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Case #3

Chief Complaint

"Goldie "is a 18 month old male Great Dane with a history of left front leg lameness for the past 3 weeks. The lameness has steadily got worse over the past 10 days and his appetite has decreased

Goldie





- Progressive lameness left foreleg 3 weeks
- Weight bearing but clinically lame
- Decreased appetite
- DA2PVP, Rabies and Bordetella up to date

Physical Examination

- Temperature 38.1 degrees C
- Heart Rate 90 bpm
- Painful on palpation of the shoulder area and proximal humerus

Problem List

- Moderate lameness
- Pain palpation of the left proximal humerus and left shoulder.
- Decreased appetite

Rule Outs

- List all the Possible Diagnoses
- This list is your Rule Out list

Rule Outs

- Osteochondritis dissecans medical condyle humerus
- Panostitis
- Osteosarcoma proximal humerus
- Osteochonridits Dissecans of the proximal humerus
- Sprain/ Strain Trauma
- Elbow Dysplasia
 - Un-united anconeal process
 - Fragmented medial coronoid process
 - Osteochondritis dissecans

The Plan

• What is your PLAN ?

Plan

- Radiograph 2 views AP and Lateral of the entire leg focusing on the three joints
 - Shoulder Joint
 - Elbow Joint
 - Carpal Joint

Shoulder Joint



Elbow Joint



Carpal Joint



What abnormalities do you see in the previous radiographs?

• Radiographic lesions/abnormalities?

Radiographic abnormalities

• Elbow and Carpus are Normal

- Shoulder Joint and Proximal Humerus
 - New bone proliferation
 - Bone lysis

Normal Shoulder Joint



More Advanced Case of Osteosarcoma of the Humerus



OCD Shoulder (not our dog)



OCD Distal Humerus (not our dog)



OCD Elbow (not our dog)



Panostitis (not our dog)



What is your Diagnosis?

What is your diagnosis?



• Osteosarcoma of the proximal humerus

• Careful: a fungal osteomylitis looks very similar.

What test will you order to differentiate osteosarcoma from fungal osteomylitis?

Confirm Diagnosis

• Bone Biopsy is the gold standard for confirming osteosarcoma

Next important procedure

• Before you discuss treatment with the owner what further test/procedure do you need to recommend to the owner?

Further essential procedure

• Thoracic radiographs: 3 views right and left lateral and a V/D

Thoracic Radiographs



What do you see?

• What do you see in the previous radiograph and how will this information help you discuss the prognosis with the owner?

Thoracic Radiograph

• Metastatic Pulmonary Nodules

Treatment Plan

• Surgery : amputation or limb sparing surgery followed by chemotherapy



• What will you tell the owner in regards to the prognosis?

Prognosis

- 90 % of osteosarcomas are highly malignant
- Medium survival time without treatment or with amputation is approximately 4 months
- Medium survival time with surgery and chemotherapy is 10 month
- Prognosis is Poor.



The End




























































