Clinical Guidelines

Leishmania Ab Rapid



Leishmania Ab (Canine Leishmania Antibody)

WHY USE THE Leishmania Ab TEST?

- Canine Leishmaniasis(CL) is a major global zoonosis that is prevalent in Europe, Africa, Asia, and South and Central America. (endemic in >89 countries).
- The course of infection may be different from one individual dog to another, ranging from spontaneous cure to **acute evolution that leads to death.**

Therefore, diagnosis should be established as soon as possible, to improve the prognosis and to avoid both human and dog transmission (from false negative cases) and unnecessary euthanasia (from false-positive cases).

WHAT YOU NEED TO KNOW: CANINE LEISHMANIASIS

- Incubation Period varies from 3 months to several years
- Clinical signs
 - ✓ These protozoans can present in a wide variety of clinical forms ranging in severity from self-healing cutaneous leishmaniasis (CL) to fatal disseminated visceral leishmaniasis (VL).
 - ✓ Signs: Enlargement of lymph nodes, dermal abnormalities, reduced appetite, weight loss, chronic enteritis, abnormal enlargement of the spleen & liver, eye disease, hypotrophy muscle, arthritis, neurological manifestation, renal disease
- Transmission
 - ✓ by the hematophagous activities of female phlebotomine sand flies (main)
 - ✓ by vertical and venereal transmission
- Vaccination
 - ✓ Vaccination can be provided to dogs over 6 months of age. However, there is no currently authorized vaccine that is able to give full protection against infection.
- Diagnosis
 - ✓ Cytology & Histology ⊗ Direct observation of the parasite has low sensitivity (a lot of false negative)
 - ✓ PCR Testing ※ Aspirates from the bone marrow and lymph nodes are most likely to yield positive results
 - ✓ Serology ※ The most commonly used first step through detection of specific antibodies against Leishmania
 - Antibody response
 - ✓ A specific antibody response is detected in dogs approximately 8-12 weeks after the initial infection.
 - \checkmark DIVA (Differentiating infected from vaccinated animals)

 \Rightarrow Antibodies induced by vaccination with LIESP/QA-21 are not detected by the anti-kinesin antibody test.

a positive result indicates the presence of antibodies due to infection by the parasite

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WHEN TO USE THE Leishmania Ab Test?

Regular check-up

- ✓ Incubation periods may be very long and subclinical infection may persist for months or years. The antibody test is required to reveal subclinical infection.
- ✓ Testing healthy dogs periodically is important to detect asymptomatic carriers, and to prevent the spread of infection

With nonspecific symptoms of CL

✓ Because the clinical findings can be quite variable, they can mimic other diseases and therefore the diagnosis of the disease can be difficult.

Treatment monitoring

- ✓ High antibody levels are usually associated with clinical disease and high parasite burdens.
- ✓ Serological testing can be useful for monitoring infected dogs for changes in disease severity and response to treatment.

Check for relapse after recovery

- Parasitological cures are rarely achieved, and clinical recurrences in canine Leishmaniasis often occur after therapy.
- ✓ For a more practical approach, serological evaluation of the patient every 6 months provides valuable data for the follow-up of Leishmania cases.

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