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The treatment of Lyme disease using botanical medicine and essential oil extracts

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Borellia burgdorfi, a spirochete microorganism, is the infectious agent of Lyme disease, the number one growing insect vector disease in the United States. *B. burgdorfi*, when transmitted into the human host via a tick, also travels with many other co-infections. Current research shows there are five common co-infections that are transmitted alongside *B. burgdorfi*, *Babesia*, *Ehrlichia*, *Mycoplasmas*, and *Anaplasmas*. The treatments of Lyme disease and co-infections have shown growing results using botanical medicine as well as essential oils. When an organism attaches itself to the cell receptor of a normally healthy cell, it signals the release of cytokines, important for intercellular communications in the body. The cytokine is a signal telling the immune system what is happening and what that cell needs. The immune system responds sending specific cells to that part of the body. The co-infections and *B. burgdorfi* utilize this process to enable their successful infection of the body. Instead of waiting for the immune system to respond to them, they do it as soon as they enter the blood of the host, facilitating its spread throughout the body and sequestration inside the human cells. When understanding the invasion of the immune system via these microorganisms, botanical medicine can be used to modulate the damage, weakening the microbes, increasing the immune system and in turn creating an environment within the body that the organisms can no longer survive.

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