

# Hank 10 year-old Great Dane Mix



- Presenting for 3-day history of right forelimb lameness
  - TPR within normal limits
  - Physical Exam
    - Firm painful mass associated with right carpus
    - Toe touching lame
    - Res of PE unremarkable
- Suspicion – Osteosarcoma**
- Owner agrees to minimum database, Nu.Q® Vet Cancer Screening Test, and sedation for carpal radiographs
  - CBC:
    - Stress leukogram
    - Mild increase in platelets: 479,000
  - Chemistry:
    - Mild elevation in Alk Phos: 283 mg/dL

- UA:
  - Few lipid droplets
  - 2+ protein
  - USG 1.040

## Result

Nu.Q® Vet Cancer Screening Test:  
32.7 ng/mL

Result: <57.4 ng/mL  
Cancer Suspicion: Low

## Interpretation:

Plasma nucleosome concentrations ranging from 0-57.4 ng/mL are consistent with those found in healthy animals of over the age of 1 year and all genders. Not all neoplastic conditions are detectable using elevated plasma nucleosome concentrations. If clinically indicated, additional tests such as a CBC, Chemistry, Urinalysis, Cytology/ Biopsy, and/or Imaging may be needed to confirm or deny the suspicion of cancer in your patient.

## Result



Unfortunately, mass found.

## Hank – What to do next?

- If appropriate start Antifungal therapy
- Perform FNA or biopsy to get definitive diagnosis

## Result

Suspicion: Osteosarcoma.

**Note –** The current Nu.Q® Vet Cancer Screening Test more reliably detects systemic cancers rather than soft tissue or localized cancers.