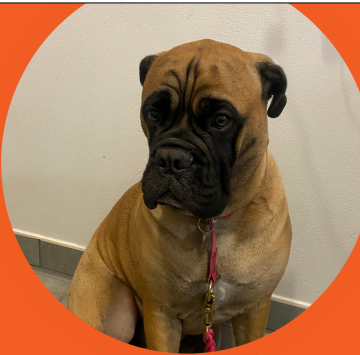


Why this dog is still lame six months after a trauma?

CASE DISCUSSION

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



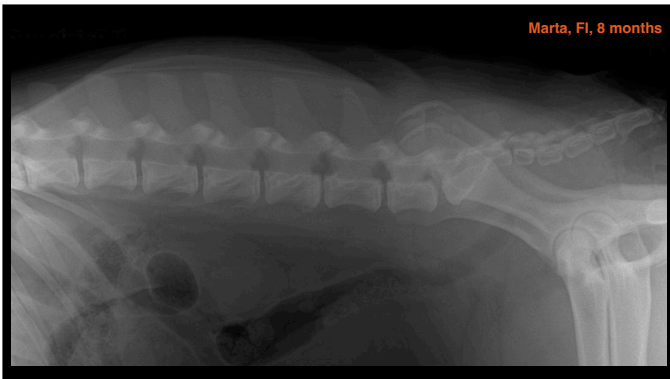
Thank to www.imaios.com

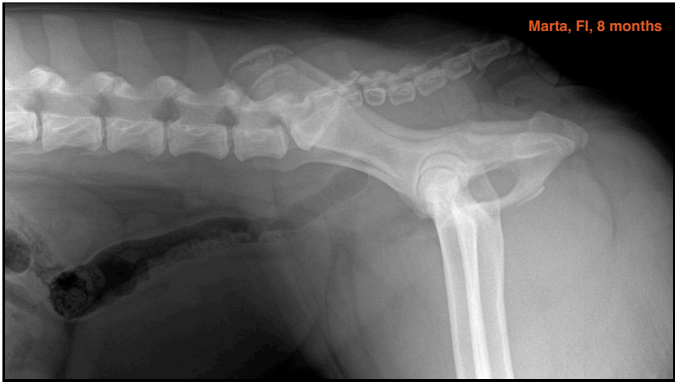
Marta, Bullmastiff, FI, 6 months

- After this trauma, subtle but progressive lameness in the right hind limb
- Not responding to NSAID
- Radiology performed at eight months of age

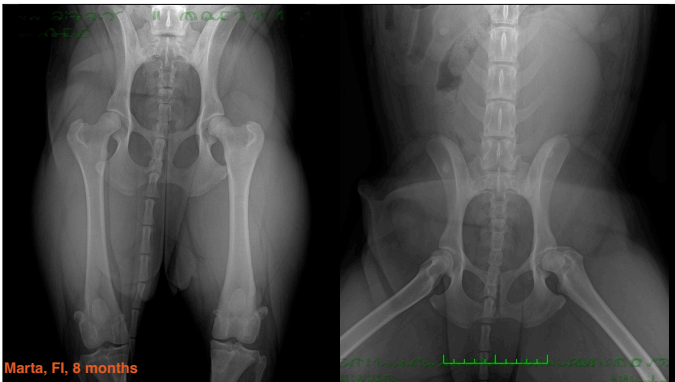


Marta, FI, 8 months





Marta, FI, 8 months

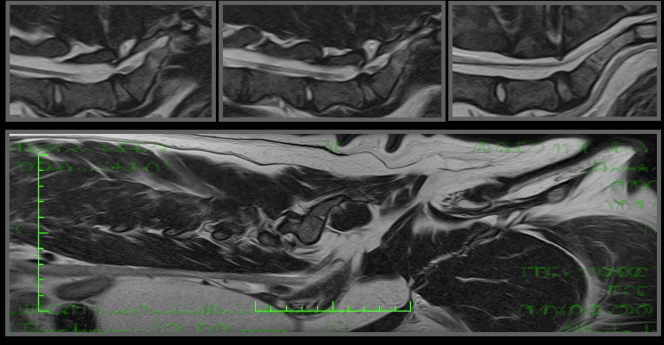


Marta, FI, 8 months

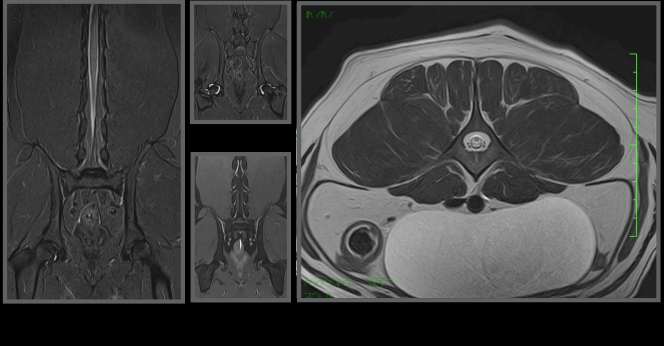
Marta, Bullmastiff, FI, 1 year

- Six months later still lame
- There is a "hole" on the right gluteal region
- Evident right hindlimb atrophy
- MRI performed

Marta, FI, 1 year



Marta, FI, 1 year



Marta, Bullmastiff, FI, 1 year

- Still lame
- Negative radiographs
- Negative MRI apart from right gluteal muscles atrophy



Marta, FI, 1 year



Marta, FI,
1 year

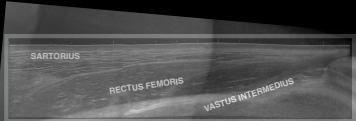
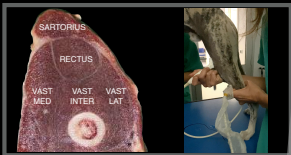
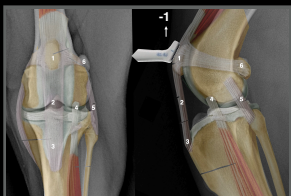


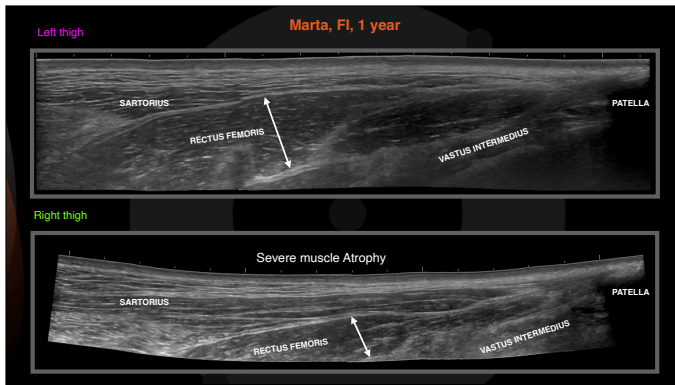
Marta, FI, 1 years

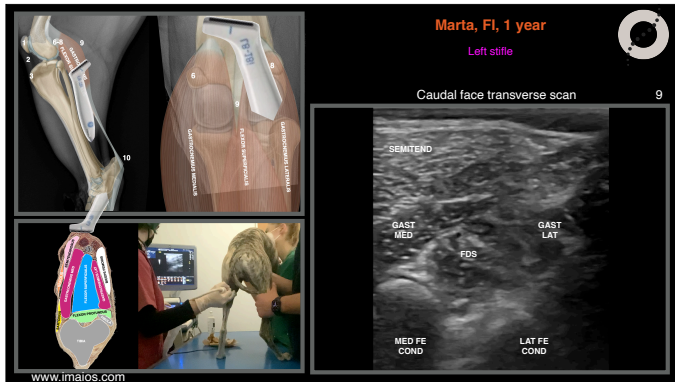
Right thigh

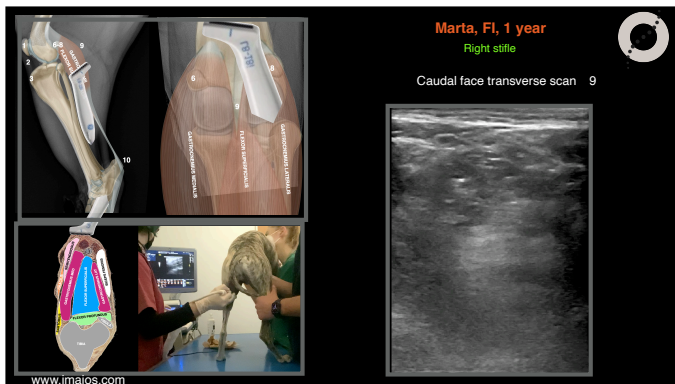
Cranial face longitudinal scan

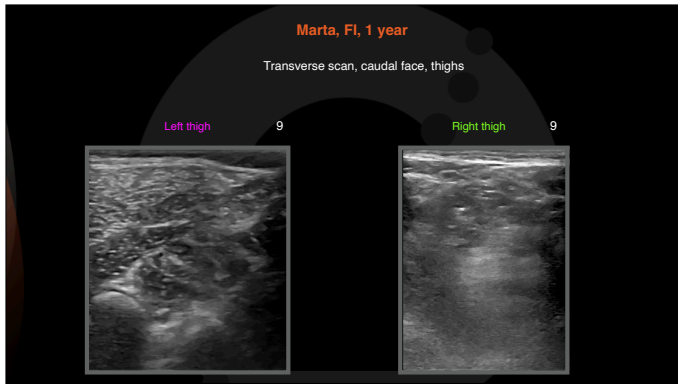
1-1

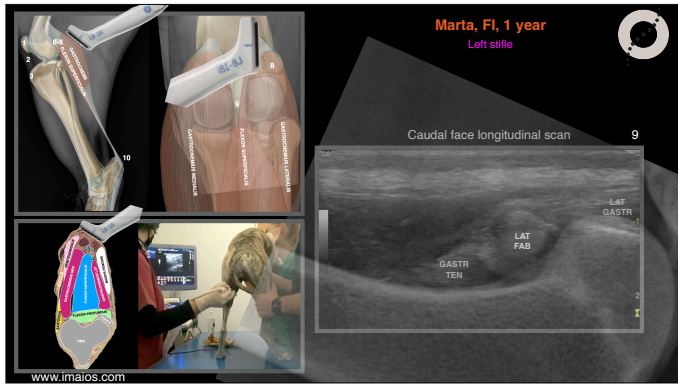


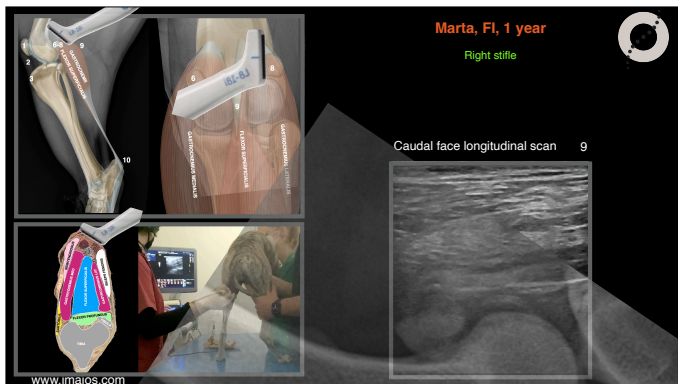




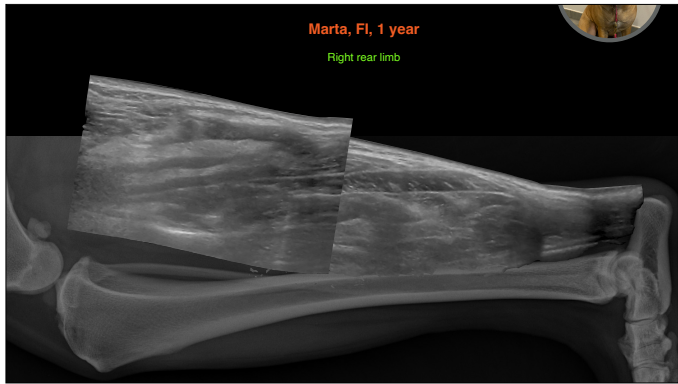


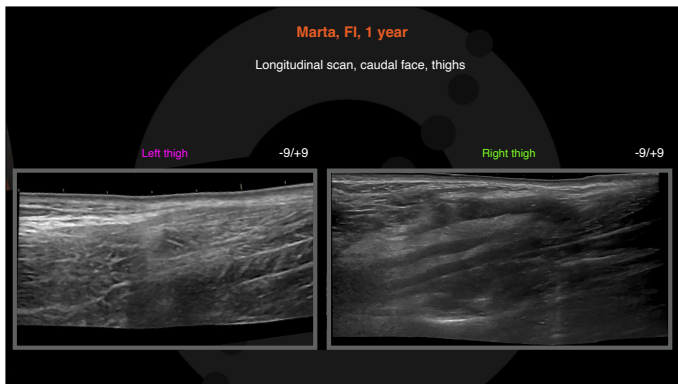












Your evaluation

- Is there tendonitis?
- Is there a ruptured muscle? Which one?
- Is there a not diagnosed fracture or luxation?



Marta, FI, 1 year

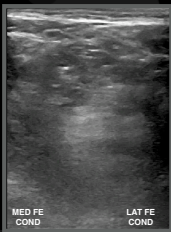
Transverse scan, caudal face, thighs

Left thigh

9

Right thigh

9



Marta, FI, 1 year

Longitudinal scan, caudal face, thighs

Hypochoic band,
loss of muscle structure

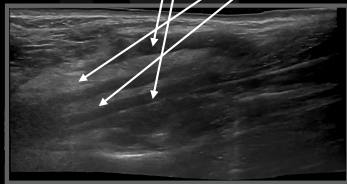
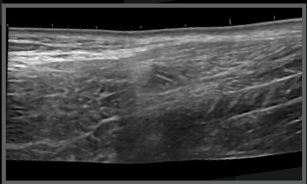
Scattering artifact

Left rear limb

-9/+9

Right rear limb

-9/+9



Marta, Bullmastiff, FI, 1 year

Ultrasonographic diagnoses:

- Suspected recurrent and acute rupture of the central portion of the right flexor digitorum muscle
- No ultrasonographic signs of scars or fibrosis



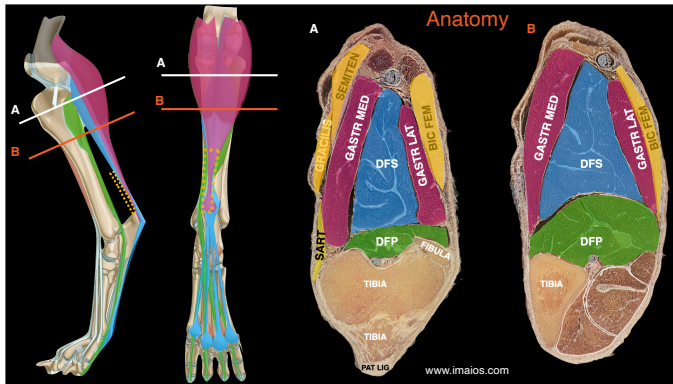
How to arrive to Conclusions:

- PE examination
- Blood works
- Ultrasonographic findings
- Literature



Literature

The screenshot shows a PubMed search results page for the query "flexor digitorum superficialis dog". The search bar at the top contains the query and a "Search" button. Below the search bar, there are filters for "1 results" and "Page 1 of 1". The results list includes several articles with their titles, authors, and publication details. The first article is titled "High-Resolution Ultrasonographic Anatomy of the Carpal Tendons of Sporting Blood Cocker" by Daniel M. Green, A. Barletti, Saverio A. De Santis, and S. Quattrone. The second article is "Gross and histological analysis of healing after dog flexor tendon repair with the Tensolix fibroglue" by So. Park, S. G. Park, H. Park, M. S. Park, and M. S. Park. The third article is "The mechanical properties of the flexor digitorum superficialis tendon after repair with the Tenolix fibroglue" by So. Park, S. G. Park, H. Park, M. S. Park, and M. S. Park. The fourth article is "Angiogenesis in healing autogenous flexor tendon grafts" by S. Quattrone, M. S. Park, H. Park, M. S. Park, and M. S. Park.



Marta, Bullmastiff, FI, 1 year

Conclusions:

- Recurrent rupture of the right flexor superficialis muscle
- Advised to discuss the case with a sports medicine specialist
- Follow up in three months

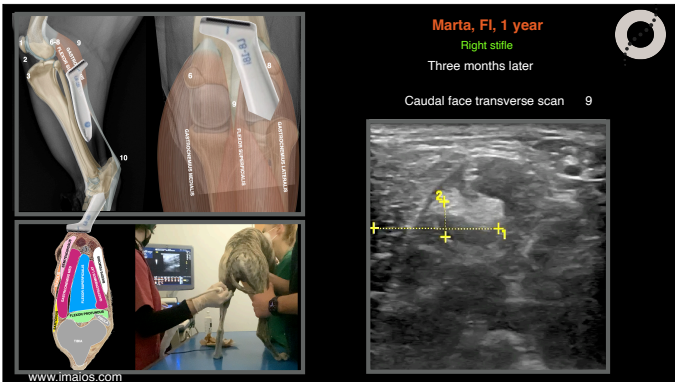


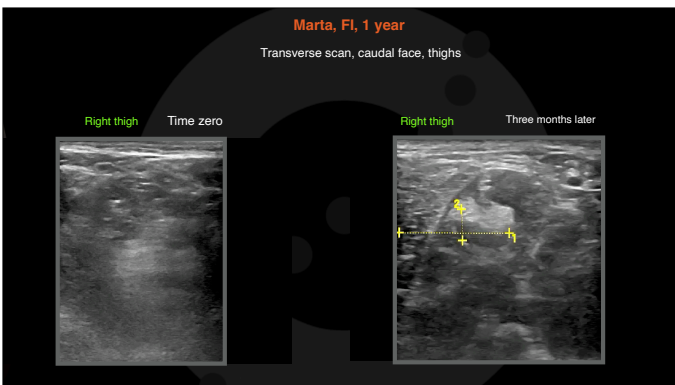
Marta, Bullmastiff, FI, 15 months

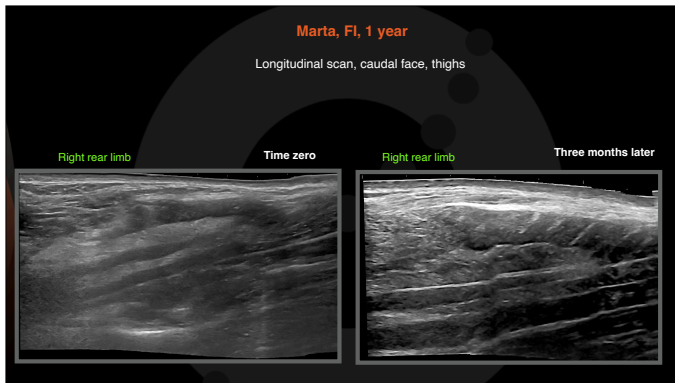
- Not lame but persistent right side mild muscle atrophy
- More active and happy
- One episode of acute lameness after playing for three hours with a puppy

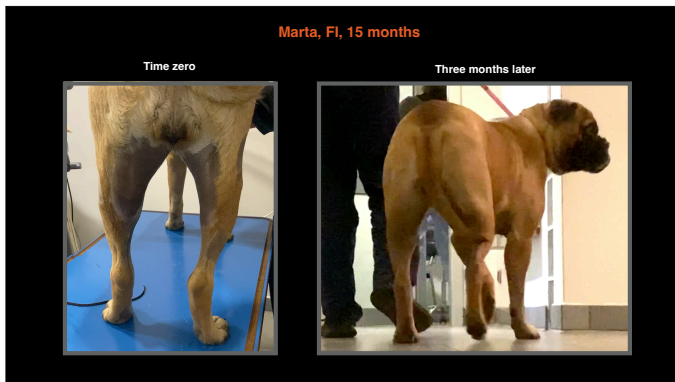


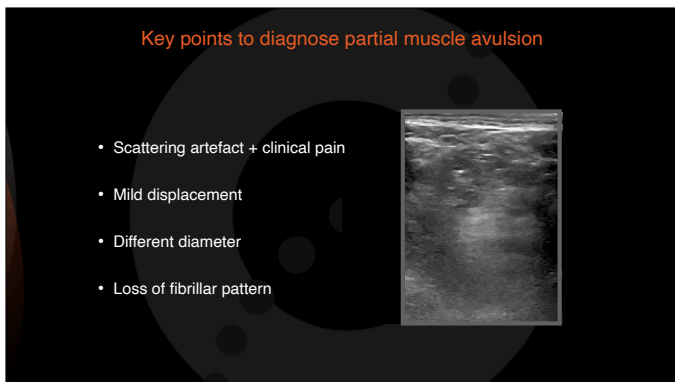












Marta, Bullmastiff, FI, 24 months

- She won her first beauty contest
- Nothing abnormal was detected



Mollie, Bearded Collies, FS, 6 years

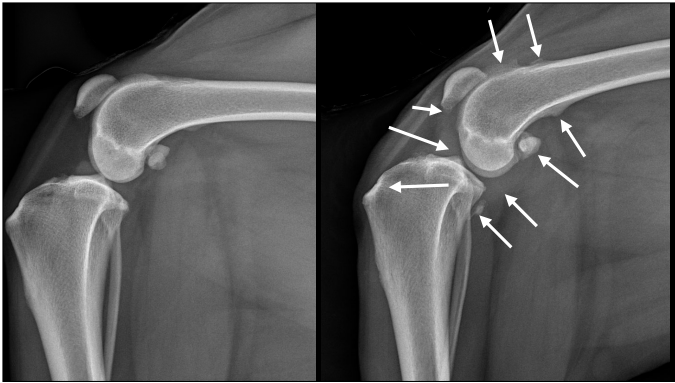
- After playing with friends, toe touching lame left hindlimb
- She was lame for three days four months ago, same limb, responded well to NSAD
- This time still lame one week later and is only minimally responding to NSAD

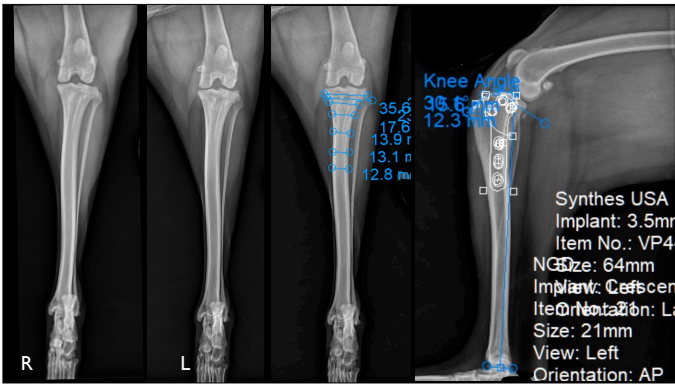


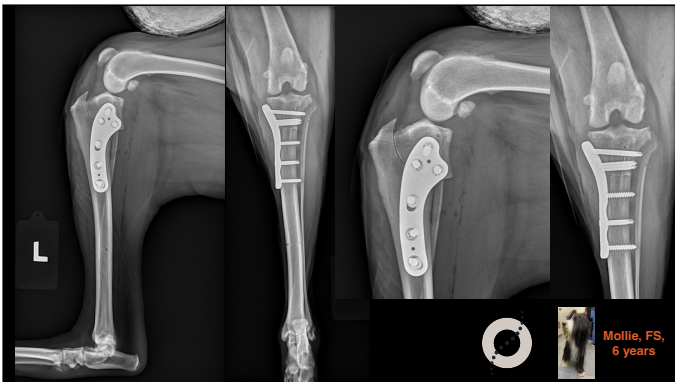
Mollie, Bearded Collies, FS, 6 years

- Positive drawer sign left hindlimb on PE
- Thickened left stifle
- No other evident complains
- Today sedation and radiographs
- Unremarkable spine and hip joints





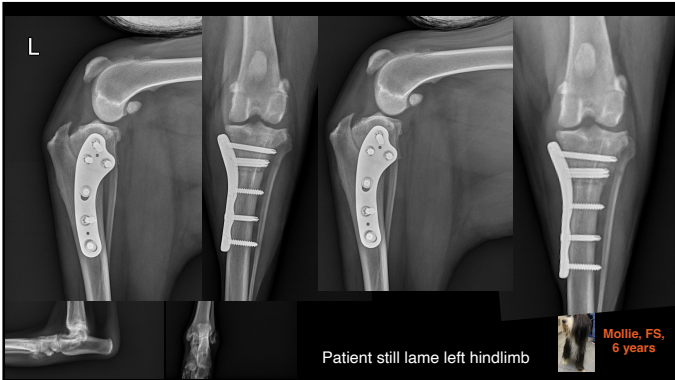






Patient still lame left hindlimb

Mollie, FS,
6 years



Patient still lame left hindlimb

Mollie, FS,
6 years

Mollie, Bearded Collies, FS, 6 years

- Satisfactory healing of the left TPLO
- Patient still lame especially when running
- Toe touching when standing
- Otherwise healthy

Next step:

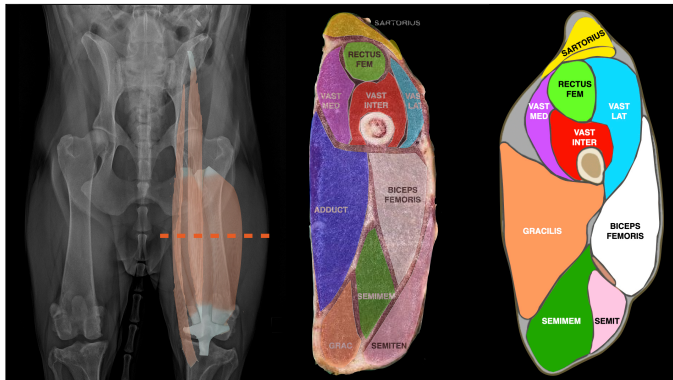


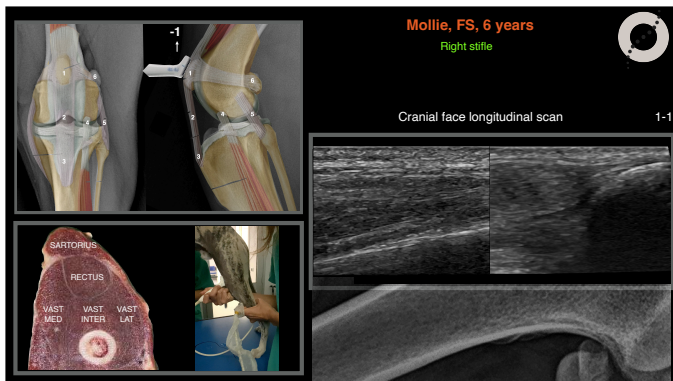
Mollie, Bearded Collies, FS, 6 years

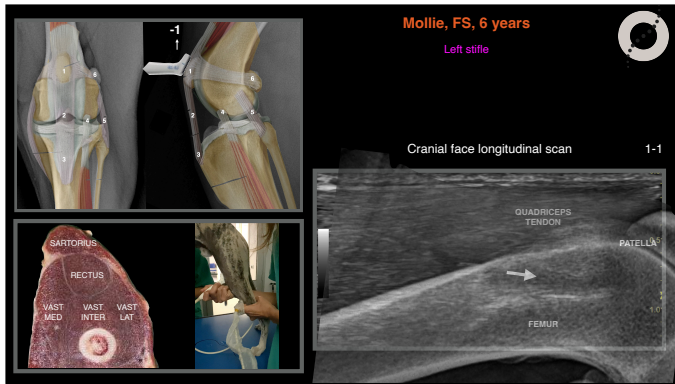
Next step:

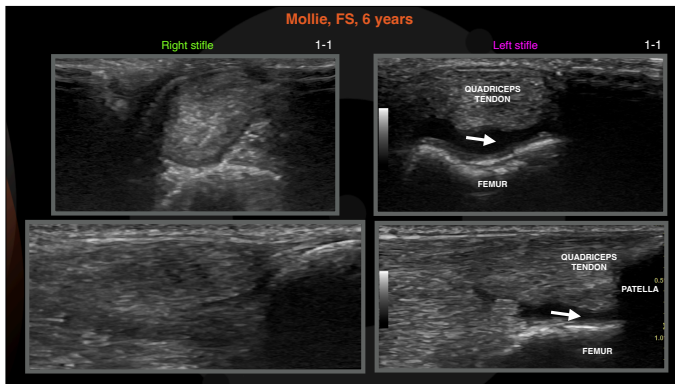
- Blood works to rule out systemic inflammation/ check for infection/infective disease
- Synovial cytology/culture
- PE under anaesthesia - CdCr - Meniscus
- Arthroscopy
- More imaging
 - MRI
 - US

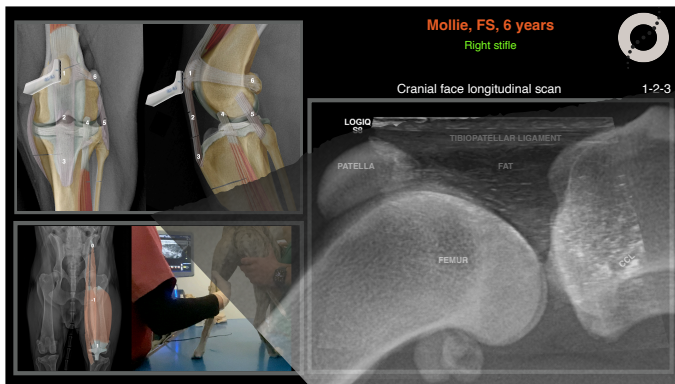


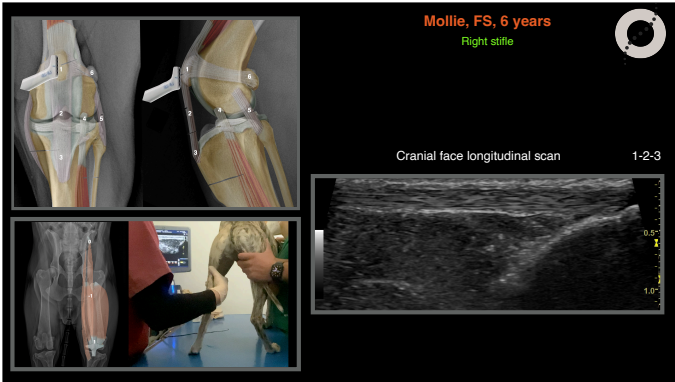


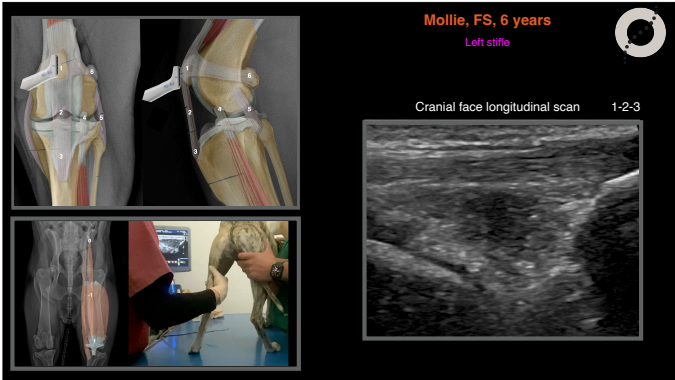


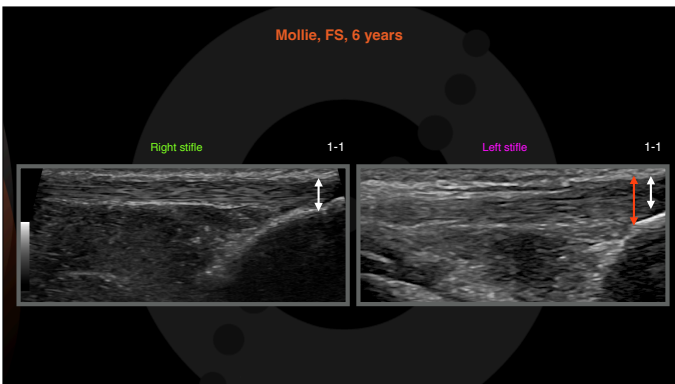


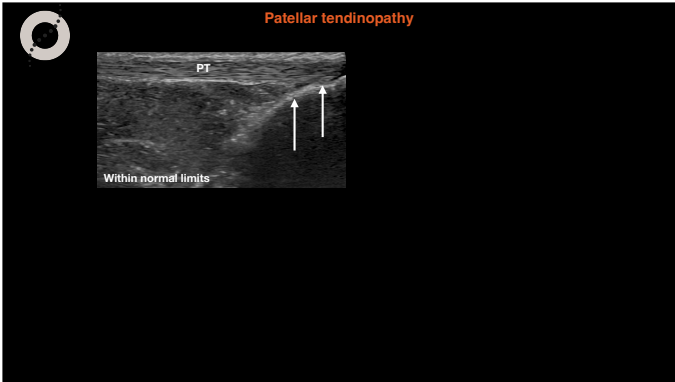


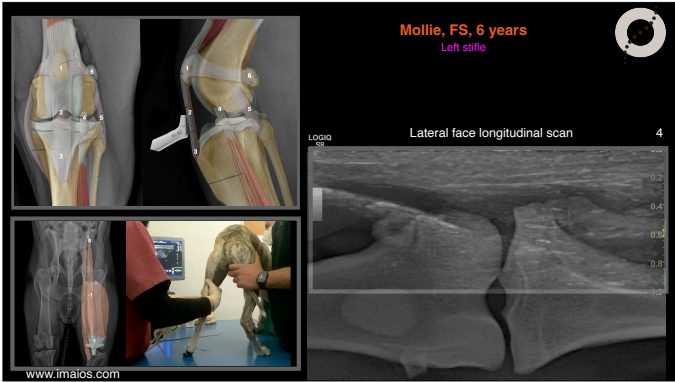


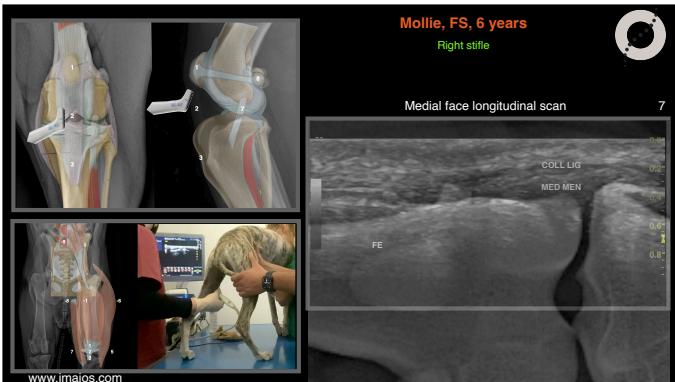


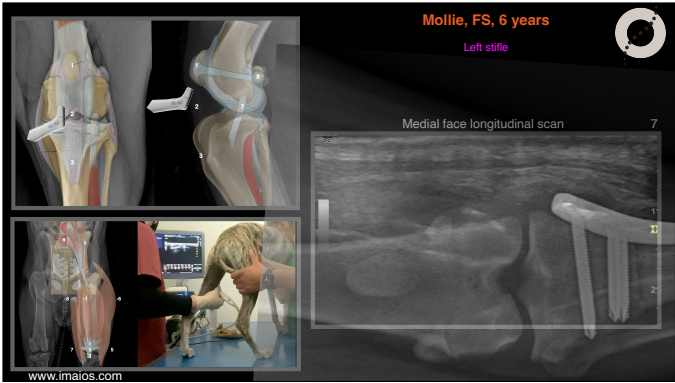


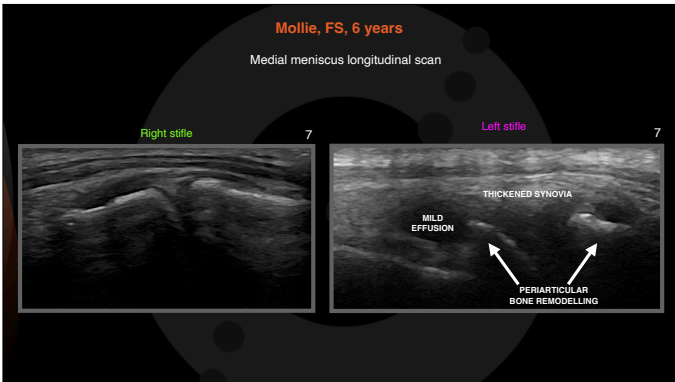


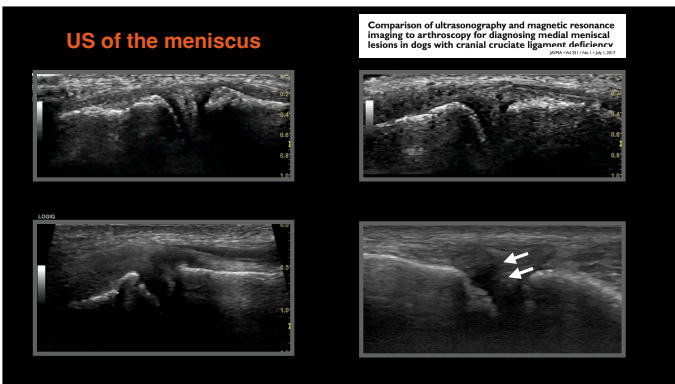


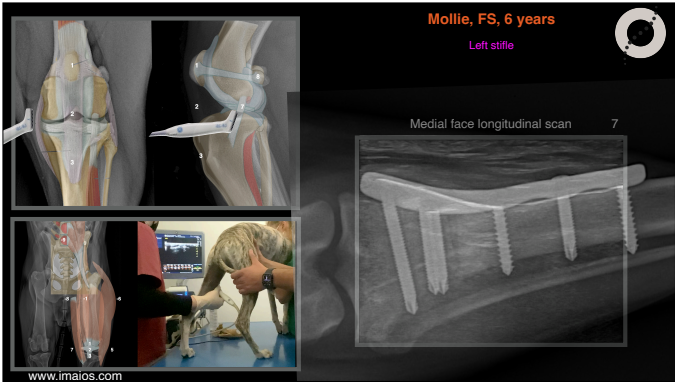


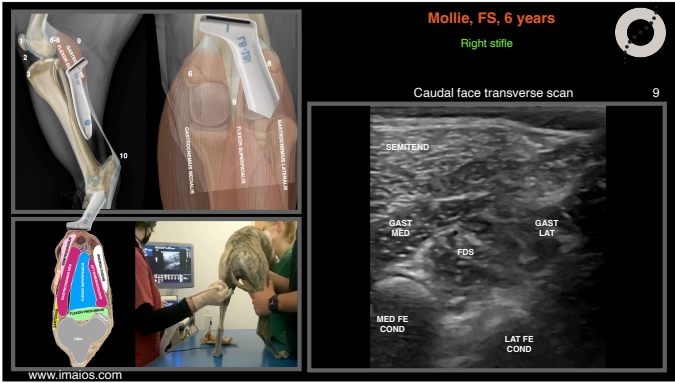


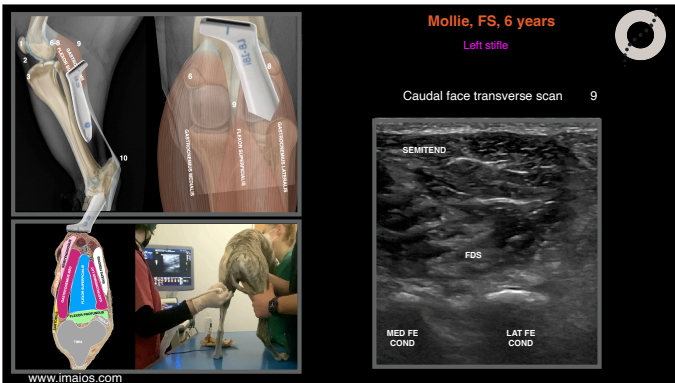


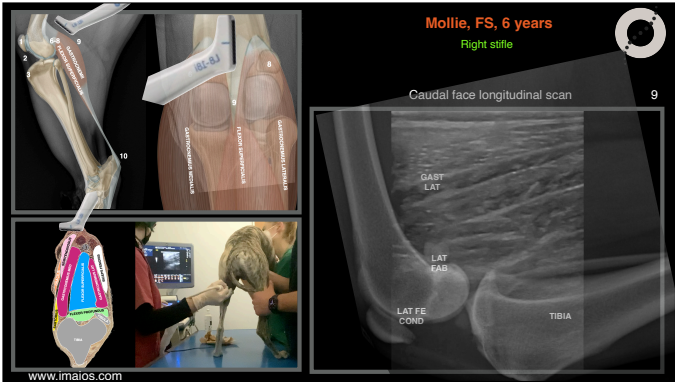


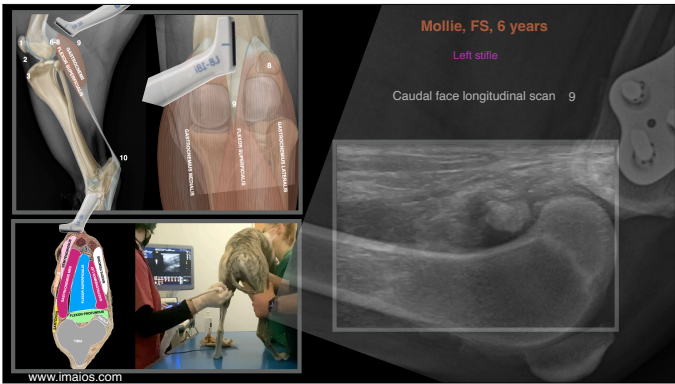


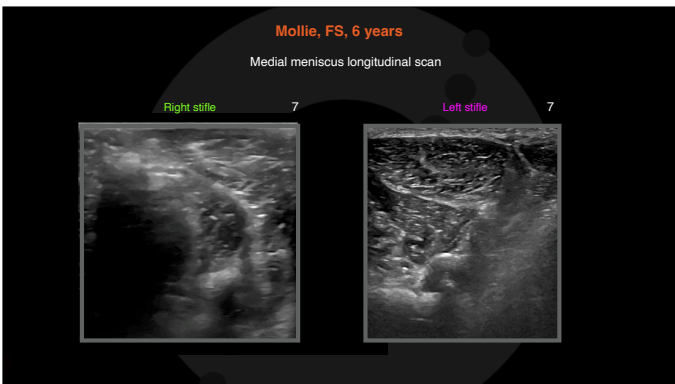












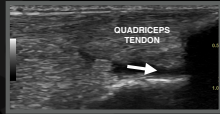
Mollie, FS, 6 years

Ultrasonographic diagnoses:

- Left quadriceps peritendineous effusion
- Thickened left tibio-patellar ligament
- Irregular and thickened synovia left stifle
- Effusion and inflammation of the left lateral fabella

Conclusions

Check the distribution of the forces!



Thank you



Diagnostic Mindset

www.diagnosticmindset.com
