

**Name:** \_\_\_\_\_ **Birthdate:** \_\_\_\_\_  
**Date of infection:** \_\_\_\_\_ **Date of diagnosis:** \_\_\_\_\_  
**Date of initial antibiotic treatment:** \_\_\_\_\_ **Date of assessment:** \_\_\_\_\_  
**Exposure to endemic area:** \_\_\_\_\_  
**History of tick bites:** \_\_\_\_\_  
**History of erythema migrans rash:** \_\_\_\_\_  
**Flu-like symptoms:** \_\_\_\_\_  
**Recurrent erythema migrans rash:** \_\_\_\_\_  
**Laboratory findings:** \_\_\_\_\_  
**CDC surveillance criteria:** \_\_\_\_\_  
**Co-infections:** \_\_\_\_\_  
**Pre-existing conditions:** \_\_\_\_\_  
**Prior diagnosis:** \_\_\_\_\_

pathological finding      + present      - absent      +/- partial      +/- - slight      or CGI-S      or CGI-I  
 enter

<b>Clinical Impairment</b>	<b>Database: Pre-infection</b>	<b>Database: Post-infection</b>	<b>Patient: Pre-infection</b>	<b>Patient: anytime post-infection</b>	<b>Patient: initial assessment</b>	<b>Patient: subsequent assessment</b>
<b>Attention Span</b>						
Sustained attention	7%	84%				
Distracted by frustration	7%	79%				
Allocation of attention	6%	66%				
Hypersensitivity to sound	3%	66%				
Hypersensitivity to light	2%	63%				
Hypersensitivity to touch	2%	41%				
Hypersensitivity to smell	5%	36%				
Sensory overload	no data					
<b>Memory impairments</b>						
Working memory	3%	78%				
Recent memory	5%	77%				
Working spatial memory	1%	46%				
Remote memory	4%	35%				
<b>Memory retrieval difficulties</b>						
Words	3%	70%				
Names	6%	68%				
Number	3%	52%				
Geographical	1%	49%				
Faces	1%	23%				
Motor memory	1%	10%				
<b>Processing</b>						
Fluency of speech	4%	62%				

Reading comprehension	6%	59%				
Spelling errors	8%	56%				
Word substitution errors	5%	55%				
Calculation	10%	51%				
Optic ataxia	1%	51%				
Auditory comprehension	5%	49%				
Handwriting	8%	47%				
Letter reversal	2%	45%				
Fluency of written language	2%	43%				
Number reversal	1%	39%				
Left-right confusion	6%	30%				
Stuttering	3%	23%				
Transposition of laterality	2%	22%				
Spatial perceptual distortions	1%	21%				
Sound localization	3%	19%				
Slow processing	no data					
<b>Executive functioning</b>						
Brain fog	3%	84%				
Unfocused concentration	4%	81%				
Prioritizing multiple tasks	6%	76%				
Multitasking	3%	74%				
Mental apathy	4%	72%				
Obsessive thoughts	4%	56%				
Racing thoughts	1%	54%				
Abstract reasoning	3%	51%				
Intrusive thoughts	no data					
Time management	no data					
<b>Imagery</b>						
Vivid nightmares	3%	38%				
Hypnagogic hallucinations	2%	21%				
Illusions (auditory, visual)	2%	20%				
Capacity for visual imagery	2%	19%				
Hallucinations (auditory, musical, visual, olfactory, tactile)	2%	18%				
Intrusive aggressive images	1%	19%				
Intrusive sexual images	1%	6%				
Intrusive images, other	1%	10%				
<b>Emotional</b>						
Decreased frustration tolerance	5%	80%				
Sudden mood swings	3%	74%				
Anhedonia	3%	64%				
Crying spells	0%	50%				

Hypervigilance	1%	45%				
Paranoia	1%	26%				
Hyperarousal	no data					
Intrusive emotions	no data					
Other						
<b>Dissociative symptoms</b>						
Depersonalization	2%	64%				
Derealization	1%	29%				
Dissociative episodes	0%	12%				
<b>Behavioral</b>						
Decreased job/school performance	2%	78%				
Decreased social functioning	6%	72%				
Compensatory compulsions	2%	58%				
Dropping objects	2%	52%				
Exaggerated startle reflex	1%	49%				
Marital/family problems	4%	39%				
Explosive anger	3%	39%				
Accident prone	4%	35%				
Disinhibition	2%	33%				
Suicidal	1%	28%				
Substance abuse	1%	12%				
Legal difficulties	1%	8%				
Homicidal	0%	1%				
Other						
<b>Psychiatric syndromes</b>						
Depression	9%	79%				
Generalized anxiety disorder	3%	53%				
Panic disorder	2%	49%				
Social anxiety disorder	7%	36%				
Obsessive compulsive disorder	2%	24%				
Posttraumatic stress disorder	6%	16%				
Rapid cycling bipolar	3%	11%				
Grooming disorder	no data					
Other						
<b>Vegetative Energy</b>						
Fatigue	1%	76%				
<b>Sleep</b>						
Non-restorative sleep	4%	76%				
<b>Insomnia</b>						
Insomnia, initial	5%	70%				

Insomnia, mid	1%	72%			
Insomnia, late	1%	58%			
Hypersomnia	2%	73%			
Loss of circadian rhythm	5%	44%			
Delayed sleep phase disorder	no data				
Sleep apnea, central	no data				
Sleep apnea, obstructive	no data				
Sleep paralysis	no data				
Cataplexy	no data				
Narcolepsy	no data				
<b>Eating</b>					
Anorexia	1%	45%			
Weight loss	1%	45%			
Non-appetite over-eating	2%	34%			
Weight gain without increased food intake	1%	27%			
Weight gain with increased food intake	2%	22%			
<b>Sexual functioning</b>					
Decreased libido	4%	60%			
Decreased arousal	1%	42%			
Decreased orgasm	2%	41%			
Increased libido	1%	9%			
Altered sexual imagery	0%	3%			
<b>Temperature control</b>					
Intolerance to cold	2%	64%			
Body temperature fluctuations	3%	63%			
Night sweats	2%	60%			
Chills	2%	59%			
Intolerance to heat	2%	58%			
Decreased body temperature	5%	52%			
Flushing	3%	49%			
Low grade fevers	1%	47%			
<b>Neurological</b>					
<b>Headache (neurological, musculoskeletal, &amp; other)</b>					
Headache	3%	68%			
Pressure sensation, Tension	2%	57%			
Cervical radiculopathy	0%	43%			
Temporal mandibular joint	2%	41%			
Sinus	5%	41%			
Migraine	4%	33%			
Cluster	0%	10%			
Coital cephalgia	0%	4%			

Thunderclap	no data					
Other						
<b>Cranial nerves</b>						
I Olfactory: loss of smell, altered taste	2%	22%				
II Optic & ophthalmologic						
Photophobia to bright light	3%	61%				
Floaters	1%	56%				
Blurred vision	2%	50%				
Sensitivity to fluorescent and flicker	3%	48%				
Night blindness	4%	36%				
Eye pain	2%	36%				
Dry eyes	0%	32%				
Flashes	0%	23%				
Conjunctivitis	0%	19%				
Peripheral shadows	2%	18%				
Blind spots	1%	12%				
Optic neuritis	0%	2%				
Iritis	0%	1%				
Uveitis	0%	1%				
Papilledema	0%	1%				
Panopsia	no data					
III, IV, VI Double vision or eye drifts when tired, ptosis	2%	36%				
V Sensory loss, pain	0%	27%				
VII Bell's palsy	2%	16%				
VIII Dizziness	2%	53%				
Tinnitus	1%	51%				
Motion sickness	9%	40%				
Vertigo	1%	29%				
Hearing loss	1%	26%				
Tullio's	0%	12%				
Mal de debarquement	no data					
IX, X Episodic loss of speech, choking on food, difficulty swallowing	0%	36%				
XI. Sternocleidomastoid and trapezius pain and paresis	0%	44%				
XII. Tongue deviates to side	0%	5%				
<b>Seizures</b>						
Partial	2%	8%				
Grand mal	1%	4%				
<b>Other Neurological</b>						

Tingling	1%	71%			
Numbness	1%	59%			
Sensory loss	1%	40%			
Burning	1%	36%			
Static electric sensation	0%	35%			
Formication, crawling sensation	0%	35%			
Stabbing sensation	0%	28%			
Sensation of wetness	no data				
Sensation of vibration	no data				
Hyperalgesia, Allodynia	No data				
Paresis	2%	66%			
Muscle tightness	0%	56%			
Twitching	1%	56%			
Restless leg	5%	50%			
Tremor	3%	40%			
Myoclonic jerks	1%	38%			
Ataxia	1%	6%			
Extrapyramidal symptoms	0%	3%			
Tourette's	0%	2%			
Herniated disc(s)	4%	14%			
Other neurological	1%	6%			
Romberg	1%	21%			
<b>Musculoskeletal</b>					
Joint pain, swelling, tightness, crepitation (specify joints) (migratory?)	2%	81%			
Myalgia	1%	54%			
Chondritis (ear, nose, costochondral)	0%	38%			
Fibromyalgia	1%	36%			
Plantar fasciitis	0%	33%			
Epicondylitis	2%	20%			
Tendonitis	3%	17%			
Carpal tunnel	1%	15%			
Periostitis (tibia, ribs, iliac crest, sternum, clavicle, etc.)	4%	7%			
Bone thinning/fractures	1%	7%			
Deep bone pain	no data				
Foot pain	no data				
<b>Cardiovascular</b>					
Racing pulse	0%	48%			
Chest pain	2%	39%			
Episodes rapid and slow heart rate	0%	34%			
Mitral valve prolapse	4%	20%			
Murmur	7%	16%			

Hypertension	2%	15%			
Hypertensive crisis	1%	3%			
Postural orthostatic hypotension	0%	12%			
Postural orthostatic tachycardia	no data				
Heart block	2%	11%			
Cardiomyopathy	0%	2%			
Pericarditis	0%	1%			
<b>Upper respiratory, dental, pulmonary</b>					
Shortness of breath	1%	43%			
Air hunger	no data				
Swollen glands	0%	41%			
Allergies	7%	35%			
Tooth pain	0%	32%			
Periodontal disease	0%	19%			
Cough	1%	28%			
Asthma	4%	14%			
Nose bleeds	1%	7%			
<b>Gastrointestinal</b>					
Irritable bowel	6%	50%			
Abdominal bloating	1%	42%			
Upper GI distress	6%	25%			
Inflammatory bowel	0%	2%			
Cholecystitis	0%	2%			
Non-calculous cholecystitis	no data				
Gall stones	0%	1%			
Hepatitis	0%	1%			
Pancreatitis	0%	1%			
Gastroparesis	0%	1%			
Cyclic vomiting	no data				
<b>Genitourinary</b>					
Spastic bladder	1%	47%			
Genital pain	1%	27%			
Urinary incontinence	1%	18%			
Recurrent urinary tract infection	1%	11%			
Anesthesia of genitalia	0%	6%			
Atrophy of genitalia	1%	3%			
Menstrual irregularity	3%	30%			
Breast tenderness, pain	1%	24%			
Lactation	0%	8%			
Interstitial cystitis	0%	1%			
<b>Other</b>					
Hair loss	2%	47%			
Chronic pain	0%	41%			

Alcohol intolerance	3%	41%			
Ecchymoses	1%	34%			
Multiple chemical sensitivity	2%	25%			
Hypoglycemia	2%	20%			
Ankle edema	1%	20%			
Thyroid dysfunction	1%	20%			
Wilson syndrome	0%	4%			
Adrenal insufficiency	0%	10%			
Vasculitis	0%	5%			
Splenomegaly	0%	4%			
Lymphocytoma	3%	3%			
Acrodermatitis chronicum atrophicans	0%	1%			
Bartonella tracks	no data				
Mold sensitivity	no data				
Other					
<b>Symptom patterns</b>					
Progression of symptoms	0%	86%			
Fluctuation of symptoms	0%	82%			
Stress increased symptoms	0%	77%			
Herxheimer reaction	0%	73%			
Antibiotic reduce symptoms	0%	72%			
28 day or longer symptom cycle	0%	43%			

**Coinfection Screen:**

**Bartonella:** CNS symptoms out of proportion to musculoskeletal, GI as gastritis or abdominal pain (mesenteric adenitis). Sore soles, especially in the morning. Tender subcutaneous nodules along the extremities, especially outer thigh, shins, and occasionally along the triceps. Occasional lymphadenopathy. Morning fevers, usually around 99; occasionally light sweats are noted. Rapid response to treatment changes—often symptoms improve within days after antibiotics are begun, but relapses occur also within days if medication is withdrawn early, papular or linear red rashes. Striae.

**Babesia Species:** high fever, severe headaches, sweats, and fatigue; thus, it is easy to know when infection began. Obvious sweats, usually at night, Air hunger, Headaches can be severe—dull, global (involves the whole head, described like the head is in a vise), Symptoms cycle rapidly, Rarely, splenomegaly.

**Ehrlichia/Anaplasma:** Rapid onset, headaches are sharp, knife-like, often behind the eyes, muscle pain, not joint pain, and can be mild or severe, low WBC, low platelet count, elevated liver enzymes, rarely diffuse vasculitic rash, including palms and soles

**DNA Viruses:** (HHV-6, EBV, CMV) Persistent fatigue, made worse with exercise, sore throat, lymphadenopathy, and other viral-like complaints. May see elevated liver enzymes and low WBCs.

**Mycoplasma:** Gradual onset. May be light night sweats, symptoms are made worse with exercise, major fatigue and neurological dysfunction, especially autonomic neuropathies, metabolic disturbances, immune damage.

**Reference for this assessment:** Bransfield, R. C., Aidlen, D. M., Cook, M. J., & Javia, S. (2020). A Clinical Diagnostic System for Late-Stage Neuropsychiatric Lyme Borreliosis Based upon an Analysis of 100 Patients. *Healthcare (Basel, Switzerland)*, 8(1), 13. <https://doi.org/10.3390/healthcare8010013> PMID: 31935905; PMCID: PMC7151210.

**Prior treatment and response**

Psychiatric treatments:



Oral antibiotics:
Intramuscular antibiotics:
Intravenous antibiotics:
Other treatments:
Diagnosis:
Prioritizing symptom contribution to disease progression and perpetuation:
Treatment options:
Risks vs. benefits & informed consent:
Treatment plan: