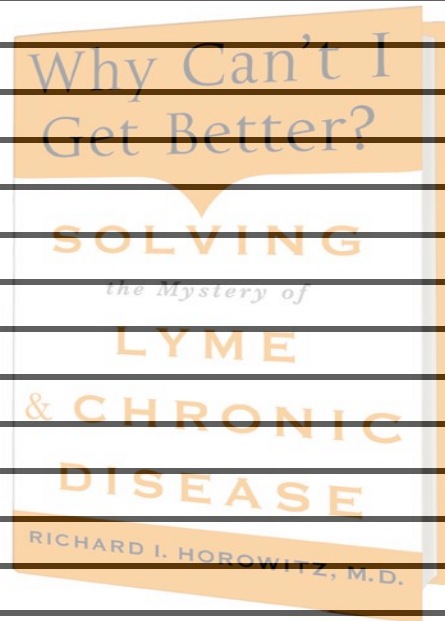


Horowitz Lyme-MSIDS Questionnaire

| SECTION 1: SYMPTOM FREQUENCY SCORE | | | | |
|---|---------------|-------------------|-----------------|--|
| 0 None | 1 Mild | 2 Moderate | 3 Severe | |
| | | | | |
| 1. Unexplained fevers, sweats, chills, or flushing | | | | |
| 2. Unexplained weight change; loss or gain | | | | |
| 3. Fatigue, tiredness | | | | |
| 4. Unexplained hair loss | | | | |
| 5. Swollen glands | | | | |
| 6. Sore throat | | | | |
| 7. Testicular or pelvic pain | | | | |
| 8. Unexplained menstrual irregularity | | | | |
| 9. Unexplained breast milk production; breast pain | | | | |
| 10. Irritable bladder or bladder dysfunction | | | | |
| 11. Sexual dysfunction or loss of libido | | | | |
| 12. Upset stomach | | | | |
| 13. Change in bowel function (constipation or diarrhea) | | | | |
| 14. Chest pain or rib soreness | | | | |
| 15. Shortness of breath or cough | | | | |
| 16. Heart palpitations, pulse skips, heart block | | | | |
| 17. History of a heart murmur or valve prolapse | | | | |
| 18. Joint pain or swelling | | | | |
| 19. Stiffness of the neck or back | | | | |
| 20. Muscle pain or cramps | | | | |
| 21. Twitching of the face or other muscles | | | | |
| 22. Headaches | | | | |
| 23. Neck cracks or neck stiffness | | | | |
| 24. Tingling, numbness, burning, or stabbing sensations | | | | |
| 25. Facial paralysis (Bell's palsy) | | | | |
| 26. Eyes/vision: double, blurry | | | | |



Horowitz Lyme-MSIDS Questionnaire

| | |
|--|--|
| 27. Ears/hearing: buzzing, ringing, ear pain | |
| 28. Increased motion sickness, vertigo | |
| 29. Light-headedness, poor balance, difficulty walking | |
| 30. Tremors | |
| 31. Confusion, difficulty thinking | |
| 32. Difficulty with concentration or reading | |
| 33. Forgetfulness, poor short-term memory | |
| 34. Disorientation: getting lost; going to wrong places | |
| 35. Difficulty with speech or writing | |
| 36. Mood swings, irritability, depression | |
| 37. Disturbed sleep: too much, too little, early awakening | |
| 38. Exaggerated symptoms or worse hangover from alcohol | |
| Section 1: Total Symptom Frequency | |

| | |
|--|--|
| SECTION 2: MOST COMMON LYME SYMPTOMS SCORE | |
| <i>If you rated a 3 for each of the following in section 1, give yourself 5 additional points:</i> | |
| 39. Fatigue | |
| 40. Forgetfulness, poor short-term memory | |
| 41. Joint pain or swelling | |
| 42. Tingling, numbness, burning, or stabbing sensations | |
| 43. Disturbed sleep: too much, too little, early awakening | |
| Section 2: Total Most Common Lyme Symptoms | |

| | |
|--|--|
| SECTION 3: LYME INCIDENCE SCORE | |
| <i>Now please circle the points for each of the following statements you can agree with:</i> | |
| 44. You have had a tick bite with no rash or flulike symptoms. <i>3 points</i> | |
| 45. You have had a tick bite, an erythema migrans, or an undefined rash, followed by flulike symptoms. <i>5 points</i> | |
| 46. You live in what is considered a Lyme-endemic area. <i>2 points</i> | |

Horowitz Lyme-MSIDS Questionnaire

| | |
|--|--|
| 47. You have a family member who has been diagnosed with Lyme and/or other tick-borne infections. <i>1 point</i> | |
| 48. You experience migratory muscle pain. <i>4 points</i> | |
| 49. You experience migratory joint pain. <i>4 points</i> | |
| 50. You experience tingling/burning/numbness that migrates and/or comes and goes. <i>4 points</i> | |
| 51. You have received a prior diagnosis of chronic fatigue syndrome or fibromyalgia. <i>3 points</i> | |
| 52. You have received a prior diagnosis of a specific autoimmune disorder (lupus, MS, or rheumatoid arthritis), or of a nonspecific autoimmune disorder. <i>3 points</i> | |
| 53. You have had a positive Lyme test (IFA, ELISA, Western blot, PCR, and/or borrelia culture). <i>5 points</i> | |
| Section 3: Total Lyme Incidence Score | |

| | |
|---|--|
| SECTION 4: OVERALL HEALTH SCORE | |
| 54. Thinking about your overall physical health, for how many of the past thirty days was your physical health not good? _____ days | |
| Award yourself the following points based on the total number of days: | |
| 0–5 days = 1 point | |
| 6–12 days = 2 points | |
| 13–20 days = 3 points | |
| 21–30 days = 4 points | |
| 55. Thinking about your overall mental health, for how many days during the past thirty days was your mental health not good? _____ days | |
| Award yourself the following points based on the total number of days: | |
| 0–5 days = 1 point | |
| 6–12 days = 2 points | |
| 13–20 days = 3 points | |
| 21–30 days = 4 points | |
| Section 4: Total Overall Health Score | |

Horowitz Lyme-MSIDS Questionnaire

| SECTION 5: SCORING: | |
|--|--|
| Record your total scores for each section below and add them together to achieve your final score: | |
| | |
| Section 1 Total: | |
| Section 2 total: | |
| Section 3 total: | |
| Section 4 total: | |
| Final Score: | |
| If you scored 46 or more , you have a high probability of a tick-borne disorder and should see a health-care provider for further evaluation. | |
| If you scored between 21 and 45 , you possibly have a tick-borne disorder and should see a health-care provider for further evaluation. | |
| If you scored under 21 , you are not likely to have a tick-borne disorder. | |

| Interpreting the Results |
|---|
| <p>We see a high frequency of Section 1 symptoms in our patients, including fatigue, joint and muscle pain that often migrates, sleep disorders, as well as memory and concentration problems, and a high frequency of Section 3 symptoms, especially neuropathic pain that comes and goes and migrates (tingling, numbness, burning, etc.). These form a cluster of presenting symptoms that are characteristic of those with a high probability of having Lyme-MSIDS.</p> |
| <p>In one recent study conducted in our office of 100 consecutive patients, we found that more than 25 percent reported that the following symptoms were present most or all of the time in the month preceding their office visit. Many of these patients reported that these symptoms affected their quality of life: 71 percent reported that their physical health was not good and 47 percent reported that their mental health was not good on at least fifteen days in the previous month.</p> |

Disclaimer:

The Horowitz Lyme-MSIDS Questionnaire is not intended to replace the advice of your own physician or other medical professional. You should consult a medical professional in matters relating to health, and individuals are solely responsible for their own health care decisions regarding the use of this questionnaire. It is intended for informational purposes only and not for self-treatment or diagnosis.