From 1998–2011 we observed a substantial increase in TBE virus both in questing and in feeding ticks in Komi Republic, Russia. The average annual incidence rate of TBE was >6-fold higher than during previous periods. We found a 23-fold increase in the tick-bite incidence rate in humans, a northward shift of the reported tick bites, and an increase in the tick bite season from 4 to 6 months.

The increase in TBE correlated with the expanding range of *Ixodes persulcatus* ticks. The territory with reported cases of TBE expanded northwards.