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Update on flea and tick associated diseases of cats

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**Abstract**

There are multiple vector-borne diseases in cats, the most prominent being those transmitted by mosquitos, sand flies, fleas, and ticks. Many of the agents vectored by fleas or ticks have been grown or amplified from blood or have induced serum antibodies in the serum of normal cats or those with clinical signs like fever and will be the focus of this manuscript. As high as 80% of fleas collected from cats contain at least one organism that could induce illness in cats or people. *Anaplasma phagocytophilum*, *Bartonella* spp, *Borrelia* spp., *Ehrlichia* spp., hemoplasmas, and *Rickettsia* spp. infect cats and can be associated with clinical illness. *Anaplasma phagocytophilum* and *B. burgdorferi* are transmitted by *Ixodes* spp., *Ehrlichia* spp. and *A. platys* are transmitted by *Rhipicephalus sanguineus*. Fleas vector

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