

TITER TESTING

Putting titers to work in your practice



TiterCHEK™ CDV/CPV

A 15-minute assay for Canine Distemper and Parvovirus Antibodies

Distemper and Parvovirus are the most common and serious infectious diseases of dogs today.

TiterCHEK™ uses proven ELISA technology to make a semi-quantitative assessment of antibody levels in your practice.

Easy: No equipment required. Results compared to controls.

Accurate: Evaluated at three U.S. veterinary colleges.

“...immunity provided by vaccination is a combination of cell-mediated and humoral immunity, and for some diseases, serum antibody titer, a measure of humoral immunity, does not necessarily correlate with protection from infection. On the other hand, serum CDV and CPV antibody titers have previously been shown to correlate with the level of immunity in dogs.”

Dudley McCaw, DVM, Dipl. ACVIM

“...an animal’s immune system response can vary because of factors including their genetic makeup, interference from concurrent medications, stress, parasitism, and other factors.”

AVMA Council on Biologic and Therapeutic Agents

In Puppies^{1,2,4,5}

- Assess maternal antibody levels shortly after birth.
- Follow the decline of maternal antibody levels.
- Evaluate CPV antibody levels in difficult to immunize breeds.
- Tailor vaccination programs for individual puppies.

In Adults^{1,3,4}

- Gain valuable information when making revaccination decisions.
- Determine the antibody status of dogs with unknown histories.
- Evaluate and possibly avoid vaccinating dogs...
 - ...with a history of vaccine associated adverse events.
 - ...with high CDV and CPV titers.
 - ...on chemotherapy that may be in danger of relapse.
 - ...with immune-mediated disease at risk for recurrence.
 - ...with allergies exacerbated by immune stimulation.



Presenting Titers to Clients

- Many clients have concerns about over-vaccination of pets, having heard of this from the internet, radio, television, pet publications, the *Wall Street Journal*, *Reader's Digest*, and even *The Ladies Home Journal*.
- Many practices offer Titer Testing with Wellness Screening as a check on the pet's overall health status.
- Synbiotics' client information brochure, "Canine Titer Testing... What you need to Know," is available to explain titers to your clients.



"Given the success of routine serologic testing for determining protection in the swine and poultry industries, it is reasonable to assume the same techniques could be applied to companion animals... The end result would be an improvement in the overall health of animals."

Ian Tizard, BVMS, PhD

References

1. Twark L, Dodds WJ. Clinical use of serum parvovirus and distemper virus antibody titers for determining revaccination strategies in healthy dogs. *J Am Vet Med Assoc* 2000; 217: 1021-1024.
2. Pollock RVH, Carmichael LE. Maternally derived immunity to canine parvovirus infection: transfer, decline, and interference with vaccination. *J Am Vet Med Assoc* 180: 37-42, 1982.
3. McCaw DL, et. al. Serum distemper virus and parvovirus antibody titers among dogs brought to a veterinary hospital for revaccination. *J Am Vet Med Assoc* 213: 72-75, 1998.
4. Tizard I, Ni Y. Use of serologic testing to assess immune status of companion animals. *J Am Vet Med Assoc* 213: 54-60, 1998.
5. Hoskins JD. Canine Viral Diseases. *Textbook of Vet Int Med* 5th ed: 418-423, 2000.

Benefits of TiterCHEK™

Benefits to You	Benefits to Your Clients
No reactions!	No reactions!
Less expensive and quicker than outside labs	Determines whether antibodies are present - vaccination alone cannot
Enhanced perception of value - distinguishes you from the vaccine clinics	Not introducing unnecessary antigens, adjuvants and preservatives
A practice builder - blood drawn can also be used to run CBCs and Chemistries	Awareness of the competence of their pet's immune system

Adverse effects associated with vaccines

- Anaphylactic shock
- Mild systemic reactions (e.g., fever, lethargy, soreness)
- Angioedema, urticaria, laryngeal edema
- Immune-mediated hemolytic anemia
- Immune-mediated thrombocytopenia
- Local reactions (inflammation, swelling, etc.)
- Sarcomas (cats)
- Allergic dermatitis / allergies
- Asthma
- Renal failure / glomerulonephritis
- Hypothyroidism / autoimmune thyroiditis

"For more than 4 years, we have been measuring vaccination titers.... ...reducing the number of annual vaccinations. ... We have seen an overall decrease in chronic immune-mediated illness ranging from skin allergies and seizure disorders to autoimmune hemolytic anemia, thyroid gland disease, and cancer."

Michael Dym, VMD

Contact your favorite Synbiotics Distributor or call 1-800-228-4305 for more information

