



## PHYSICAL SYMPTOMS OF LYME DISEASE

### Early Signs (3 to 30 Days After Bite)

- Fever & Chills
- Headache
- Fatigue
- Muscle And Joint Aches
- Swollen Lymph Nodes
- Erythema migrans (EM) rash

### Later Signs (Days to Months After Bite)

- Headaches & neck stiffness
- More Rashes
- Dizziness, Shortness of breath
- Arthritis- severe joint pain & swelling
- Intermittent pain in tendons, muscles, joints, & bones
- Facial palsy
- Inflammation of brain & spinal cord
- Nerve pain
- Lyme carditis



## NEUROCOGNITIVE TICK-BORNE DISEASE SYMPTOMS

- Short-term memory loss
- Difficulty with working memory and executive functioning tasks
- Executive functioning Impairment
- Difficulty sequencing information
- Verbal fluency difficulties – such as name or word retrieval
- Slow processing (listening, oral, and with written word)
- “Brain Fog”
- Sustained attention
- Attentional switching
- Problems with writing math, & sustained reading/comprehension



## NEUROPSYCHIATRIC TICK-BORNE DISEASE SYMPTOMS

- Irritability
- Emotional dysregulation
- Sudden rage/anger
- Nightmares
- Impulse control/ hyperactivity
- Conduct problems/oppositional behaviors
- Easy tearfulness
- Anxiety-Panic attacks
- Depression
- Withdrawn behaviors
- Confusion
- Mania
- OCD
- Paranoia
- Auditory/visual hallucinations
- Sleep disturbances
- Sensory hyperarousal
- Social skill deficits
- PANS and Autism



## OTHER PHYSICAL TICK-BORNE DISEASE SYMPTOMS

- Chronic Fatigue
- Headaches
- Nausea
- Fibromyalgia
- Bell's Palsy
- Arthritis symptoms
- Joint pain/Chronic Pain
- Multiple Sclerosis symptoms/Lupus
- Seizures
- Stomach problems (in children)
- Nerve Pain
- Frequent urination
- Constipation
- Vestibular dysfunction/Visual issues
- Cardiac problems or POTS
- Unusual infections
- Low nutrient levels in the blood
- History of concussion