

Peer-Reviewed Evidence of Persistence of Lyme Disease Spirochete *Borrelia burgdorferi* and Tick-Borne Diseases

The following is a list of over 700 peer-reviewed articles that support the evidence of persistence of Lyme and other tick-borne diseases. It is organized into different categories—general, neuropsychiatric, dementia and congenital transmission.

General: Persistence of Lyme Disease Spirochete *Borrelia burgdorferi*

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2. Aberer E, Klade H. Cutaneous manifestations of Lyme borreliosis. *Infection* 1991; 19: 284-286. [chronic Lyme borreliosis].
3. Aberer E, Breier F, Stanek G, and Schmidt B. Success and failure in the treatment of acrodermatitis chronica atrophicans skin rash. *Infection* 1996; 24: 85-87.
4. Aberer E, Kersten A, Klade H, Poitschek C, Jurecka W. Heterogeneity of *Borrelia burgdorferi* in the skin. *Am J Dermatopathol* 1996; 18(6): 571-519.
5. Akin E, McHugh GI, Flavell RA, Fikrig E, Steere AC. The immunoglobulin (IgG) antibody response to OspA and OspB correlates with severe and prolonged Lyme arthritis and the IgG response to P35 with mild and brief arthritis. *Infect Immun* 1999; 67: 173-181.
6. Albert S, Schulze J, Riegel H, Brade V. Lyme arthritis in a 12-year-old patient after a latency period of 5 years. *Infection* 1999; 27(4-5): 286-288.
7. Allred DR. Babesiosis: persistence in the face of adversity. *Trends Parasitol.* 2003;19:51–55.
8. Al-Robaiy S, Dihazi H, Kacza J, et al. Metamorphosis of *Borrelia burgdorferi* organisms—RNA, lipid and protein composition in context with the spirochete’s shape. *J Basic Microbiol* 2010; 50 (Suppl 1): S5-17.
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13. Bankhead T, Chaconas G. The role of VlsE antigenic variation in the Lyme disease spirochete: persistence through a mechanism that differs from other pathogens. *Molecular Microbiology* 2007; 65: 1547-1558.
14. Barthold SW, Persing DH, Armstrong AL, Peeples RA. Kinetics of *Borrelia burgdorferi* dissemination and evolution of disease following intradermal inoculation of mice. *Am J Pathol* 1991; 139: 263-273.
15. Barthold SW, deSouza MS, Janotka JL, Smith AL, Persing DH. Chronic Lyme borreliosis in the laboratory mouse. *Am J Pathol* 1993; 143: 951-971.
16. Barthold SW, Hodzic E, Imai DM, Feng S, Yang X, and Luft BJ. Ineffectiveness of tigecycline against persistent *Borrelia burgdorferi*. *Antimicrob Agents Chemother* 2010; 54(2): 643-651.

17. Barthold SW. Global challenges in diagnosing and managing Lyme disease—closing knowledge gaps. Testimony before House Committee on Foreign Affairs, United States Congress, 17 July 2012. Transcript available at: <http://archives.republicans.foreignaffairs.house.gov/112/75161.pdf>
18. Battafarano DF, Combs JA, Enzenauer RJ, Fitzpatrick JE. Chronic septic arthritis caused by *Borrelia burgdorferi*. *Clin Orthop* 1993;297: 238-241.
19. Baum E, Hue F, Barbour AG. Experimental infections of the reservoir species *Peromyscus leuopus* with diverse strains of *Borrelia burgdorferi*, a Lyme disease agent. *Mbio*. 2012;3: e00434-12.
20. Bayer ME, Zhang L, Bayer MH. *Borrelia burgdorferi* DNA in the urine of treated patients with chronic Lyme disease symptoms. A PCR study of 97 cases. *Infection*. 1996; 24: 347-353.
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ILADS is grateful to Drs. Robert Bransfield, Bernt-Dieter Huismans, Steven Phillips, John Scott and Raphael Stricker for help with compiling this list of references.