Benefits of Preventive Testing

Establish healthy baseline values
- Normal results indicate your pet is stable and healthy.
- Many pets show subtle changes in their blood values over time. These changes cannot be identified without first establishing and documenting normal values for your individual pet.

Uncover existing conditions
- Not all conditions can be found on a physical exam.
- Early identification of a problem can prevent more obvious signs of illness, and could decrease the cost of treatment, expand available treatment options, and increase the likelihood of a successful outcome.

Identify unseen disease
- Many diseases begin before your pet appears sick. Regular diagnostic testing can help catch the disease earlier.
- In some cases, the severity and progression of a disease can be stalled or minimized through diet and/or medication.
- Treatment expense can be minimized by catching a disease before your pet requires hospitalization.

Provide peace of mind
- Your veterinarian will have the tools to evaluate risks of anesthesia or side effects of medications that may be needed later in life for your pet.
- You and your veterinary team are doing everything possible to ensure your pet lives a happy, healthy life. Preventive testing is a fast, easy, and affordable way to verify your pet’s health.

Abaxis is your veterinarian’s total on-site laboratory partner, dedicated to helping your vet help your pet!

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A PET OWNER’S GUIDE TO PREVENTIVE TESTING

Testing recommendations
Testing recommendations made by your veterinarian are based on your pet’s breed, age, clinical signs, and history.

- Chemistry Panel, Complete Blood Count
- Chemistry Panel, Complete Blood Count, Thyroid Testing, Urinalysis
- Chemistry Panel, Complete Blood Count, Thyroid Testing, Urinalysis, Blood Pressure, Electrocardiogram

Physiological Age in Human Years

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888-4276 Rev. C

Your pet’s complete health care involves several important procedures. Obtaining a complete and thorough history of your pet’s activity and behavior is one of them. A complete physical examination is another. But did you know that your pet can also benefit from routine blood testing? Dogs and cats age faster than humans. As animals age, they are prone to many of the same diseases as humans, including: diabetes mellitus, kidney disease, liver disease, heart disease, cancer, and thyroid disease, among many others.

As a preventive measure, we recommend blood and urine testing on a regular basis, and more frequently as your pet enters their senior years.

Why wait until your pet is not feeling well to test them? Your veterinarian can detect disease earlier with some simple diagnostics.

Your pets’s physical exam only evaluates the outside of your pet. Diagnostic testing helps determine your pet is healthy inside, as well!
What is preventive care?
Preventive care consists of taking measures for disease prevention, as opposed to treatment for an illness. One measure of preventive care is diagnostic testing, which provides a detailed look at your pet’s health from the inside. While a physical examination is vital to your pet’s health care, there are many conditions that cannot be diagnosed by only looking, listening, and touching. Much of your pet’s health is revealed with quick, simple, and affordable laboratory testing.

Preventive diagnostic testing provides baseline organ function information about your pet that will be useful when assessing future health issues and anesthetic safety. Additionally, if assessments uncover any existing conditions, early diagnosis provides the best approach to effective treatment.

We recommend starting preventive testing as soon as possible: puppies and kittens should visit the veterinarian early in life to receive regular examinations, vaccinations and screening for parasitic and/or congenital conditions.

We use Abaxis state-of-the-art, in-clinic laboratory systems to evaluate your pet’s overall health. Results from these analyzers are obtained in under 12 minutes, and allow for immediate diagnosis and interpretation by your veterinarian.

Chemistry blood tests
Chemistry blood tests provide useful indicators of the health and function of your pet’s organ systems and fluid balance. Chemistry tests may include the following:

- **Alanine Aminotransferase (ALT)**
  An enzyme released by the liver when the liver is damaged. Elevations may be a sign of liver damage or disease.

- **Albumin (ALB)**
  A protein made by the liver that circulates in the blood. Low levels can indicate liver, kidney, or intestinal disease.

- **Alkaline Phosphatase (ALP)**
  Elevations can indicate disease of the pancreas, intestines, or kidney.

- **Amylase (AMY)**
  An enzyme produced to help digest food. Elevated levels can indicate disease of the pancreas, intestines, or kidney.

- **Bile Acids (BA)**
  Vital for identifying and monitoring liver disease, bile acids are one of the best measures of liver function.

- **Blood Urea Nitrogen (BUN)**
  Made by the liver and removed from the body by the kidneys. BUN levels show hydration status and help to evaluate the kidney and liver.

- **Calcium (Ca)**
  Elevations can be an early sign of certain cancers. Imbalanced calcium and phosphorus levels are indicative of certain metabolic disease, such as those of the parathyroid gland and kidney disease.

- **Cholesterol (CHOL)**
  An important value to monitor kidney function.

- **Electrolytes (K+, Na+)**
  Potassium (K+) levels are important for normal muscle function and heart rate. Sodium (Na+) levels are important for body fluid balance. Both are critical to your pet’s health and aid in the diagnosis and treatment of several life threatening diseases.

- **Gamma Glutamyl Transferase (GGT)**
  A liver enzyme that helps to differentiate among different types of liver disease.

- **Globulin (GLOB)**
  A body protein that, if elevated, may indicate inflammation or infection.

- **Glucose (GLU)**
  Elevated levels can indicate problems, such as diabetes. Low levels can be associated with liver disease or severe infection.

- **Phosphorus (PHOS)**
  An excellent test for thyroid gland function in dogs and cats. The thyroid glands play a major role in metabolism.

- **Total Bilirubin (TBL)**
  An important value to evaluate the liver and when there is a low red blood cell count (anemia).

- **Total Protein (TP)**
  An estimate of the total protein in the body. Changes can help identify many conditions such as anemia, and diseases of the liver, kidney, and gastrointestinal tract.

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Hematology tests
Hematology testing includes the complete blood count (CBC), which is a test that provides measurements of various blood components. The CBC is an important tool that can detect conditions such as anemia and leukemia, and is also used to assess stress levels, inflammation, infection and blood clotting capabilities. Blood components measured include:

- **Red Blood Cells (RBCs)**
  Carry oxygen to the tissues of the body and transport carbon dioxide to be exhaled by the lungs. Anemia results when RBCs are not present in sufficient numbers. Determination of the cause of anemia is vital.

- **White Blood Cells (WBCs)**
  Play a major role in your pet’s immune system function. Normal baseline levels are very important to determine the importance of changes seen with infection or inflammation. Elevations can help us treat your pet more effectively.

- **Platelets**
  Are a crucial component of the blood clotting system. Adequate numbers must be present to prevent or stop bleeding. Therefore, it is very important that platelet numbers are known to identify clotting issues before they become critical in the non-surgical patient, and prior to any surgical procedure.

Urine tests
Urine testing may also be evaluated alongside chemistry blood testing to evaluate for urinary tract and systemic diseases.

Urine analysis completes the total body assessment of your pet when combined with other laboratory testing. A urinalysis helps to assess how well the kidneys can concentrate urine, if there is a protein loss (microalbuminuria or urine protein to creatinine ratio), and/or if there are any signs of infection or other abnormalities (crystals, casts, and other sediment) of the urinary system. This test is necessary to determine the extent of kidney dysfunction, if present.