

Accepted Manuscript

Title: The burden of tick-borne diseases in the Altai region of Russia

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PII: S1877-959X(17)30074-2
DOI: <http://dx.doi.org/doi:10.1016/j.ttbdis.2017.06.004>
Reference: TTBDIS 840

To appear in:

Received date: 8-2-2017
Revised date: 27-5-2017
Accepted date: 13-6-2017

Please cite this article as: Dedkov, V.G., Simonova, E.G., Beshlebova, O.V., Safonova, M.V., Stukolova, O.A., Verigina, E.V., Savinov, G.V., Karaseva, I.P., Blinova, E.A., Granitov, V.M., Arsenjeva, I.V., Shipulin, G.A., The burden of tick-borne diseases in the Altai region of Russia. *Ticks and Tick-borne Diseases* <http://dx.doi.org/10.1016/j.ttbdis.2017.06.004>

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The burden of tick-borne diseases in the Altai region of Russia

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Abstract

This article presents the results of a comprehensive survey of the burden of tick-borne infectious diseases (TBIDs) in the Altai region of Russia. Official data for TBID incidence were analyzed and 201 samples from patients with suspected TBID were studied. Furthermore, questing ticks and ticks recovered from humans were examined to estimate prevalence of TBID-causative agents. The Altai region was determined to have a heightened risk for TBIDs in Russia. The most epidemiologically significant tick-borne illness in this area is spotted fever group rickettsiosis, while nationally in Russia, the leading TBID is Lyme borreliosis. The prevalence of mixed infection was 12.4% among the studied cases. Additionally,

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