

The ultrasound examination of the supraspinatus fossa

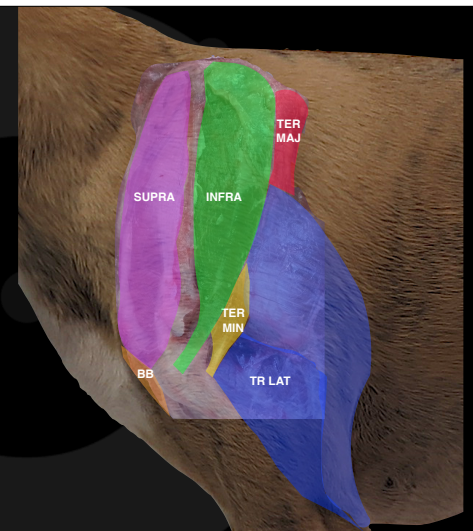


Thank to www.imaio.com

Giliola Spattini
DVM, PhD, DECVDI

Gross anatomy of the shoulder

- Deltoideus
- **Infraspinatus**
- **Teres Major**
- **Triceps**
- **Supraspinatus**
- **BB**
- **Teres Minor**



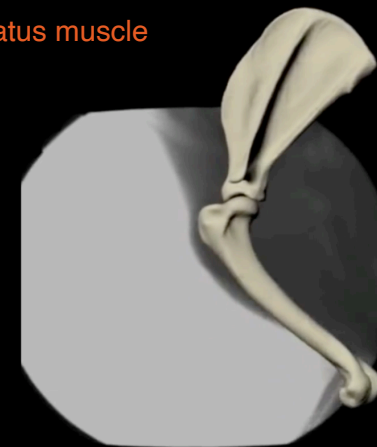
The supraspinatus muscle

- Carries the weight of the head
- Fibro-cartilaginous aponeurosis
- Low pain receptors density



The supraspinatus muscle

- Stop the humer from displacing cranially
- Carry the weight of the head





Cin, Greyhound, FS, 10 years

- She ran against the door three days ago
- Since then, third-degree lameness left front limb
- Mild improvement on NSAID and pain killers

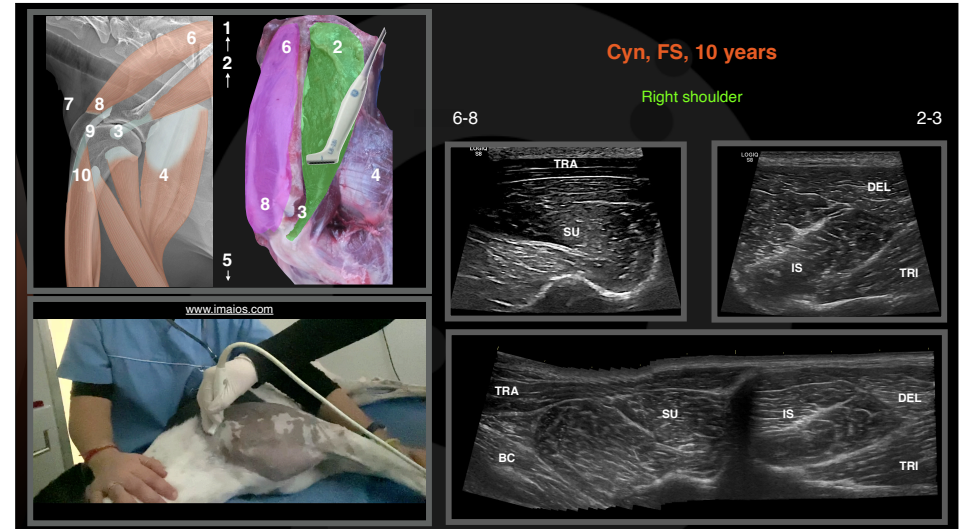
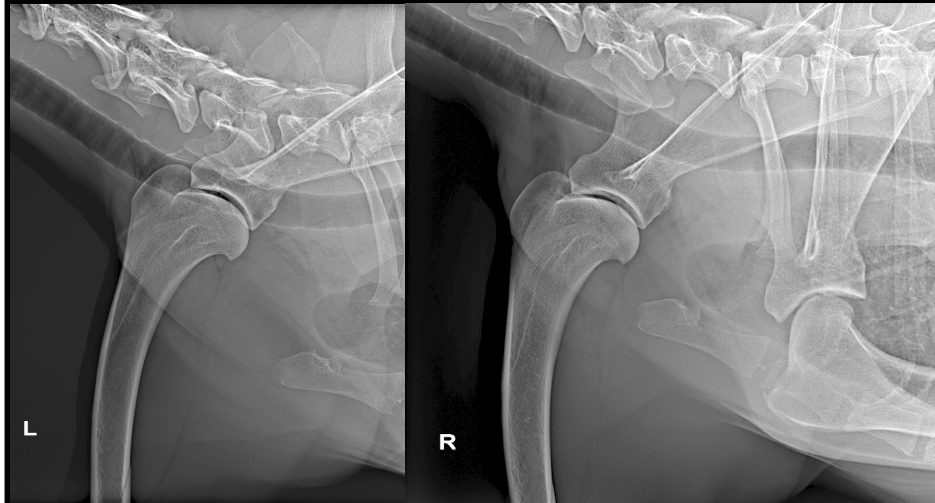


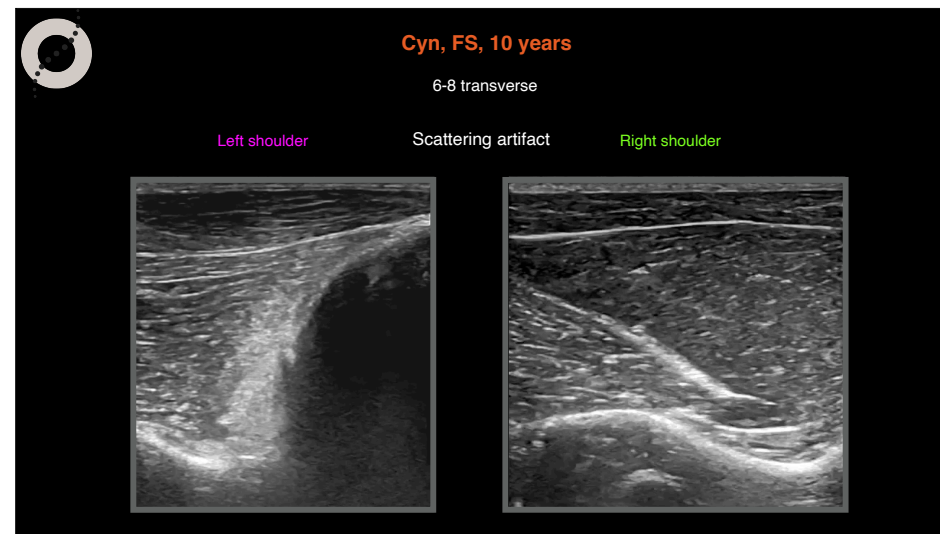
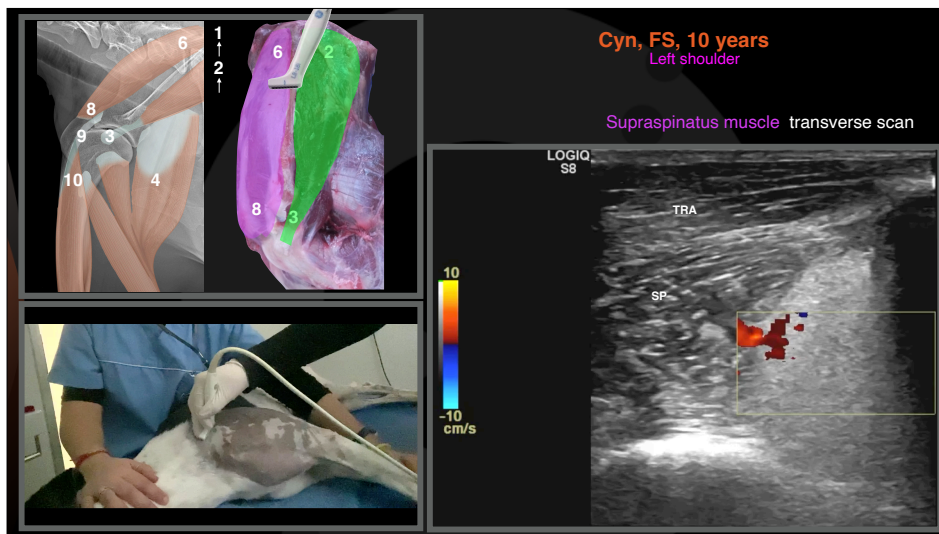
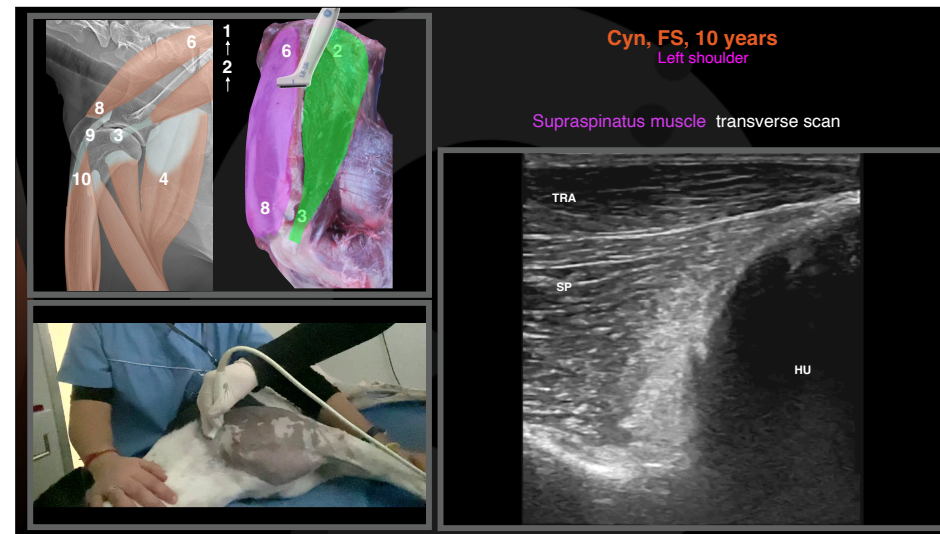
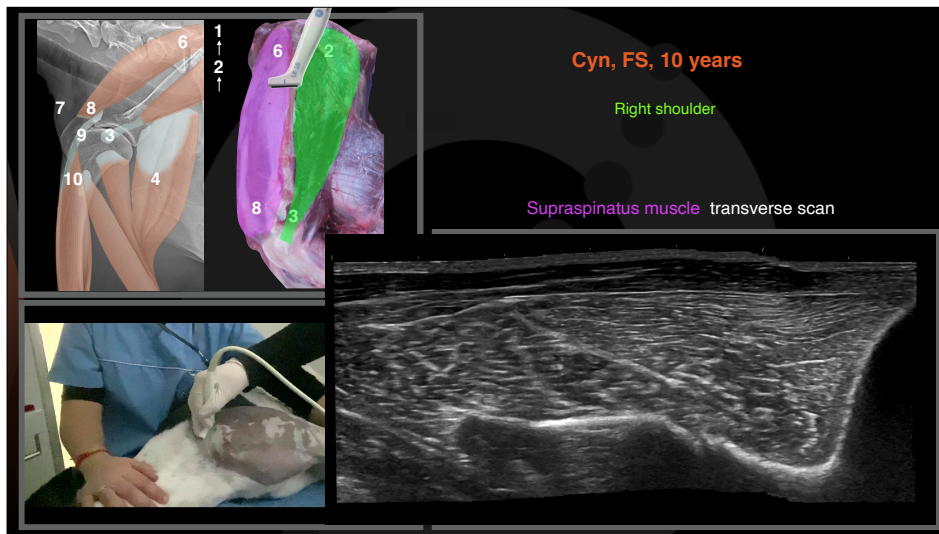
Cin, Greyhound, FS, 10 years

- She cries if touched
- Neurologic problem?
- Not possible to localise the pain



Cyn, FS, 10 ys



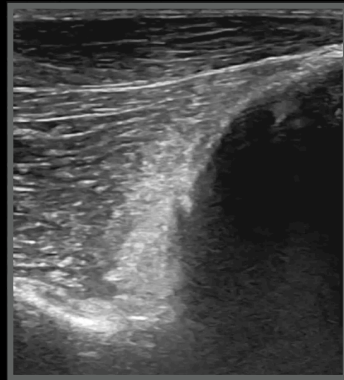




Cin, Greyhound, FS, 10 years

Ultrasonographic diagnoses:

- Focal area of scattering artefact left supraspinatus
- Possible chip fracture of the spine of the left scapula
- Suspected sub-acute muscle contusion



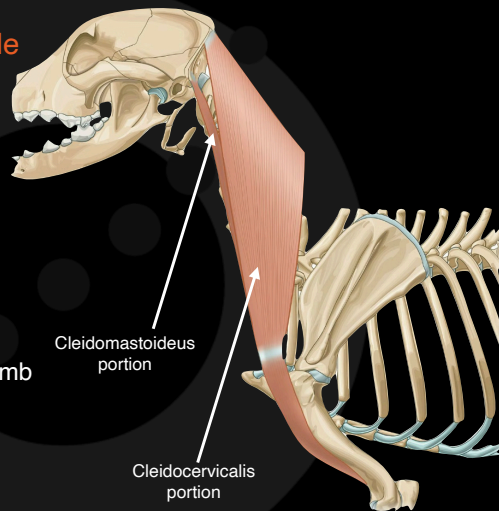
Cin, Greyhound, FS, 10 years

- Local treatment
- Immediately better
- Recovered after one week



The brachiocephalicus muscle

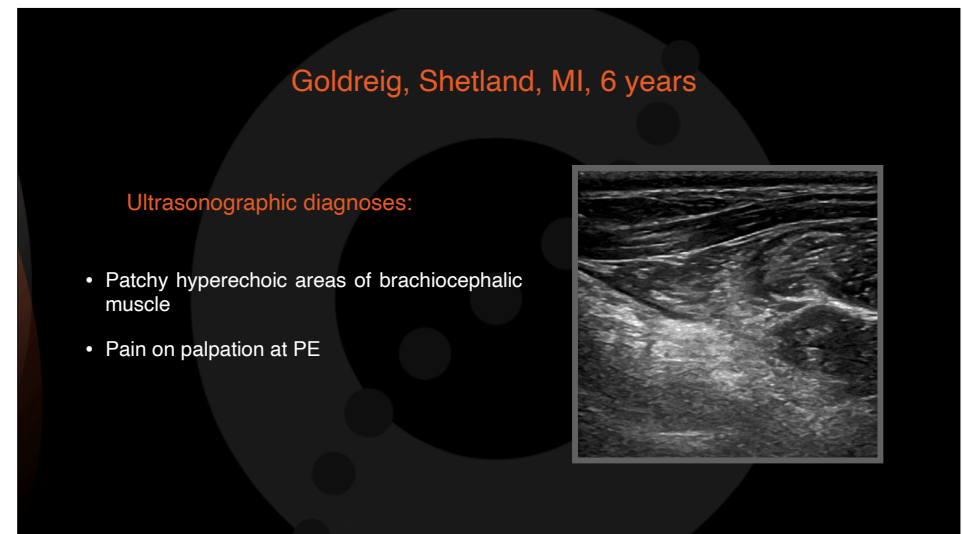
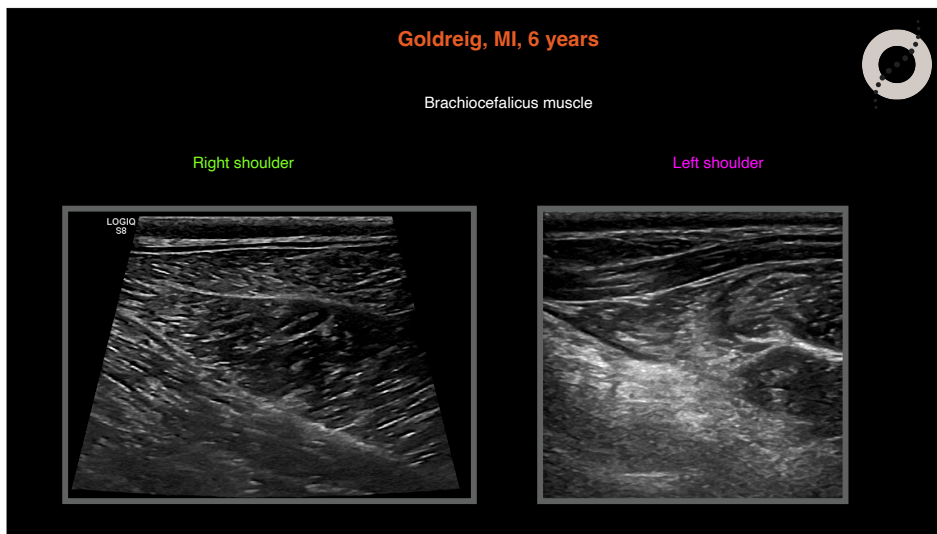
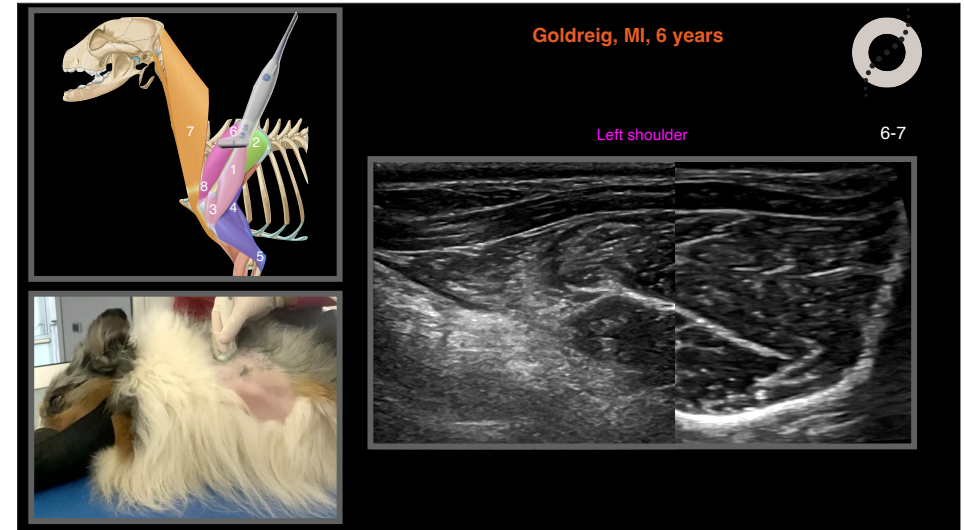
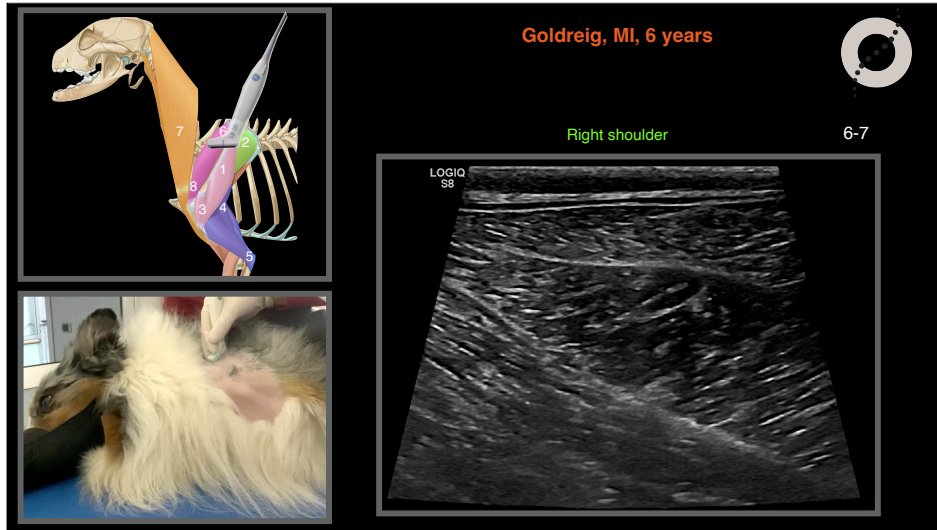
- Contains the clavicle
- Connect the head and the front limb



Goldreig, Shetland, MI, 6 years

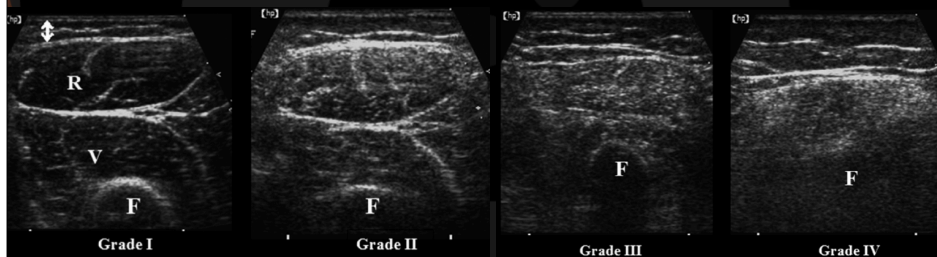
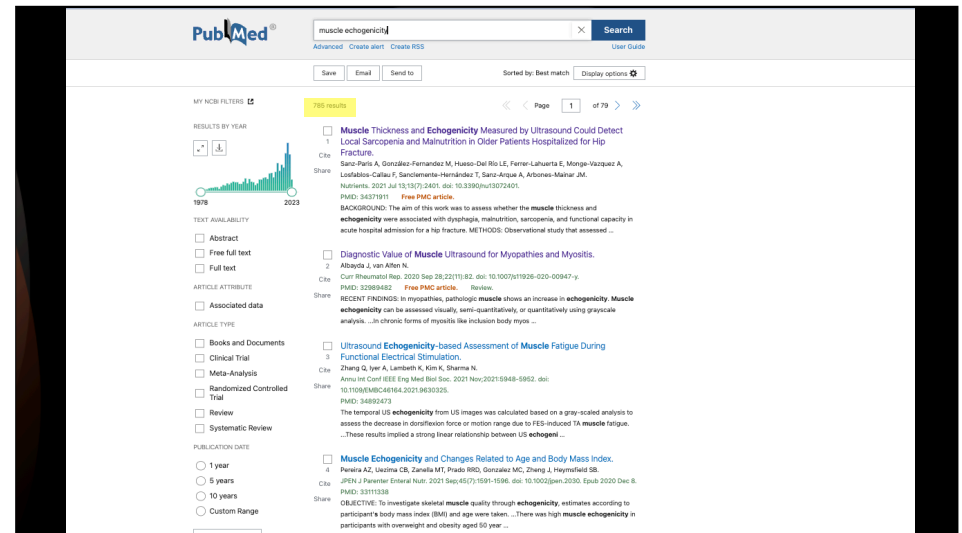
- After one training session, "seems painful"
- He tried to bite when the left side of his neck was touched
- Minimal improvement with NSAID
- Negative radiographic study





How to arrive to Conclusions:

- PE examination
- Blood works
- Ultrasonographic findings
- Literature



Goldreig, Shetland, MI, 6 years

- Two months of physiotherapy and massage
- Seems fine but He is not back to sport

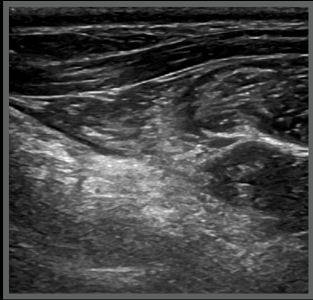


Goldreig, MI, 6 years

Brachiocephalicus muscle

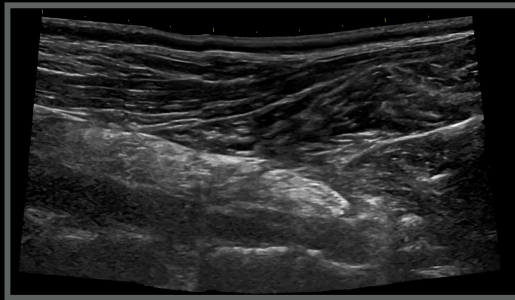
Left shoulder

Time 0



Left shoulder

Two months later

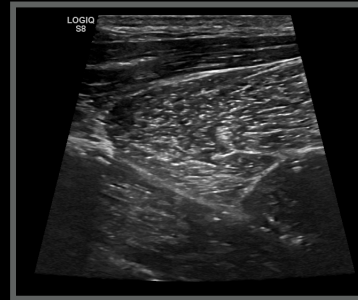


Goldreig, MI, 6 years

Brachiocephalicus muscle

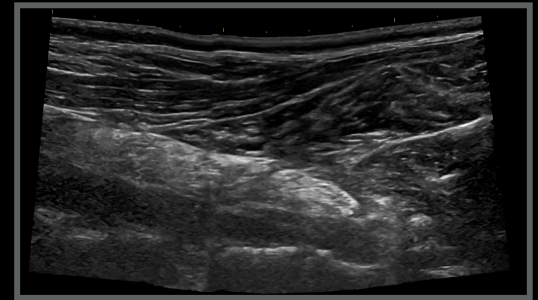
Right shoulder

Two months later



Left shoulder

Two months later

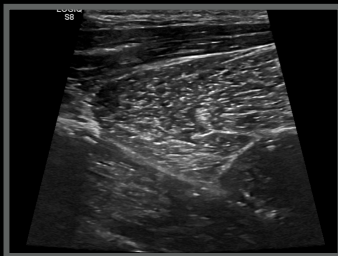


Goldreig, MI, 6 years

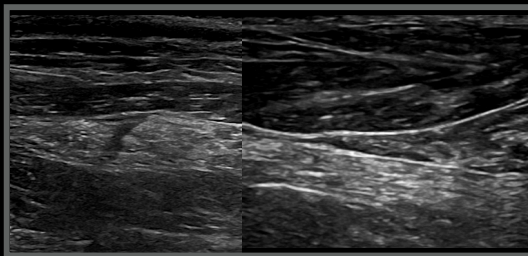
Brachiocephalicus muscle

Right shoulder

Six months later



Left shoulder

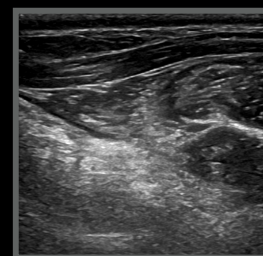


Goldreig, MI, 6 years

Brachiocephalicus muscle

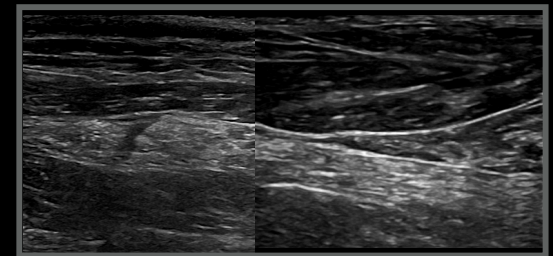
Left shoulder

Time 0



Left shoulder

Six months later



Goldreig, Shetland, MI, 6 years

- Chronic fibrosis/contracture?
- Chronic overuse soreness?



Thank you



Diagnostic Mindset

www.diagnosticmindset.com