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The Oxford Textboo Edited by David Warrell, Tim Member of the IDSA? Claim

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Counterpoint: Long-Term Antibiotic Therapy Improves Persistent Symptoms Associated with Lyme Disease

PowerPoint Slide for Teaching

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Immunosuppression

Tick saliva components

Complement inhibition

Inhibitory cytokine induction (IL-10)

Lymphocyte/monocyte tolerization

Antibody sequestration in immune complexes

Genetic, phase, and antigenic variation

Gene switching (trypanosomes)

Mutation/recombination (HIV)

Variable antigen expression (Neisseria species)

Dormant state, autoinduction (Mycobacterium species)

Fibronectin binding (Staphylococcus and Streptococcus species)

Physical seclusion

Intracellular sites

Multiple cell types (synovial cells, endothelial cells, fibroblasts,

macrophages, Kupffer cells, and nerve cells)

Persistent infection in vitro (8 weeks)

Extracellular sites

Privileged sites (joints, eyes, and CNS)

Cloaking mechanisms (binding to proteoglycan, collagen,

plasminogen, integrin, and fibronectin)

Secreted factors

Hemolysin (BlyB)

Porin (Oms 28)

Adhesin (Bgp)

Pheromones (DPD/AI-2)

Aggrecanase (ADAMTS-4)

NOTE. See text for explanation and references.

Table 1

"Stealth" pathology of Borrelia burgdorferi.

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