

The Texas A&M Veterinary Medical Diagnostic Laboratory (TVMDL) Clinical Pathology Section provides accurate and precise data to aid in the diagnosis and classification of various animal diseases. In addition to validated results, our tests come with clinical interpretation, when applicable or requested, at no additional charge. The section strives to provide accurate laboratory data with a single day turn-around time for most tests. This section staffs two clinical pathologists who bring over thirty years of experience or board certification by the American College of Veterinary Pathologists. In addition, we staff an American Society for Clinical Pathology (ASCP)-certified Medical Laboratory Scientist and four full-time clinical pathology technicians. With easy access to published literature and many in-house specialists at TVMDL, our clinical pathologists can find the answer to most inquiries.

The Clinical Pathology Section specializes in the following test types:

#### • **Complete Blood Count (CBC)**

Hematologic evaluation is performed on state of the art instrumentation, which is validated daily to ensure accurate laboratory results. CBC panels include a wide variety of instrument data as well as microscopic evaluation of all submissions. Our hematology instrument provides advanced scattergrams, histograms, automated reticulocyte counts and calculations to allow for detailed classification of peripheral blood findings. We offer CBC panels for many species, including small animals, livestock, equines, avian and several exotic species.

#### • **Chemistry**

Our Clinical Pathology Section offers advanced, quality controlled chemistry instrumentation to allow for full characterization of organ function and electrolyte concentrations. In addition, we offer in-house evaluation of serum phenobarbital concentrations. When applicable, we are happy to offer written interpretations or phone consults on any chemistry panel. Performing research? We offer customized panels to provide clients with cost efficient panels that cater to their research needs.

#### • **Cytology**

Cytologic evaluation of fine needle aspirations, body fluids and impression smears can provide quick, non-invasive diagnostic information on a variety of lesions. We offer competitive pricing with no limit on the number of slides submitted and a nominal fee for additional sites. Our laboratory offers high quality standard staining and specialized stains to allow for complete evaluation of samples. With two clinical pathologists, consultation between pathologists

provides increased accuracy of cytologic interpretation. At TVMDL, we work diligently to correlate cytologic findings to the clinical picture. We also offer phone or e-mail consultations free of charge.

The section performs additional diagnostics that aid practitioners in diagnosing companion animal and livestock diseases or disorders.

#### • **Serum Protein Electrophoresis (SPE)**

SPE offers detailed classification of protein fractions in serum. Evaluation of these fractions can aid in the diagnosis of certain inflammatory and neoplastic diseases. In addition, this test is considered the gold standard for protein evaluation in most reptile and avian species.

• **Urinalysis** A full urinalysis is an underutilized diagnostic test in many patient workups. This simple test can provide an abundance of information, especially in conjunction with serum chemistry data. In addition, our laboratory offers specialized equipment for concentration of urine samples to allow for cytologic evaluation of transitional epithelial cells.

And there are more test offerings to come! The Clinical Pathology Section works hard to offer what our clients need. We are constantly reviewing new tests, developing new reference intervals and initiating research endeavors to expand the section. Please visit our website at [tvmdl.tamu.edu](http://tvmdl.tamu.edu) for a complete list of tests offered at TVMDL.