

# Special cases

## CASE DISCUSSION

Giliola Spattini  
DVM, GP Cardio, CCRT, PhD, DECVDI



Diagnostic Mindset

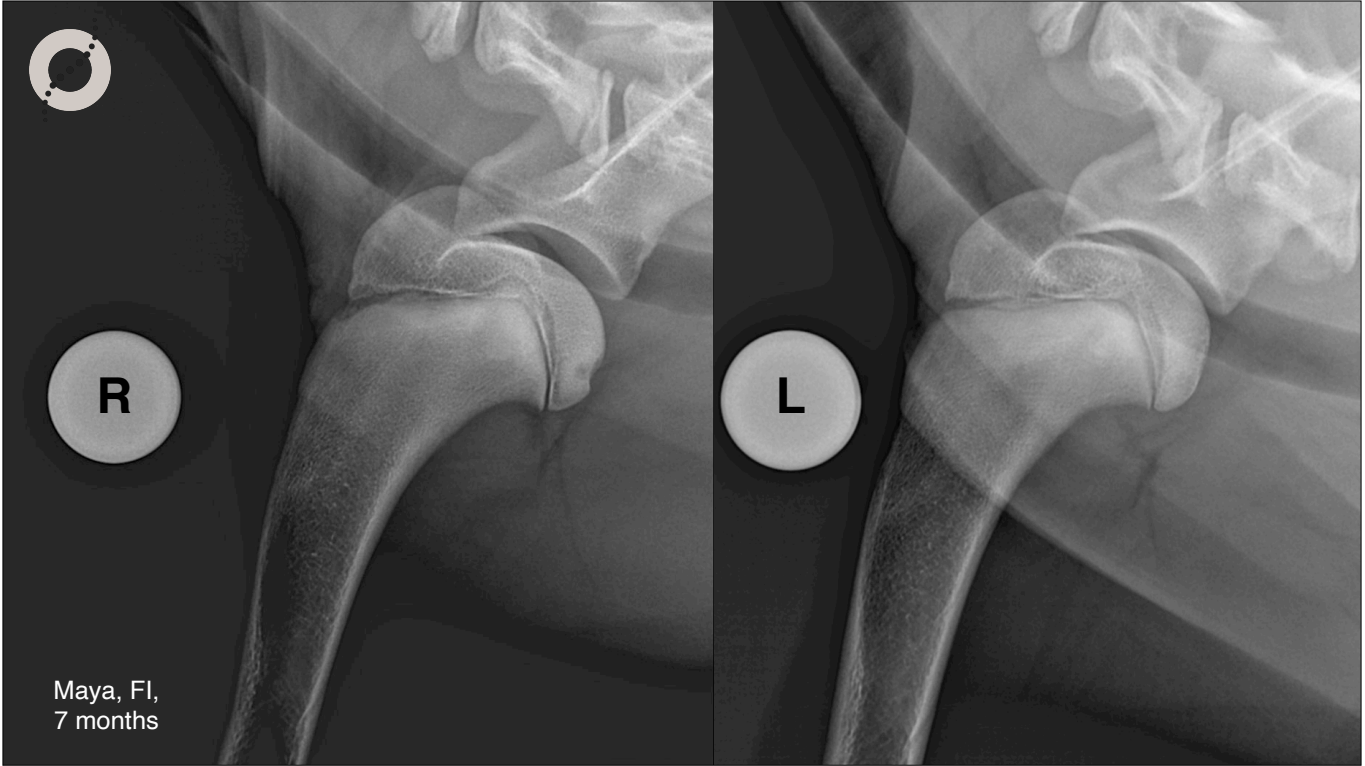


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## Maya, Great Swiss Mountain Dog, FI, 7 Months

- For the last two months, progressive lameness in the left front limb
- Not weight bearing for the last week
- After radiographic evaluation, requested an ultrasound



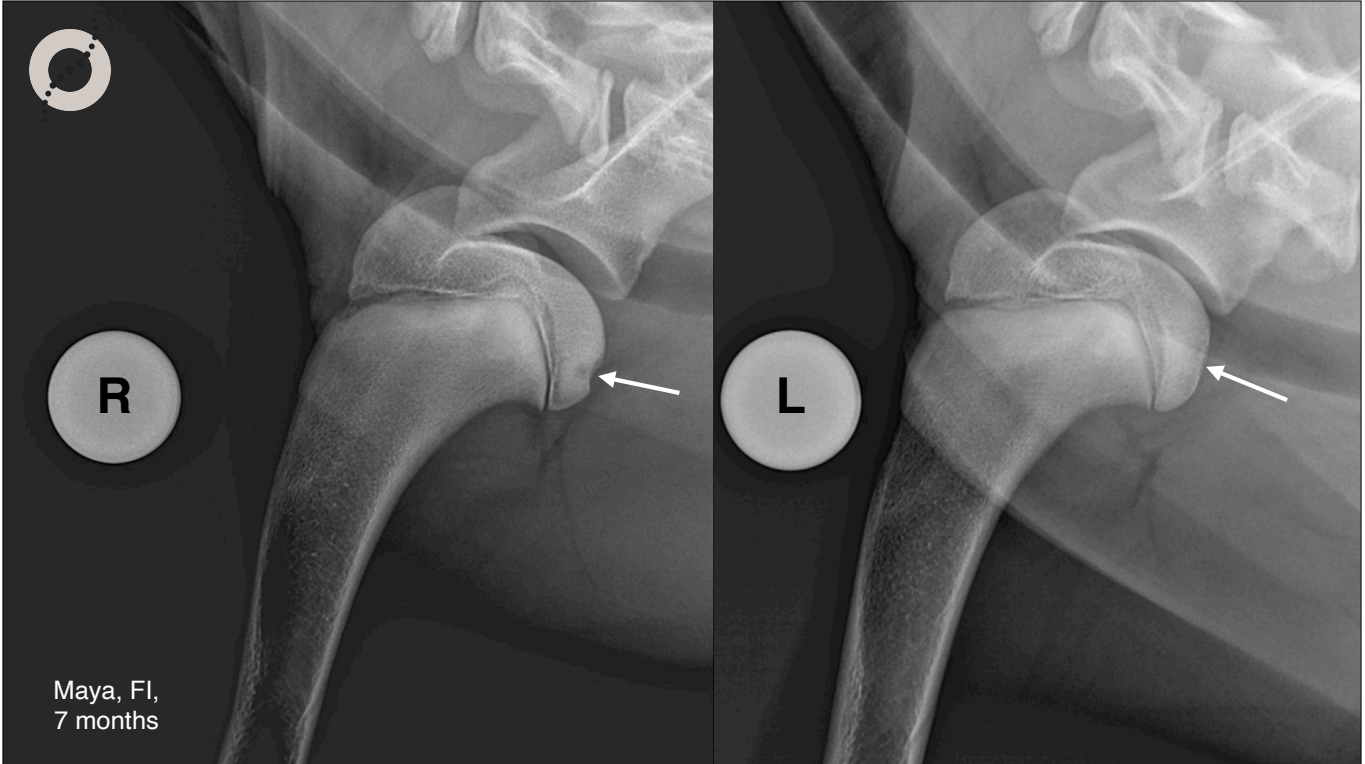




Maya, FI,  
7 months



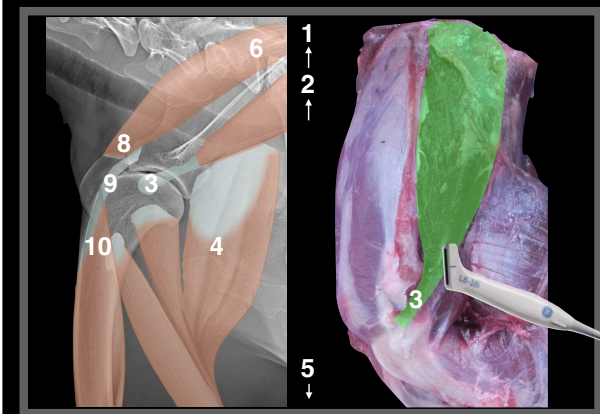
Your evaluation?



**Maya, FI, 7 months**  
 Right shoulder  
 Sound limb

Infraspinatus muscle and tendon, longitudinal scan 3

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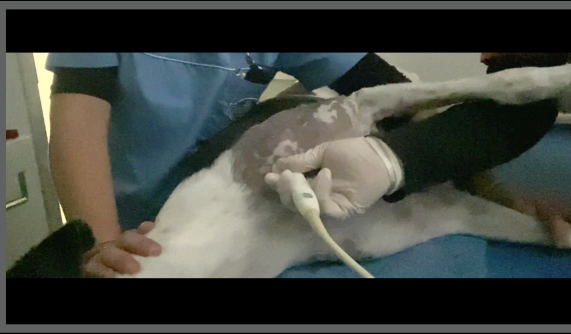
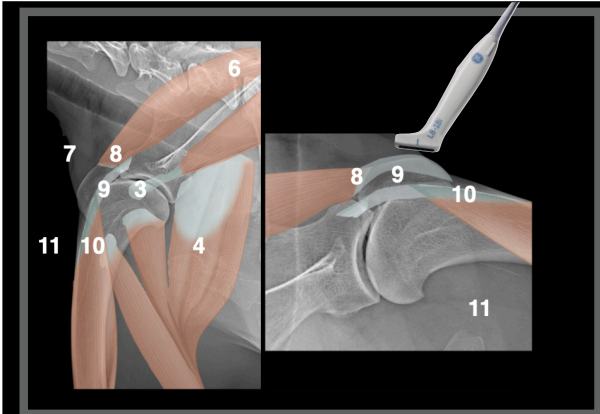
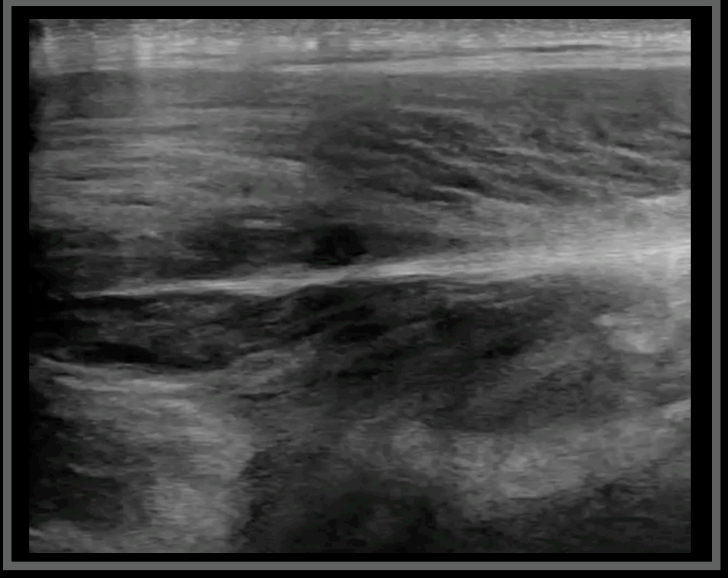


**Maya, FI, 7 months**



Left Shoulder

Infraspinatus muscle and tendon, longitudinal scan 3



**Maya, FI, 7 months**

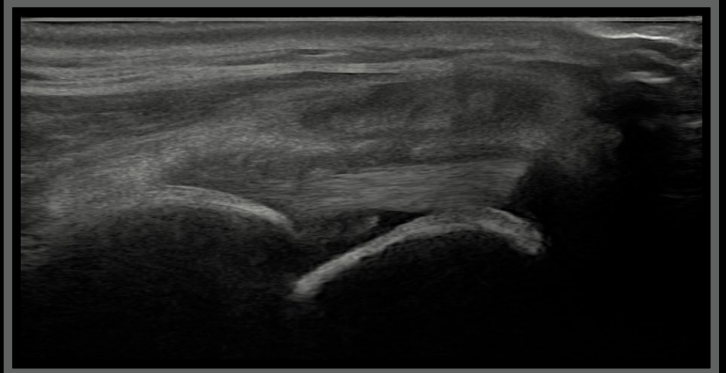


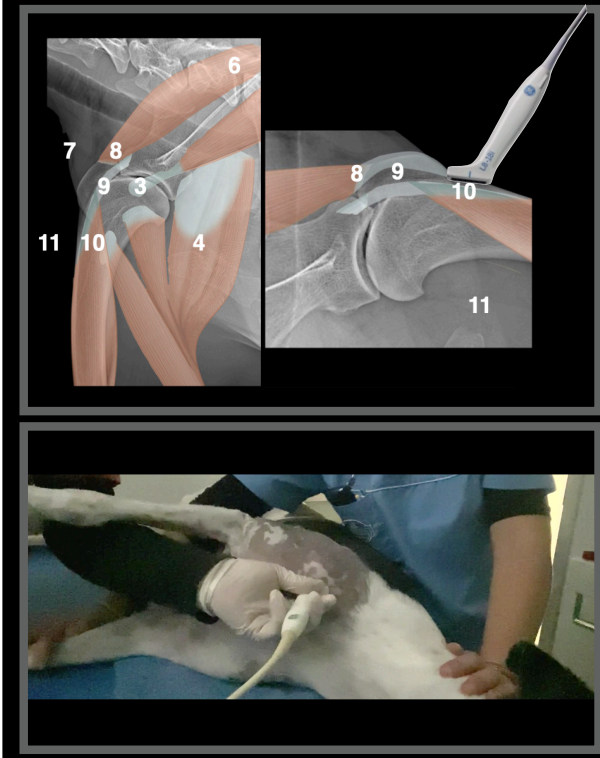
Right shoulder

Sound limb

BB tendon origin longitudinal scan

9





**Maya, FI, 7 months**



Left Shoulder

Affected limb

BB tendon longitudinal scan

9



**Maya, Great Swiss Mountain Dog, FI, 7 Months**



Right shoulder

Left Shoulder



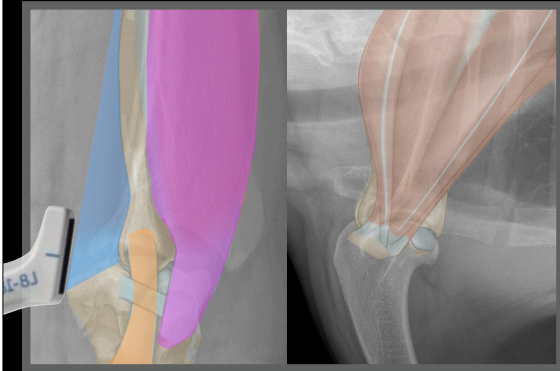
Maya, FI, 7 months

Right shoulder

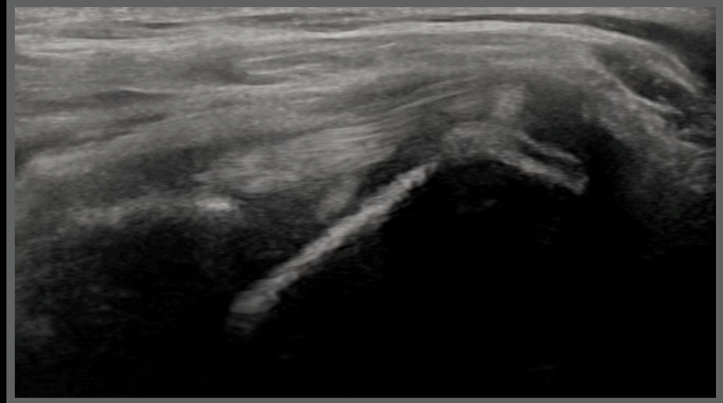
Sound limb

Subscapularis longitudinal scan

11



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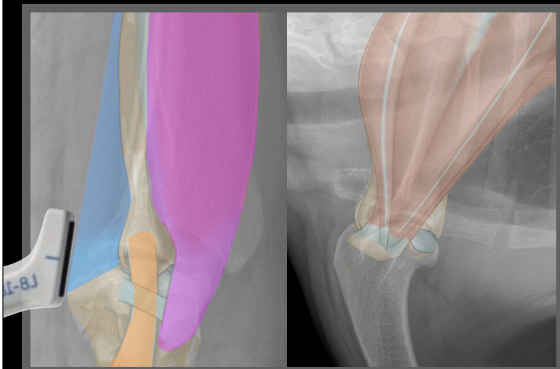
Maya, FI, 7 months

Left Shoulder

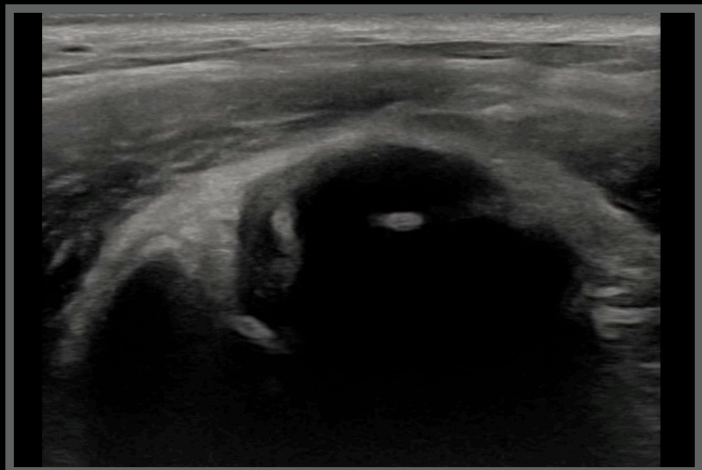
Affected limb

Subscapularis longitudinal scan

11



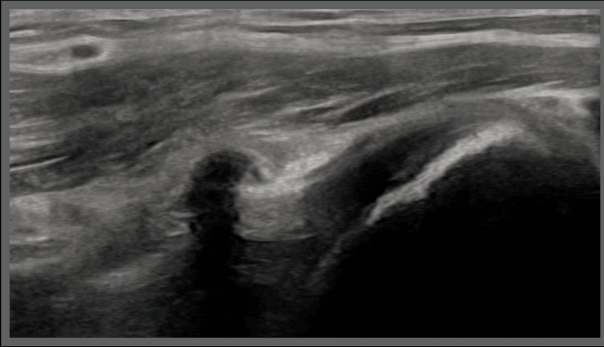
www.imaios.com



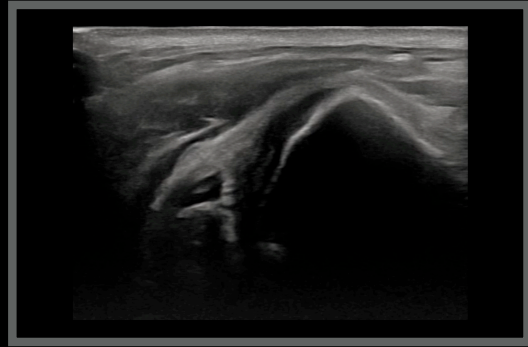
## Maya, Great Swiss Mountain Dog, FI, 7 Months



Right shoulder



Left Shoulder



## Maya, Great Swiss Mountain Dog, FI, 7 Months

### Ultrasonographic diagnoses

- Severe synovial thickening +++ left side
- Mild right side synovial thickening





More  
views

R

Intra



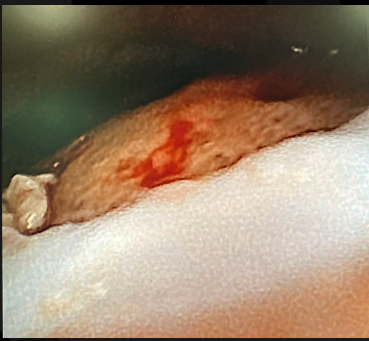
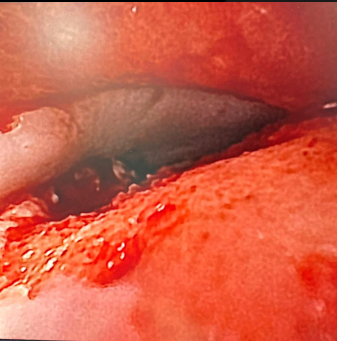
More  
views





**Maya, Great Swiss Mountain  
Dog, FI, 7 Months**

- A large cartilage flap was removed by mini-arthrotomy



## Maya, Great Swiss Mountain Dog, FI, 7 Months

- Arthroscopic removal of a large mineralised cartilaginous fragment from the left shoulder
- Recovered well, but still minimally lame 3 weeks later, then fine at six weeks recheck
- R shoulder monitoring, doing fine 5 months later



Thank you



Diagnostic Mindset

[www.diagnosticmindset.com](http://www.diagnosticmindset.com)

## Chronic right front limb lameness in a patient with a cervical hernia

Giliola Spattini  
DVM, GP Cardio, CCRT, PhD, DECVDI



Diagnostic Mindset



Thank to [www.imaios.com](http://www.imaios.com)

## Tyrone, Siberian Husky, MN, 9 years

- Two years ago, He fell while running
- Screamed in pain
- On PE, a proprioceptive deficit in both hind limbs and severe lameness in the right front limb were present
- MRI showed cervical hernia treated conservatively



## Tyrone, Siberian Husky, MN, 9 years

- Six months later, still moderately lame on the right front limb
- After playing with a Mastiff severely lame
- Repeated MRI: cervical hernia improved



## Tyrone, Siberian Husky, MN, 9 years

- The physiotherapist found pain in the right triceps muscle and supraspinatus tendon
- Not responding well to treatment
- Previous MSK ultrasound negative for a shoulder problem
- Second consultation asked



Tyrone, MN, 9 years



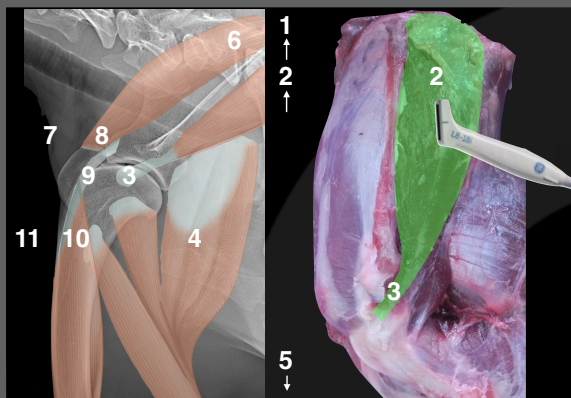
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Tyrone, MN, 9 years

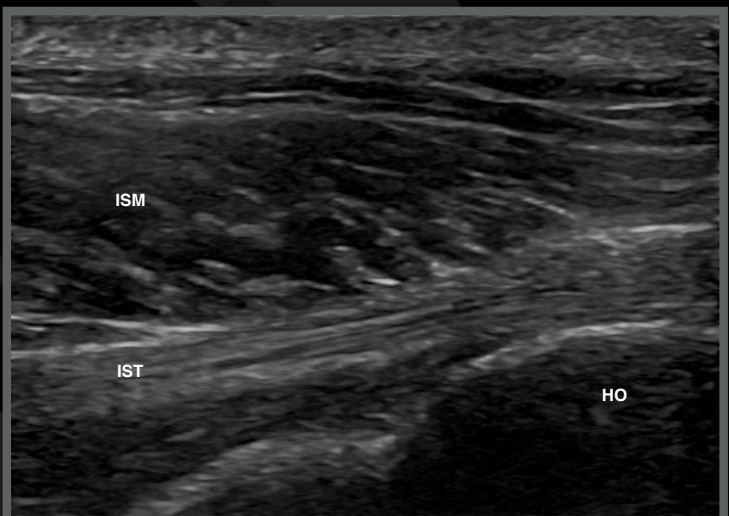
Right shoulder



Infraspinatus tendon and muscle, longitudinal scan



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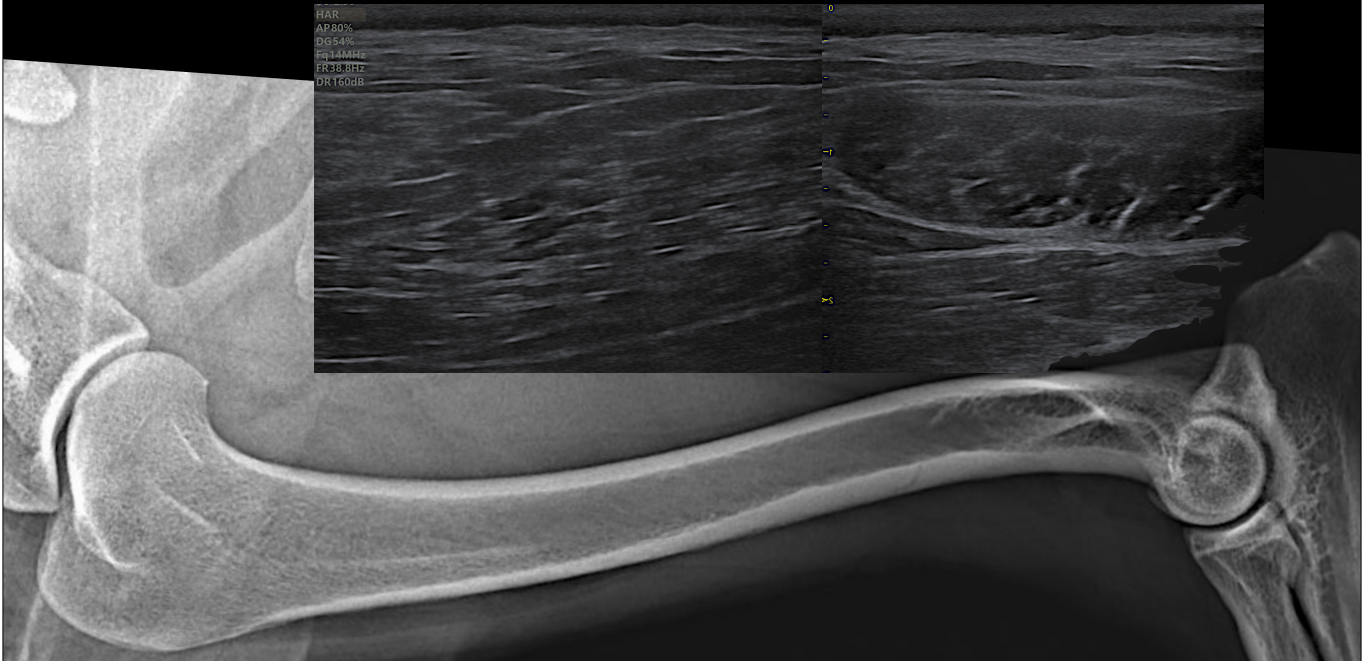
ISM

IST

HO

**Tyrone, MN, 9 years**

Triceps muscle

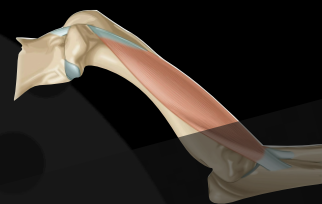


**Tyrone, MN, 9 years**

Left elbow

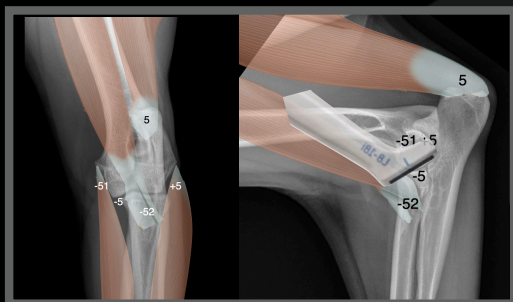


Tyrone, MN, 9 years

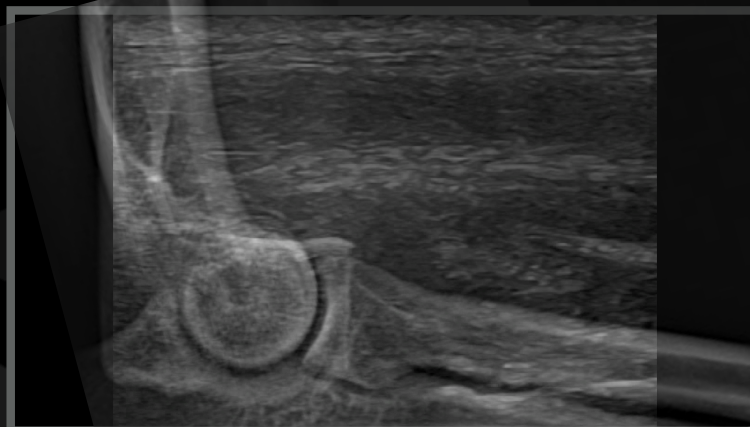


Right elbow

-51-5



www.imaio.com

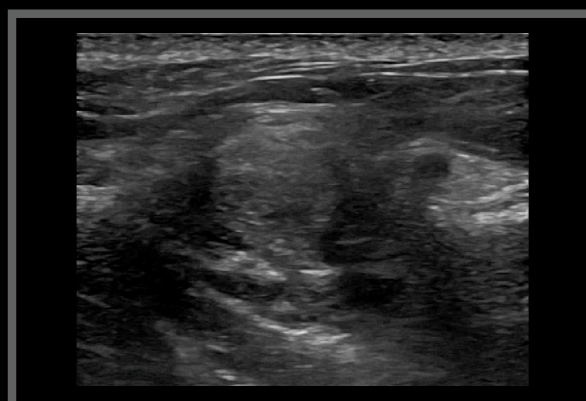
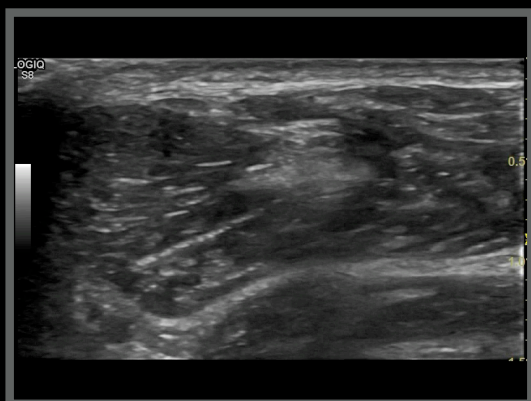


Tyrone, MN, 9 years



Left elbow

Right elbow



## Tyrone, Siberian Husky, MN, 9 years

### Ultrasonographic diagnoses:

- Suspected chronic rupture of the insertional tendon of the biceps brachii and brachialis tendons



PubMed®

biceps brachii insertion injuries

Search

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74 results

Page 1 of 8

RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

- Books and Documents
- Clinical Trial
- Meta-Analysis

Showing results for *biceps brachii insertion injuries*

Your search for *biceps brachii insertion injuries* retrieved no results

**Glenoid labrum pathology.**

1 Clavert P.

Cite Orthop Traumatol Surg Res. 2015 Feb;101(1 Suppl):S19-24. doi: 10.1016/j.otsr.2014.06.028. Epub 2015 Jan 14.

Share PMID: 25596985 Free article. Review.

In the superior labrum, SLAP lesions are the most frequent. These combine labral lesion and lesion of the proximal **insertion** of the long head of the **biceps brachii** tendon. The most frequent form is SLAP II. ...Finally, postero-superior lesions involve Walch' ...

**Distal Biceps Brachii Tendon Insertion: A Simple Method of Ultrasound Evaluation.**

2

Cite Draghi F, Bortolotto C, Ferrozzi G.

J Ultrasound Med. 2021 Apr;40(4):811-813. doi: 10.1002/jum.15459. Epub 2020 Aug 31.

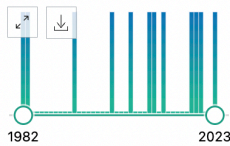
Share PMID: 32865288

Here we describe a new method of ultrasound evaluation of the distal **biceps** tendon **insertion** with the patient in the so-called crab position. ...In this position, after the evaluation of the common extensor tendon in the long axis, turning the transducer 90 and movi ...

**Biceps brachii and brachialis tendon of insertion injuries in eleven racing greyhounds.**

3

RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

- Books and Documents

Showing results for *biceps brachii insertion dog*

Your search for *biceps brachii insertion dog* retrieved no results

**Biceps brachii and brachialis tendon of insertion injuries in eleven racing greyhounds.**

1  
Cite Schaaf OR, Eaton-Wells R, Mitchell RA.  
Vet Surg. 2009 Oct;38(7):825-33. doi: 10.1111/j.1532-950X.2009.00593.x.  
Share PMID: 19781025

OBJECTIVE: To report injuries of the **biceps brachii** (BTI) or brachialis (BrTI) tendons of **insertion** in 11 racing Greyhounds. ...Outcomes between surgical and conservative management were compared.  
RESULTS: **Dogs** had elbow hyperextension, positive **bic** ...

**Supraspinatus tendinosis associated with biceps brachii tendon displacement in a dog.**

2  
Cite Fransson BA, Gavin PR, Lahmers KK.  
J Am Vet Med Assoc. 2005 Nov 1;227(9):1429-33, 1416. doi: 10.2460/javma.2005.227.1429.  
Share PMID: 16279387 **Free article.**

The increased supraspinatus tendon mass in each shoulder joint was associated with medial displacement of the **biceps brachii** tendon, which was more severe in the right limb. Arthroscopic evaluations of both shoulder joints revealed no abnormalities. ...Decompression ...

## Biceps Brachii and Brachialis Tendon of Insertion Injuries in Racing Greyhounds

OLAF R. SCHAAF, BVSc MACVSc, RICHARD EATON-WELLS, BVSc MACVSc, and RICHARD A. S. MITCHELL, BVSc Diplomate ECVS

**Objective**—To report injuries of the biceps brachii (BTI) or brachialis (BrTI) tendons of insertion in 11 racing Greyhounds.

**Study Design**—Case series.

**Animals**—Greyhounds (n = 11).

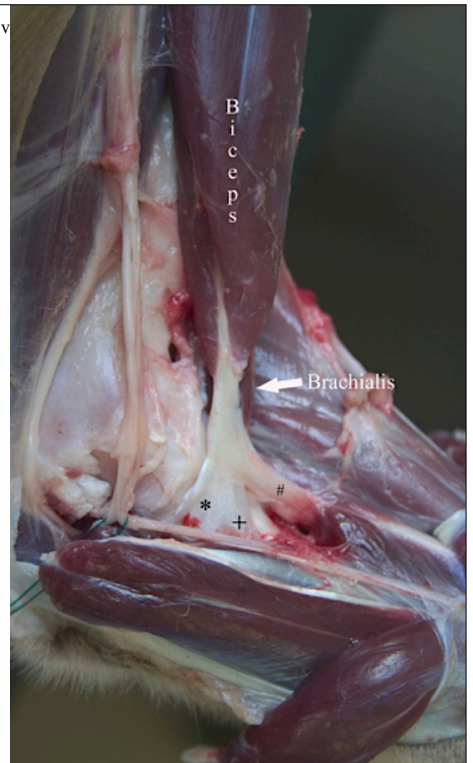
**Methods**—Medical records (1990–2006) of racing Greyhound dogs with BTI injuries were reviewed. Preinjury, injury, and posttreatment information was obtained via trainer telephone questionnaire and individual greyhound race data. Outcomes between surgical and conservative management were compared.

**Results**—Dogs had elbow hyperextension, positive biceps test, and forelimb circumduction and 82% were male, whereas Queensland's male to female ratio of racing Greyhounds was almost equal. Eight dogs had right BTI injuries. Nine dogs had surgically confirmed tendon injuries: 5 combined BTI and BrTI, 2 mid-body BTI, 1 musculotendinous BTI, and 1 ulnar tuberosity avulsion fracture. Seven dogs were treated surgically (3 loop pulley sutures, single radial screw and washer, suture screws or fracture fixation in lag fashion), 2 dogs were euthanatized at surgery, 2 were rehomed and hence managed conservatively. All surgically treated dogs returned to near preinjury performance; 6 returned to racing and at least 4 won races in the same or higher grade. One conservatively managed dog returned to "pet" function. No dog reinjured its BTI or BrTI.

**Conclusion**—BTI and BrTI avulsions are rare acute traumatic performance injuries of racing Greyhounds.

**Clinical Relevance**—Preinjury racing performance can be achieved with early surgical repair of BTI and BrTI and optimal postoperative management.

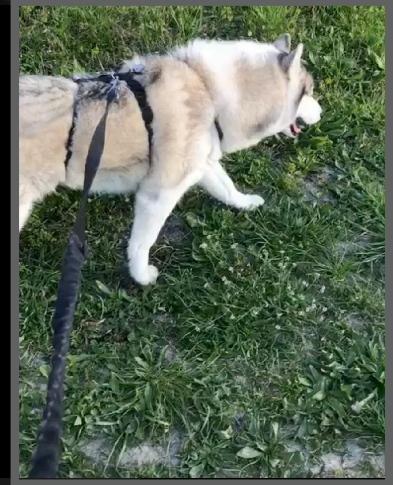
© Copyright 2009 by The American College of Veterinary Surgeons



## Tyrone, Siberian Husky, MN, 9 years

### Follow up

- Doing moderately better with a tutor
- Physiotherapy, if not working, possible surgery



A baby is coming...

# Thank you



Diagnostic Mindset

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## Achille, Lagotto, MI, 3 years

June

- No left carpal instability noted
- Reduced ROM of the left carpus



Achille, MI, 3 years

R

L





Achille, MI,  
3 years





Achille, MI, 3 years



Achille, MI, 3 years





Achille, MI, 3 years



## Achille, Lagotto, MI, 3 years

June

- Relatively unremarkable radiographs apart from a focal soft tissue swelling
- Rest, brace and NSAID
- If persistent lameness, consider recheck and possibly CT (fissure?)



## Achille, Lagotto, MI, 3 years

September

- Persistent second to third-degree left front limb lameness
- Focal dorso-medial-caudal left carpal swelling
- CT +/- MRI performed



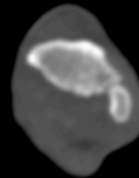
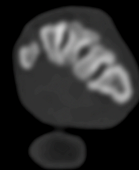
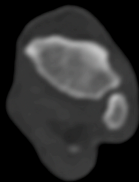
Achille, Lagotto,  
MI, 3 years

September

CT bone window



R

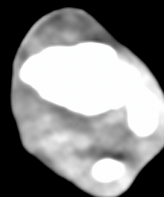
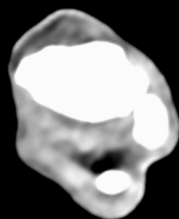


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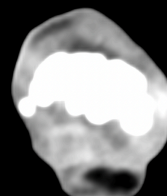
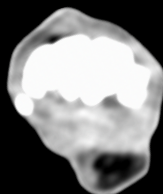


Achille, Lagotto,  
MI, 3 years

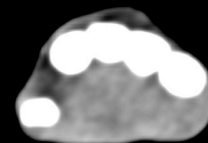
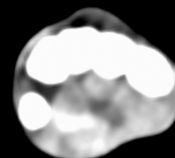
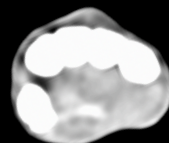
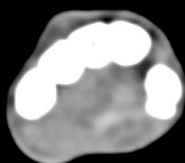
September



CT + C,  
late venous window



Focal soft tissue  
thickening no bony  
changes



R

L



Achille, Lagotto, MI, 3 years

September



SAG T1

SAG DP FS

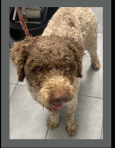
SAG FAT SAT + C





# Achille, Lagotto, MI, 3 years

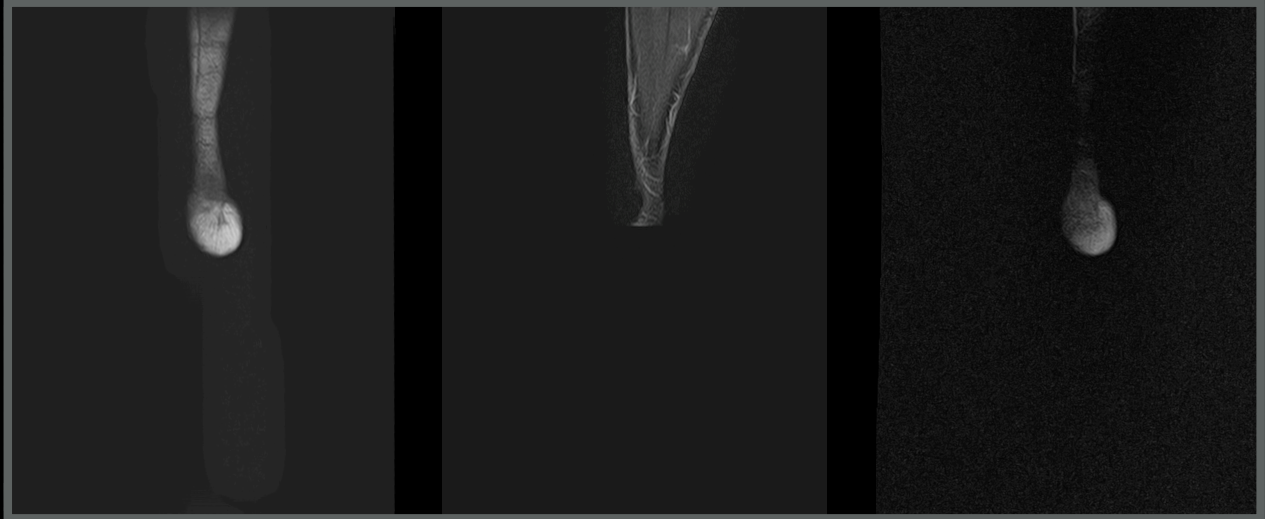
September



DOR T1

DOR STIR

DOR DP FS



# Achille, Lagotto, MI, 3 years

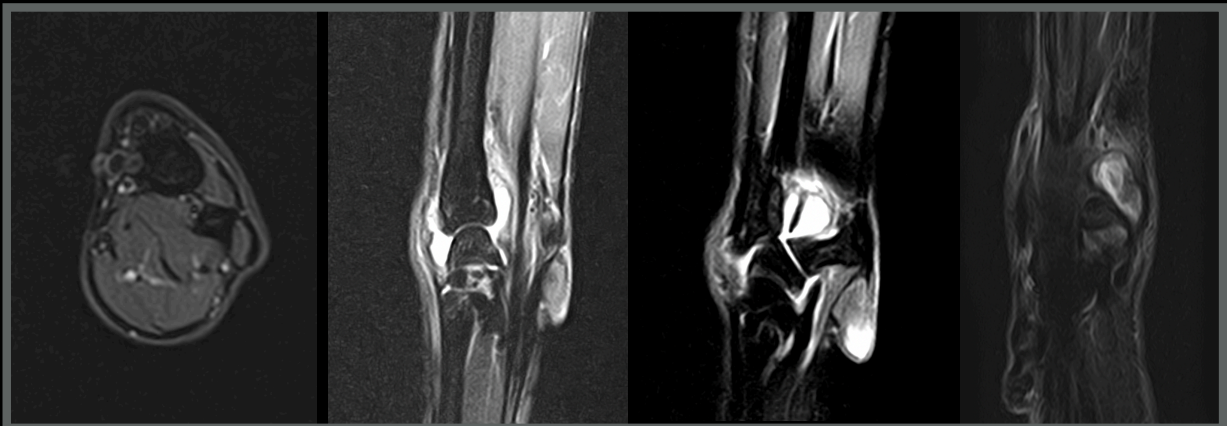
September

TRA DP FS

SAG DP FS

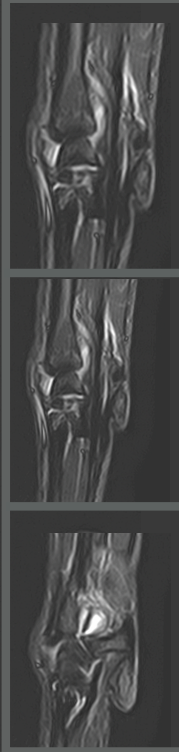
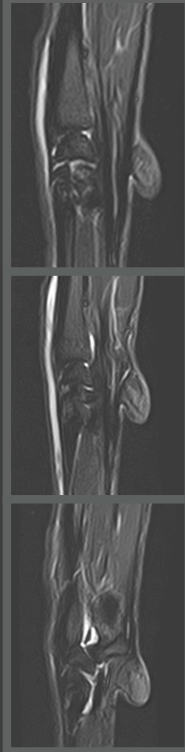
SAG STIR

DOR STIR

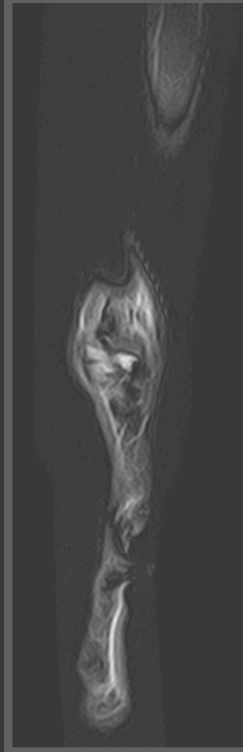


Achille, Lagotto, MI, 3 years

SAG STIR DX



SAG STIR SX



Achille, Lagotto, MI, 3 years

September

- Negative for bone lesions (CT)
- Circumferential soft tissue thickening and synovial effusion radio-carpal joint (CT)
- Synovial thickening-effusion (MRI)
- Equivocal lesion short branch of the medial collateral ligament of the left carpus (MRI)



## Achille, Lagotto, MI, 3 years

September

- Physiotherapy advised
- Not performed for truffle season
- The dog is sound under prednisolone treatment



## Achille, Lagotto, MI, 4 years

February (+1 year)

- Rechecked
- First-second-degree left front limb lameness
- Focal soft tissue thickening left carpus
- No instability
- Reduced flexion with pain maximal flexion





## Achille, Lagotto, MI, 4 years

February (+1 year)

- Progression of left carpal arthropathy
- Negative synovial culture + cytology
- Negative for infective diseases
- Consider physiotherapy
- If not working, consider arthrodesis



### **ANTIBIOGRAMMA**

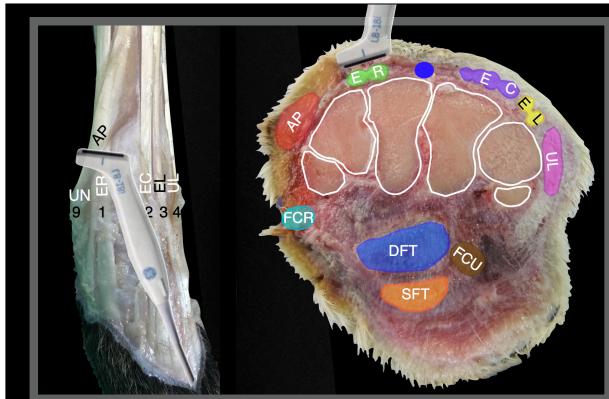
Materiale da analizzare: CENTESI CARPO SINISTRO  
Germe identificato: NEGATIVO

## Achille, Lagotto, MI, 4 years

April (+1 year)

- Persistent and worsening second-third-degree left front limb lameness
- Physiotherapy nor working
- The physiotherapist requested an ultrasound of the carpus



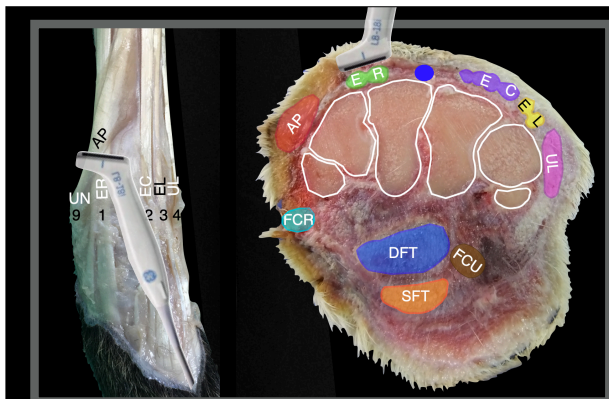
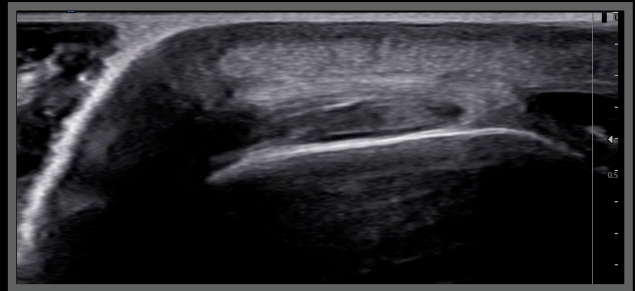


Achille, MI, 4 years

Right carpus



Extensor Carpi Radialis transverse scan

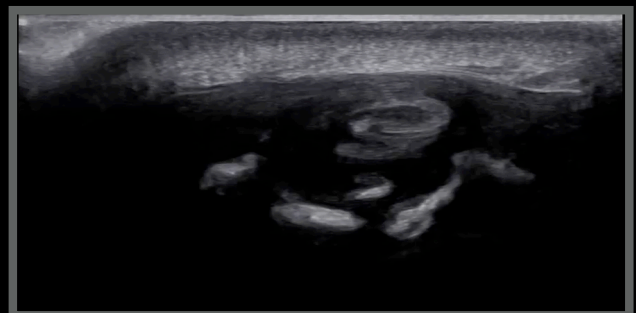


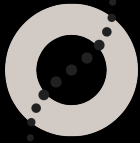
Achille, MI, 4 years

Left carpus



Extensor Carpi Radialis transverse scan





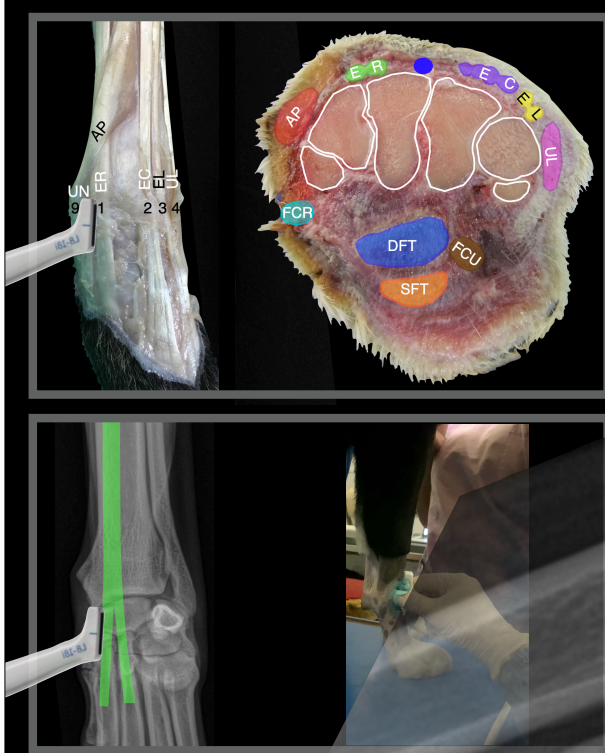
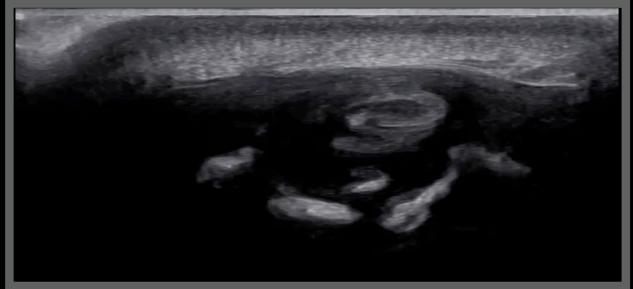
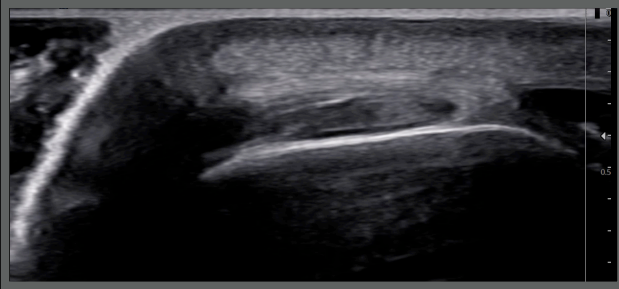
# Achille, Lagotto, MI, 4 years

Extensor Carpi Radialis transverse scan



Right carpus

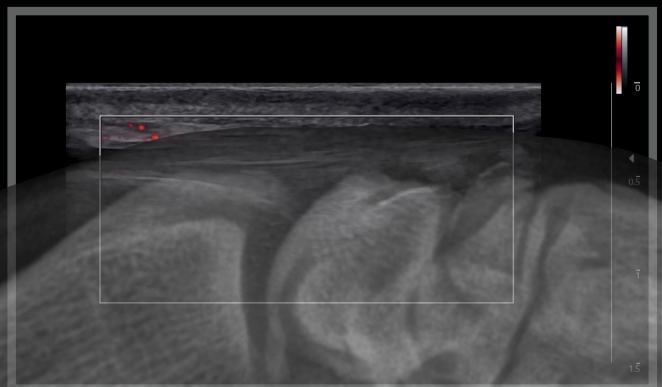
Left carpus



# Achille, MI, 4 years

Right carpus

Extensor Carpi Radialis longitudinal scan



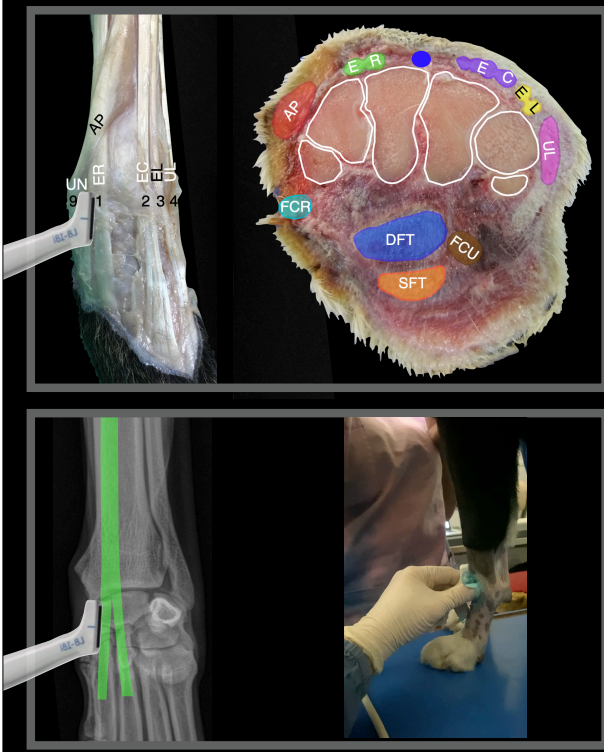
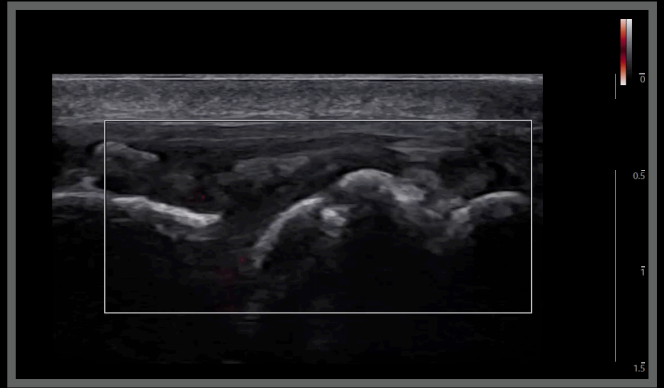
Achille, MI, 4 years

Left carpus



Extensor Carpi Radialis longitudinal scan

1

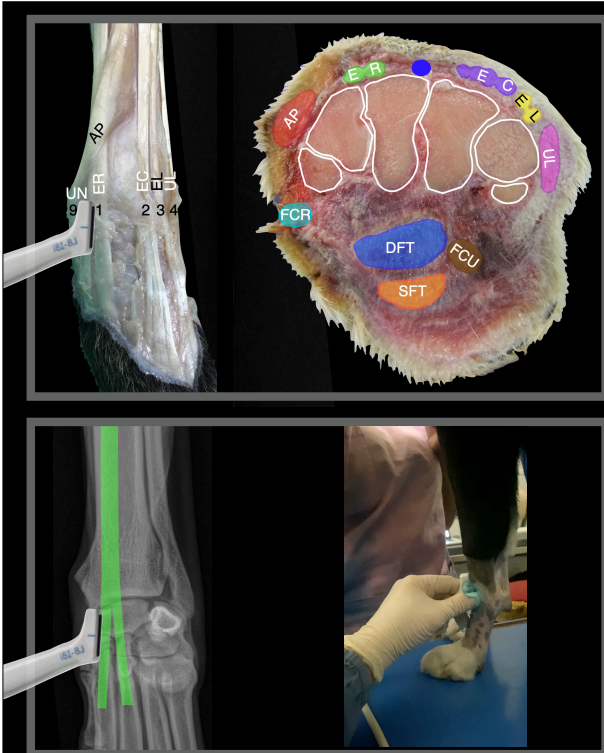
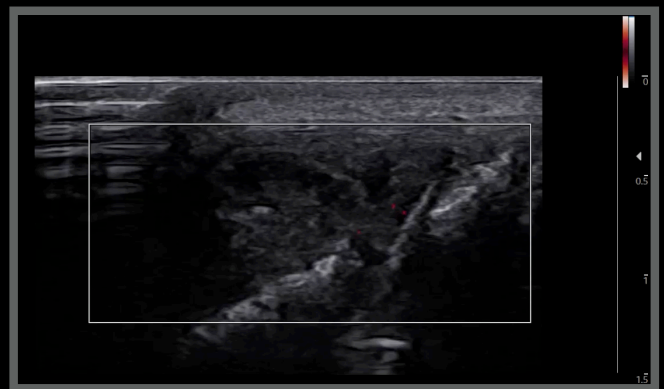


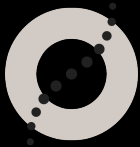
Achille, MI, 4 years

Left carpus



Extensor Carpi Radialis longitudinal scan





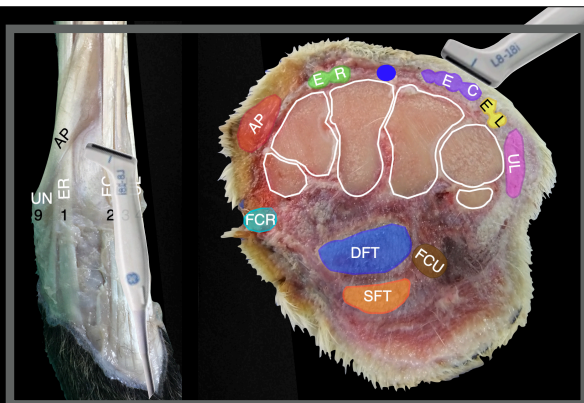
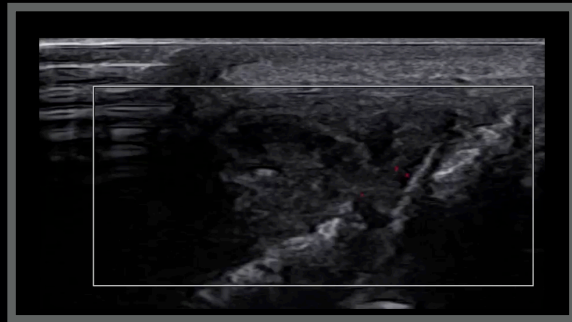
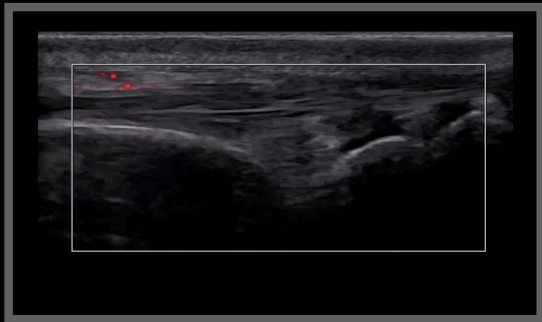
# Achille, Lagotto, MI, 4 years

Extensor Carpi Radialis longitudinal scan



Right carpus

Left carpus

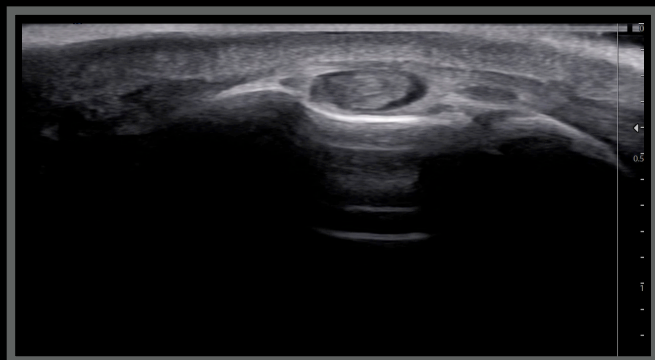


# Achille, MI, 4 years

Right carpus




Extensor Digitorum Communis transverse scan



## Achille, MI, 4 years

Left carpus

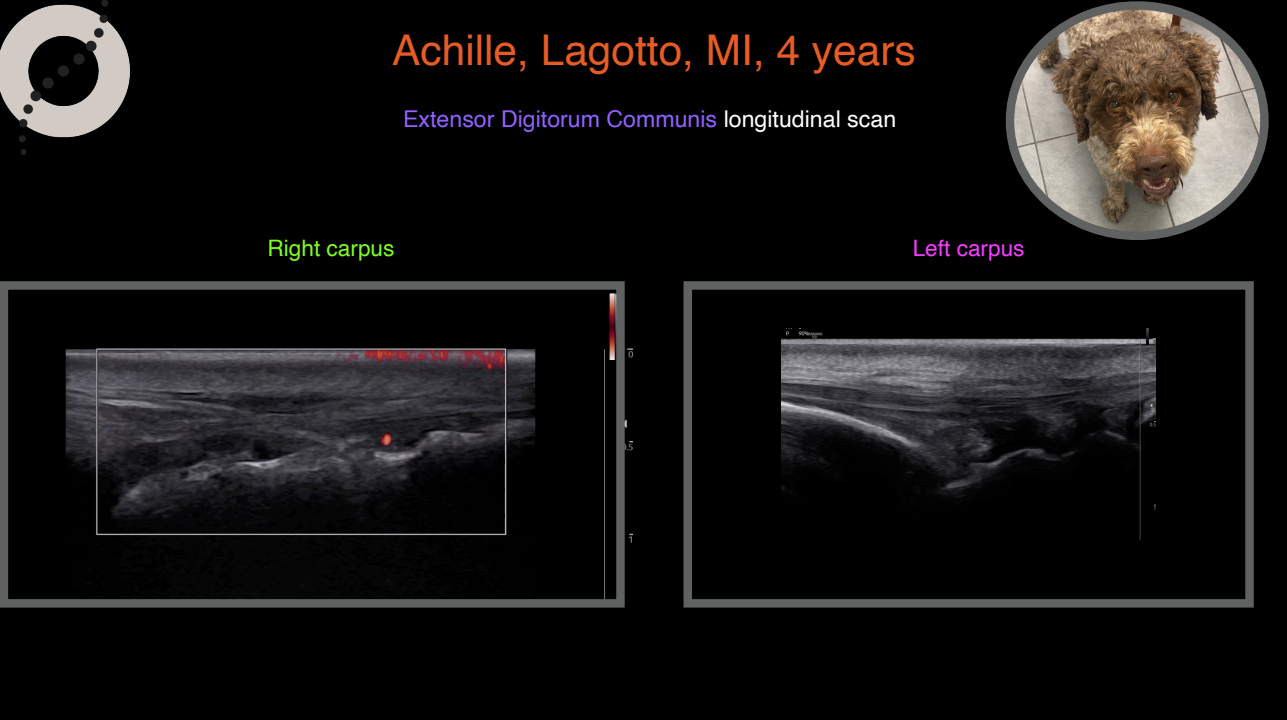


The top-left diagram shows a lateral view of the carpus with labels: UN, ER, 1, 2, FC, and 3. The top-right diagram is a transverse scan of the carpus with labels: Ap, ER, EC, EL, TU, FCR, DFT, FCU, and SFT. The bottom-left diagram shows a lateral view of the carpus with a purple line indicating the scan plane. The bottom-right diagram shows a hand palpating the carpus. The central ultrasound image is a transverse scan of the Extensor Digitorum Communis (EDC) muscle, showing a dark, anechoic region. A scale on the right indicates 0, 0.5, 1, and 1.5 cm.

Extensor Digitorum Communis transverse scan

## Achille, Lagotto, MI, 4 years

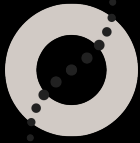
Extensor Digitorum Communis longitudinal scan



The top-right image is a circular portrait of a dog. The bottom-left image is a longitudinal scan of the right carpus, showing a red area indicating strain or injury. The bottom-right image is a longitudinal scan of the left carpus, showing a normal appearance. A scale on the right of the right carpus scan indicates 0, 0.5, and 1 cm.

Right carpus

Left carpus

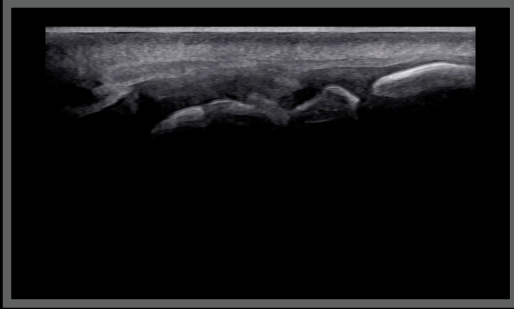


# Achille, Lagotto, MI, 4 years

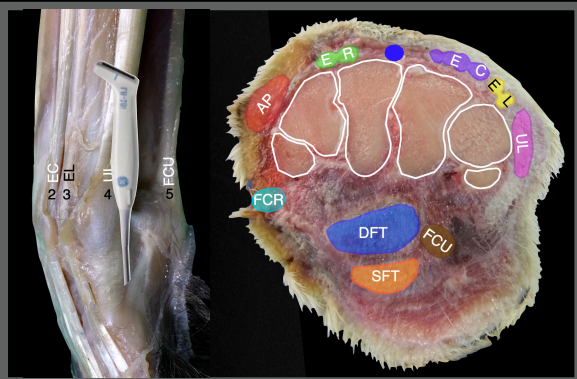
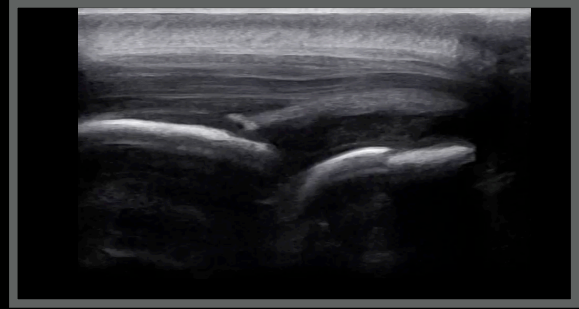
Dorsal carpal face, dynamic study



Right carpus



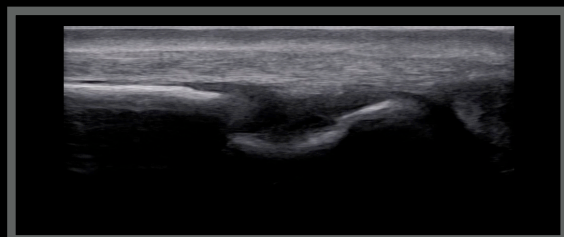
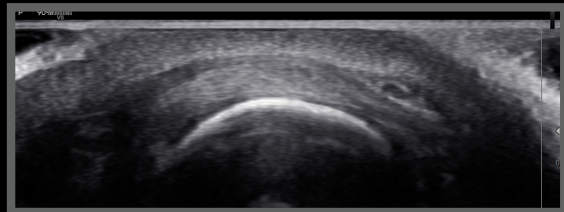
Left carpus



# Achille, MI, 4 years

Right carpus

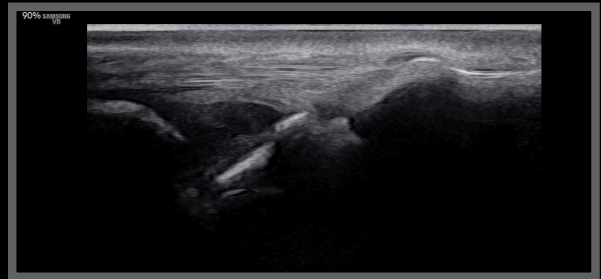
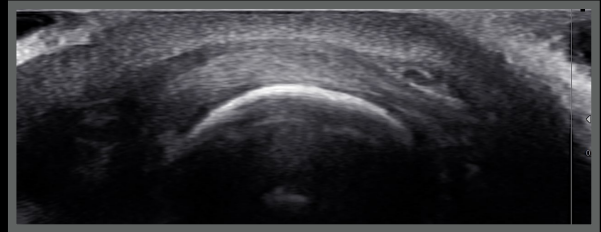
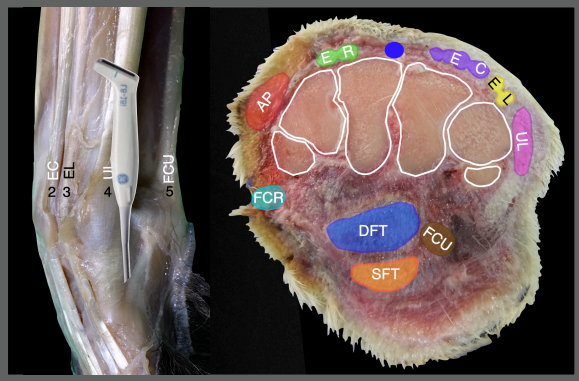
Ulnaris lateralis transverse and longitudinal scan



Achille, MI, 4 years

Left carpus

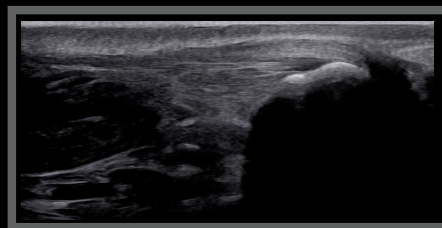
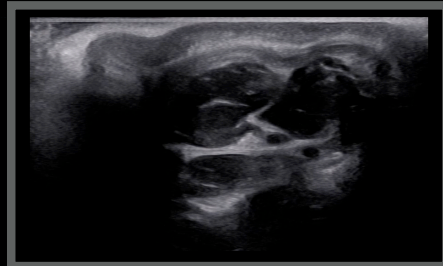
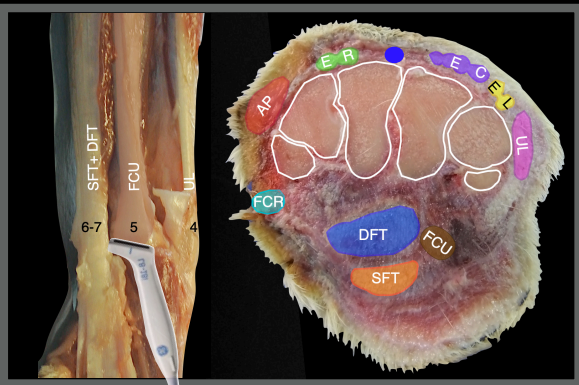
Ulnaris lateralis transverse and longitudinal scan



Achille, MI, 4 years

Right carpus

Flexor Carpi Ulnaris transverse and longitudinal scan

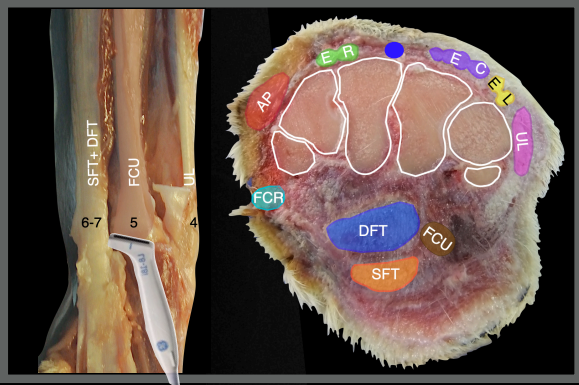
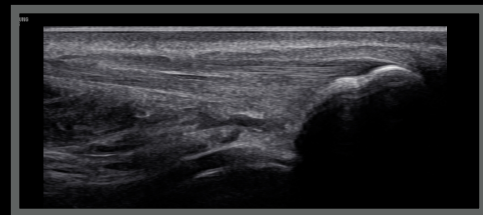
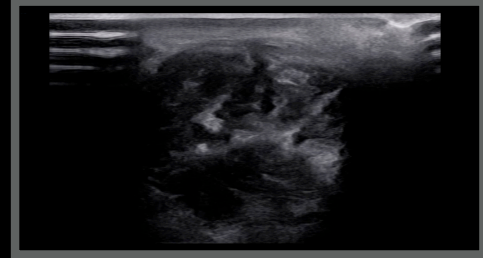




# Achille, MI, 4 years

Left carpus

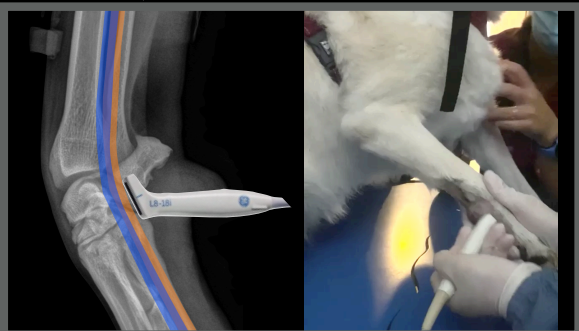
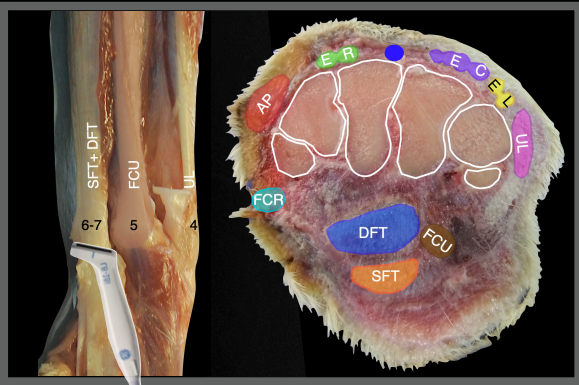
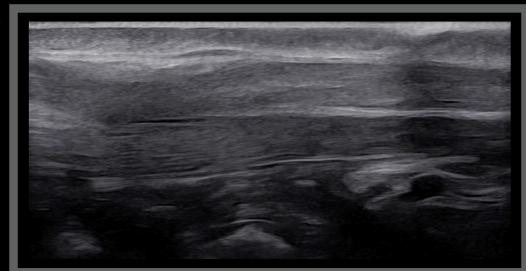
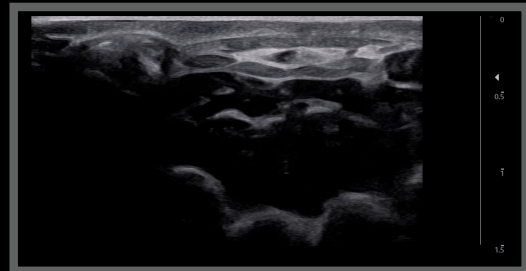
Flexor Carpi Ulnaris transverse and longitudinal scan

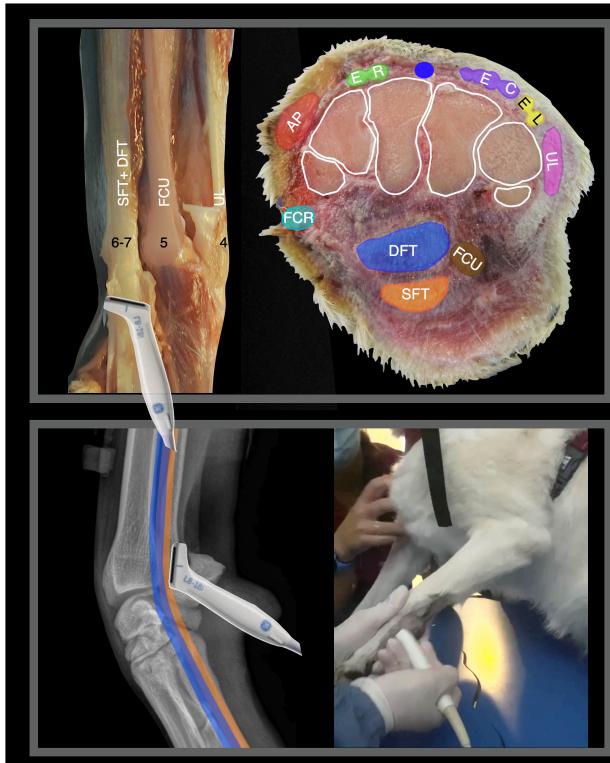


# Achille, MI, 4 years

Right carpus

Superficial and Deep Flexor tendons, transverse and longitudinal scan

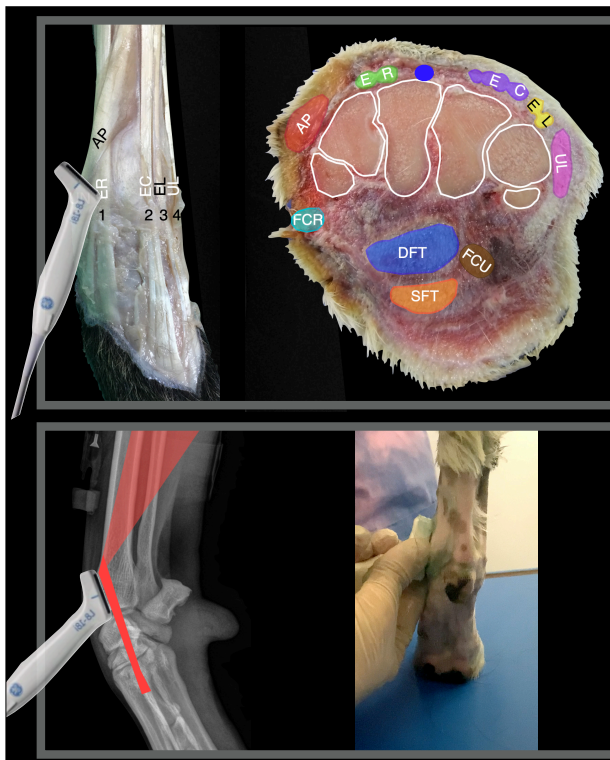
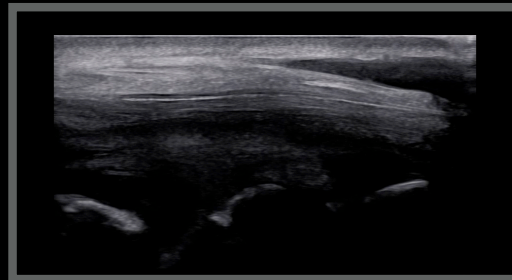
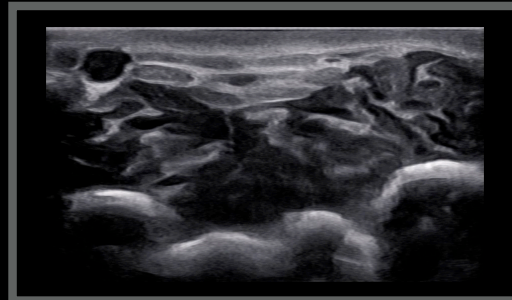




Achille, MI, 4 years

Left carpus

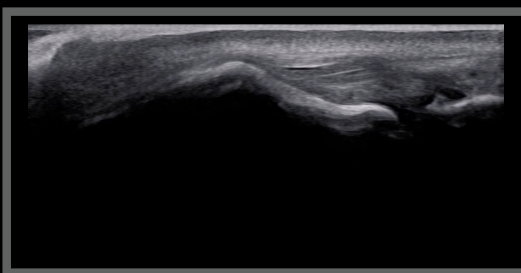
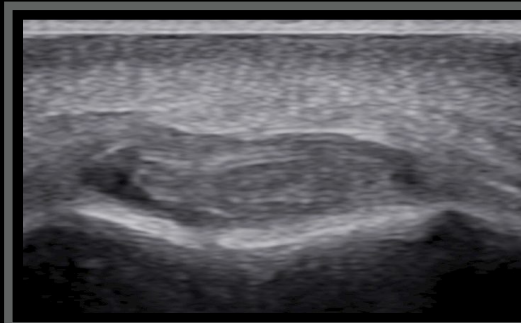
Superficial and Deep Flexor tendons, transverse and longitudinal scan

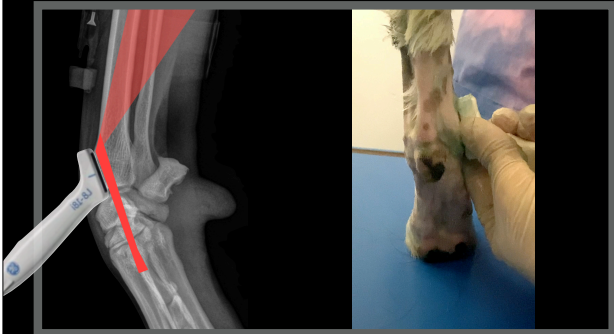
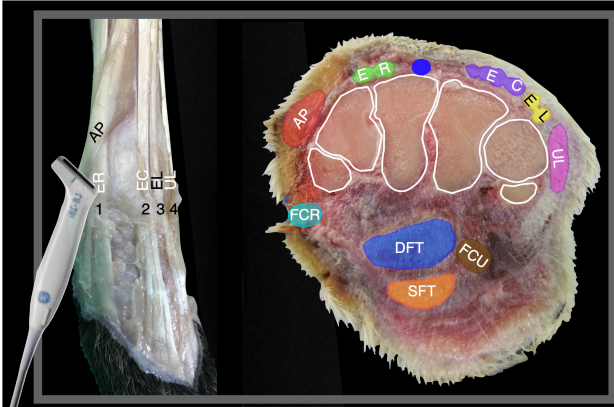


Achille, MI, 4 years

Right carpus

Abductor pollicis transverse and longitudinal scan

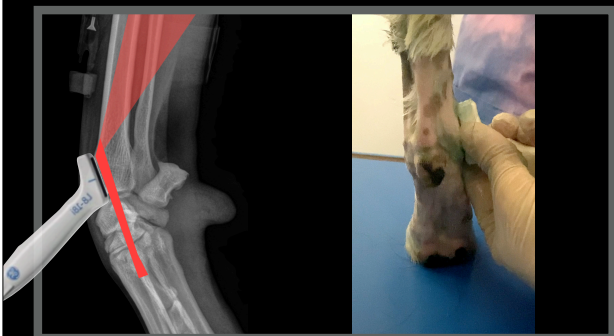
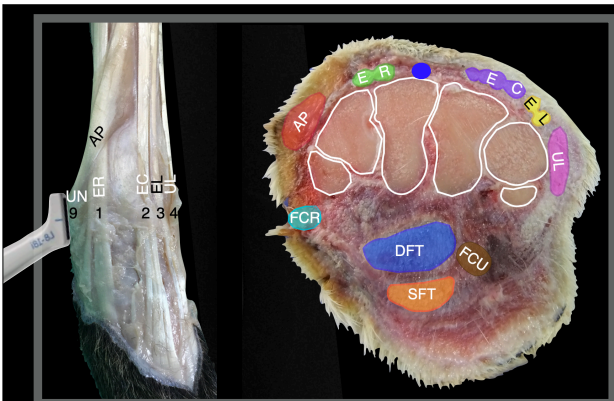
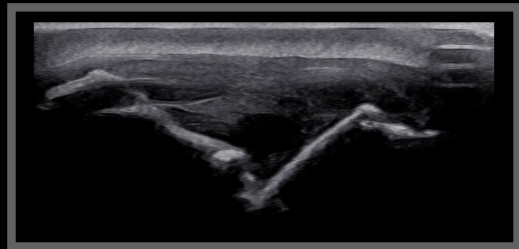
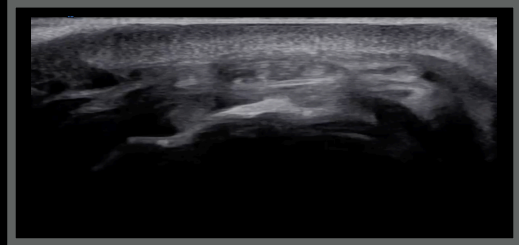




Achille, MI, 4 years

Left carpus

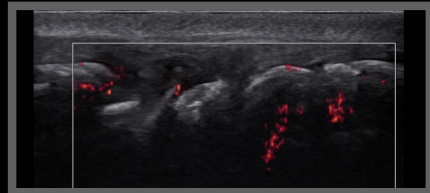
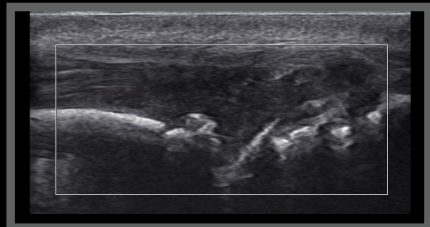
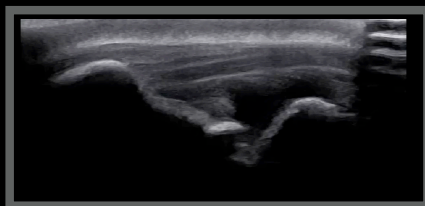
Abductor pollicis transverse and longitudinal scan

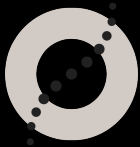


Achille, MI, 4 years

Left carpus

Abductor pollicis transverse and longitudinal scan





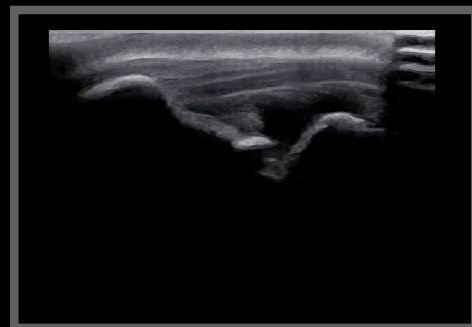
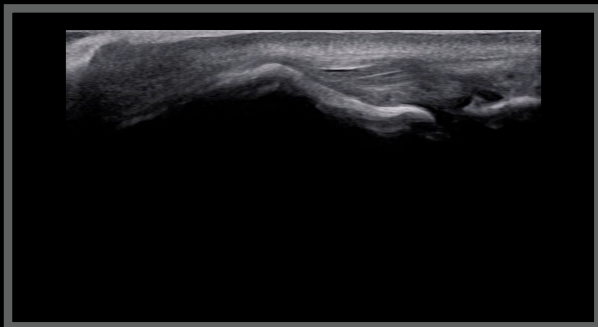
## Achille, Lagotto, MI, 4 years

Abductor pollicis longitudinal scan



Right carpus

Left carpus



## Achille, Lagotto, MI, 4 years

April (+1 year)

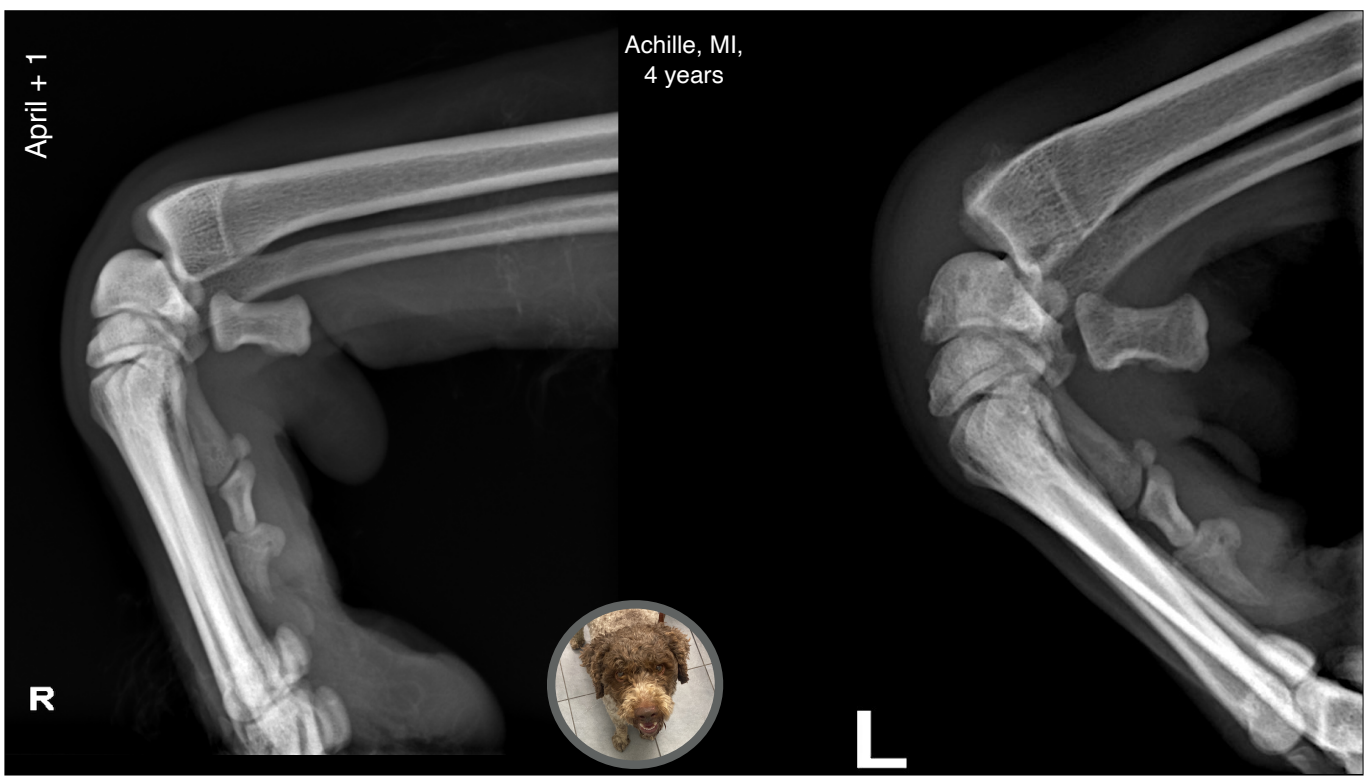
### Ultrasonographic diagnoses:

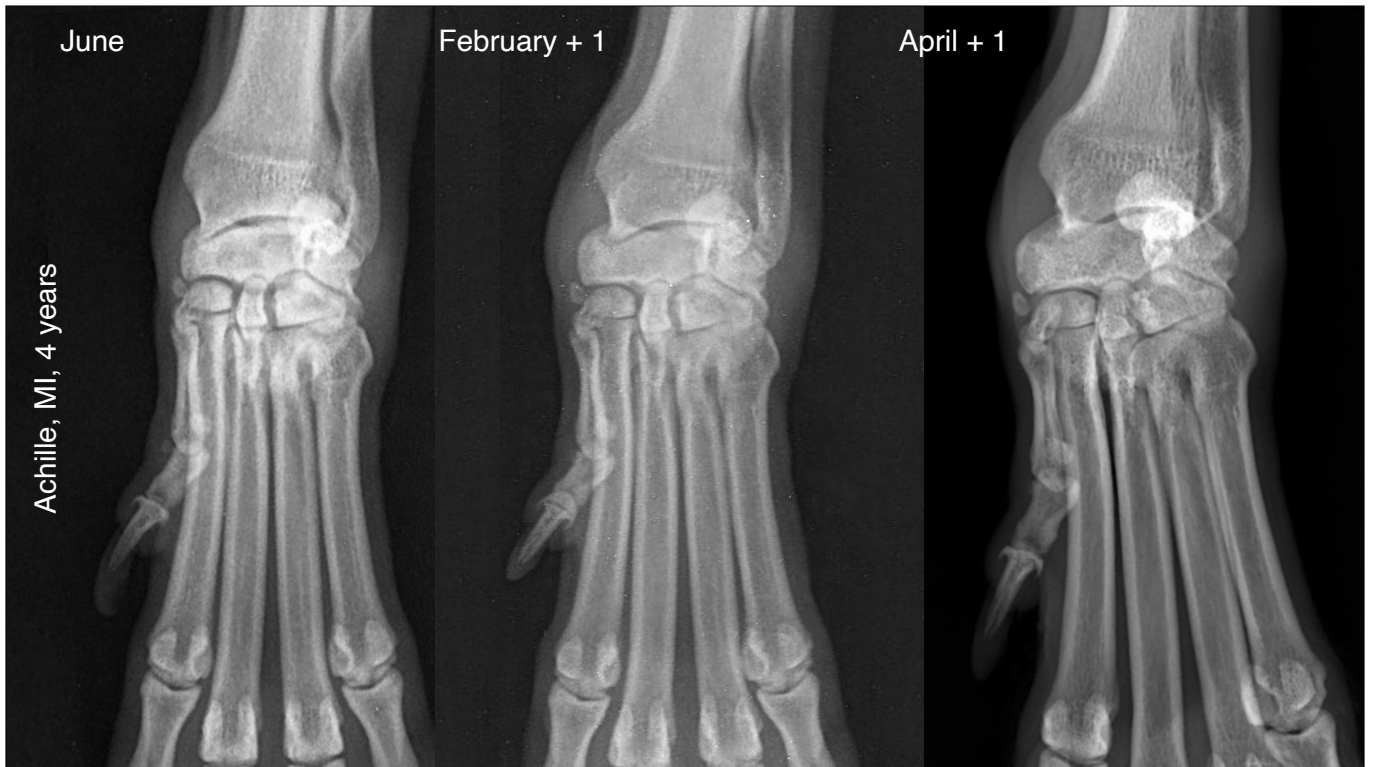
- Severe thickening and increased vascularisation of the synovia
- Moderate synovial effusion
- Carpal moderate arthropathy

### Conclusions

- Bone proliferation or lytic bone lesion?







## Achille, Lagotto, MI, 4 years

April (+1 year)

### Radiographic diagnoses:

- Suspected erosive arthropathy or erosion due to severe thickening of the synovia
- Much less likely aggressive erosion (slow growing synovial sarcoma)

### Conclusions

- Ultrasound guided synovial biopsy





- Ultrasound guided biopsy

## Achille, Lagotto, MI, 4 years

May (+1 year)

### Synovial biopsy results:

#### Descrizione microscopica

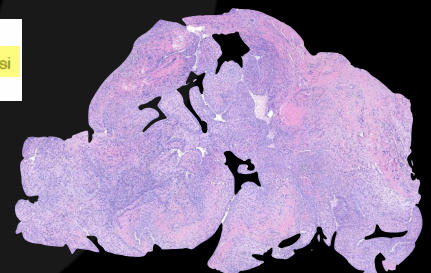
Si esaminano sezioni multiple di sinovia sollevata in pliche e papille con stroma subsinoviale espanso da collagene moderatamente cellulare in assenza di atipie e con vasi iperemici (tessuto di granulazione in fase di maturazione). A livello sub-sinoviale si osserva un denso infiltrato infiammatorio cronico misto dominato da plasmacellule e macrofagi con emosiderina (riassorbimento ematico) e linfociti. Nelle sezioni in esame non si riscontrano agenti eziologici o atipie di rilievo e la lesione coincide con i prelievi.

### Conclusions

#### Diagnosi

Quadro istopatologico indicativo di severa sinovite proliferativa cronica linfoplasmacellulare ed istiocitica con associata fibrosi secondaria.

- Compatible with villo-nodular synovitis
- Started immune-mediated treatment, seems to respond



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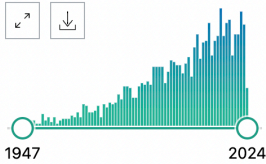
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RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

**Pigmented villonodular synovitis.**

1 Tyler WK, Vidal AF, Williams RJ, Healey JH.  
 Cite J Am Acad Orthop Surg. 2006 Jun;14(6):376-85. doi: 10.5435/00124635-200606000-00007.  
 PMID: 16757677 Review.

Share **Pigmented villonodular synovitis** is a proliferative condition of the synovium. ...Although the condition can present in any joint, the knee is the most commonly affected site. **Pigmented villonodular synovitis** is often aggressive, with mar ...

**[Villonodular synovitis].**

2 Gautier J, Agousty M, Lapiere M, Chinellato S, Mattei JC.  
 Cite Rev Prat. 2020 Feb;70(2):181.  
 PMID: 32877134 French. No abstract available.

Share

**Villonodular synovitis of the hip.**

3 Elhend SB, Douhousne H, Fikri AE.  
 Cite Joint Bone Spine. 2023 Jan;90(1):105484. doi: 10.1016/j.jbspin.2022.105484. Epub 2022 Nov 4.  
 PMID: 36336288 No abstract available.

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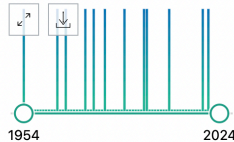
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12 results

Page 1 of 2

RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

- Books and Documents
- Clinical Trial

**Radiographic diagnosis--canine carpal villonodular synovitis.**

1 Hanson JA.  
 Cite Vet Radiol Ultrasound. 1998 Jan-Feb;39(1):15-7. doi: 10.1111/j.1740-8261.1998.tb00319.x.  
 PMID: 9491512 No abstract available.

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**The pathogenesis and long-term end results of pigmented villonodular synovitis.**

2 Granowitz SP, D'Antonio J, Mankin HL.  
 Cite Clin Orthop Relat Res. 1976 Jan-Feb;(114):335-51.  
 PMID: 770040 Review.

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**Pigmented villonodular synovitis**, bursitis and tenosynovitis may present a variable picture depended upon the site and whether they are localized or diffuse. ...The localized disease within the knee joint may represent a picture of internal derangement. Simpl ...






**Villonodular synovitis in the dog: a report of four cases.**

3 Akerblom S, Sjöström L.  
 Cite Vet Comp Orthop Traumatol. 2006;19(2):87-92.  
 PMID: 16810350 Review.

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Four cases of **villonodular synovitis** were diagnosed by histopathology. All four **dogs** were treated medically with either carprophen or a combination of carprophen and glucosamine complex (Cosequin). In three of the **dogs** the condition improved significan ...

## Chronic lymphoplasmacytic villonodular proliferative synovitis in a 10-year-old Jack Russell Terrier dog

Tafara Mapuvire <sup>a</sup>, Erick Kandiwa <sup>b</sup>, Pricilla Mbiri<sup>c</sup>, Alaster Samkange <sup>c</sup>, Oscar Madzingira <sup>d</sup> and Borden Mushonga <sup>b</sup>

<sup>a</sup>Surgivet Veterinary Consultancy, Johannesburg, South Africa; <sup>b</sup>Biomedical Sciences Department, School of Veterinary Medicine, Faculty of Agriculture and Natural Resources, Neudamm Campus, University of Namibia, Windhoek, Namibia; <sup>c</sup>Production Animal Clinical Studies Department, School of Veterinary Medicine, Faculty of Agriculture and Natural Resources, Neudamm Campus, University of Namibia, Windhoek, Namibia; <sup>d</sup>Department of Animal Health, School of Veterinary Medicine, Faculty of Agriculture and Natural Resources, University of Namibia, Katima Mulilo, Namibia

### ABSTRACT

We describe a case of chronic lymphoplasmacytic villonodular synovitis (CLPVNS) associated with cranial cruciate ligament (CCL) disease in a 10-year-old spayed Jack Russell Terrier bitch. The bitch was presented to a veterinary clinic with severe, non-weight bearing, acute left hindlimb lameness. The bitch had previously been treated surgically for stifle CCL disease of the same joint, using the lateral fabellar suture (LFS) technique. Since the treatment, the patient had a history of intermittent left hindlimb non-weight bearing lameness that was manageable with nonsteroidal anti-inflammatory drugs (NSAIDs). Palpation and manipulation of the affected stifle elicited severe pain. There were no other clinical or orthopaedic abnormalities. Orthogonal radiographs of the affected stifle revealed moderate degenerative joint disease and osteolytic lesions on the lateral aspect of the lateral femoral condyle and the head of the fibula. A fluid aspirate from this joint was negative for bacterial growth on culture. Cytology results were suspicious for CLPVNS. Exploratory arthrotomy, synovectomy, debridement and lavage of the affected joint were performed. Bone and synovial membrane biopsy samples of the joint were obtained and submitted to a laboratory for a histopathological confirmatory diagnosis. CLPVNS was tentatively diagnosed by cytology, and confirmed by histopathology of biopsy samples. This case report highlights the importance of checking for CLPVNS in dogs with lameness associated with CCL disease, as reports show it to be underreported or misdiagnosed.

### ARTICLE HISTORY

Received 8 June 2020  
Revised 5 October 2020  
Accepted 21 October 2020

### KEYWORDS

Dog; lymphoplasmacytosis; villonodular; proliferative synovitis; stifle; lameness

## Achille, Lagotto, MI, 4 years

- I wanted to share with you the excellent progress you're making with Achille. After almost two years, he has competed again in a national championship work trial, achieving an impressive second place out of 175 dogs. It was truly an emotional moment for me. Thank you!

La volevo rendere partecipe del buon lavoro che sta facendo con Achille dopo quasi 2 anni ha rifatto una prova lavoro campionato nazionale. Un secondo su 175 canimi ha emozionato. Civediamo GIOVEDÌ.GRAZIE



# Thank you



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