Name:				Birthdate:				
Date of infection:	Date of diagnosis:							
Date of infection:	Date of assessment:							
Date of initial antibiotic	treatment:							
Exposure to endemic								
area:								
History of tick bites:								
History of erythema mig	rans rash:							
Flu-like symptoms:								
Recurrent erythema mig	ans 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	-		-	-				
Clinical Impairment	Database:	Database: Post-	Patient: Pre-	Patient: anytime	Patient: initial	Patient: subsequent		
Cinical impairment	Pre-infection	infection	infection	post-infection	assessment	assessment		
Attention Span								
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							
Memory impairments								
Working memory	3%	78%						
Recent memory	5%	77%						
Working spatial memory	1%	46%						
Remote memory	4%	35%						
Memory retrieval difficulties								
Words	3%	70%						
Names	6%	68%						
Number	3%	52%						
Geographical	1%	49%						
Faces	1%	23%						
Motor memory	1%	10%						
Processing	ļ							
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	20/	420/		
language	2%	43%		
Number reversal	1%	39%		
Left-right confusion	6%	30%		
Stuttering	3%	23%		
Transposition of laterality	2%	22%		
Spatial perceptual	1%	21%		
distortions				
Sound localization	3%	19%		
Slow processing	no data			
Executive functioning				
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			
Imagery				
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%		
Emotional				
Decreased frustration tolerance	5%	80%		
Sudden mood swings	3%	74%		
Anhedonia	3%	64%		
Crying spells	0%	50%		

Paranoia1%26%IIIIIIHyperatousalno dataIII <th>Hypervigilance</th> <th>1%</th> <th>45%</th> <th></th> <th></th>	Hypervigilance	1%	45%		
Intrusive emotionsno dataImage: second secon		1%	26%		
Intrusive emotionsno dataImage: second secon	Hyperarousal	no data			
Dissociative symptoms//////////Depersonalization2%64% </td <td></td> <td>no data</td> <td></td> <td></td> <td></td>		no data			
Depensionalization2%64%Image: constraints of the second s					
Depensionalization2%64%Image: constraints of the second s	Dissociative symptoms				
Derealization1%29%Image: constraint of the second		2%	64%		
Dissociative episodes0%12%Image: state st	-	1%			
BehavioralImage: state of the st		0%	12%		
Decreased job/school performance2%78%Image: constraint of the second secon	^				
performance2.%7.%Image: CompensatoryDecreased social functioning6%72%Image: CompensatoryCompensatory compulsions2%58%Image: CompensatoryDropping objects2%52%Image: CompensatoryDropping objects2%52%Image: CompensatoryMarital/family problems4%39%Image: CompensatoryMarital/family problems4%39%Image: CompensatoryAccident prone4%35%Image: CompensatoryAccident prone4%35%Image: CompensatorySuicidal1%28%Image: CompensatorySuicidal1%28%Image: CompensatorySuitidal1%28%Image: CompensatorySuitidal1%1%Image: CompensatoryCompensatory1%1%Image: CompensatoryOther1%1%Image: CompensatoryParki disorder2%49%Image: CompensatoryParic disorder2%24%Image: CompensatoryObsessive compulsive disorder2%24%Image: CompensatoryPostraumatic stress disorder6%16%Image: CompensatoryOther11Image: CompensatoryVegelative Energy1%7%Image: CompensatoryFatigue1%7%Image: CompensatoryNon-restorative sleep4%7%Image: CompensatoryMarcial disorder1%10Image: Compensatory <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
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functioningImage: compensatory compulsions2%58%Image: compulsionsDropping objects2%52%Image: compulsionsImage: compulsionsImage: compulsionsMarital/family problems4%39%Image: compulsionsImage: compulsionsImage: compulsionsMarital/family problems4%39%Image: compulsionsImage: compulsionsImage: compulsionsMarital/family problems4%39%Image: compulsionsImage: compulsionsImage: compulsionsAccident prone4%35%Image: compulsionsImage: compulsionsImage: compulsionsImage: compulsionsSubicidal1%28%Image: compulsionsImage: compulsionsImage: compulsionsImage: compulsionsSubcidal1%28%Image: compulsionsImage: compulsionsImage: compulsionsImage: compulsionsOther1%1%1%Image: compulsionsImage: compulsionsImage: compulsionsGeneralized anxiety3%53%Image: compulsionsImage: compulsionsImage: compulsionsGrooming disorder7%36%Image: compulsionsImage: compulsionsImage: compulsionsGrooming disorder1%11%Image: compulsionsImage: compulsionsImage: compulsionsGrooming disorder1%11%Image: compulsionsImage: compulsionsImage: compulsionsGrooming disorder1%11%Image: compulsionsImage: compulsionsImage: compulsionsVegetativeIma	*	<u> </u>	720/		
compulsions 2% 5% 1% 1% Dropping objects 2% 52% 1% 4% Exaggerated startle reflex 1% 49% 1% 1% Marital/amily problems 4% 39% 1 1 Accident prone 4% 35% 1 1 Disinhibition 2% 33% 1 1 Suicidal 1% 28% 1 1 Substance abuse 1% 12% 1 1 Homicidal 0% 1% 1 1 1 Other 1% 2% 1% 1 1 1 Depression 9% 79% 1 1 1 1 Generalized anxiety disorder 3% 53% 1 1 1 Obsessive compulsive disorder 2% 24% 1 1 1 Rapid cycling bipolar 3% </td <td>functioning</td> <td>6%</td> <td>72%</td> <td></td> <td></td>	functioning	6%	72%		
compulsions 2% 52% 1 1 Dropping objects 2% 52% 1 1 Marital/family problems 4% 39% 1 1 Marital/family problems 4% 39% 1 1 Explosive anger 3% 39% 1 1 1 Accident prone 4% 35% 1 1 1 Suicidal 1% 28% 1 1 1 Suicidal 1% 28% 1 1 1 Substance abuse 1% 12% 1		2%	58%		
Exaggerated startle reflex 1% 49% Marital/family problems 4% 39% Explosive anger 3% 39% Accident prone 4% 35% Disinhibition 2% 33%					
Marital/family problems 4% 39% Image: marger state s					
Explosive anger3%39%Image: state of the					
Accident prone 4% 35% Image: matrix stress disorder 1% 2% 33% Image: matrix stress disorder 1% 2% 1%		4%	39%		
Disinhibition 2% 33% Image: state	Explosive anger	3%	39%		
Suicidal1%28%Substance abuse1%12%Legal difficulties1%8%Homicidal0%1%Other </td <td>Accident prone</td> <td>4%</td> <td>35%</td> <td></td> <td></td>	Accident prone	4%	35%		
Substance abuse1%12%Image: constraint of the synthesis of the syn	Disinhibition	2%	33%		
Legal difficulties1%8%Homicidal0%1%Other </td <td>Suicidal</td> <td>1%</td> <td>28%</td> <td></td> <td></td>	Suicidal	1%	28%		
Homicidal0%1% \sim \sim \sim Other \sim \sim \sim \sim \sim \sim Psychiatric syndromes 9% 79% \sim \sim \sim Depression 9% 79% \sim \sim \sim Generalized anxiety disorder 3% 53% \sim \sim \sim Panic disorder 2% 49% \sim \sim \sim Social anxiety disorder 7% 36% \sim \sim \sim Obsessive compulsive disorder 2% 24% \sim \sim \sim Posttraumatic stress disorder 6% 16% \sim \sim \sim Rapid cycling bipolar 3% 11% \sim \sim \sim Other no data \sim \sim \sim \sim Vegetative Energy 1% 76% \sim \sim \sim Sleep 4% 76% \sim \sim \sim Insomnia \sim \sim \sim \sim \sim	Substance abuse	1%	12%		
OtherImage: state stress of the s	Legal difficulties	1%	8%		
Psychiatric syndromesImage: syndromes of the synd	Homicidal	0%	1%		
Depression9%79%Image: constraint of the section of th	Other				
Generalized anxiety disorder3%53%SolaImage: constraint of the sector of	Psychiatric syndromes				
disorder3%53%Image: state sta	Depression	9%	79%		
Social anxiety disorder7%36%Image: Constraint of the second seco	5	3%	53%		
Obsessive compulsive disorder2%24%Image: Compute computation of the computation	Panic disorder	2%	49%		
Obsessive compulsive disorder2%24%Image: Compute comput	Social anxiety disorder	7%	36%		
disorder6%16%16%Image: Constraint of the sector	Obsessive compulsive	2%	24%		
Grooming disorder no data Image: Constraint of the second se		6%	16%		
Grooming disorder no data Image: Constraint of the second se		3%	11%		
OtherImage: Constraint of the second sec		no data		l I	
Vegetative EnergyImage: Constraint of the second s	-	1			
EnergyImage: Constraint of the system of the sy					
Fatigue1%76%Image: Comparison of the second	-				
SleepImage: Sleep		1%	76%		
Non-restorative sleep 4% 76% Image: Constraint of the second seco	-	1			
Insomnia		4%	76%		
	· · ·	1			
	Insomnia, initial	5%	70%		

Insomnia, mid	1%	72%				1
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					
Eating						
Anorexia	1%	45%				
Weight loss	1%	45%				
Non-appetite over-eating	2%	34%				
Weight gain without	2/0	5-1/0				
increased food intake	1%	27%				
Weight gain with increased food intake	2%	22%				
Sexual functioning						
Decreased libido	4%	60%				
Decreased arousal	1%	42%				
Decreased orgasm	2%	41%				
Increased libido	1%	9%				
Altered sexual imagery	0%	3%				
Temperature control						
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%				
Neurological	1/0	7770				
Headache (neurological,						
musculoskeletal, & other)						
Headache	3%	68%			1	l
Pressure sensation, Tension	2%	57%				
Cervical radiculopathy	0%	43%			1	
Temporal mandibular joint	2%	41%				
Sinus	5%	41%			1	
Migraine	4%	33%		1		
Cluster	0%	10%				
Coital cephalgia	0%	4%				

Thunderclap Other				
Cranial nerves				
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	20/	400/		
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,	0%	36%		
difficulty swallowing				
XI. Sternocleidomastoid	_ · ·			
and trapezius pain and	0%	44%		
paresis				
XII. Tongue deviates to side	0%	5%		
Seizures				
Partial	2%	8%		
Grand mal	1%	4%		

Tingling	1%	71%		
Numbness	1%	59%		
Sensory loss	1%	40%		
Burning	1%	36%		
Static electric sensation	0%	35%		
	070	5570		
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%		
Musculoskeletal				
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	7,0		
Foot pain	no data			
Cardiovascular				
	0%	48%		
Racing pulse				
Chest pain Episodes rapid and slow	2%	39%		
heart rate	0%	34%		
Mitral valve prolapse	4%	20%		
Murmur	7%	16%		
mumu	//0	10/0		

Hypertension	2%	15%			
Hypertensive crisis	1%	3%			
Postural orthostatic					
hypotension	0%	12%			
Postural orthostatic	no data				
tachycardia	no uata				
Heart block	2%	11%			
Cardiomyopathy	0%	2%			
Pericarditis	0%	1%			
Upper respiratory, dental, pulmonary					
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%			
Gastrointestinal					
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				
Genitourinary					
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%			
Other			1		
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					
Symptom patterns					
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. <u>https://doi.org/10.3390/healthcare8010013</u> 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: