

Biogal Tips Canine Distemper

(Hard Pad Disease)



Introduction:

- Canine distemper (CDV) is a transmissible disease with varied degrees of morbidity and mortality.
- CDV is caused by the RNA paramyxovirus.
- Signs of CDV can vary greatly and frequently mimic other diseases.
- Puppies who have not completed their core vaccination schedule, as well as

Infection occurs naturally through airborne and droplet exposure.

- non-immunized and immunocompromised older dogs are more susceptible to CDV infection.Distemper is often fatal, and dogs who survive can suffer from severe, irreversible
- nerve system damage.

acute generalized form of o

Did you know?

The acute generalized form of distemper has a high death rate; disease duration and severity depend on the animal's age, immune status, and the virulence of the infecting virus strain.

CDV affects several body systems, including gastrointestinal and respiratory tracts, spinal

- cord, and the brain.

 Differential diagnosis is complicated by the presentation of respiratory signs comparable to
- kennel cough or gastrointestinal signs that can be misdiagnosed as parvovirus, corona virus, internal parasites or poisoning.
 CDV is shed in all secretions and excretions as early as 5 days post infection (before the onset of clinical signs). Shedding of virus can continue for up to 4 months, but usually resolves
- within 2 weeks. The virus can be transferred transplacentally to the fetuses.

 CDV infections can induce immunosuppression.
- CDV can infect the central nervous system producing an acute or chronic form of disease. A
- rare, progressive inflammatory disease of the cerebral hemispheres and brainstem, "Old dog encephalitis", has been observed in fully vaccinated immunocompetent adult dogs without a history of systemic CDV and is thought to be associated to the persistence of CDV in nervous tissue.
- "Hard pad disease" (nasal or digital pad hyperkeratosis) is a dermatological feature related to Canine Distemper Disease.

Know these points before testing for Canine Distemper Virus

Should be considered in the diagnosis of any dogs exhibiting respiratory involvement, fever, bilateral serous and nasal ocular discharges and

Canine distemper

conjunctivitis.

GI and respiratory signs prior CNS signs.

2. Early warning signs

Diagnostic challenge

should be based on history (vaccination and exposure)and clinical signs (respiratory, gastrointestinal, neurological and dermatological).

Confirmation of Canine Distemper should be made on the basis of laboratory test results.

Early diagnosis is difficult due to the broad spectrum of signs. Diagnosis

4. Serology

Biogal's **IgM** and **IgG** in-house test kits are valuable tools for point-of-care analysis

of the immune status of the patient. When employing all antibody test kits, the user

must be aware that these tests may not differentiate between current infections,

maternal antibodies and those generated from recent vaccination. IgM antibody

testing provides a good indication of present disease in symptomatic patients if used in the time period after maternal antibodies have diminished, at completion of the core vaccination period and with unvaccinated dogs.

Antibody testing is indicated as an additional method of diagnosing canine distemper and should be used in parallel with additional laboratory tests.

The sample tissue utilized in PCR tests will differ depending on the

Nasal/occular discharge and/or respiratory signs: Nasal and conjunctival swabs. Gastrointestinal signs: Rectal swabs or feces.

PCR assays

PCR testing is the most accurate, sensitive and specific method for diagnosing CDV.

6. Treatment

There are no antiviral drugs to treat CDV-induced disease.

stage of the disease and clinical signs.

Febrile Period: Whole blood.

Neurological signs: Urine

Treament is supportive with fluids, expectorants, antiemetics, and antibiotics. Vaccinations and yearly titer testing are the most effective to prevent infection

with CDV.

Biogal Galed Labs offers a comprehensive range of diagnostic tests for canine distemper.



Product code:

30CDR108

30CDR116

Packing units:

Distemper

RNA Detection Kits

30CDR148

8-16-48 Tests



80CDV205 80CDV250

Packing units:

5-50 Tests

Product code:



Product code:

55CPD301

Packing units:

12-120 Tests

55CPD210



50 CVV110

Packing units:

12-120 Tests

Product code:

50CVV201



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COMPANION