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Seroprevalence and risk factor analysis of human leptospirosis in distinct climatic regions of Pakistan.

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ABSTRACT

Leptospirosis is a worldwide emerging infectious disease of zoonotic importance and large epidemics and epizootics have been reported all over the globe. A cross survey study was conducted to estimate seroprevalence of human leptospirosis in climatically distinct regions of Pakistan and to identify the risk factors associated with the disease. Blood samples from 360 humans were collected through convenient sampling, 120 from each of three study areas. Serological testing was performed using ELISA kit as per manufacturer's recommendations. The results showed an overall prevalence of 40.83% (95% CI; 35.71-46.11). Statistical analysis showed significant ($P<0.05$) differences in leptospiral seroprevalence in three different geographic locations, with highest in humid sub-tropical

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