

Telemedicine Applied to Cytology

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This is an example of the type of cases presented to a telecytologist. Use the following history and then view the pdf file of photographs sent to Dr. Lanevski for a diagnosis.

An 8 year old female Rottweiler was presented for an enlarged popliteal lymph node noted two days prior by the owner. Physical examination revealed the affected LN was on the same side as a digit with a swollen nail-bed that the owner thought resulted from a traumatic incident where the nail had got caught. The vet noted simultaneous development of blepharospasm and cloudy appearance in both eyes. He considered this is a possible aqueous flare rather than corneal oedema. He noted some irregularity of the iris was possibly present and considered this consistent with bilateral uveitis.

The referring veterinarian performed a fine needle aspirate of the affected popliteal lymph node (Wright's modified preparation) and sent 28 digital images to a telemedicine provider. The images were taken at different magnifications with a camera placed over one of the eyepieces.

Images are in a separate pdf file.

Steps:

1. Make a diagnosis, based on the images.
2. Identify limitations that are present with a telecytology case such as this one and how to avoid them.