

TBE in Kyrgyzstan

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E-CDC risk status: endemic (last edited in May 2025, update for 2024: 42 reported cases)

History and current situation

There is very little information and there are only a few publications on TBE in Kyrgyzstan. A survey by Atkinson¹ references the following: In humans and birds low seropositivity has been demonstrated as early as 1973. In 1978, the TBEV was isolated from ticks, and twelve human cases were reported between 1976–1981.

A more recent publication confirmed virus circulation between 2007 and 2009 in local tick populations in Ala-Archa National Nature Park ≈40 km south of Bishkek, the capital of Kyrgyzstan, as well as serologic evidence of a possible human TBE case.²

The TBEV strain isolated from an *Ixodes persulcatus* tick pool and from liver samples from 2 *Apodemus pallipes* mice was shown to be of the Siberian (TBEV-Sib) subtype and most closely related to strains from Novosibirsk.²

Overview of TBE in Kyrgyzstan

Table 1: Virus, vector, transmission of TBE in Kyrgyzstan

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|-------------------------------------|--|
| Viral subtypes, distribution | Siberian TBEV strains from Bosnia, the Crimean peninsula, Kyrgyzstan and Kazakhstan are clustered into a newly described Bosnia Lineage ³ |
| Reservoir animals | Rodents, insectivores |
| Infected tick species (%) | <i>I. persulcatus</i> |
| Dairy product transmission | Not known |

Burden of TBE in Kyrgyzstan over time:

no data available

Age and gender distribution of TBE in

Kyrgyzstan: no data available

TBEV-isolation and TBE cases in Kyrgyzstan:

no reported cases of TBE in the country

Table 2: TBE reporting and vaccine prevention in Kyrgyzstan

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| Mandatory TBE reporting | Not known |
| Other TBE surveillance | Not known |
| Special clinical features | Not known |
| Available vaccines | Not known |
| Vaccination recommendations and reimbursement | Not known |
| Vaccine uptake by age group/risk group/general population | Data not available |
| Name, address/ website of TBE NRC | Not known |

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Citation:

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