



## PATIENT

Zoe Autry

## SPECIES

Canine

## BREED

Dutch Shepherd

## SEX

Spayed female

## AGE

12 years

## WEIGHT

84 lbs

## INTERPRETED BY

Dr. Lawrence McGill,  
DVM, Ph.D., Diplomate,  
ACVP

## IMAGING PERFORMED BY

Trae Cutchin

## HOSPITAL NAME

Friendship Springs VC

## REFERRING VET

Dr. Cutchin

## INVOICE

74639

## DATE

4/20/26

## PRESENTING CLINICAL SIGNS

History: Acute onset of lameness, left forelimb. On examination the shoulder area is painful on palpation and feels somewhat thickened compared to the contralateral shoulder. Radiographs shows proximal humeral osteolysis and loss of metaphyseal trabecular pattern, Primary differential is osteosarcoma. Needle aspiration biopsy was obtained for cytology.

## CYTOLOGY SUBMISSION

FNA of the shoulder mass was submitted

## OBSERVATIONS

Shoulder mass: Submitted are 14 excellent videos of very good collections of cells from the shoulder mass on Zoe. There is a background of red blood cells with irregular spindloid to polyhedral cells scattered throughout. There are aggregates of cells including a multi nucleated cell. The cells are definitely demonstrating neoplastic tissue but I am unable to confirm that it is from bone tissue. It has more of a characteristic of a soft tissue sarcoma in these videos. The spindloid cells demonstrate anisocytosis and anisokaryosis.

## INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

Shoulder mass - Sarcoma most suggestive of a soft tissue sarcoma in these collections.

## COMMENTS

This cellularity is most characteristic of a soft tissue sarcoma with a multi nucleated cell. It could be causing bone alteration from outside of the bone. If this collection is from inside the bone, then an osteosarcoma is still possible but I cannot make that diagnosis with the cells and material in these videos. There is no question in my mind that this is a sarcoma of some type but the specific source is not confirmed. Excision biopsy will likely be required to confirm the specific cellular source of this tumor process. Oftentimes, osteosarcoma will demonstrate osteoid in fine needle aspirates. I did not identify osteoid in this collection. This is the reason for the potential of a soft tissue sarcoma. Further diagnostics will be required to confirm the source of this cellularity. A guarded prognosis is warranted due to the tumor process present.



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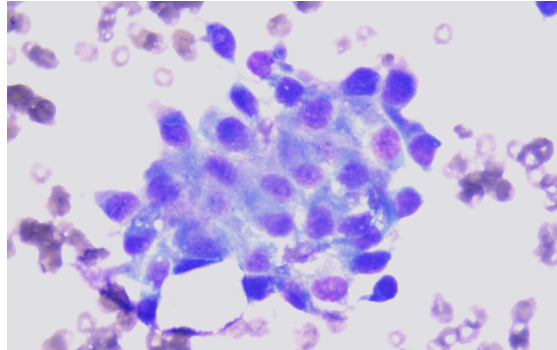
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## CYTOLOGY IMAGE



This is an image of a group of neoplastic sarcoma cells collected from the shoulder mass on Zoe. These cells have more characteristics of a soft tissue sarcoma than osteosarcoma but osteosarcoma cannot be ruled out.

**The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

**L.D. McGill, DVM, Ph.D., DACVP**

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