

## **HEALTHY, HAPPY PETS: DEFINING LYME WITHIN PETS**

By Joyce Belcher

FIRST named in 1975 significant number of children and adults were found The word spirochete literally means system disruptions of varying sorts. to have a unique form of juvenile arthritis at 100 times the average. The researchers decided that it was probably a bacterial infection as penicillin shortened the duration (or symptoms) of the disease.

Lyme disease is caused by a All of these cause a different Lyme- example. They're particular about

particular kind of bacterium know as type infection explaining why there a spirochete. Spirochetes have been are such different symptoms of the in Lyme, Ct. when a around for billions of year longer disease such as relapsing fever, joint than humans and are very smart. "coiled hair." The spirochete that causes Lyme disease is the genus Borrelia burgdorferi. While there are numerous Borrelia organisms that affect us and our pets, there are 3 main Borrelia that are considered them to colonize in collagen around to be the cause of Lyme Borreliosis. the joints, the eyes, and the brain for

degeneration and central nervous

Lyme spirochetes resemble a corkscrew shaped worm which is exactly what their action is, in order to enter into living tissues. This allows

what they eat as they are collagen Spirochetes are very difficult for researchers to work with which is why so little is known about them from a bacterial standpoint. Even after 60 plus years of bacterial research, they still can't be grown in a lab. They're also very thin which makes them hard to see under a microscope without unusual lighting and specific expensive equipment.

How do animals get Lyme disease?

deer are not the only host for infected hosts. Mice, rats, chipmunks etc., are all hosts.

has not been done to my response. knowledge at this time, degree, why wouldn't we believe this to pass the same way?

passed primarily through what is unclear is how many other vectors can for transmission. Lyme Spirochetes have been found in biting flies, mites, mosquitoes and fleas. Transmission to humans thru biting flies has been documented in CT., while transmission

with mites has been documented in Germany. Direct transmission thru mosquitoes has not yet been documented but there is reason to believe that it does occur.

When a tick bites, the Interluken21 levels are reduced through the components in the tick saliva. Astragalus is on one the indicated, perhaps even one of the most important herbs to use in the prevention of Lyme as it is specific What can we do to help prevent Lyme for immune atrophy and increases Interluken 2 levels. It also enhances function in spleen and thymus. I can't stress enough how important Keeping these levels high may it is to support our pets' immune significantly reduce the likelihood of systems as the #1 preventative infection. Studies have found that measure against any tick borne during Lyme infection the higher the CD4 white blood cell levels, the

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Lyme spirochetes are better the resistance the animal not only passed through will have to the infection as well as tick bites, once they a better response with treatment if infect people they can already infected. Lower CD4 counts be found in breast milk, correlated to increased spirochete tears, semen, and urine. load. So you can see that Increased Animal testing for this CD4 levels are essential for immune

but if we think about the Astragalus is one of many necessary similarity in most body herbs that are used successfully functions of humans and in the prevention and treatment dogs, even horses to some of Lyme spirochetes. Others like Andrographis (also anti-spirochetal as is Japanese Knot Weed), Smilax and Stephania Root cross the blood brain barrier2. Cat's Claw is an The spirochetes are immune potentiator, a great general tonic for enhancing overall system particular ticks but health to aid in prevention of lyme and is specific in Lyme arthritis.

be possible candidates Common Symptoms of Lyme in Dogs and Horses.

Behavioral changes like:

- Irritability
- Fatigue
- Brain fog
- · Lack luster, not interested in work, stubborn
- Hyperactivity or spooks easily
- Loses interest in eating

Arthritic type symptoms are common, may be worse at or near a full moon. This may be an immune system response as well.

Preventative measures against Lyme are the way to go (as with any holistic approach to good health)

in our dogs and horses?

1. Lyme infection will bring the

immune system out of balance.

- 2. Ahealthy and balanced immune system will lessen the chance of damage or invasion by the spirochetes, but if the immune system is compromised or out of balance, the spirochetes will prevail, causing damage throughout the collagen in the body.
- is the organ that regulates the health of the collagen, i.e., connective tissue, ligaments, tendons, the feeding ground of the spirochete.
- 4. Using toxins such as spot-on chemicals that can directly and negatively affect the immune system and compromise the liver should be carefully thought out for a healthier alternative.
- Effective herbs that support, balance the immune system and deter parasites are a safer, healthier
- 6. We need to support and strengthen, not deplete and damage, in order to win the battle with Lyme.
- 7. It is necessary to use a complete body-system detox that moves and cleanses the lymphatic system, blood, liver, kidneys, promotes bile and removes heavy metals to assist the body during spirochete die-off.

## How can we balance our Dogs and Horses immune system for optimum protection?

- Species appropriate quality nutrition
- Immune Modulating Herbs & Superfoods-Liver Support
- · Anti-Spirochetal herbs administered daily throughout tick season
- Essential oils blended into carrier oil for repellent applied regularly to their coat

## Herbs that will help to prevent as well as lower titers should have the following chemistry

Anti-spirochetal, anti-inflammatory, enhance immune function, immune modulating, protect heart muscle, protect and enhance liver function, clear infection from the body, cross the blood brain barrier, are anti-parasitic, nutritive, lymphatic mover, diuretic and diaphoretics to help excrete toxins, antioxidant. There are too many to list individually so please email me if you want to know more about the herbs.

seal, Hemp seed for horses.

When using antibiotics, I strongly suggest that probiotics are given 2 hours after each dose in order to keep the immune system at its best. Antibiotics are not selective in which bacteria they kill, they kill bad and good bacteria. The body needs vitality (good bacteria) in order to stay healthy and fight pathogens as 80% of the immune 3. It's important that we support the liver as this system is in the gut. So for every antibiotic given, I suggest a species appropriate pre/probiotic to follow 2 hours after.

> <sup>1</sup>a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to a cytokine called IL-2.

> <sup>2</sup>the blood brain barrier is a bio-protective structure that protects the central nervous system, brain and spinal cord, from being compromised



**Deer Tick** 

Research from studies done by the University of California at Berkeley And Spirochaeta and Rickettsia Laboratory, Department of Medicine and Epidemiology

School of Veterinary Medicine University of California, Davis, Ca Lynda Adame, greyhound admin.

Healing Lyme Disease Naturally, Wolf D. Storl

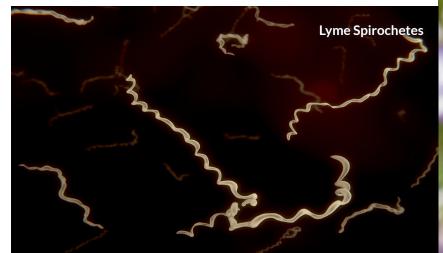
Lyme Disease The Ecology of a Complex System, Richard S. Ostfeld Healing Lyme, Stephen Harrod Buhner

Invasive Plant Medicine, Timothy Lee Scott

David Winston, RH, (AHG), Herbalist & Alchemist (Education)

**Collagenous tissue support:** Vitamin C is a catalyst Joyce Belcher is a certified herbalist-formulator for bones, tissues, cartilage in order to heal properly. A specializing in organic supplements and medicinals for few recommendations: Amalaki, Ala, DHEA, Soloman's animals. She resides in York, ME, and is the founder of Herbs for Life, Inc., manufacturer of the Pet Wellness

Blends<sup>™</sup> and Veterinary Botanicals<sup>™</sup> product lines. Ms. Belcher has spent years advancing her herbal studies mentoring with several highly-respected experts in the field of veterinary herbalism. Her areas of expertise include immune balance, the prevention and treatment of Lyme disease in dogs and horses, and custom medicinals in veterinary herbalism. In her practice, Joyce Belcher formulates herbal medicine and supplements for holistic and integrative veterinarians and educates animal owners to be proactive in caring for the health of their animals. She helps owners make informed decisions by speaking to groups through equine and canine symposia and working dog foundations and is a columnist for Dog's *Naturally Magazine. She also teaches western herbs* for animals to herbal apprentices at herbal schools in New England. You can call 207-451-7093 or go online: www.petwellnessblends.com





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