

# CASE 17 IVRA

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# Signalment and History

IVRA

10-year-old M Labrador Retriever

1-year-history of left rear lameness



# Description

IVRA

- There is severe intracapsular and to a lesser degree extracapsular soft tissue swelling of the stifle joint, effacing the surrounding fat planes and resulting in cranial displacement of the patella.



# Description

IVRA

- There is multifocal moth eaten lysis affecting the distal femur, proximal tibia, patella and medial fabella.



# Description

IVRA



- There is also evidence of periarticular osteophytosis, most notably extending caudally from the tibial plateau. Irregular to columnar periosteal reaction is noted especially along the proximal medial tibia.

# Conclusion

IVRA

- The degree of soft tissue swelling and polyostotic bone lysis are indicative of an aggressive process. Joint associated neoplasia (histiocytic sarcoma, synovial myxoma, or synovial cell sarcoma) are most likely. Periosteal reaction is not a typical feature of joint associated tumors but is most likely associated with this disease process in this patient. Periarticular osteophytosis indicates concurrent/pre-existing degenerative joint disease.

# Follow-up

IVRA

- Left rear limb amputation
- Histopathology: Synovial myxoma with septic arthritis
- Culture: Clostridium

# Comments

IVRA

- Even though synovial cell sarcoma has previously been considered the most common joint associated tumor in dogs, histopathological studies have shown this to be incorrect. Histiocytic sarcoma is the most common joint associated tumor in dogs.
- Synovial myxomas as seen in this dog can cause bony lysis on both sides of a joint, but have not been reported to metastasize. Prognosis is good with complete excision.
- The concurrent periosteal reaction seen in this patient is atypical for joint associated tumors and is attributed to concurrent septic arthritis.

# References

IVRA

- Craig LE, Krimer PM, Cooley AJ. Canine synovial myxoma: 39 cases. *Vet Pathol.* 2010 Sep;47(5):931-6. Epub 2010 May 11. PubMed PMID: 20460449.
- Craig LE, Julian ME, Ferracone JD. The diagnosis and prognosis of synovial tumors in dogs: 35 cases. *Vet Pathol.* 2002 Jan;39(1):66-73. PubMed PMID: 12102220.