

# Lyme Disease & Common Co-Infections

## Short Symptom List

### ***Borrelia, Babesia, Bartonella, and Ehrlichia***

The following symptoms were excerpted from Diagnostic Hints And Treatment Guidelines For Lyme And Other Tick Borne Illnesses, by Joseph J. Burrascano Jr., M.D. (Fifteenth Edition 2008). Available online at [www.ilads.org](http://www.ilads.org)

#### ***Borrelia***

##### ***(Borreliosis, neuroborreliosis; also known as Lyme Disease)***

Spread primarily through the bite of infected ticks that live on a wide range of mammalian species; secondary human-to-human transmission through semen, breast milk, and possibly *in utero*

Bladder dysfunction  
Burning or stabbing sensations  
Cardiac impairment  
Change in bowel function  
Chest pain  
Confusion  
Depression  
Difficulty thinking  
Difficulty with concentration and reading  
Difficulty with speech, writing  
Difficulty finding words; name blocking  
Disorientation: getting lost, going to wrong places  
Disturbed sleep: too much, too little, fractionated, early awakening  
Ears/Hearing: buzzing, ringing, ear pain, sound sensitivity  
Exaggerated symptoms or worse hangover from alcohol  
Eyes/Vision: double, blurry, increased floaters, light sensitivity  
Facial paralysis (Bell's palsy)  
Fatigue, tiredness, poor stamina  
Forgetfulness  
Headache  
Heart block  
Heart murmur  
Heart palpitations  
Heart valve prolapse  
Increased motion sickness  
Irritability  
Irritable bladder  
Joint pain or swelling  
Lightheadedness  
Mood swings

Muscle pain or cramps  
Neck creaks & cracks  
Neck stiffness, pain  
Numbness  
Pelvic pain  
Poor attention  
Poor balance  
Poor short-term memory  
Problem absorbing new information  
Pulse skips  
Rib soreness  
Sexual dysfunction or loss of libido  
Shooting pains  
Shortness of breath; cough  
Skin hypersensitivity  
Sore throat  
Stiffness of the joints or back  
Swollen glands  
Testicular pain  
Tingling  
Tremor  
Twitching of the face or other muscles  
Unavoidable need to sit or lay down  
Unexplained breast pain  
Unexplained fevers, sweats, chills or flushing  
Unexplained hair loss  
Unexplained menstrual irregularity'  
Unexplained milk production  
Unexplained weight loss or gain  
Upset Stomach or abdominal pain  
Vertigo  
Wooziness

## ***Babesia*** **(*Babesiosis*)**

*Babesia* is a protozoan spread by ticks, blood transfusion, and *in utero*. Despite there being 20+ known forms to date, current testing only looks for two of them (*B. microti* and WA-1).

Air hunger  
Cough  
Fatigue  
Fevers  
Headache  
Hemolysis  
Imbalance without true vertigo  
Mild encephalopathy

Shaking chills

Sweats

### ***Bartonella***

***(Bartonellosis, also known as cat scratch fever)***

Spread by bites from infected ticks and *in utero*

abnormal liver enzymes

encephalopathy

endocarditis

flu-like malaise

headache

hemolysis with anemia

hepatomegaly

high fever

immune deficiency

jaundice

lymphadenopathy

myalgias

myocarditis

papular or angiomatous rash

somnolence

sore throat

splenomegaly

weakened immune response

### ***Ehrlichia***

***(Ehrlichiosis)***

Spread by bites from infected ticks

elevated liver enzymes

headaches

myalgias

ongoing fatigue

persistent leukopenia

thrombocytopenia

*Printed from [www.anapsid.org/lyme/symptoms/tbi-symptoms.html](http://www.anapsid.org/lyme/symptoms/tbi-symptoms.html)*

**More information on Lyme and other tickborne diseases:**

**[www.lymedisease.org](http://www.lymedisease.org)**

**[www.ilads.org](http://www.ilads.org)**

**[www.lymenet.org](http://www.lymenet.org)**