

Perspective A SCITECHNOL JOURNAL

Pathophysiology of Lyme Disease in Dogs

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Description

Lyme disease is a tick-borne illness caused by the bacteria *Borrelia burgdorferi*. While it primarily affects humans, it can also impact dogs. In dogs, Lyme disease can cause a range of symptoms, from mild to severe, and can lead to long-term health problems if left untreated. Symptoms of Lyme disease in Dogs The symptoms of Lyme disease in dogs can vary depending on the severity of the infection. Some dogs may not show any signs of the disease, while others may experience mild to severe symptoms. Common symptoms of Lyme disease in dogs include lameness or stiffness, loss of appetite, lethargy, fever, swollen lymph nodes, joint pain and swelling, difficulty in breathing. These symptoms will not appear until several weeks after a dog has been bitten by an infected tick. This delay in symptoms can make it difficult to diagnose the disease in its early stages.

If a dog is exhibiting symptoms of Lyme disease, a veterinarian may perform a physical exam and run diagnostic tests. Blood tests, such as the SNAP 4Dx Plus Test, can detect the presence of antibodies to Borrelia burgdorferi, indicating that the dog has been exposed to the bacteria. A positive test result does not necessarily mean the dog is currently infected, but it does indicate that the dog has been exposed to the bacteria at some point in the past. If the dog is currently infected, the veterinarian may also perform a urine test to check for proteinuria, a common complication of Lyme disease in dogs. Treatment of Lyme disease in dogs typically involves antibiotics, such as doxycycline or amoxicillin. The duration of treatment depends on the severity of the infection and can last from several weeks to several months. In some cases, anti-inflammatory drugs may also be prescribed to help reduce joint pain and swelling.

Prevention is key when it comes to Lyme disease in dogs. One of the most effective ways to prevent Lyme disease in dogs is to use tick prevention products, such as flea and tick collars, spot-on treatments, and oral medications. Additionally, it is important to regularly check dogs for ticks, especially after spending time in wooded or grassy areas. Ticks should be removed as soon as possible using tweezers or a tick removal tool. It is also important to keep dogs up to date on their vaccinations and to have them regularly screened for tick-borne diseases. Long-Term Effects of this disease in dogs if left untreated, can lead to long-term health problems in dogs. Another complication of this disease in dogs is Lyme nephritis, a type of kidney disease that can cause renal failure. Dogs with Lyme nephritis may experience vomiting, diarrhea, and weight loss. Other long-term effects include joint pain and inflammation, heart problems, and neurological issues. Preventative measures, such as tick prevention products and regular tick checks, can help reduce the risk of Lyme disease in dogs. It is important to remember that Lyme disease can have serious long-term effects on a dog's health, so it is essential to take preventive measures and seek prompt veterinary care if a dog is showing signs of the disease.

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Citation: