

Cases Discussion

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Diagnostic Mindset



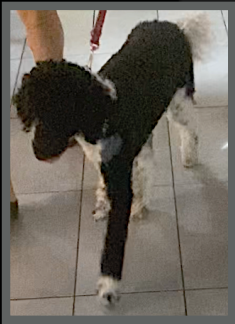
Thank to www.imaios.com

Tia, Poodle, FI, 14 months

- The owner thinks that the dog walks “funny”
- Quite for a puppy
- Difficult standing in the morning
- First consultation diagnoses hip dysplasia
- Second consultation disagreed



Tia, FI, 14 months



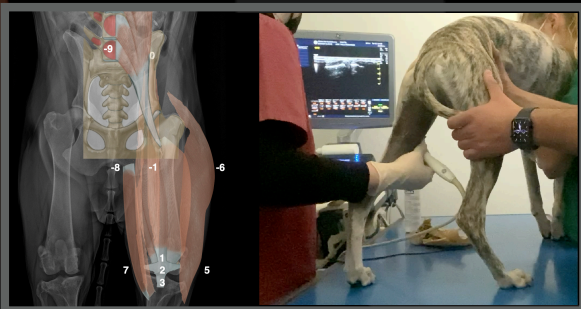
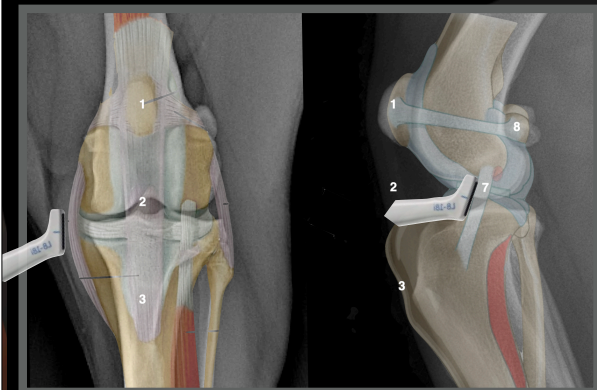
Tia, FI, 14 months

Right stifle

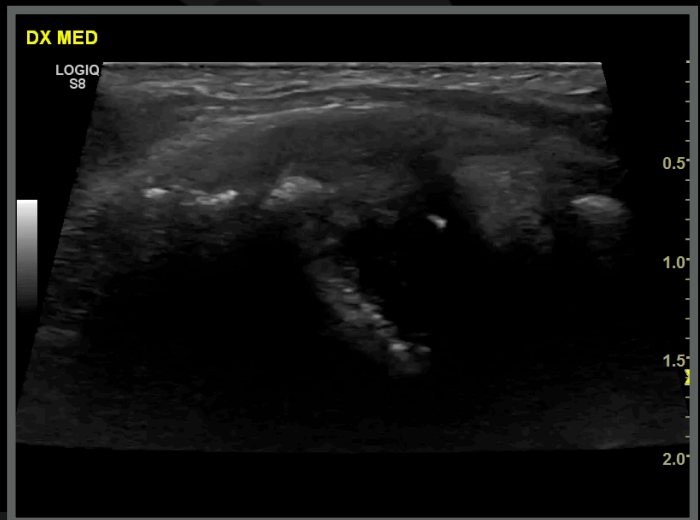


Medial face longitudinal scan

7



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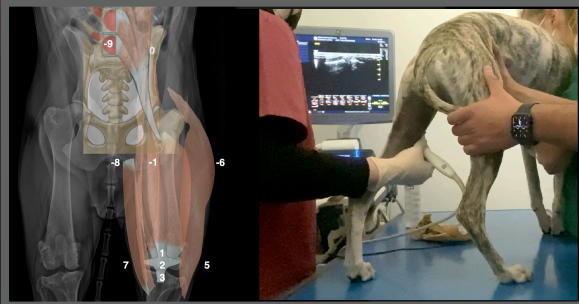
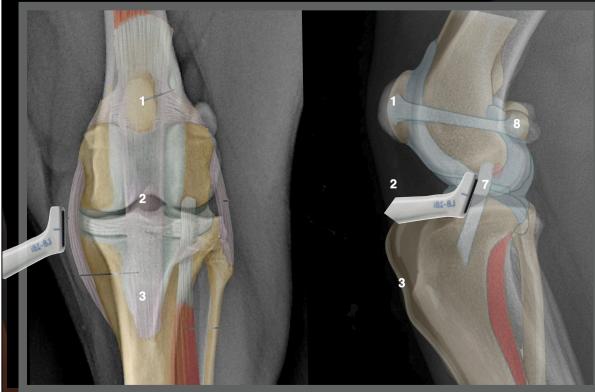
Tia, FI, 14 months

Left stifle



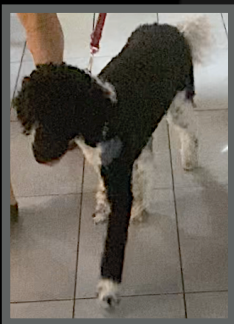
Medial face longitudinal scan

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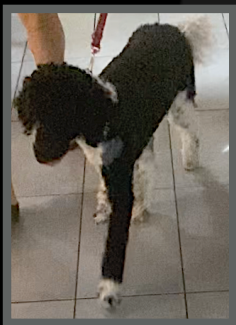
Tia, FI, 14 months



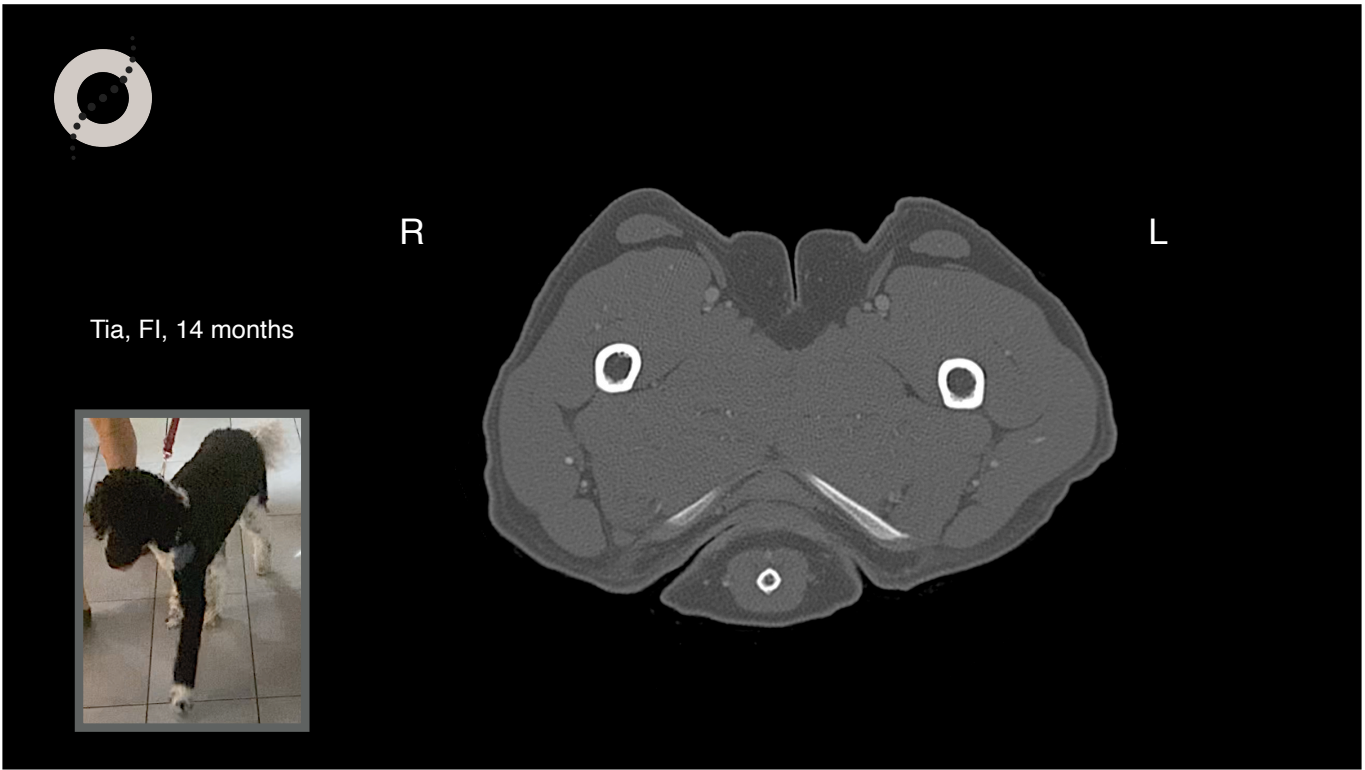
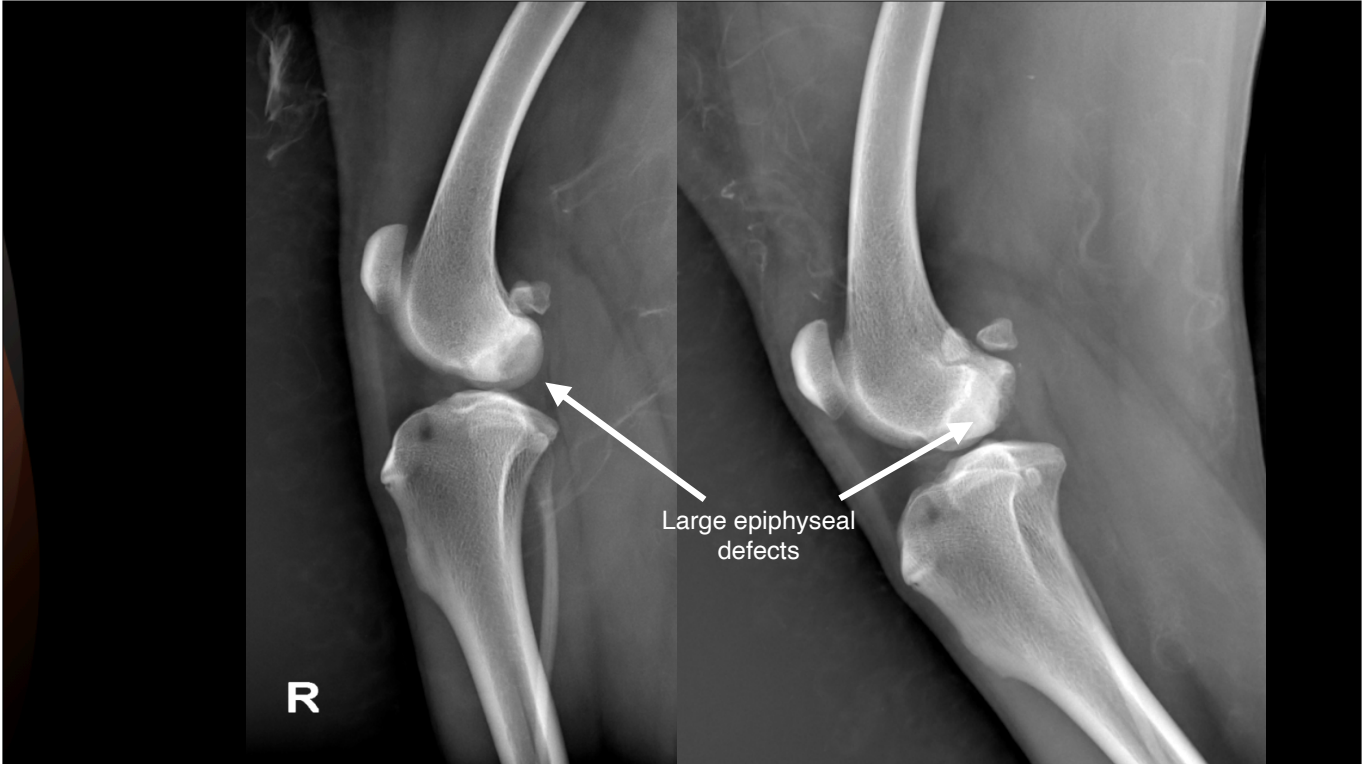
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Tia, FI, 14 months



Your evaluation?



Treatment of Osteochondrosis Dissecans of the Canine Stifle Using Synthetic Osteochondral Resurfacing

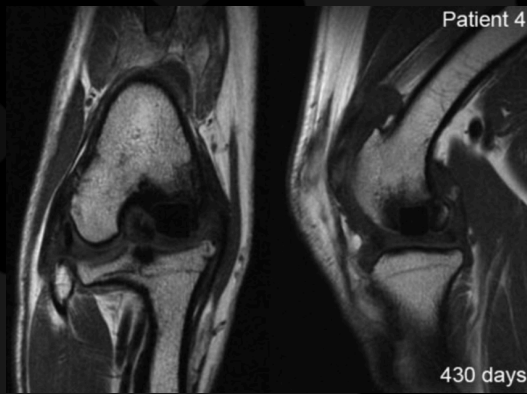
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Vet Comp Orthop Traumatol 2018;31:144–152.



Tia, Poodle, FI, 14 months

- Bilateral and severe stifle OC
- Partial stifles prosthesis installed

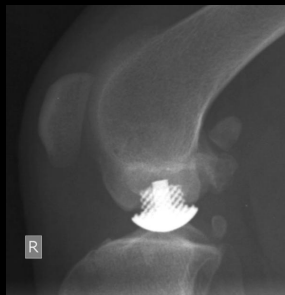
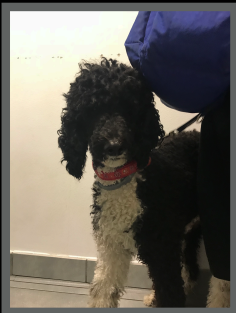


Tia, Poodle, FI, 24 months

- Control
- She is doing fine

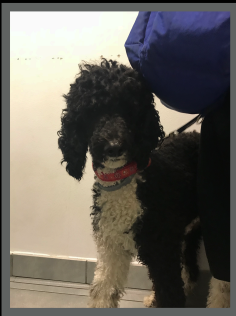


Tia, FI, 24 months





Tia, FI, 24 months



Tia, Poodle, FI, 5 years

• Still doing fine!



Ginevra, Whippet,
FI, 5 years

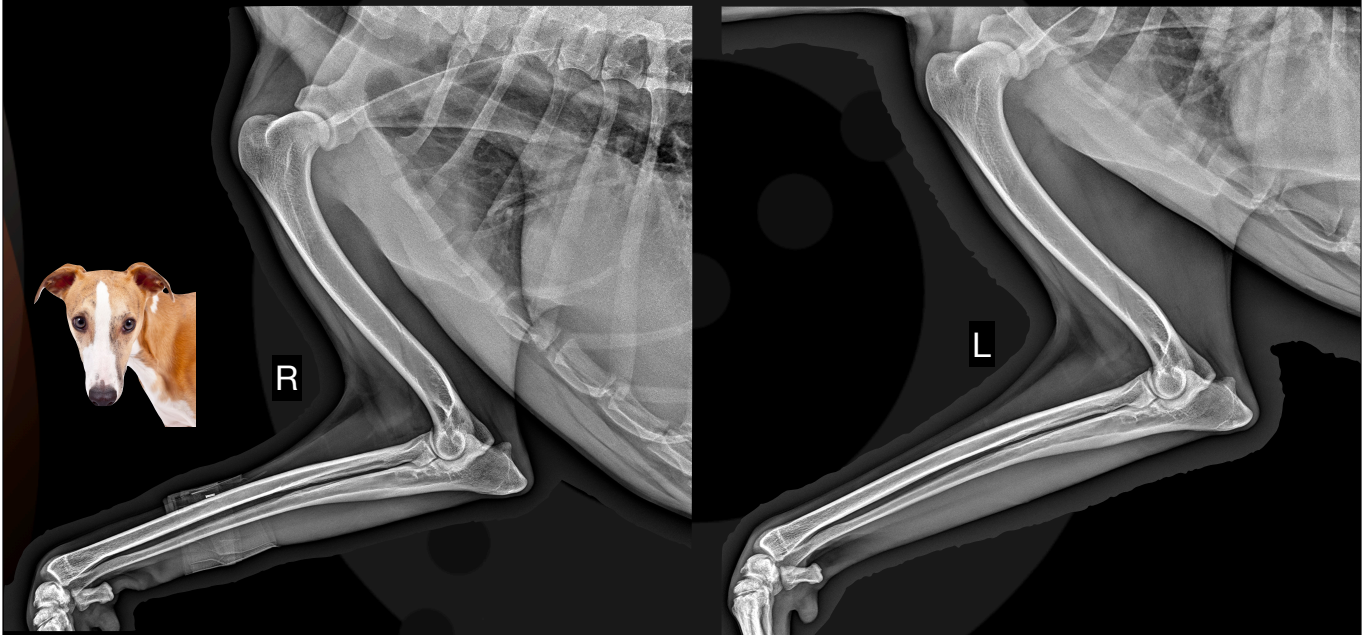
- Right stifle swinging lameness last three months
- Resolved with NSAID
- Relapse when medication is stopped
- Radiographs performed: suspected ruptured CCL



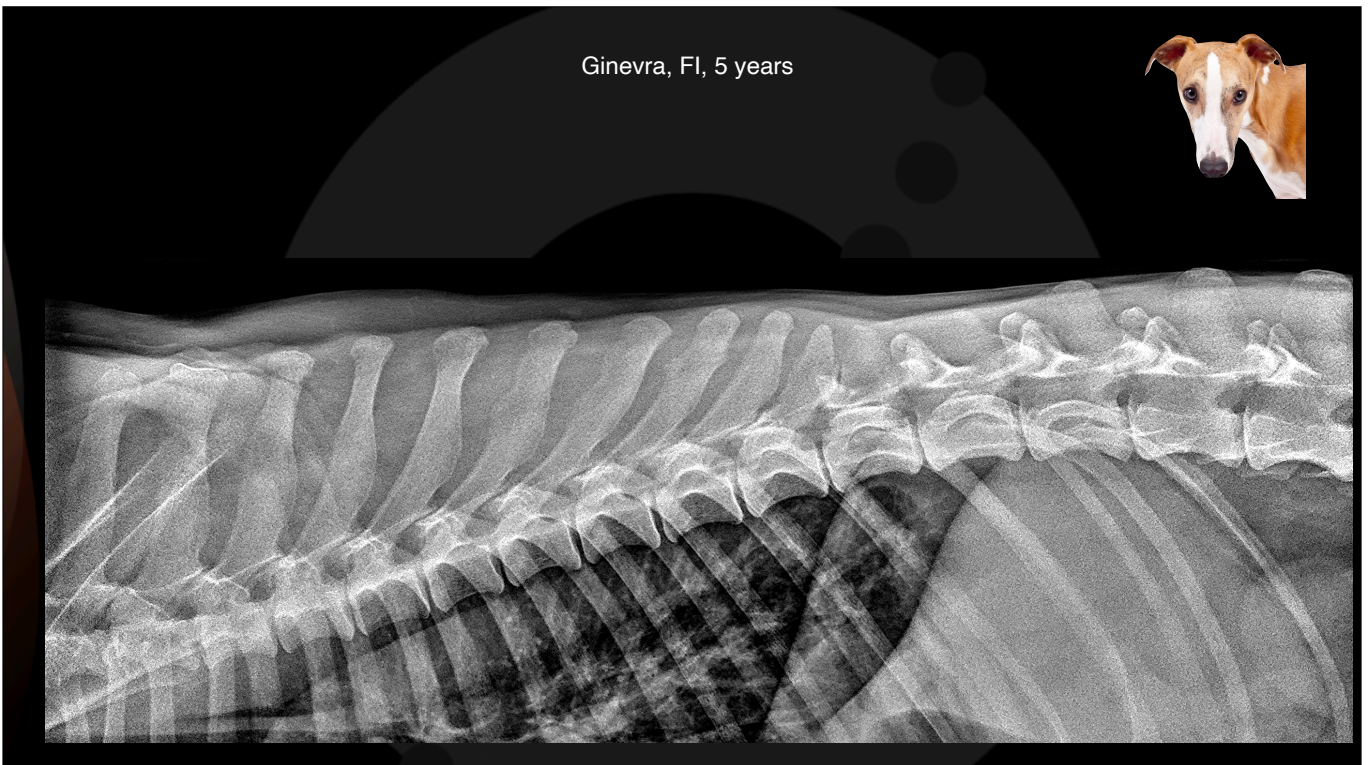
Ginevra, FI, 5 years



Ginevra, FI, 5 years

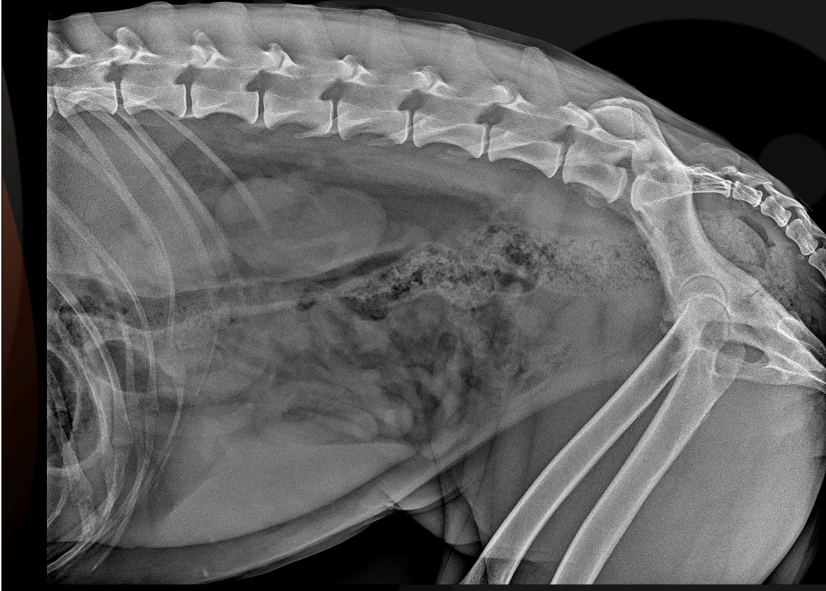


Ginevra, FI, 5 years





Ginevra, FI, 5 years



Ginevra, FI, 5 years



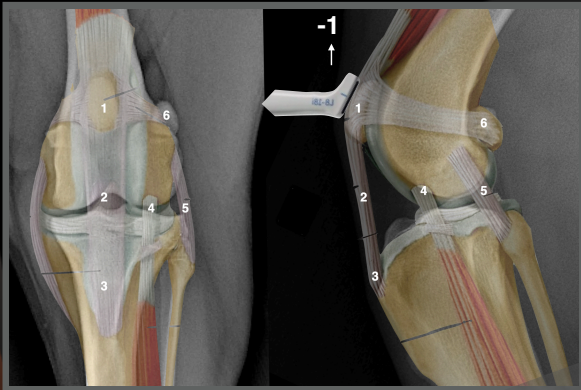
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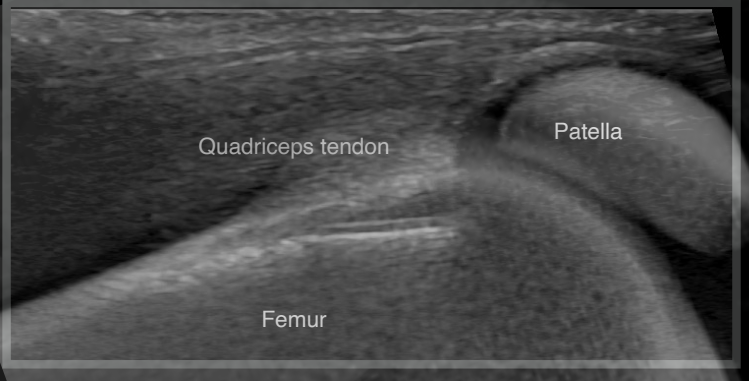
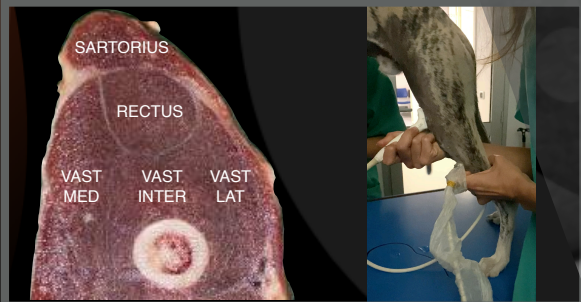


Normal Anatomy



Cranial face longitudinal scan

1-1

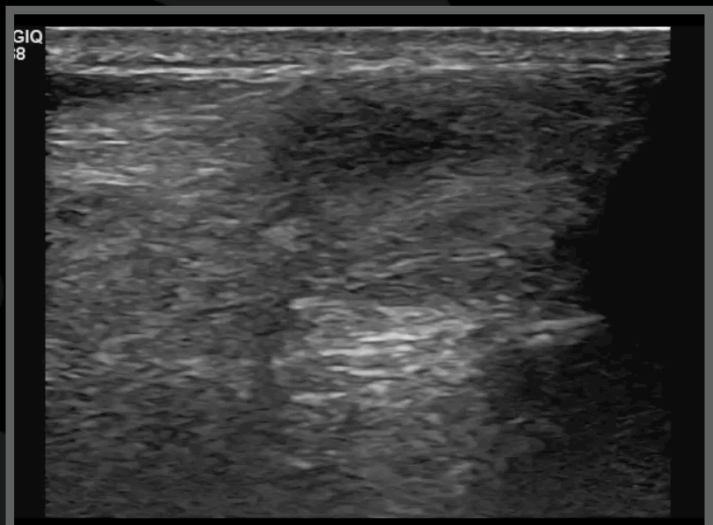
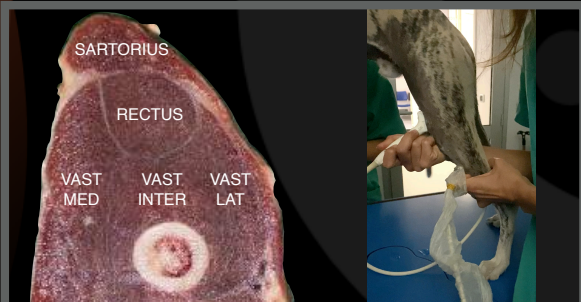
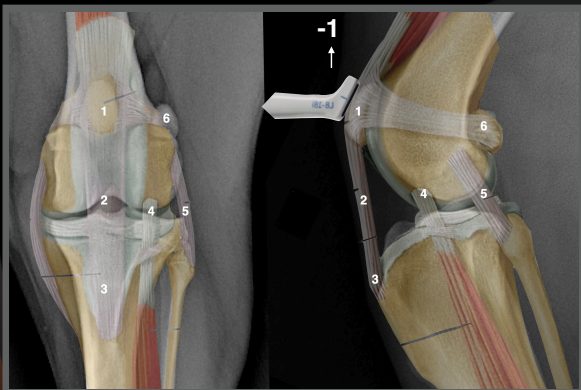


Ginevra, FI, 5 years



Right stifle

1-1

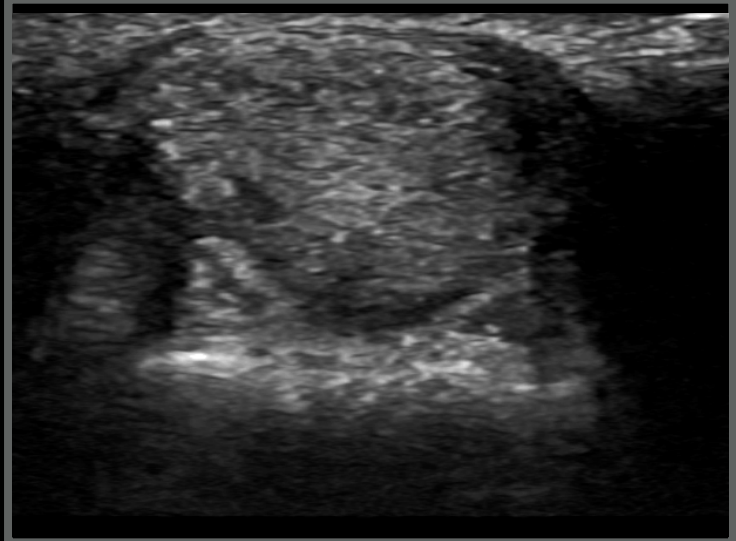
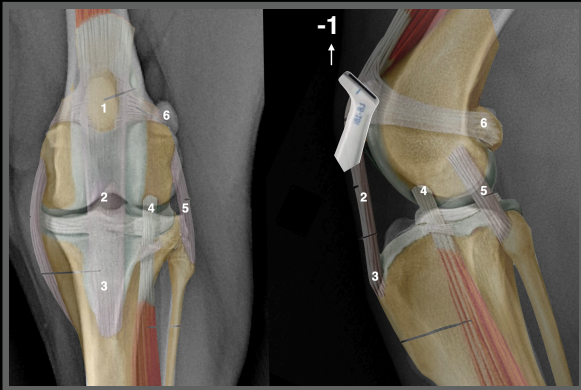


Normal anatomy



Cranial face transverse scan

1-1



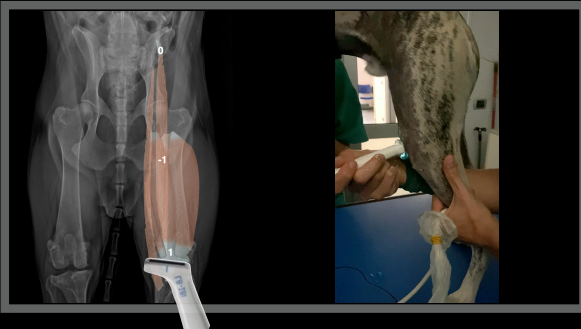
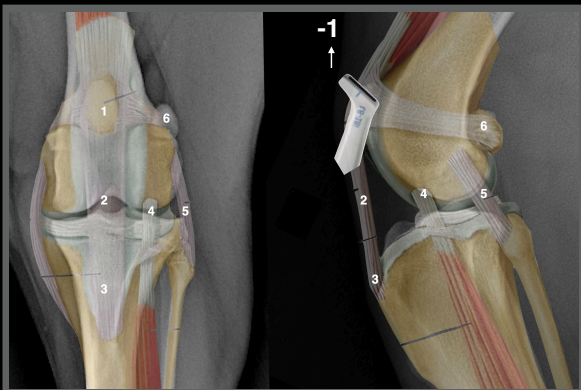
Ginevra, FI, 5 years



Right thigh

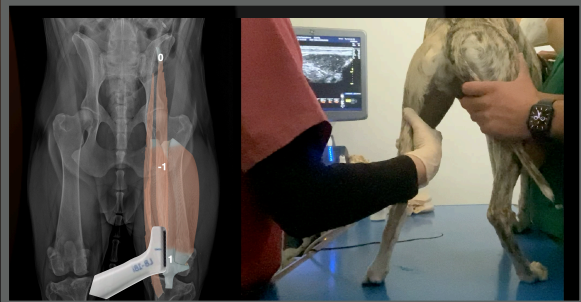
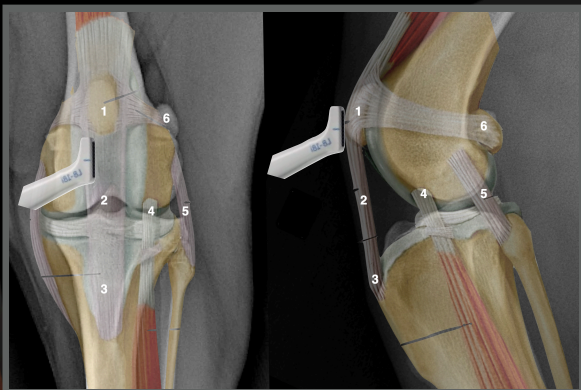
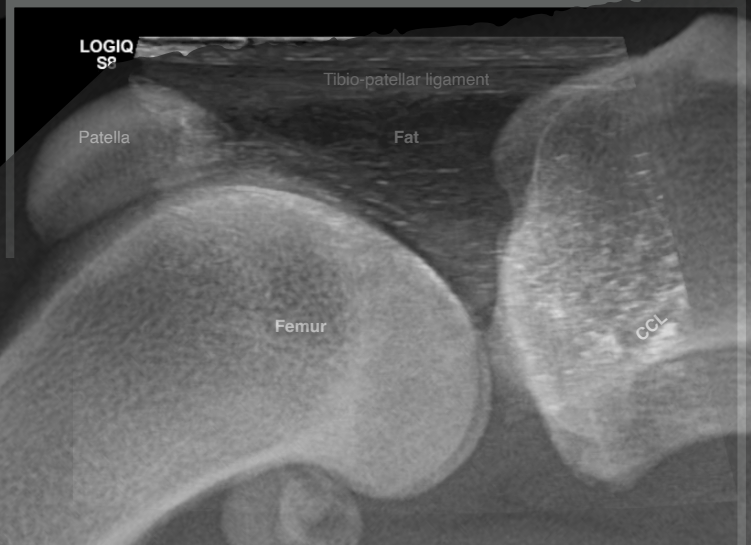
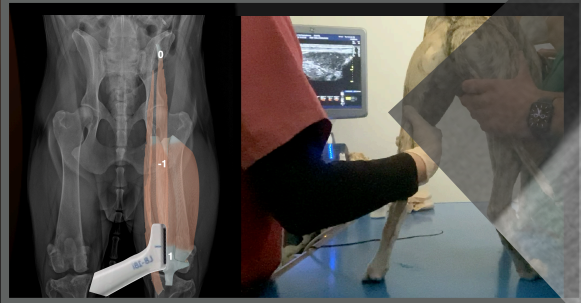
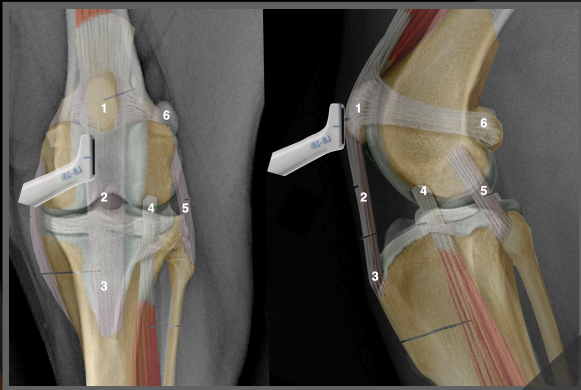
Cranial face transverse scan

1-1



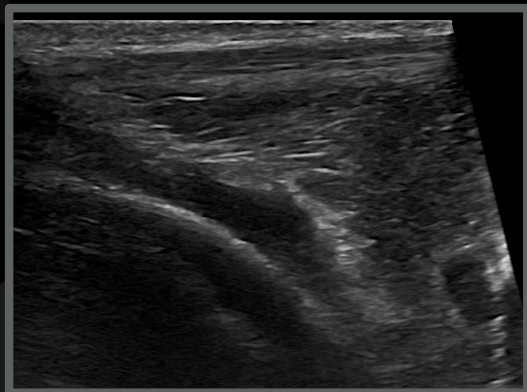
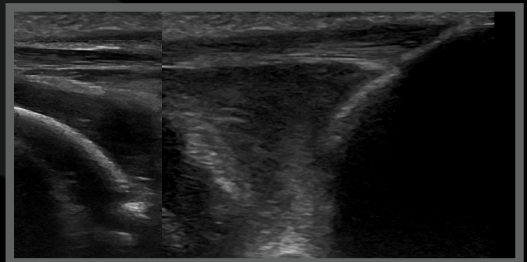
Normal anatomy

Cranial face longitudinal scan 1-2-3



Ginevra

Right stifle



Normal anatomy

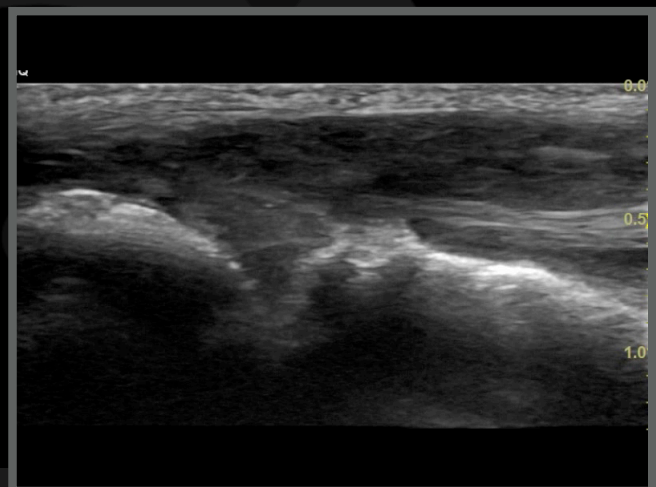
Lateral face longitudinal scan



Ginevra, FI, 5 years

Right stifle

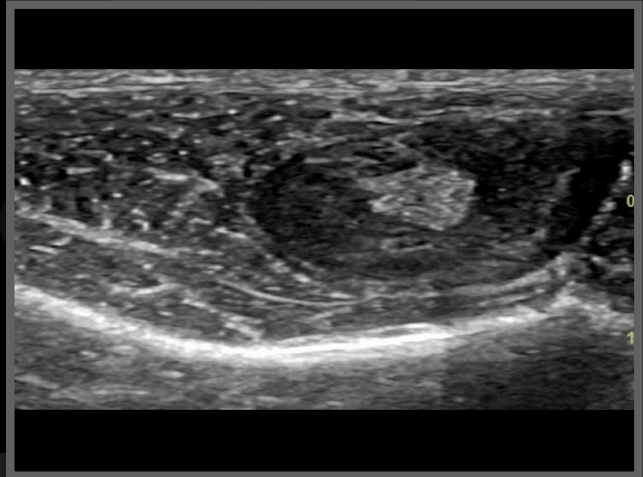
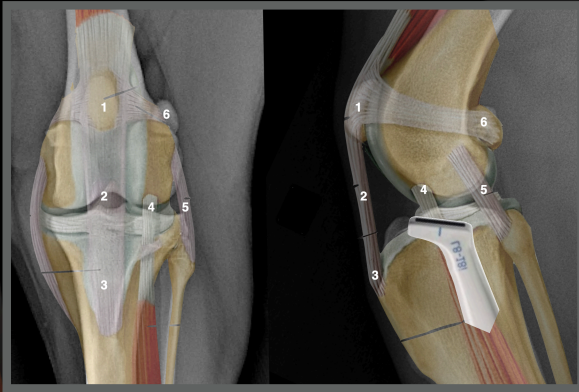
Lateral face longitudinal scan



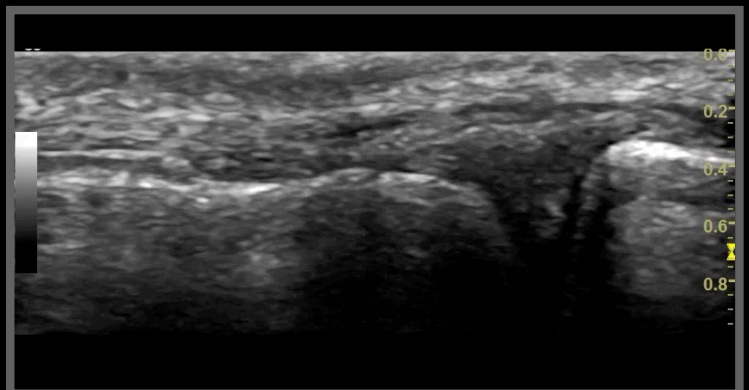
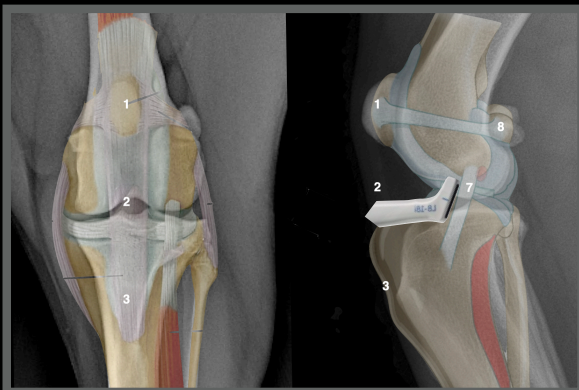
Ginevra, FI, 5 years

Right stifle

Lateral face transverse scan



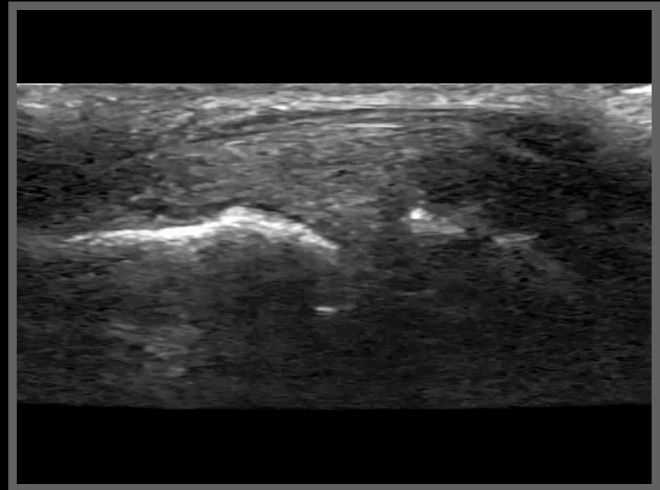
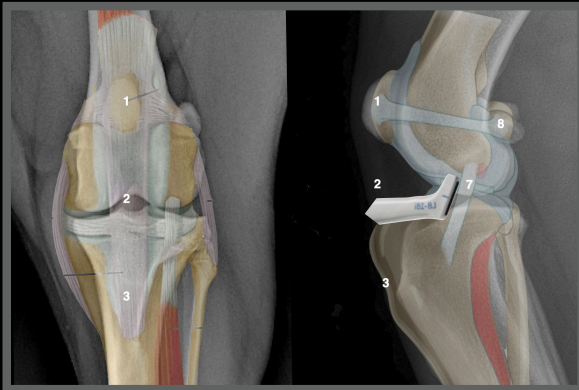
Normal anatomy



Ginevra, FI, 5 years

Right stifle

Medial face longitudinal scan

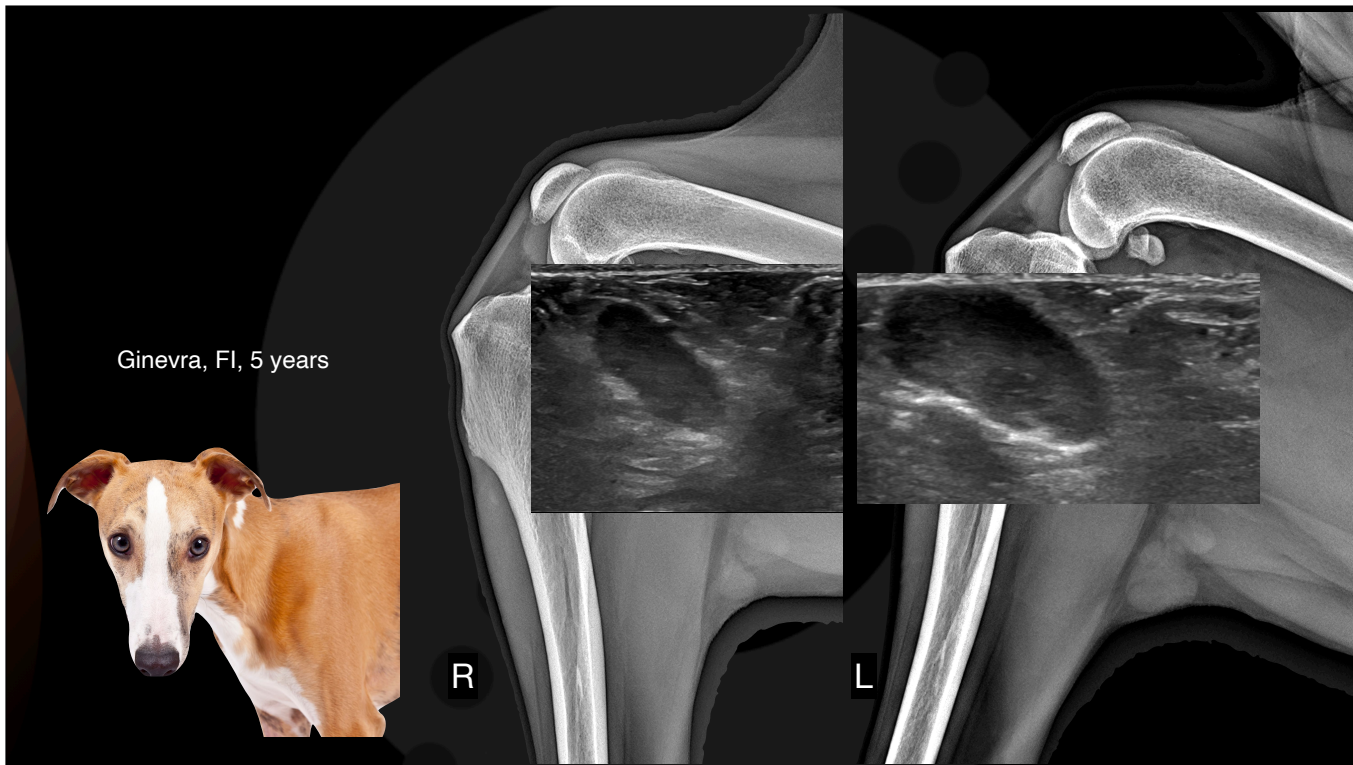


Ginevra, Whippet,
FI, 5 years

Ultrasonographic diagnoses

- Right stifle effusion
- Effusion in the extensor digitorum longus sheath
- What about the left stifle?





Ginevra, FI, 5 years

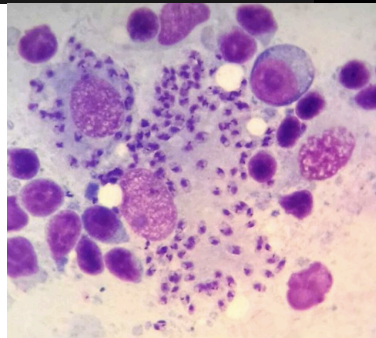
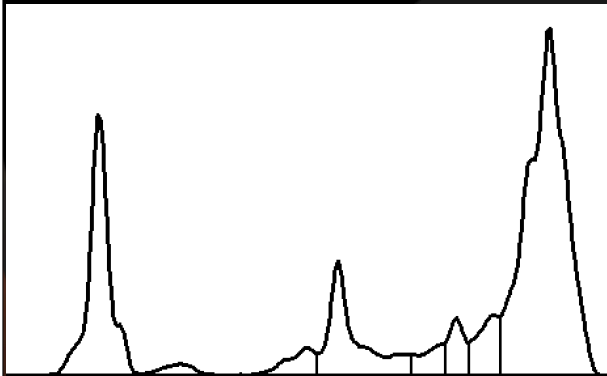
| | | | | | | | |
|--------------------------------------|------|------|-------|--------------------------|---|-------------------------|---|
| RBC (milioni / μ L) : | 6.41 | 5.70 | 8.56 | Acantociti: | | Eliptociti: | |
| HGB (g/dL) : | 12.9 | 14.1 | 21.2 | Anisocitosi: | + | Ipocromia: | + |
| HCT (%) : | 38.4 | 39.0 | 59.2 | Agglutinazione: | | Macroцити: | |
| MCV (fL) : | 59.9 | 63.1 | 72.6 | Codociti: | | Microцити: | |
| MCH (pg) : | 20.1 | 21.8 | 25.4 | Cheraticiti: | | Parassiti eritrocitari: | |
| MCHC (g/dL) : | 33.6 | 33.3 | 36.8 | Cnizociti: | | Policromasia: | |
| CHCM (g/dL) : | | 34.3 | 37.8 | Corpi di Heinz: | | Punteggiature basofile: | |
| MCHC/CHCM: | | 0.94 | 1.01 | Corpi di Howell-Jolly: | | Rouleaux: | |
| CH (pg) : | | 22.0 | 26.0 | Cristalli di Hb: | | Schistociti: | |
| CHDW (%) : | | 2.72 | 3.34 | Dacriociti: | | Selenociti: | |
| RDW (%) : | 10.9 | 11.6 | 14.7 | Drepanociti: | | Sferociti: | |
| HDW (g/dL) : | | 1.63 | 2.22 | Eccentricociti: | | Stomatociti: | |
| NRBC/100 WBC: | 1 | 0 | 0 | Echinociti: | | Torociti: | |
| Varie RBC: | | | | Linfociti attivati: | + | | |
| WBC (x 1000 / μ L) : | 8.0 | 5.45 | 12.98 | Linfociti atipici: | | | |
| Conta corr. WBC (x 1000 / μ L) : | | 5.45 | 12.98 | Neutrofili tossici: | - | | |
| Mielociti (/ μ L) : | 0 | 0 | 0 | Corpi di Doehle: | | | |
| Metamielociti (/ μ L) : | 0 | 0 | 0 | Schiumosità citopl.: | | | |
| Neutrofili banda (/ μ L) : | 0 | 0 | 286 | Vacuolizzazione citopl.: | | | |
| Neutrofili segmentati (/ μ L) : | 5840 | 3555 | 9314 | Basofilia citopl.: | | | |
| Linfociti (/ μ L) : | 2000 | 1169 | 3810 | Granuli tossici: | | | |
| Monociti (/ μ L) : | 160 | 186 | 798 | Neutrofili giganti: | | | |
| Eosinofili (/ μ L) : | 0 | 104 | 1164 | Macropoliciti: | | | |
| Basofili (/ μ L) : | 0 | 0 | 106 | | | | |
| Danneggiate (/ μ L) : | 0 | 0 | 0 | | | | |
| Indifferenziate (/ μ L) : | 0 | 0 | 0 | | | | |
| Altre (/ μ L) : | 0 | 0 | 0 | | | | |

Ginevra, FI, 5 years



| | | |
|-----------------------------|------|----------|
| ALT (IU/L) : | 39 | 15-50 |
| Bilirubina Totale (mg/dL) : | 0.14 | 0.15-0.4 |
| Proteine Totali (g/dL) : | 10.5 | 5.5-7.5 |
| Albumine (g/dL) : | 2.3 | 2.6-3.8 |
| Globuline (g/dL) : | 8.2 | 2.6-3.9 |
| Rapporto A/G: | 0.3 | 0.7-1.2 |
| Colesterolo (mg/dL) : | 213 | 150-350 |
| Urea (mg/dL) : | 38 | 18-45 |
| Creatinina (mg/dL) : | 0.73 | 0.7-1.3 |
| Glucosio (mg/dL) : | 98 | 60-100 |
| Calcio (mg/dL) : | 7.7 | 8.2-12 |
| Sodio (mEq/L) : | 154 | 143-151 |
| Potassio (mEq/L) : | 4.4 | 3.9-5.1 |
| Rapporto Na/K: | 35 | >30- |
| Cloro (mEq/L) : | 122 | 109-118 |

| | | min | max |
|---|------|------|------|
| Tempo di tromboplastina parziale attivata - aPTT (sec.): | 16.1 | 10.2 | 12.3 |
| Tempo di protrombina - PT (sec.) : | 8.9 | 6.8 | 8.6 |
| Fibrinogeno (mg/dL) : | 698 | 152 | 284 |
| Prodotti di degradazione della fibrina/fibrinogeno - FDPs (µg/mL) : | 3.03 | < 5 | |
| D-Dimeri della fibrina (µg/mL) : | 0.1 | 0.01 | 0.34 |
| Antitrombina (%): | 91 | 110 | 167 |



Ginevra, FI, 5 years



Sierologia Leishmania infantum mediante tecnica ELISA su micropiastro

| | | Intervallo di riferimento | |
|-----------------------|------|---------------------------|------|
| | | min | max |
| Albumina (%) : | 21.4 | 57.2 | 65 |
| Globuline ALFA (%) : | 15.2 | 12.1 | 15.6 |
| Globuline ALFA1 (%) : | 3.1 | 2.8 | 6.1 |
| Globuline ALFA2 (%) : | 12.1 | 8.9 | 10.6 |
| Globuline BETA (%) : | 11.7 | 11.5 | 17.6 |
| Globuline BETA1 (%) : | 2.9 | 2.1 | 3.3 |
| Globuline BETA2 (%) : | 3.5 | 3.7 | 5 |
| Globuline BETA3 (%) : | 5.3 | 5.7 | 10.3 |
| Globuline GAMMA (%) : | 51.7 | 4.3 | 12.7 |
| Rapporto A/G (%) : | 0.27 | 1.31 | 1.66 |

| ID | CANE | Risultato test ELISA | Livello anticorpale |
|--------|------|----------------------|---------------------|
| 215385 | | POSITIVO MEDIO | 47.45 % |

| | | min | max |
|---------------------------------|------|------|------|
| Proteine quantitative (mg/dl) : | 295 | 5 | 80 |
| Creatinina (mg/dl) : | 58.8 | 81 | 431 |
| Rapporto PU/CU: | 5 | 0.1 | 0.5 |
| Peso Specifico: | 1016 | 1010 | 1056 |

Ginevra, Whippet,
FI, 5 years

Conclusions

Treated for leishmania

Resolved lameness

Lab works getting better

Arthrocentesis or other invasive
procedures not necessary



Thank you



Diagnostic Mindset

www.diagnosticmindset.com