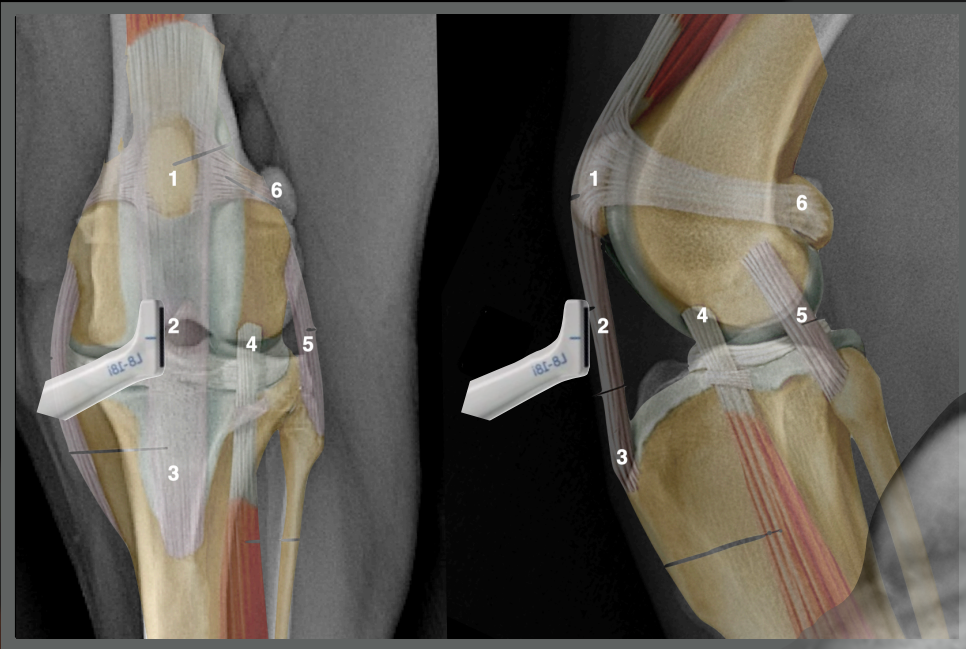
Drew, MI,
4 years



Drew, MI, 4 years

Left stifle

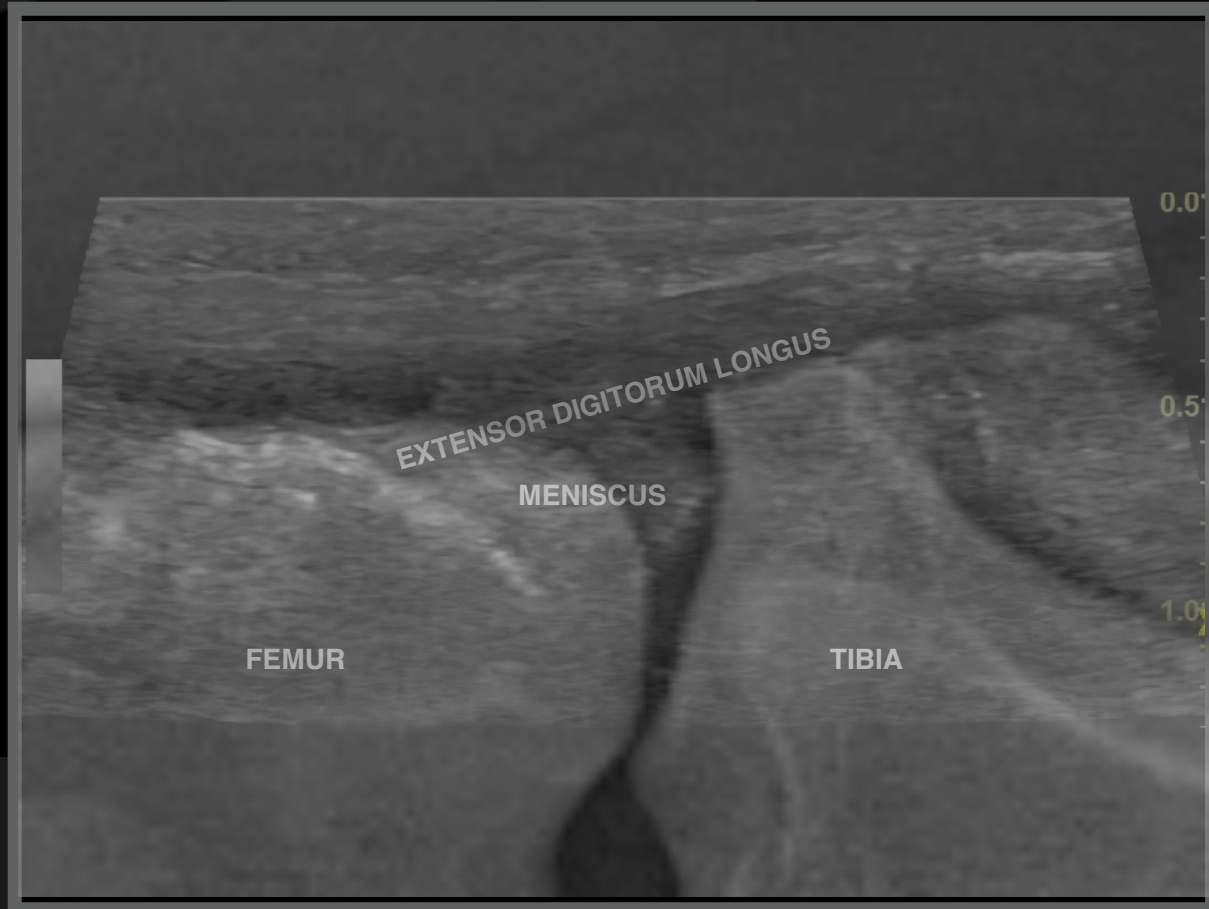
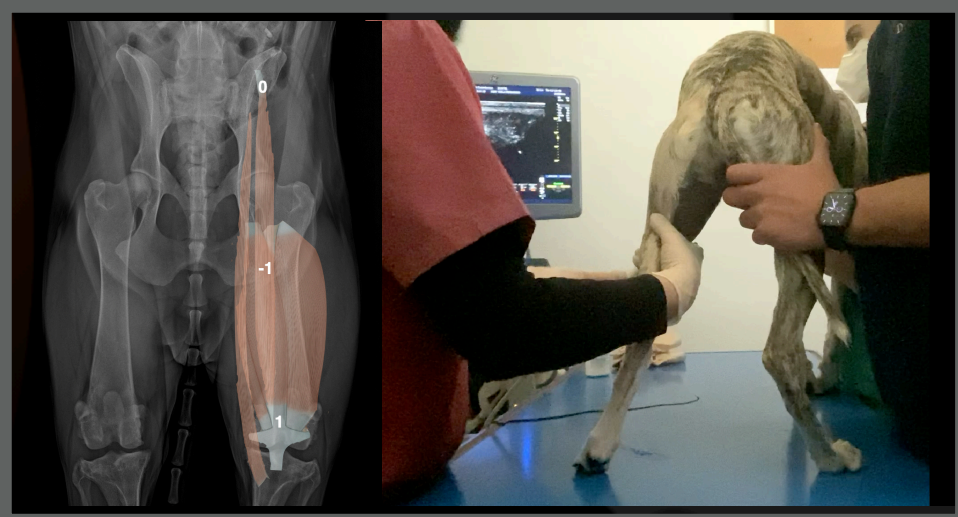
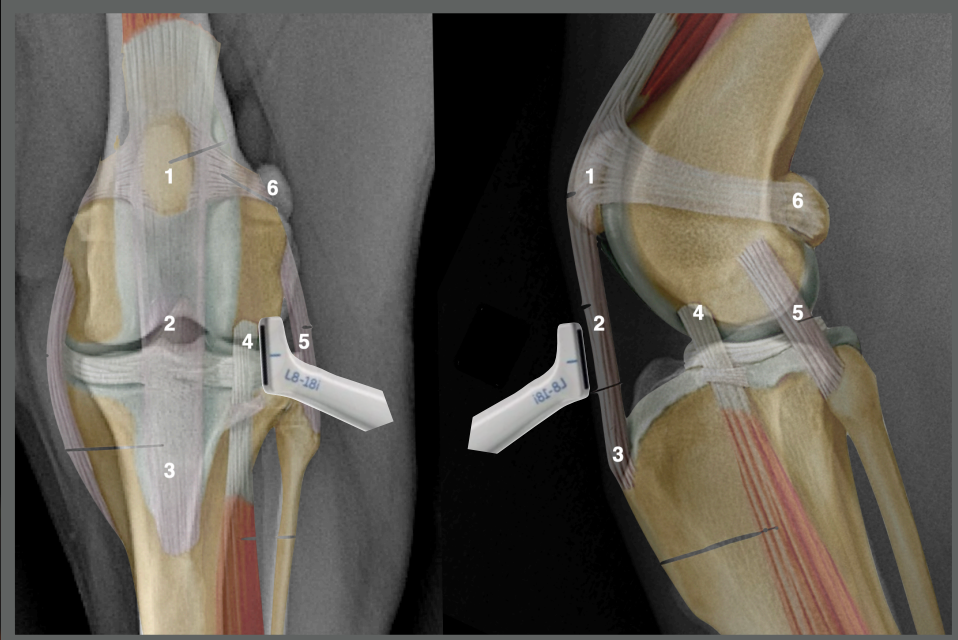
Cranial face longitudinal scan



Drew, MI, 4 years

Left stifle

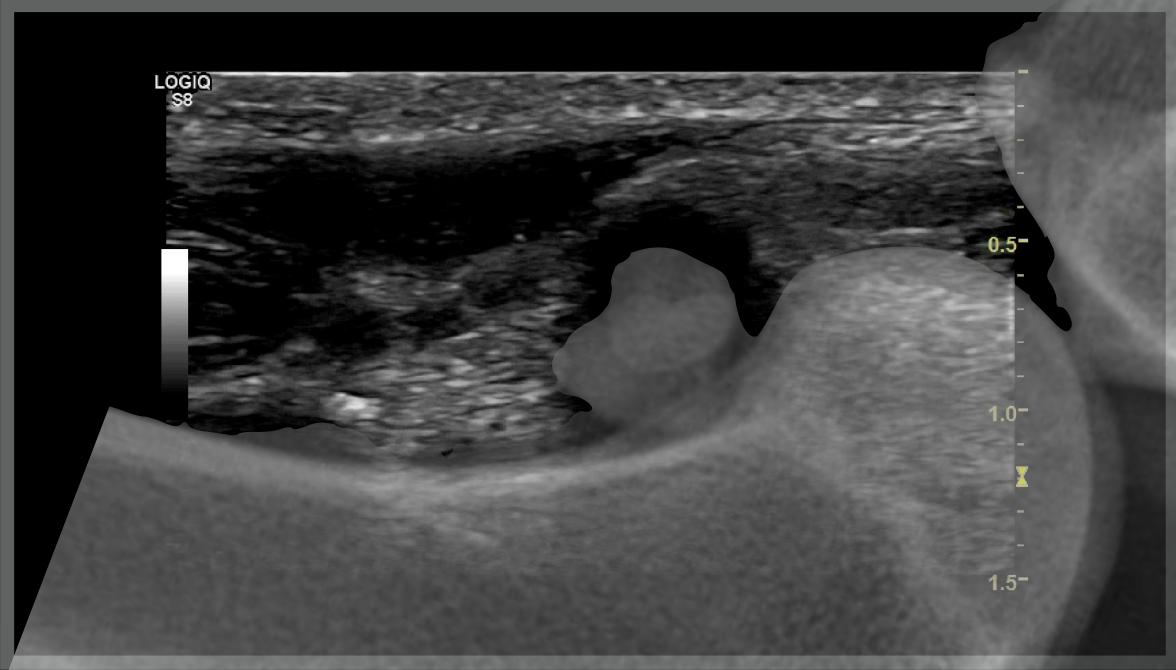
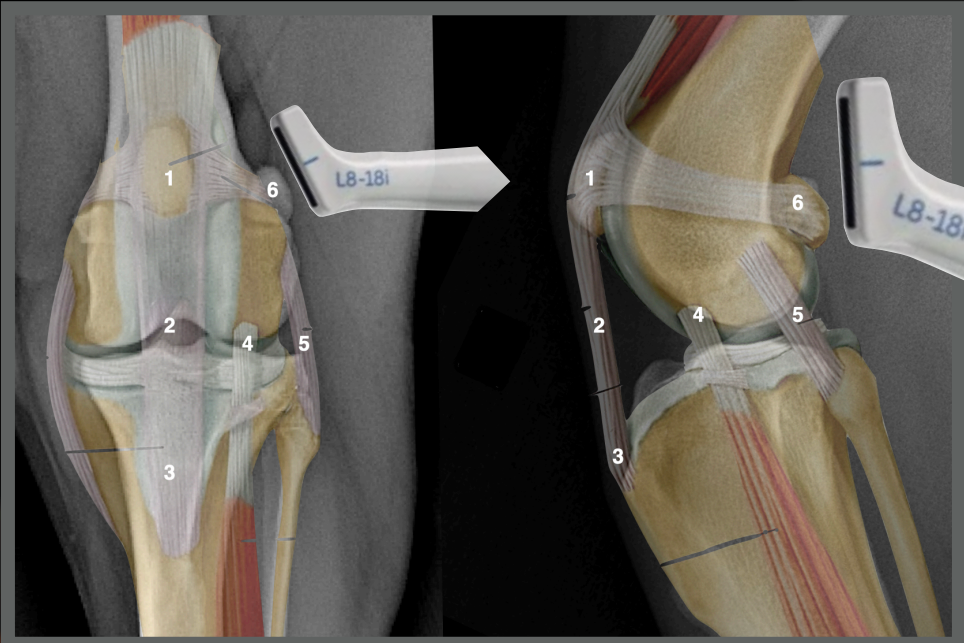
Lateral face longitudinal scan



Drew, MI, 4 years

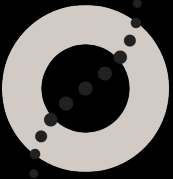
Left stifle

Lateral face longitudinal scan



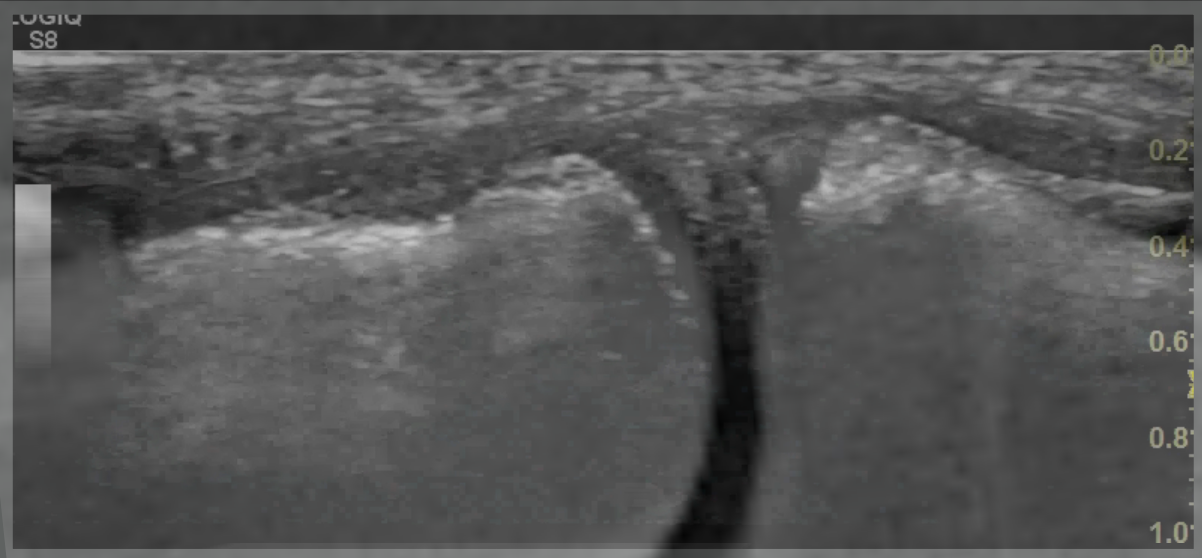
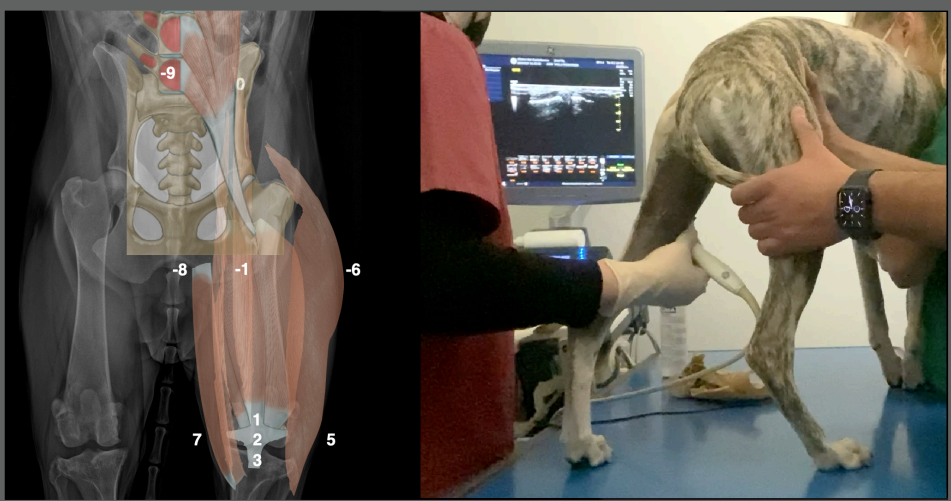
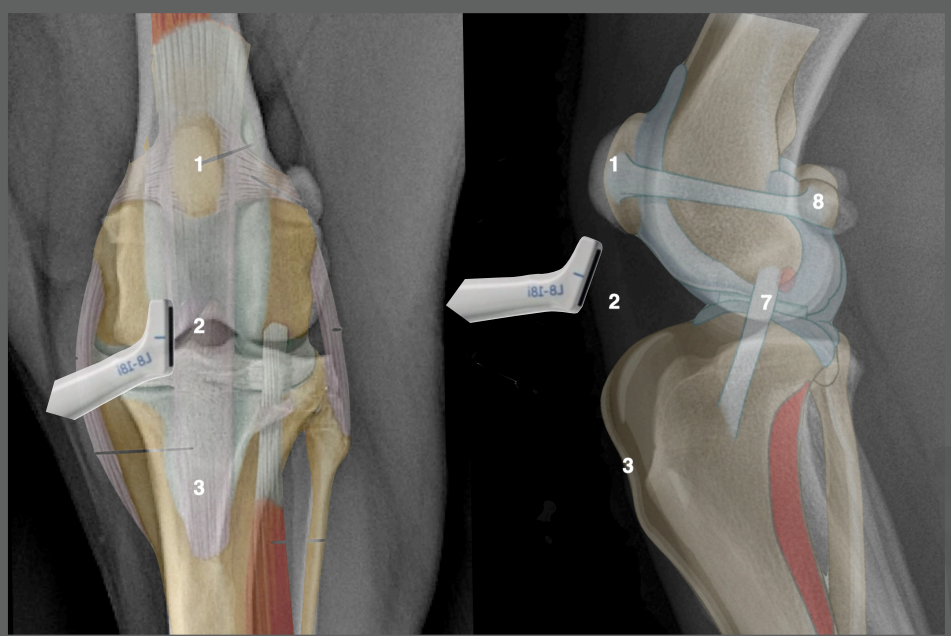
Drew, MI, 4 years

Left stifle



Medial face longitudinal scan

7

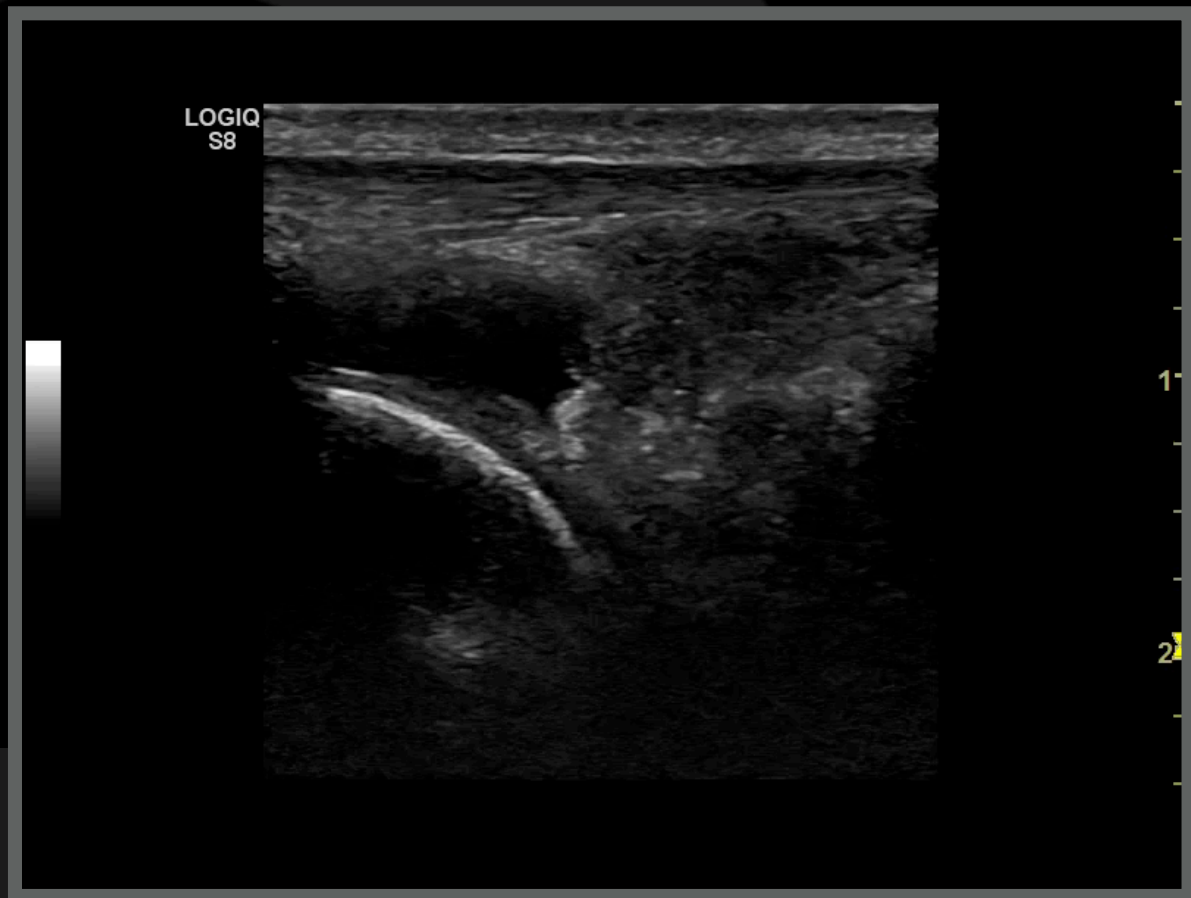
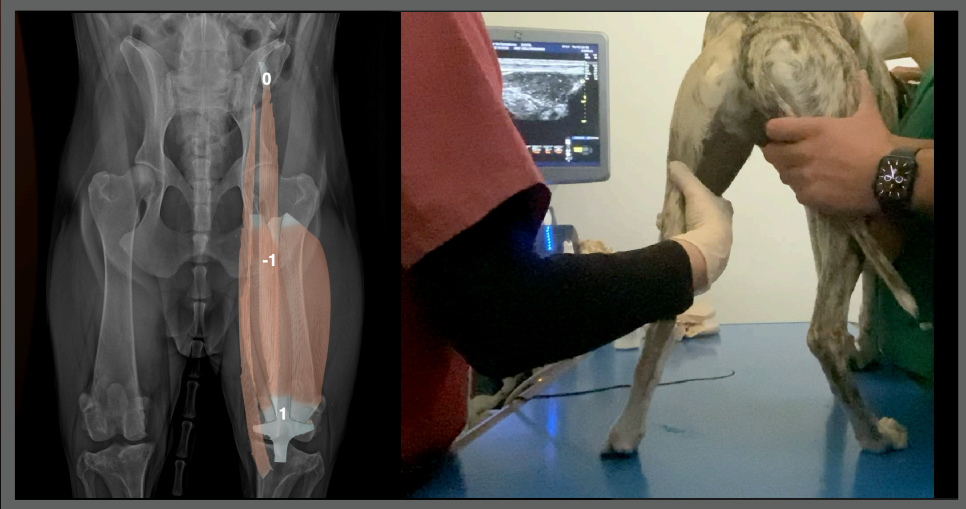
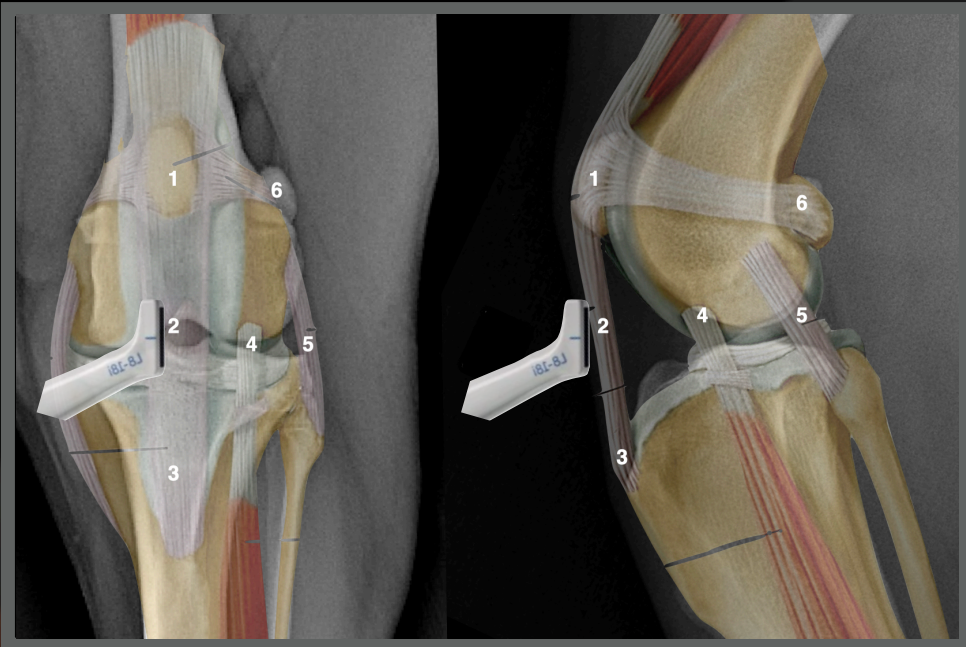


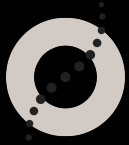
Drew, MI, 4 years

Right stifle

Affected limb

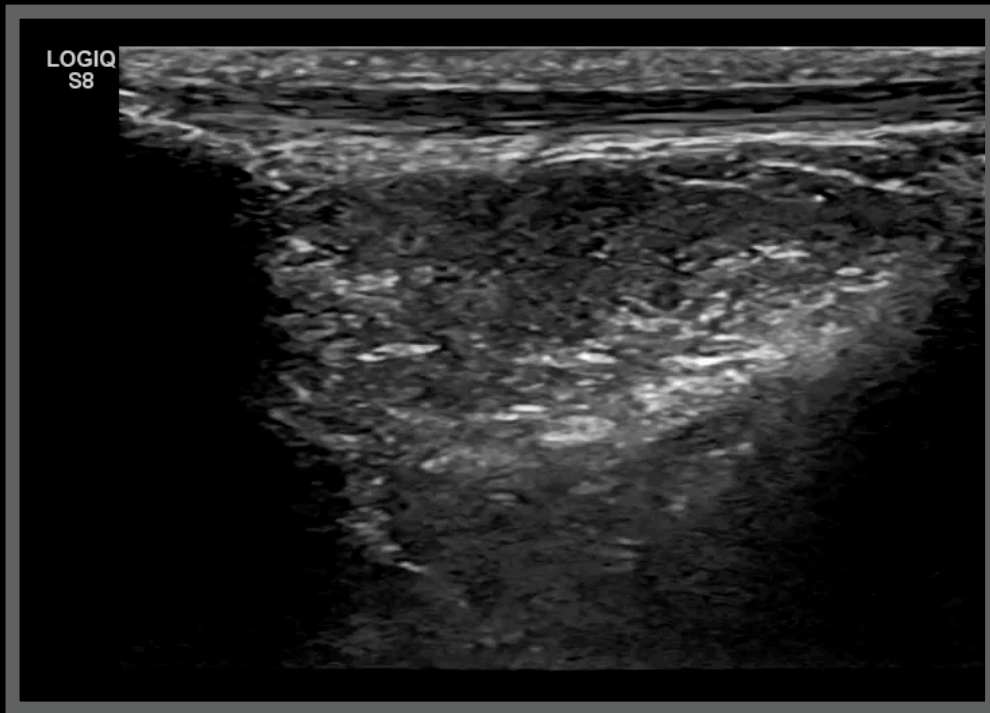
Cranial face longitudinal scan



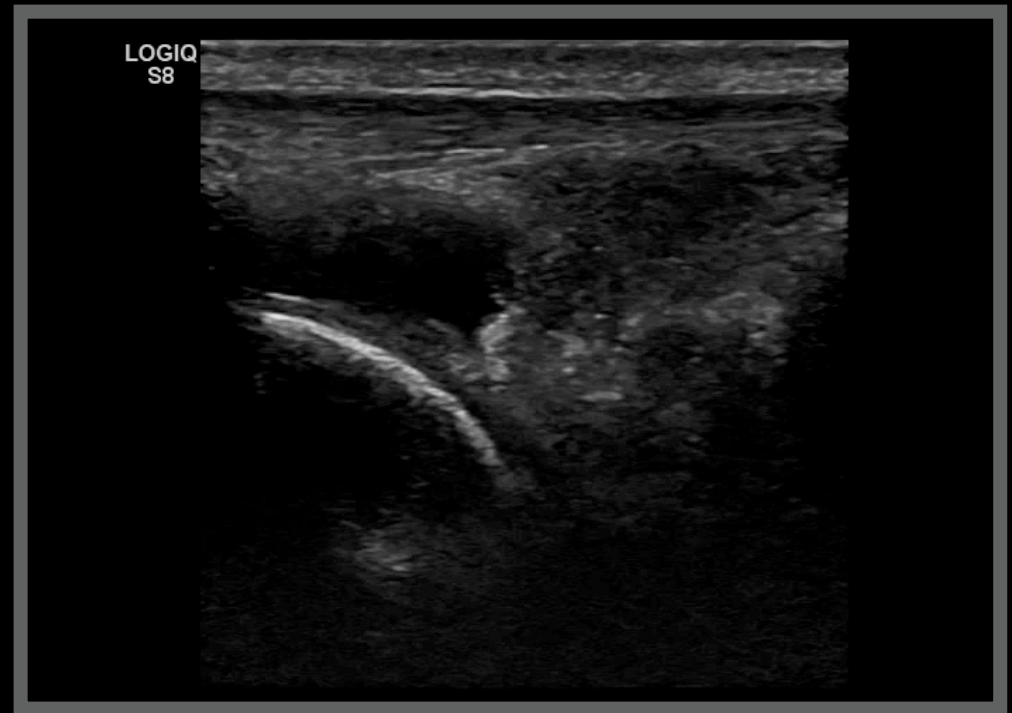


Drew, American Staffordshire, MI, 4 years

Left stifle



Right stifle

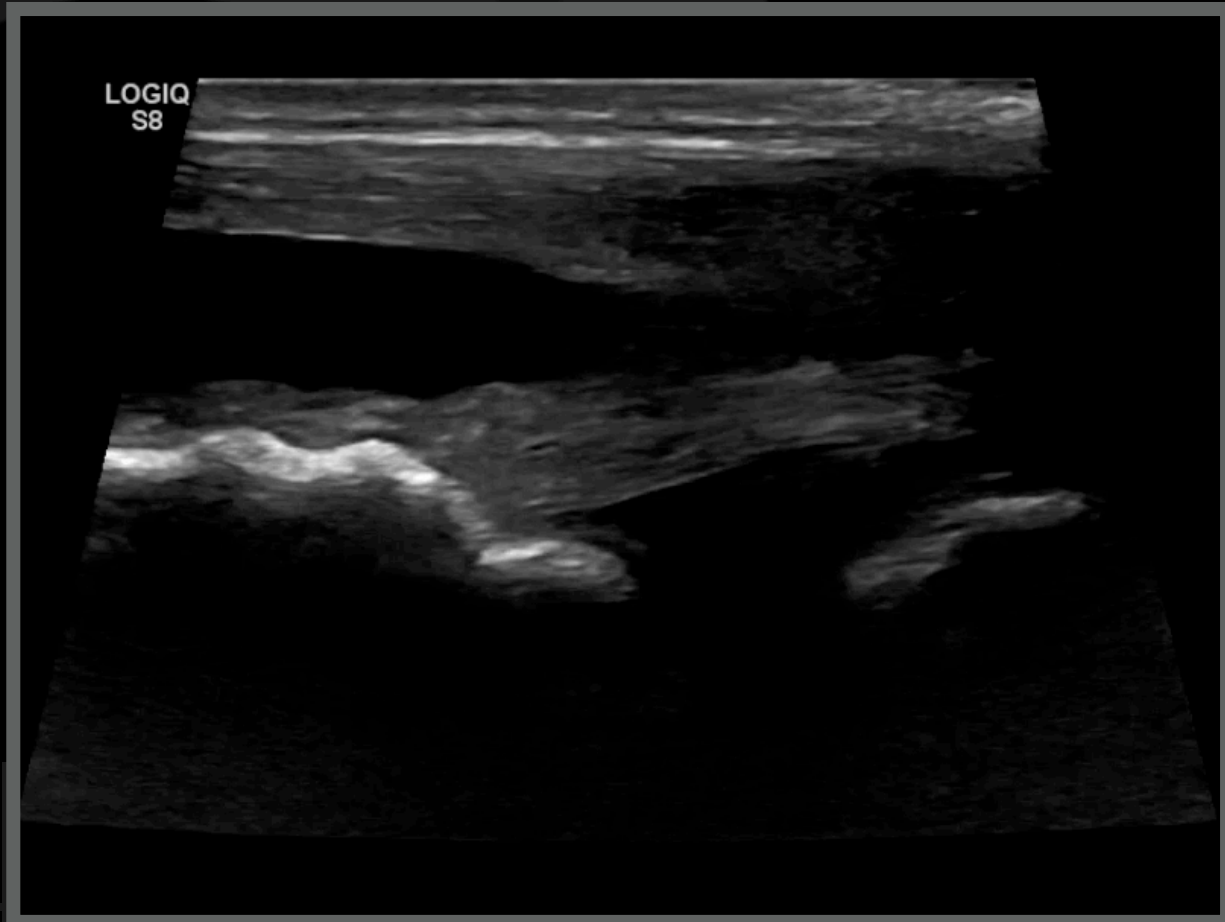
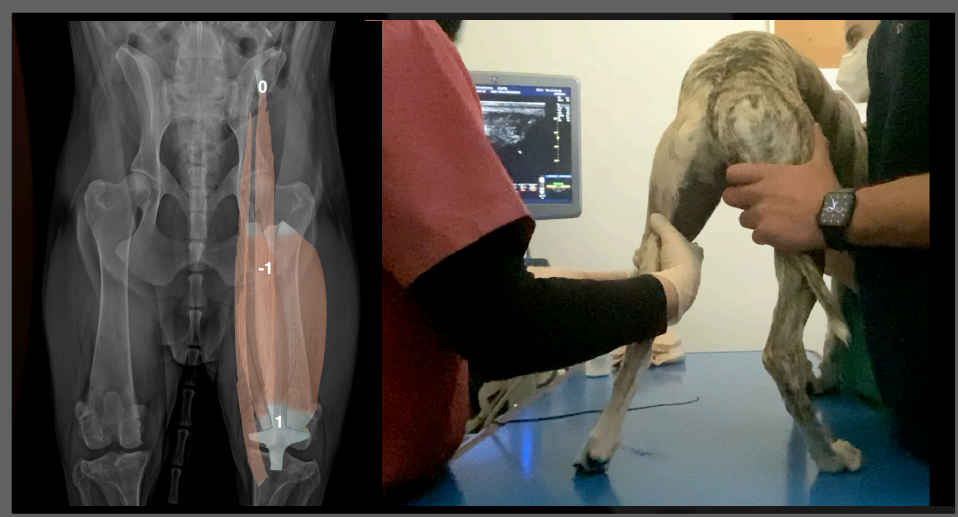
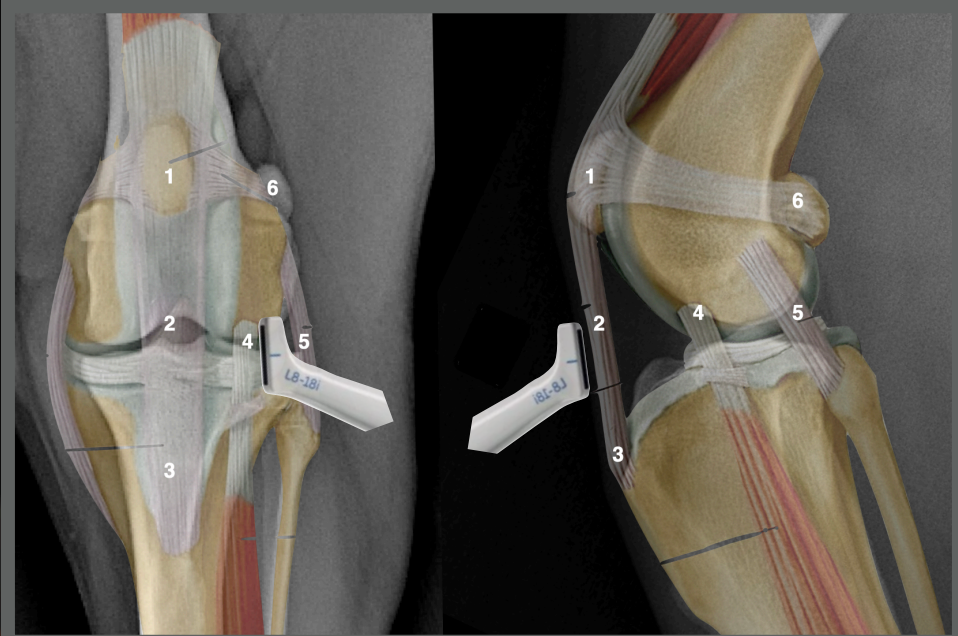


Drew, MI, 4 years

Right stifle

Affected limb

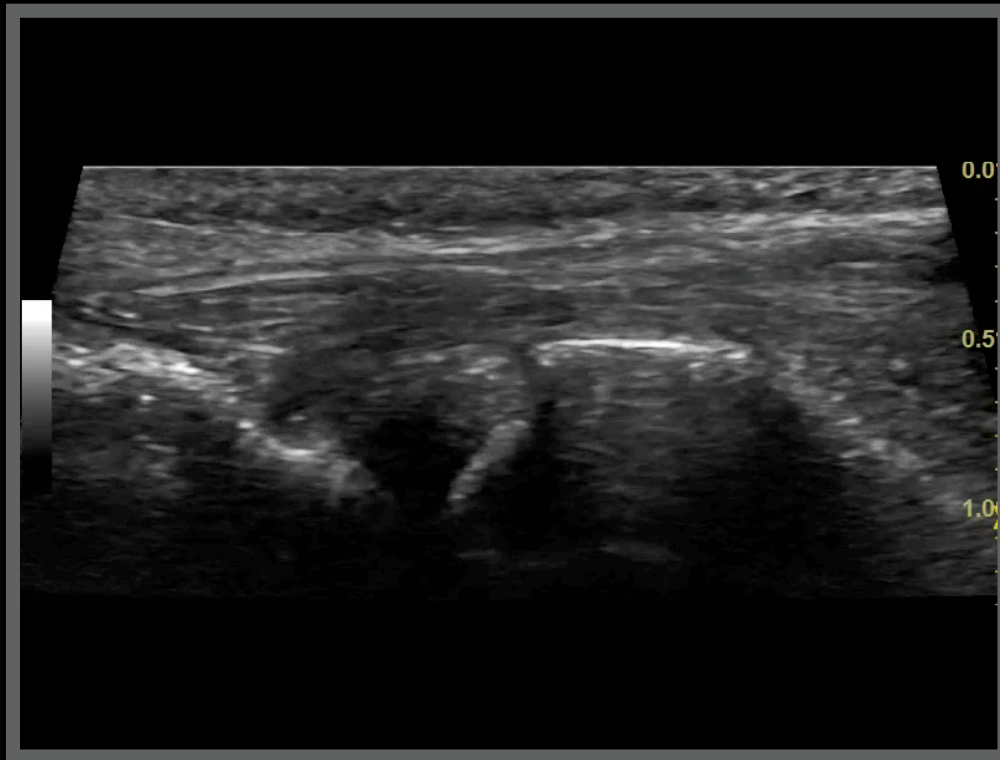
Lateral face longitudinal scan



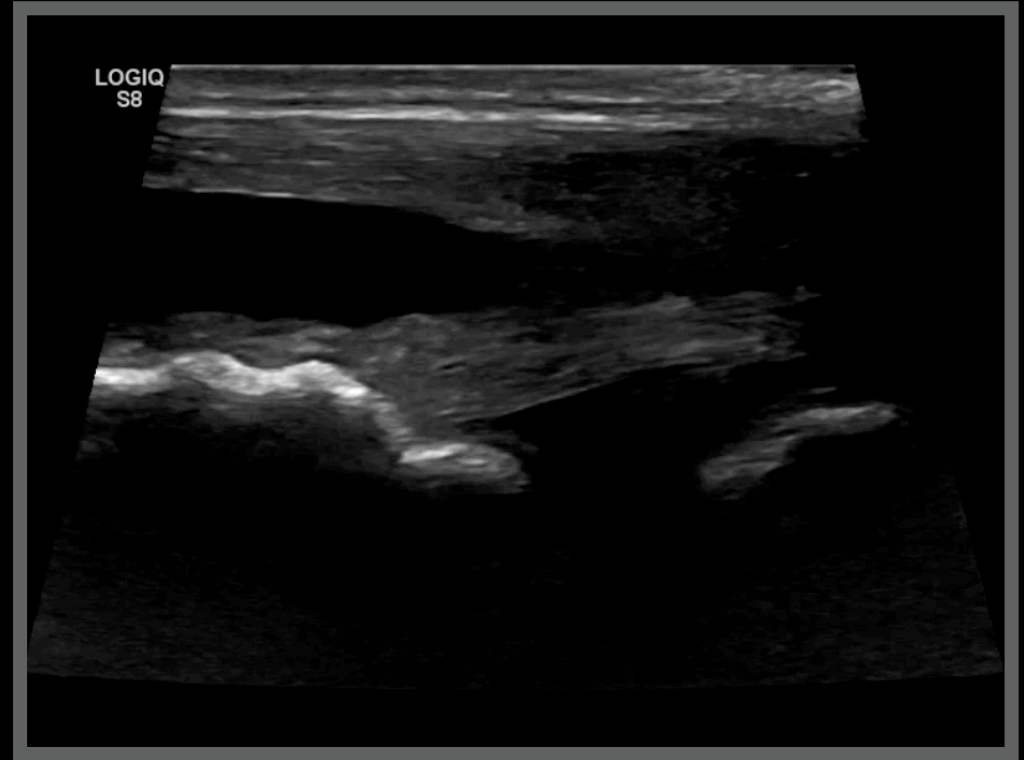


Drew, American Staffordshire, MI, 4 years

Left stifle



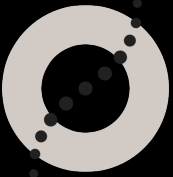
Right stifle



Drew, MI, 4 years

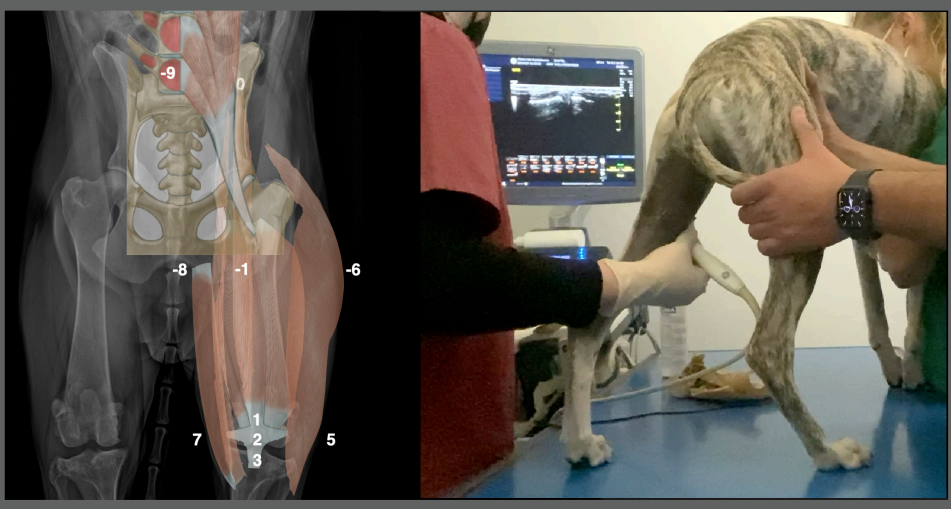
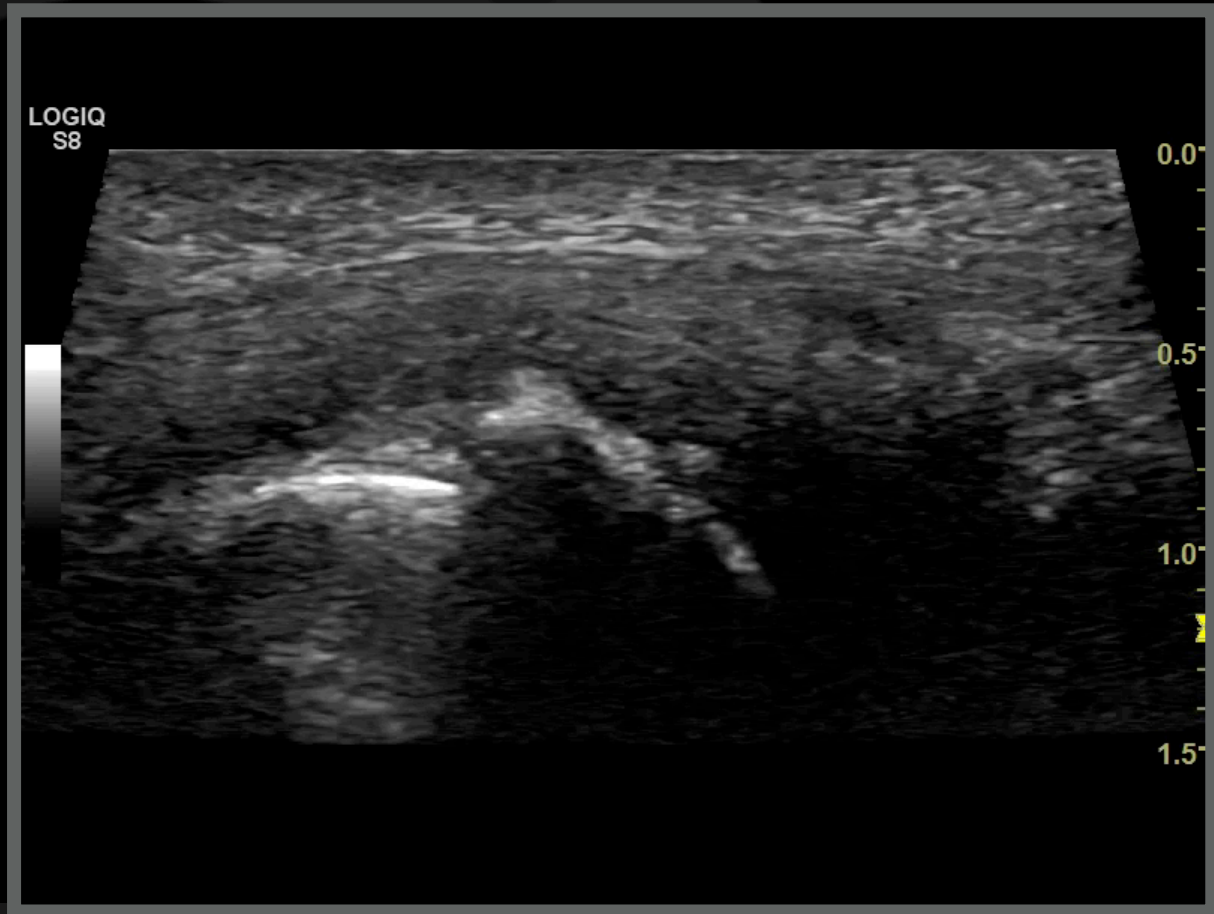
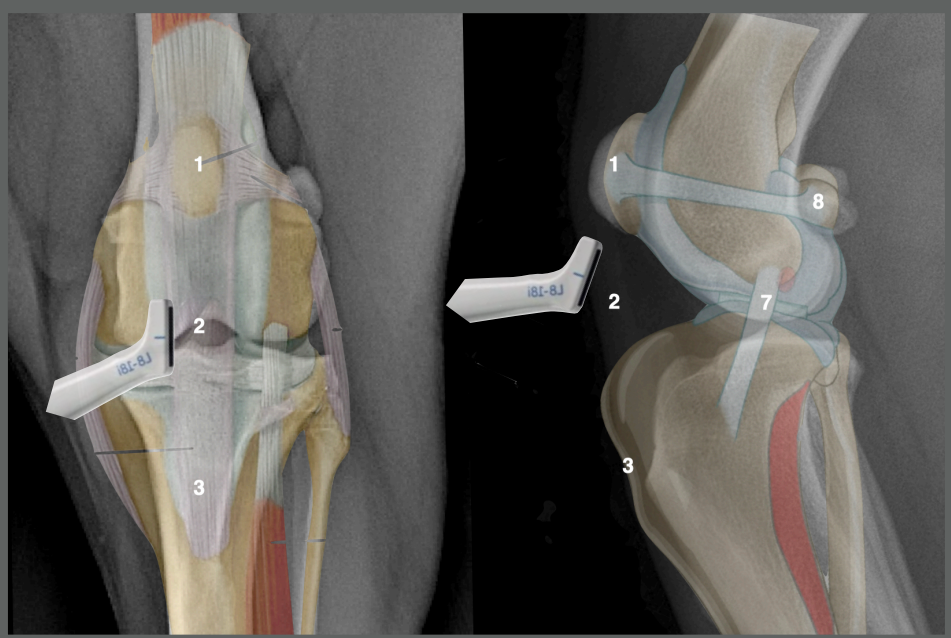
Right stifle

Affected limb



Medial face longitudinal scan

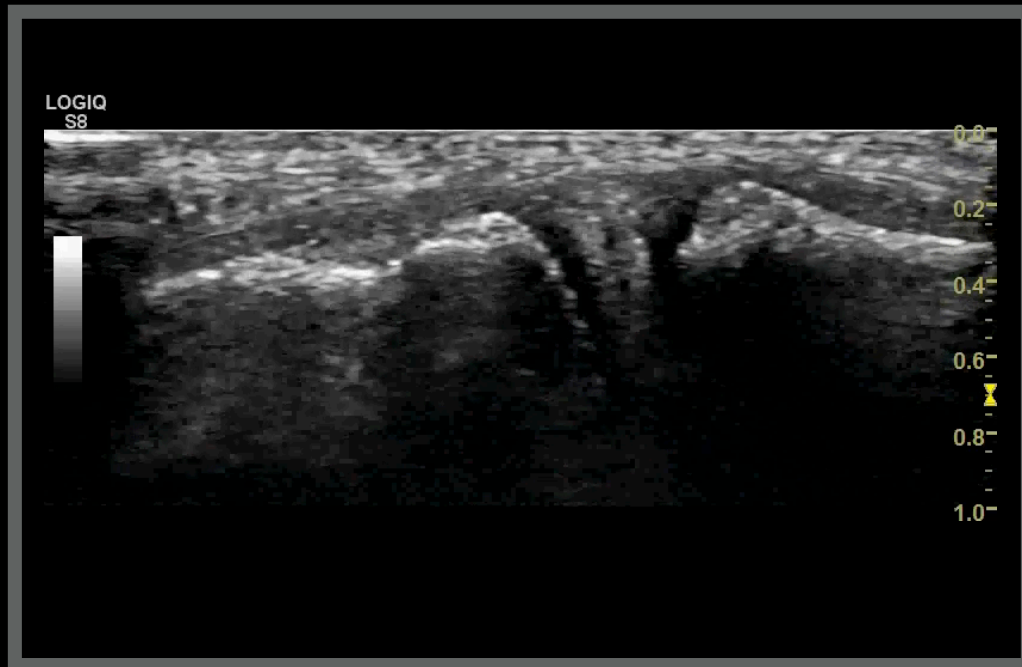
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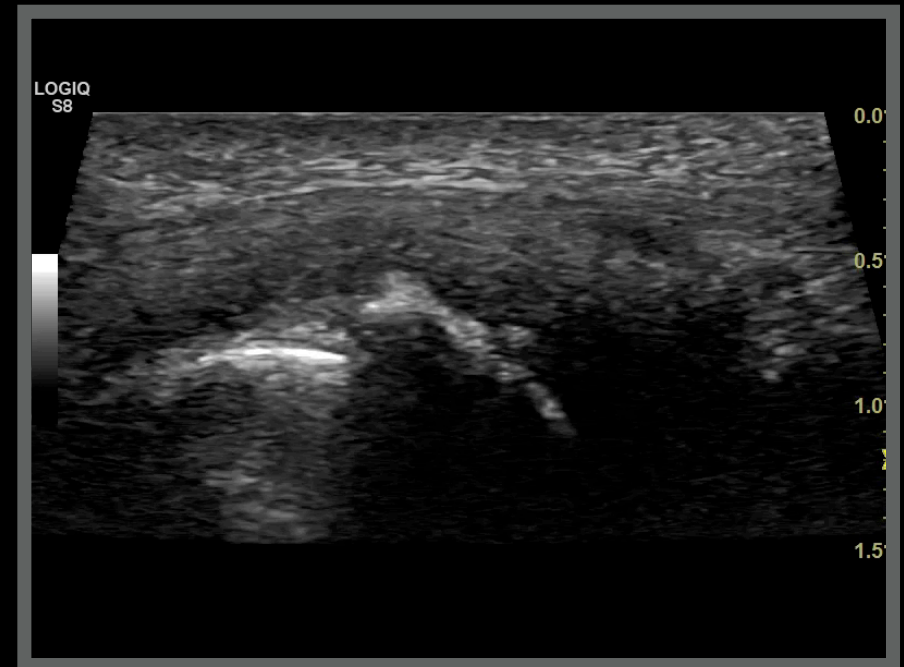


Drew, American Staffordshire, MI, 4 years

Left stifle



Right stifle



Drew, American Staffordshire, MI, 4 years

Ultrasonographic diagnoses:

- Right Stifle effusion
- Distended right extensor digitorum longus
- Suspected medial meniscal tear

Conclusions:

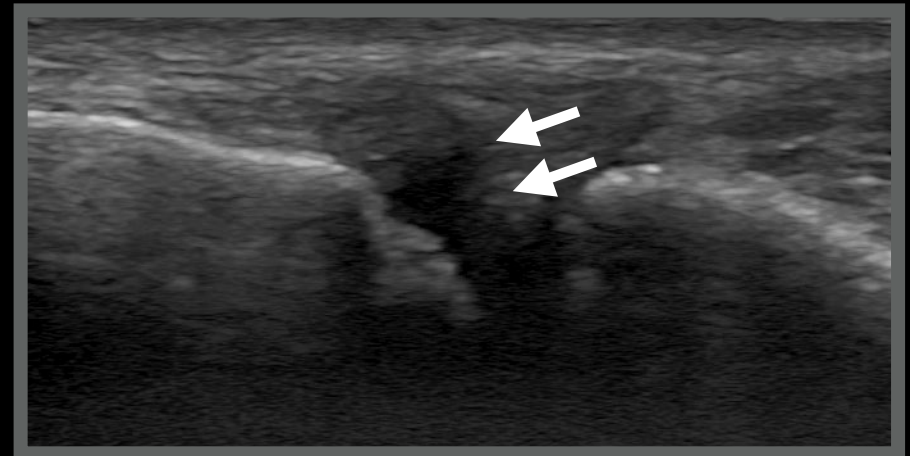
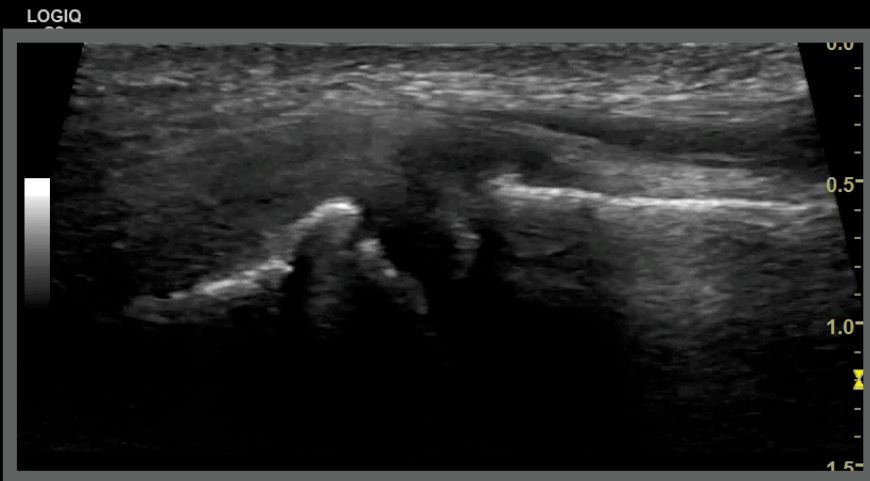
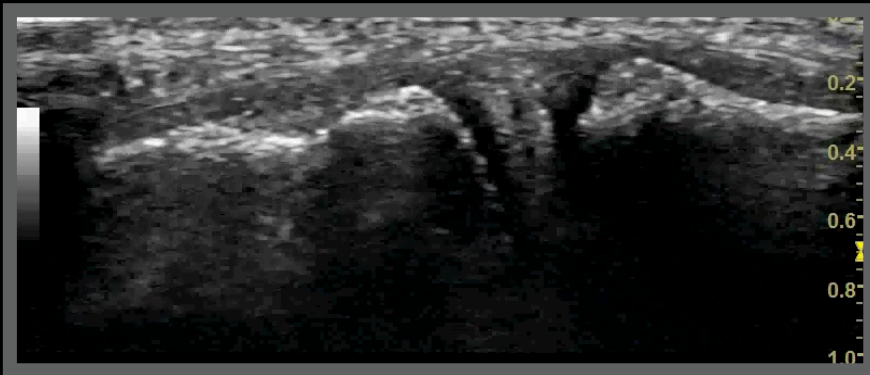
- Partial CCL rupture and medial meniscus tear identified at surgery



US of the meniscus

Comparison of ultrasonography and magnetic resonance imaging to arthroscopy for diagnosing medial meniscal lesions in dogs with cranial cruciate ligament deficiency

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Thank you



Diagnostic Mindset

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