

Seroprevalence of Nine *Leptospira* Interrogans Serovars in Wild Carnivores, Ungulates, and Primates From a Zoo Population in a Metropolitan Region Of Chile

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Resumen

Serum samples from 130 individuals representing 42 species of carnivores, ungulates, and primates from a population of captive mammals in Metropolitan Region in Chile were tested for antibodies against nine serovars of *Leptospira interrogans* using the microscopic agglutination test. Ten percent of the animals were seropositive to one or more serovars. Seroprevalence was significantly higher in ungulates (20.4%) compared to carnivores (3.8%) and primates (3.4%). There were no significant differences in seroprevalence among sex and age ranges. The most frequent serovar detected was Autumnalis, present in 53.4% of antibody-positive animals. Most positive animals had titers of $\leq 1 : 200$, except for a maned wolf (*Chrysocyon brachyurus*) with titers of $1 : 400$ against serovar Hardjo. To the authors' knowledge, this is the first report of *Leptospira* exposure detected in native endangered pudu (*Pudu puda*) and the first confirmation of exposure to *L. interrogans* in captive wild mammals in Chile. Leptospirosis should be considered as a differential diagnosis in future disease presentation for hepatitis or abortions in captive mammals in Chile.

Palabras clave

Palabras clave de autor: [Chile](#); [Leptospira interrogans](#); [seroprevalence](#); [zoo mammals](#)

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