Mandarin Wellness Center Shirley Hartman, M.D.  
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**Lyme Disease and Co-Infections**

**Lyme Symptoms**  
  
 Mitochondrial: Fatigue Poor Exercise Tolerance  
  
 Immune System: Frequent Infections Auto-Immune problems  
  
 Endocrine: Adrenal Reproductive Issues  
 Thyroid Dehydration (even with lots of water)  
  
 Lab Results: Elevated C4a Specific Bands (18, 23, 31, 34, 39, 83-93)

**Bartonella Symptoms**

Nerve Problems: Numbness Tingling Muscle Spasms  
 Twitches Stabbing Pain   
  
 Brain Problems: Brain Fog Migraines Memory Issues   
 Tinnitus Vertigo Light/Sound Sensitivity   
 Seizures Tremors Cognitive Dysfunction  
 Insomnia Anxiety Panic Attacks  
  
 Other Things: Sore Throats Reflux Swollen Lymph Nods  
 Pain in soles of Feet Bulges on Ankles   
 Abdominal Upset Irritable Bowels  
 Joint Cracking/Popping Joint Pain/Swelling  
 Purple Stretch Marks Dotted Red or Lacy Red Rash

**Babesia Symptoms**

Fevers Chills Shortness of Breath   
 Hot & Cold Night Sweats Tension/Pressure Headaches  
 Air Hungry Sludge Blood Neck Pain  
 Chest Pain (Tiny Blood Clots in Capillaries)   
 Overwhelming Fatigue (Requiring 10+ hours of sleep)

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