

Telecytology *with* SonoPath

FOSTERING THE ART OF VETERINARY MEDICINE™

SonoPath's Veterinary Telecytology

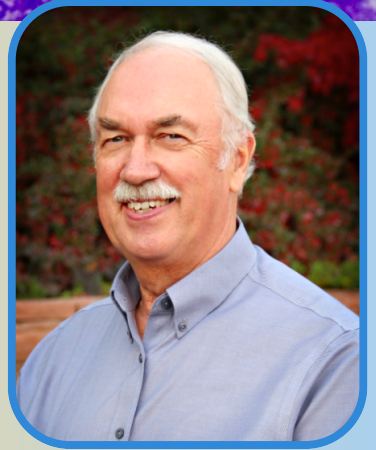
Services allow you to submit high-quality digital cytology cases from anywhere in the world with a rapid turnaround and expert interpretation from board-certified veterinary pathologist, Dr. Larry McGill, DVM, PhD, DACVP.

With a streamlined digital workflow, expert review, and clinically actionable answers, you will increase your diagnostic efficiency starting with your first case.

Reports are delivered within **24 hours, Monday–Friday**; often **same-day results** when submitted in the morning (EST).

Please see our **microscope** and **microscope adapter** recommendations from leading pathologist, **Dr. Larry McGill**, below.

Dr. Larry McGill is a Diplomate of the American College of Veterinary Pathologists and former President of the Utah Veterinary Medical Association. Recently retired from the Animal Pathology Reference Library, Dr. McGill has also been an active committee member in the American Veterinary Medical Association and the American College of Veterinary Pathologists. He received his DVM from Oklahoma State University and his PhD in veterinary pathology from Texas A&M University. A monthly contributor to *Advances in Small Animal Medicine and Surgery*, Dr. McGill has a keen interest in veterinary cytology, anatomic pathology, clinical pathology, and endocrinology and has lectured extensively on feline injection site sarcomas.



MICROSCOPE ADAPTERS: *Recommendations by Dr. McGill*

With any microscope adapter, success ultimately comes down to familiarity. Once you are comfortable with a specific adapter, you may find that most adapters become relatively straightforward to use. However, if you only use it occasionally (such as once a month), it can quickly become a source of frustration unless you are exceptionally patient.

Adapter Recommendation: Labcam

- Although more expensive, the LabCam is by far the most stable and reliable adapter we have used. It is the most user-friendly and the easiest to operate among those we have tested.
- **Other adapter recommendations:** Carson Optical HookUpz, Snapzoom, Vite Metal, Skylight.
- Please note: Universal adapters can be more challenging to adjust and stabilize, but with patience, they can perform adequately.

Microscope Recommendation: LW Scientific i4 Infinity 4 Objective Microscope

- This is the microscope our entire SonoPath team uses daily for telecytology evaluations. We recommend selecting the planar optics package for a flatter field and improved image quality. Retail pricing is approximately \$1,500, depending on the distributor.
- Other microscope brands can certainly work well; just be sure the adapter you select is compatible with the objective size before purchasing.



Labcam

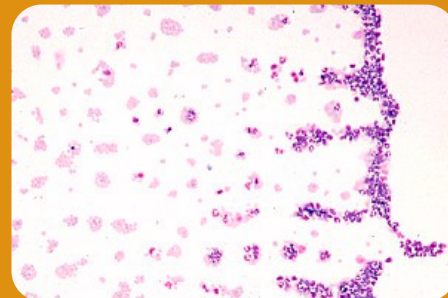


LW Scientific - i-4 Infinity

Telecytology SUBMISSION PROTOCOL

PART ONE *The Plan*

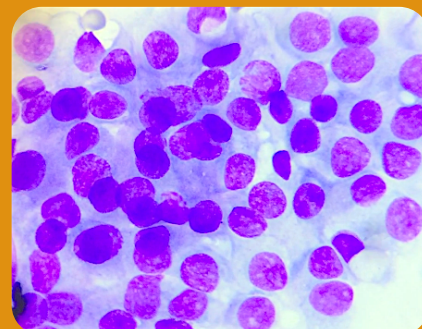
- The key to high-quality cytology videos is first identifying nucleated cells (ideally clusters of nucleated cells) on the slide, and focusing your scan on those regions.
- After staining, begin by scanning the slide at 10x, then 40x, to identify the best populations of nucleated cells.
- At this stage, you are essentially creating a “plan” so you know exactly where to focus once you move to higher magnification.
- Once you have selected your target areas, move up to 100x to begin recording.



Precursory Scan = A Plan

PART TWO *The Scan*

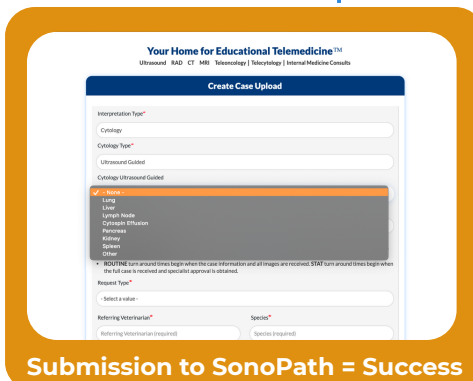
- Record 3–6 videos, each 30–60 seconds in length, at 100x magnification.
- Scan slowly and smoothly, pausing for a few seconds when you encounter a representative or clinically relevant cluster of cells.
 - This speed and pattern are ideal for pathologist evaluation.
 - Follow a traditional, methodical scanning pattern to avoid repeating areas.
- The number of videos needed depends on cellularity: slides with abundant cells require less scanning time, while sparsely cellular slides may require more coverage.
- Still images are rarely necessary. An exception would be slides with extremely sparse cell groupings.
- Note: 40x videos are not needed.



Large Cell Population = Quality

PART THREE *The Transfer*

- Transfer your videos to your desktop using a direct cable connection or, if using a Mac and iPhone, PhotoSync.
 - (For PC and Android users, please refer to your device's user manual for transfer options.)
- Label every video clearly. For example:
 - Fido_Spleen_1
 - Fido_Spleen_2
 - Fido_Liver_1
- Visit spa.sonopath.com and drag and drop your video files into the uploader.
- If submitting multiple cytology sites, be sure to use the dropdown menus to correctly indicate each anatomical location.



Submission to SonoPath = Success