

Special cases

CASE DISCUSSION

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

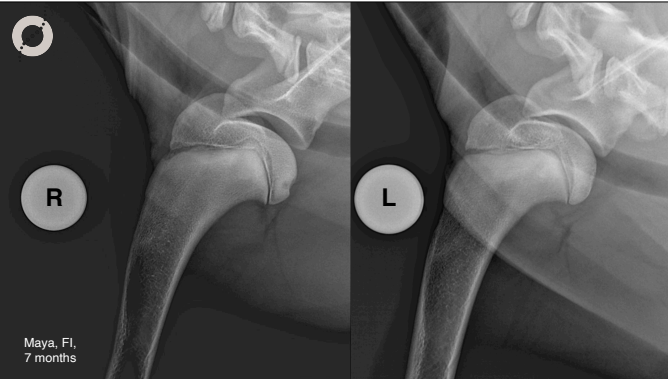


Thank to www.imaios.com

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

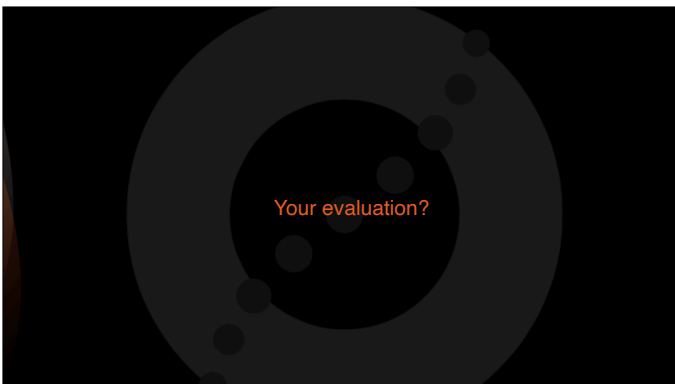


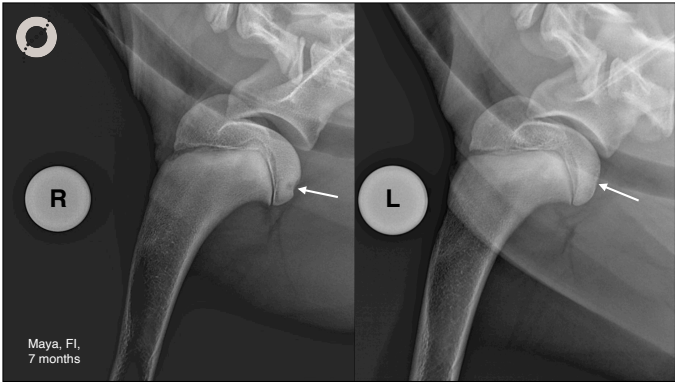


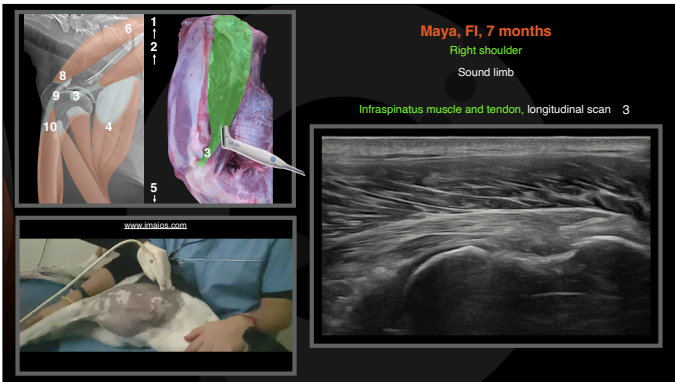
Maya, FI,
7 months

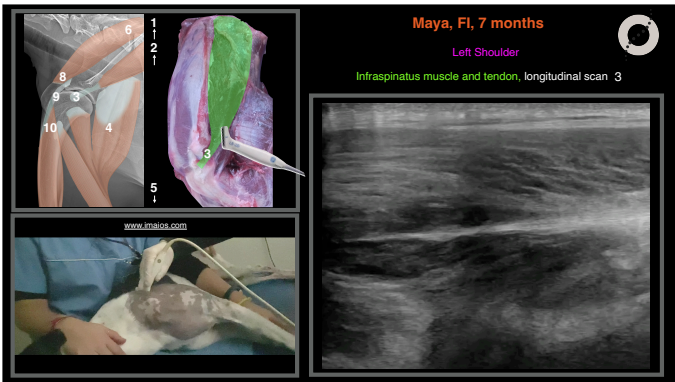












Maya, FI, 7 months

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
Mildly thickened synovia

Left Shoulder
Severely thickened synovia

Maya, FI, 7 months

Right shoulder
Sound limb

Subscapularis longitudinal scan

11

www.imaos.com

This slide displays an ultrasound scan of the subscapularis muscle in the right shoulder of a 7-month-old female dog (Maya). The image shows a longitudinal view of the muscle fibers, which appear as a dark, organized band. To the left, there are two anatomical diagrams: the top one shows the subscapularis muscle in a normal position, and the bottom one shows it in a retracted position. Below the diagrams is a photograph of the dog lying on a table with the ultrasound probe applied to her shoulder. The website 'www.imaos.com' is visible at the bottom left.

Maya, FI, 7 months

Left Shoulder
Affected limb

Subscapularis longitudinal scan

11

www.imaos.com

This slide displays an ultrasound scan of the subscapularis muscle in the left shoulder of the same dog (Maya). The image shows a longitudinal view of the muscle, which appears significantly more disorganized and fragmented compared to the right shoulder. Similar to the first slide, there are anatomical diagrams and a photograph of the dog on the left side of the slide. The website 'www.imaos.com' is visible at the bottom left.

Maya, Great Swiss Mountain Dog, FI, 7 Months

Right shoulder

Left Shoulder

This slide compares the subscapularis muscle in both shoulders of Maya. The left image is labeled 'Right shoulder' and shows a relatively normal, organized muscle structure. The right image is labeled 'Left Shoulder' and shows a severely disorganized and fragmented muscle structure, indicating a significant pathological change. The slide includes anatomical diagrams and a photograph of the dog on the left side.

Maya, Great Swiss Mountain Dog, FI, 7 Months

Ultrasonographic diagnoses

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









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

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

Gliola Spattini
DVM, GP Cardio, CCRT, PhD, DECVI



Diagnostic Mindset



Thank to www.imaig.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

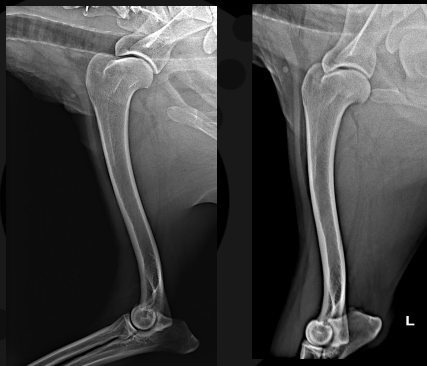


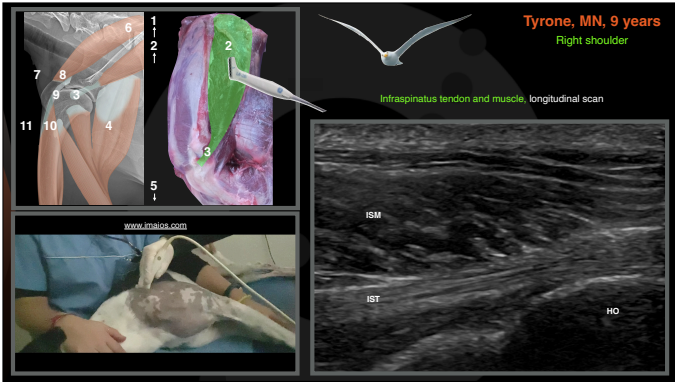
Tyrone, Siberian Husky, MN, 9 years

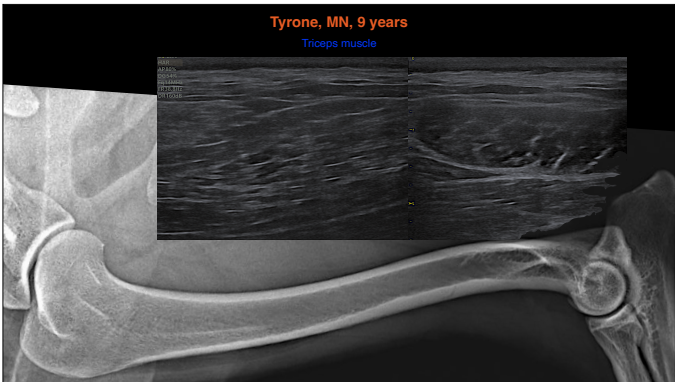
- The physiotherapist found pain in the right triceps muscle and supraspinatus tendon
- Not responding well to treatment
- Previous MSK ultrasound negative for a shoulder problem
- Second consultation asked

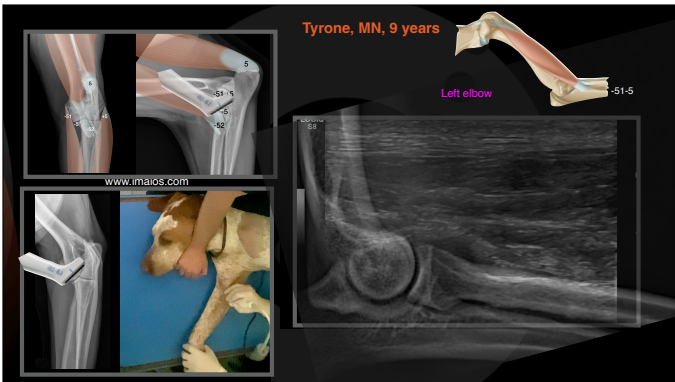


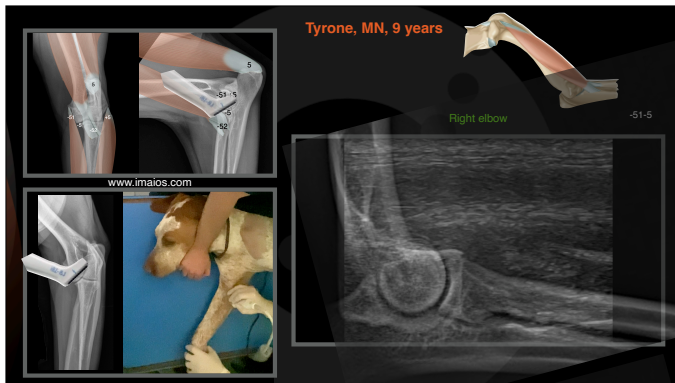
Tyrone, MN, 9 years

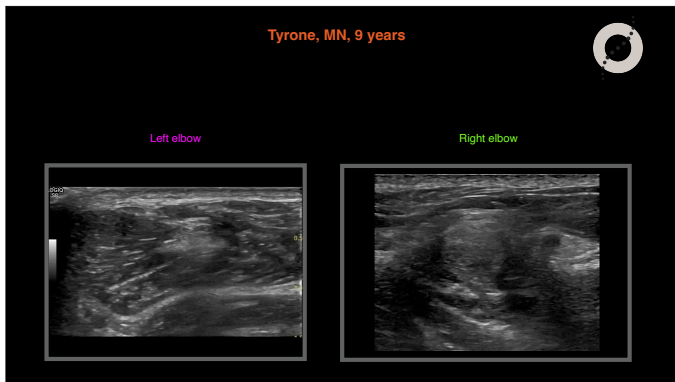


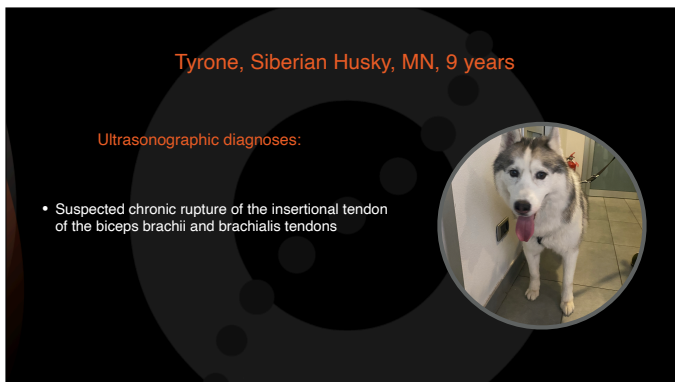












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biceps brachii insertion injuries

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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.
Clavert P.
Cite Orthop Traumatol Surg Res. 2015 Feb;101(1 Suppl):S19-24. doi: 10.1016/j.otsr.2014.08.028. Epub 2015 Jun 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 acromial insertion of the long head of the biceps brachii tendon. The most frequent form is SLAP I...Finally, postero-superior lesions involve Walch...

Distal Biceps Brachii Tendon Insertion: A Simple Method of Ultrasound
Evolution
Draigh F, Bortolotto C, Ferruzzi G.
Cite 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.

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biceps brachii insertion dog

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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
Schaaf CR, Eaton-Wells R, Mitchell RA.
Cite 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 (BTTI) tendons of insertion in 11 racing Greyhounds...Outcomes between surgical and conservative management were compared.
RESULTS: Dogs had elbow hyperextension, positive biceps...

Supraspinatus tendinosis associated with biceps brachii tendon displacement in a dog.
2
Framson BA, Gavin PG, Lahmann KK.
Cite J Am Vet Med Assoc. 2005 Nov 1;227(9):1429-33. 1416. doi: 10.2460/javma.2005.2271429.
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, MCVSc, RICHARD EATON-WELLS, BVSc, MCVSc, and RICHARD A. S. MITCHELL, BVSc, DipVet, ECVS

Objective—To report injuries of the biceps brachii (BTI) or brachialis (BTTI) 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 circumference 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 BTTI, 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 euthanized 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 regained its BTI or BTTI.
Conclusion—BTI and BTTI 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 BTTI and optimal postoperative management.

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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

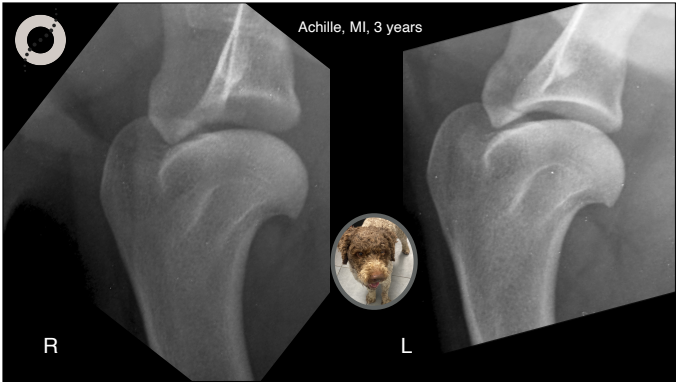
www.diagnosticmindset.com

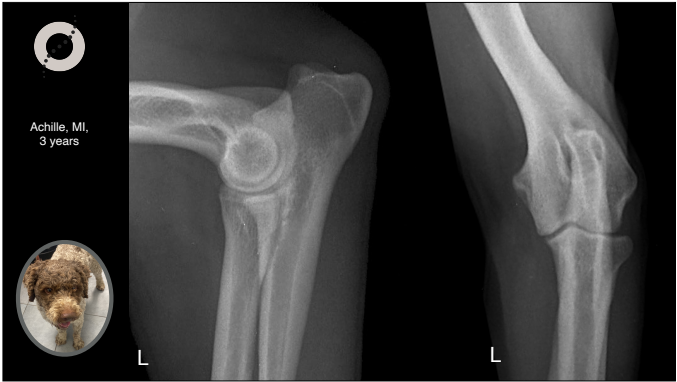
Achille, Lagotto, MI, 3 years

June

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















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

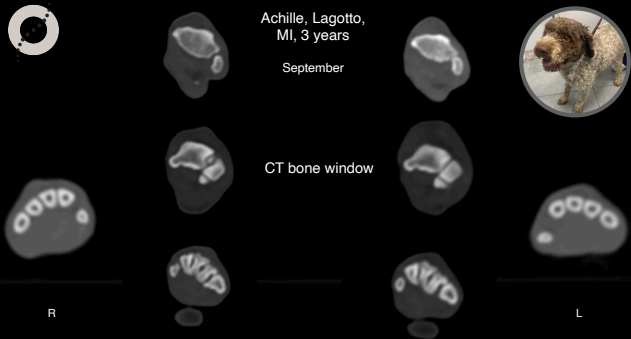
- Persistent second to third-degree left front limb lameness
- Focal dorso-medial-caudal left carpal swelling
- CT +/- MRI performed

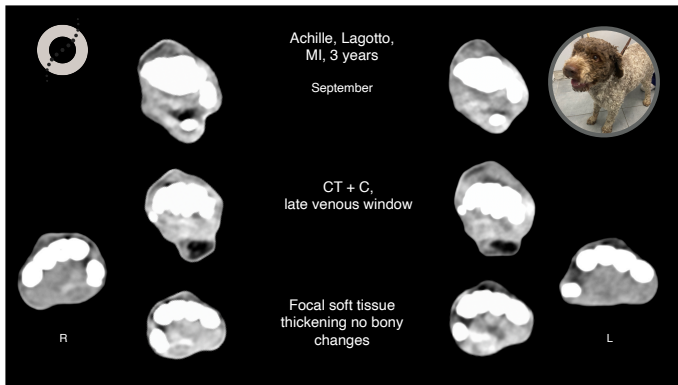


Achille, Lagotto, MI, 3 years

September

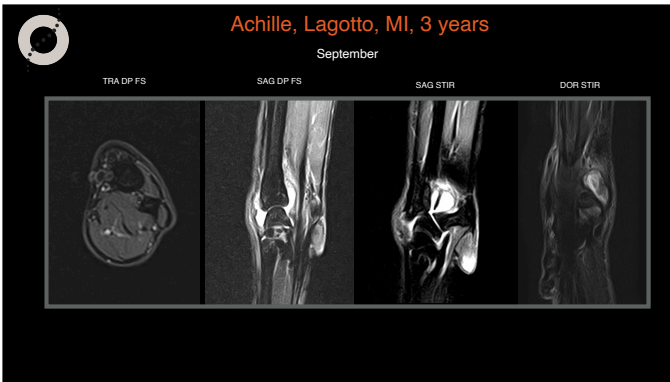
CT bone window

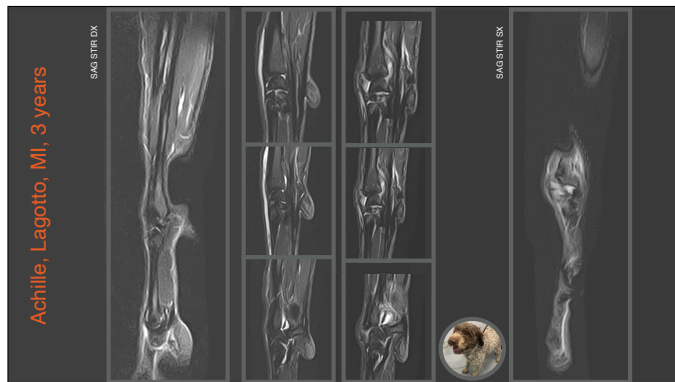












Achille, Lagotto, MI, 3 years

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, MI,
4 years


February + 1





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



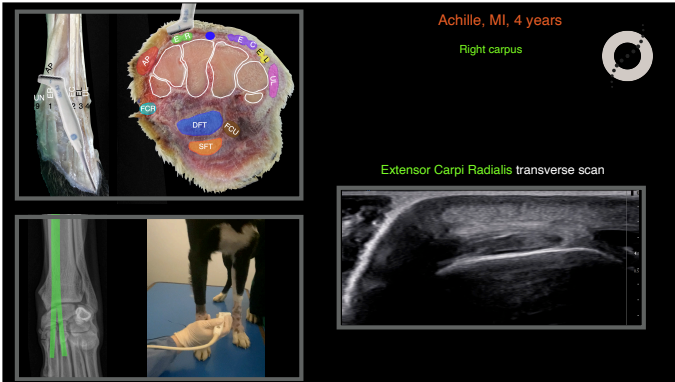
ANTIBIOGRAMMA

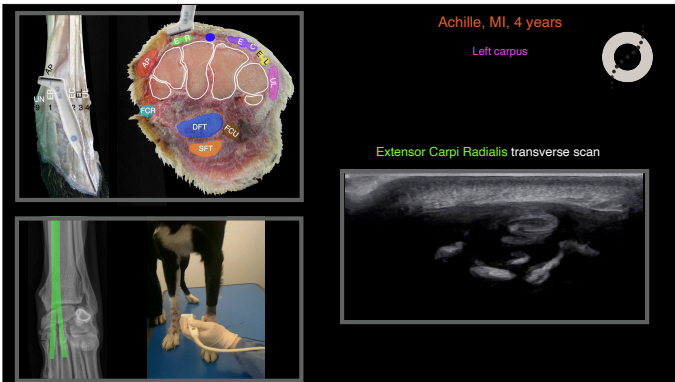
Materiale da analizzare: CENTESI CARPO SINISTRO
Genere identificato: NEGATIVO

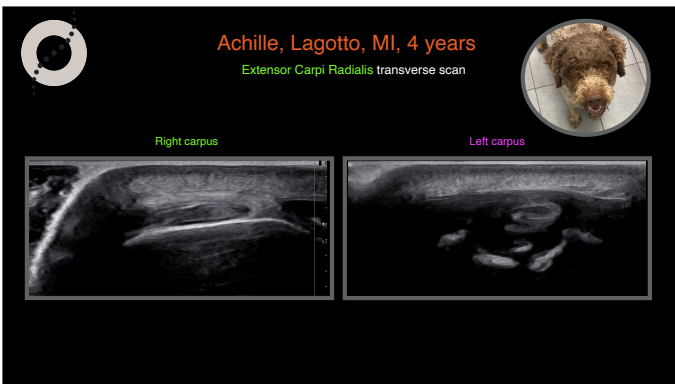
Achille, Lagotto, MI, 4 years
April (+1 year)

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









Achille, Lagotto, MI, 4 years
 Extensor Carpi Radialis longitudinal scan

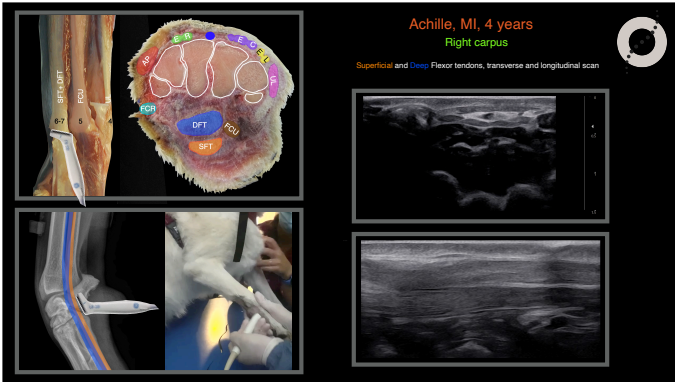
Right carpus Left carpus

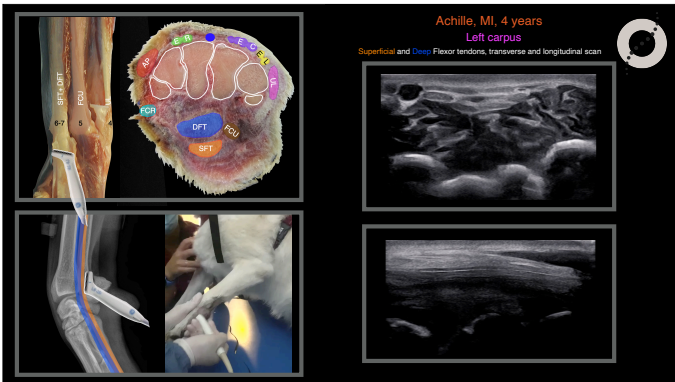
Achille, MI, 4 years
 Right carpus

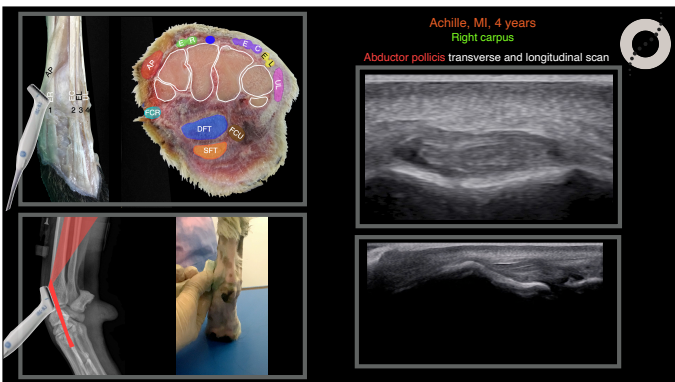
Extensor Digitorum Communis transverse scan

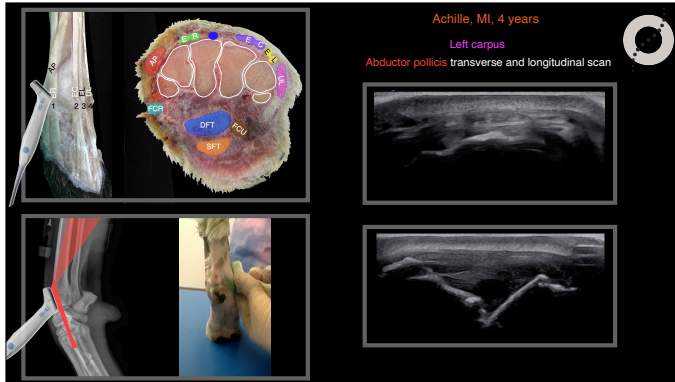
Achille, MI, 4 years
 Left carpus

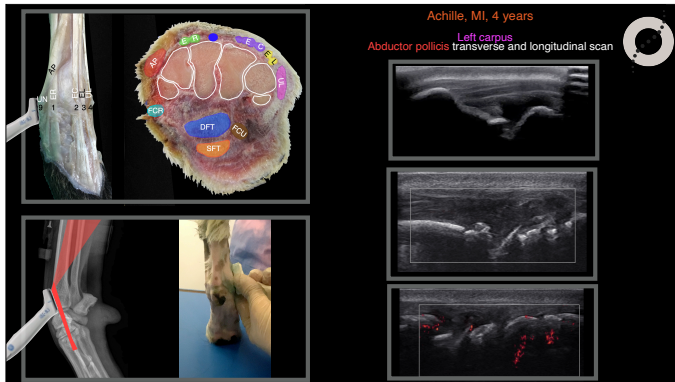
Extensor Digitorum Communis transverse scan

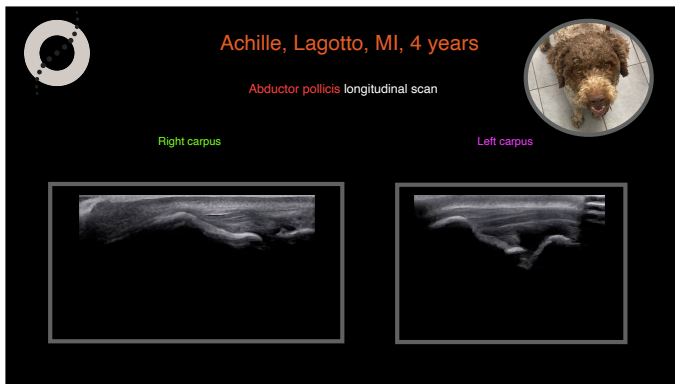












Achille, Lagotto, MI, 4 years

April (+1 year)

Ultrasonographic diagnoses:

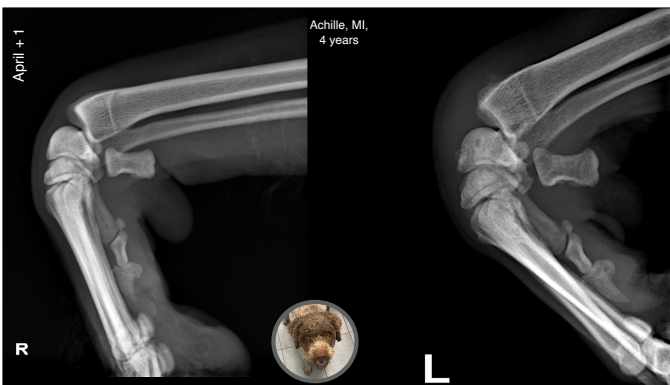
- Severe thickening and increased vascularisation of the synovia
- Moderate synovial effusion
- Carpal moderate arthropathy

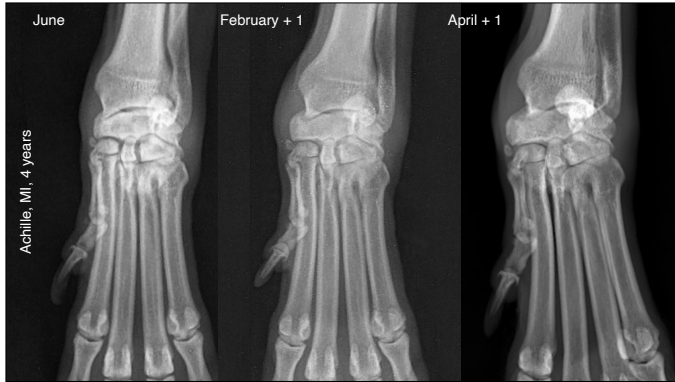
Conclusions

- 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

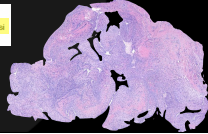
Si esaminano sezioni multiple di sinovia sollevata in pliche e papille con stroma subinviolante espanso da collagene moderatamente cellulare in assenza di atipie e con vasi iperemici (risultato di granulazione in fase di maturazione). A livello sub-sinoviale si osserva un denso infiltrato infiammatorio 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

Quindici 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



PubMed

villonodular synovitis

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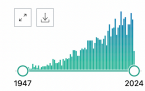
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RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

Pigmented vilonodular synovitis.

1 Tyler WK, Vidal AF, Williams RJ, Healey JH. J Am Acad Orthop Surg. 2006 Jun;14(6):376-85. doi: 10.5435/00124633-200606000-00007. PMID: 16757872 Review.

Share Pigmented vilonodular 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 vilonodular synovitis is often aggressive, with mar ...

[Vilonodular synovitis].

2 Gautier J, Agosty M, Lapierre M, Chinellato S, Mattel JC. Rev Prat. 2020 Feb;70(2):181. PMID: 32877134 French. No abstract available.

Share

Vilonodular synovitis of the hip.

3 Elhend SB, Douhoune H, Fikri AE. Joint Bone Spine. 2022 Jan;01(1):105484. doi: 10.1016/j.jbspin.2022.105484. Epub 2022 Nov 4. PMID: 36336288 No abstract available.

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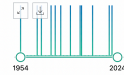
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12 results

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RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
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ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

- Books and Documents
- Clinical Trial

Radiographic diagnosis—canine carpal vilonodular synovitis.

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

Share

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

2 Grawnitz SR, D'Antonio J, Markin HL. Clin Orthop Relat Res. 1978 Jan-Feb;(114):335-51. PMID: 770040 Review.

Share Pigmented vilonodular synovitis, bursitis and tenosynovitis may present a variable picture depending 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 ...

Vilonodular synovitis in the dog: a report of four cases.

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

Share Four cases of vilonodular synovitis were diagnosed by histopathology. All four dogs were treated medically with either carprofen or a combination of carprofen and glucosamine complex (Cosquin). In three of the dogs the condition improved significan ...

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

Tafara Mapuvire¹, Erick Kandiva², Pricilla Mbirir³, Alaster Samkange⁴, Oscar Madzingira⁵ and Borden Mushonga⁶

¹Surgivet Veterinary Consultancy, Johannesburg, South Africa; ²Biomedical Sciences Department, School of Veterinary Medicine, Faculty of Agriculture and Natural Resources, Newdam Campus, University of Namibia, Windhoek, Namibia; ³Production Animal Clinical Studies Department, School of Veterinary Medicine, Faculty of Agriculture and Natural Resources, Newdam Campus, University of Namibia, Windhoek, Namibia; ⁴Department 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 stiffl CCL disease of the same joint, using the lateral tibial suture (LTS) 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 stiffl elicited severe pain. There were no other clinical or orthopaedic abnormalities. Orthogonal radiographs of the affected stiffl 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 arthroscopy, 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; lymphoplasmacytic; villonodular; proliferative; synovitis; stiffl; 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 cani mi ha emozionato. Civediamo GIOVEDÌ.GRAZIE



Thank you



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