TicksInfo Application: Information Guide on Ticks and Diseases They Transmit

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Abstract

Every year many people in Russia become victims of ticks. Ticks are blood-sucking insects that can transmit a variety of diseases dangerous to humans. Ticks are ubiquitous. Mostly they are concentrated in humid places, in forest edges, along trails, and in grassy undergrowth. According to the statistics of tick bites for Russian Federation [1], the incidence of tick-borne encephalitis in the last three years has increased in relation to period of the 2006-2008 to 12.5% and the number of patients with tick-borne encephalitis and Lyme disease increased by 30%. Unfortunately, tick bites rate grows recently.

Ticks can be infection transmitters. If the person was bitten by such a tick, then a person can be infected by tick-borne encephalitis and/or Lyme disease. These hgtick-born diseases are widespread in Russian Federation: 68 subjects of the Russian Federation are considered as areas where tick-borne encephalitis is widely distributed. It becomes clear that everyone should know precautions and be able to give first aid in case of a tick bite.

TicksInfo is an application for mobile phones, which provides a user with information about ticks. The program helps to choose better clothes that best protects users from ticks. It gives instructions on how to give first aid to people bitten by a tick. Besides, application timely notify when users need to be vaccinated and take out insurance. The application has also a feature of determining the level of threat to be bitten by a tick based on the user’s location and current season. When the level of threat is determined, TicksInfo gives context-sensitive advice that helps to diminish threat level.

The application mission is to inform people about the necessary safety precautions, rules and methods of protection, and first aid. We believe that it will be useful for people that want to get information about ticks and protect themselves from a risk of being bitten by a ticks.

Index Terms: Ticks, TicsInfo.

REFERENCES