Lyme (Borrelia B.) Related Heart Issues

- Electrical Conduction Issues Causing Abnormally Slow Heart Rate [1]

- Lyme Carditis – Conduction System Disease (Heart Block) [2]
  - Can lead to death
  - Conflicting evidence that Borrelia may lead to congestive heart failure

- Lyme Carditis May Lead to Myocarditis or Pericarditis (inflammations) [3][5]
  - Untreated, severe cases of Mycoplasma Pneumoniae can also lead to Myocarditis and heart block in rare cases [12]

- Symptoms of Lyme Carditis: Light-Headedness, Shortness of Breath [3]

- Lyme Carditis Should Resolve with Antibiotics [4]
  - In rare cases, temporary or permanent pacemaker was necessary

- Degenerative Valvular Disease Has Also Been Associated with Borrelia B. [5]
Babesia Related Heart Issues

- Serious Complications of Babesia Include [6]:
  - Acute Respiratory Failure
  - Heart Failure
  - Coma

- Untreated Babesia Can Lead to Congestive Heart Failure [7][8][9]

- In a Study of 34 Babesia Patients, 41% Developed Complications such as [9]:
  - Acute Respiratory Failure
  - Disseminated Intravascular Coagulation
  - Congestive Heart Failure
  - Renal Failure
Bartonella Related Heart Issues

- Bartonella Known to Cause Endocarditis [10]
- Endocarditis Leads to Mitral Valve & Aortic Valve Regurgitation [10]
  - Severe cases require surgical replacement of valves
- Effective Antibiotic Therapy for Bartonella Endocarditis Should Include Aminoglycoside [11]
References


[3] Lyme Disease and the Heart (American Heart Association Journals)
http://circ.ahajournals.org/content/127/7/e451.full

[4] Cardiac Manifestations of Lyme Disease (Thomas J. Earl MD / Rimed)


[6] Lyme and Tick-Borne Diseases Research Center (Columbia University)
http://columbia-lyme.org/patients/tbd_babesia.html

References (Continued)

[8] Update on Babesiosis [IPID Journals]
http://www.hindawi.com/journals/ipid/2009/984568/

[9] Severe Babesiosis in Long Island: 34 Cases and Their Complications (Oxford Journals)
http://cid.oxfordjournals.org/content/32/8/1117.long

[10] University of Medicine & Dentistry New Jersey – List of Research Papers
http://rwjms1.umdnj.edu/shindler/sbebart.html


[12] Complete heart block from mycoplasma pneumoniae infection (PubMed)