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)

 02/2022