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Poster TBE Epidemiology

Countries: Lithuania, Latvia & Estonia

Authors: Aukse Mickiene¹, Saulius Caplinskas^{2,3}, Milda Zygutiene²,

Irina Lucenko⁴, Kuulo Kutsar⁵

¹Lithuanian University of Health Sciences, Kaunas

²Centre for Communicable Diseases and AIDS, Lithuania

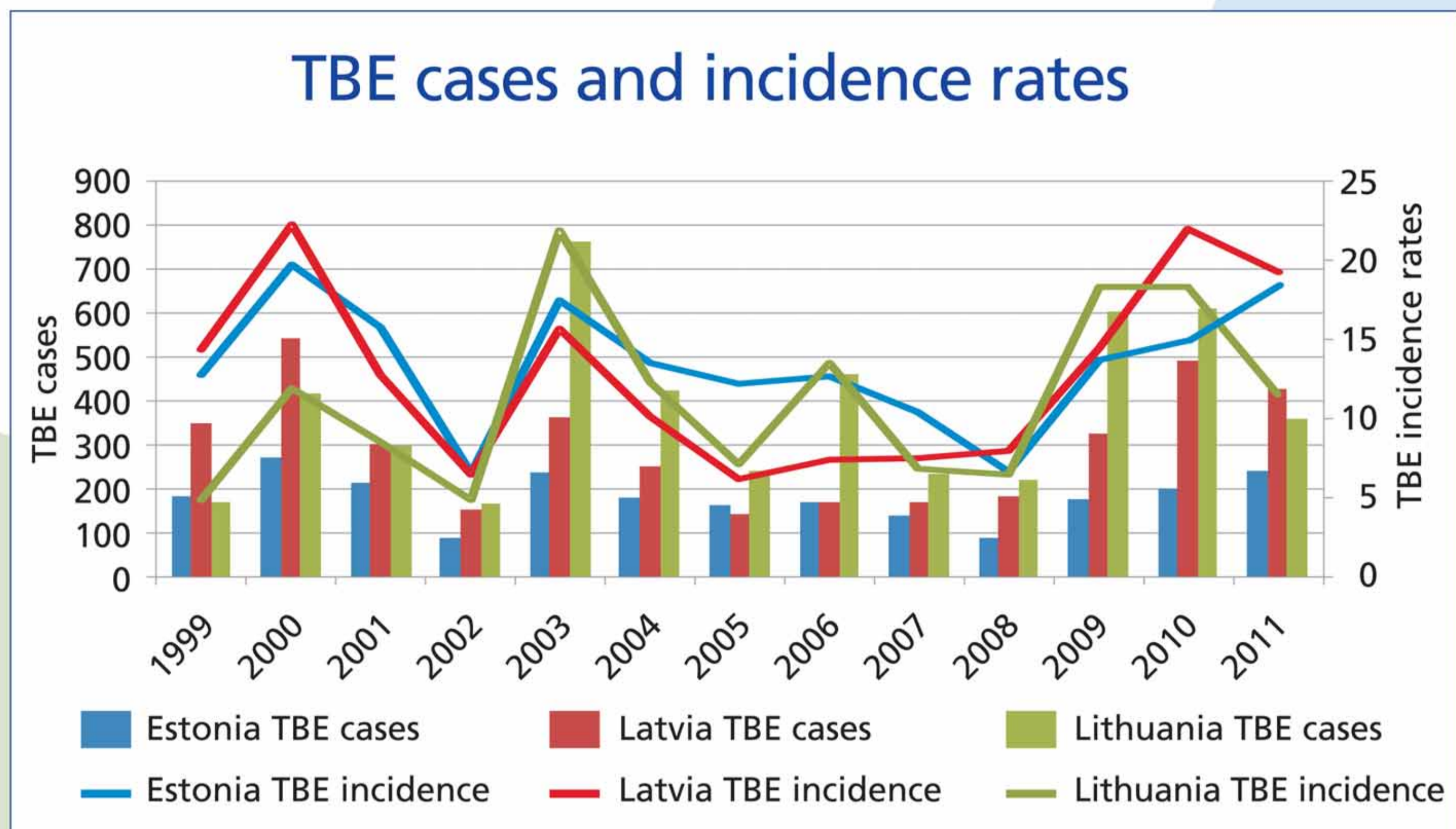
³Mykolas Riomeris University, Vilnius

⁴Infectious Diseases Surveillance and Immunization Unit Department of Epidemiological Safety and Public Health State Agency, Latvia

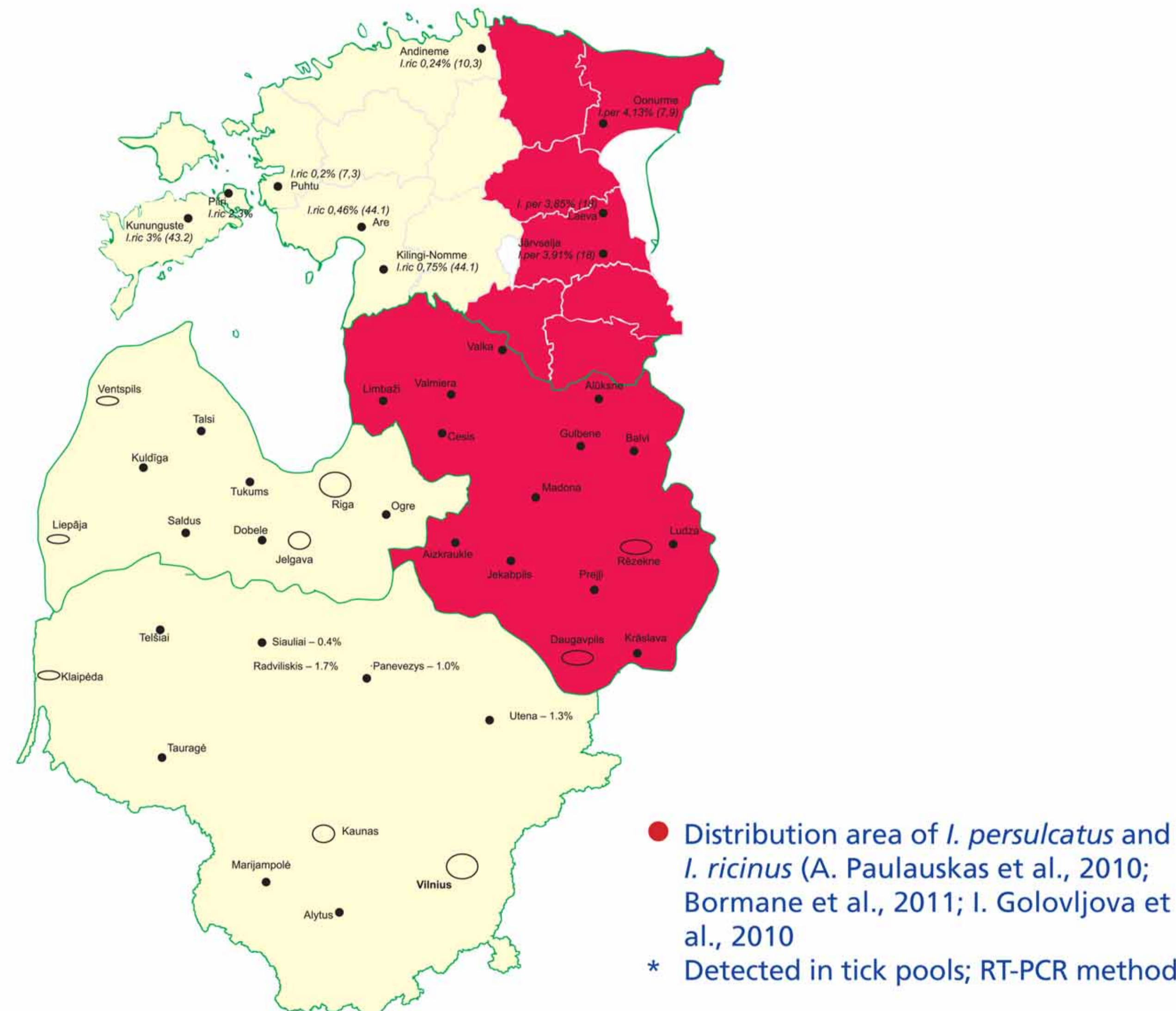
⁵Estonian Health Board



9493 TBE cases were reported in Baltic countries during 2000 – 2010. It made 29, 8% of all reported TBE cases in Europe during that period

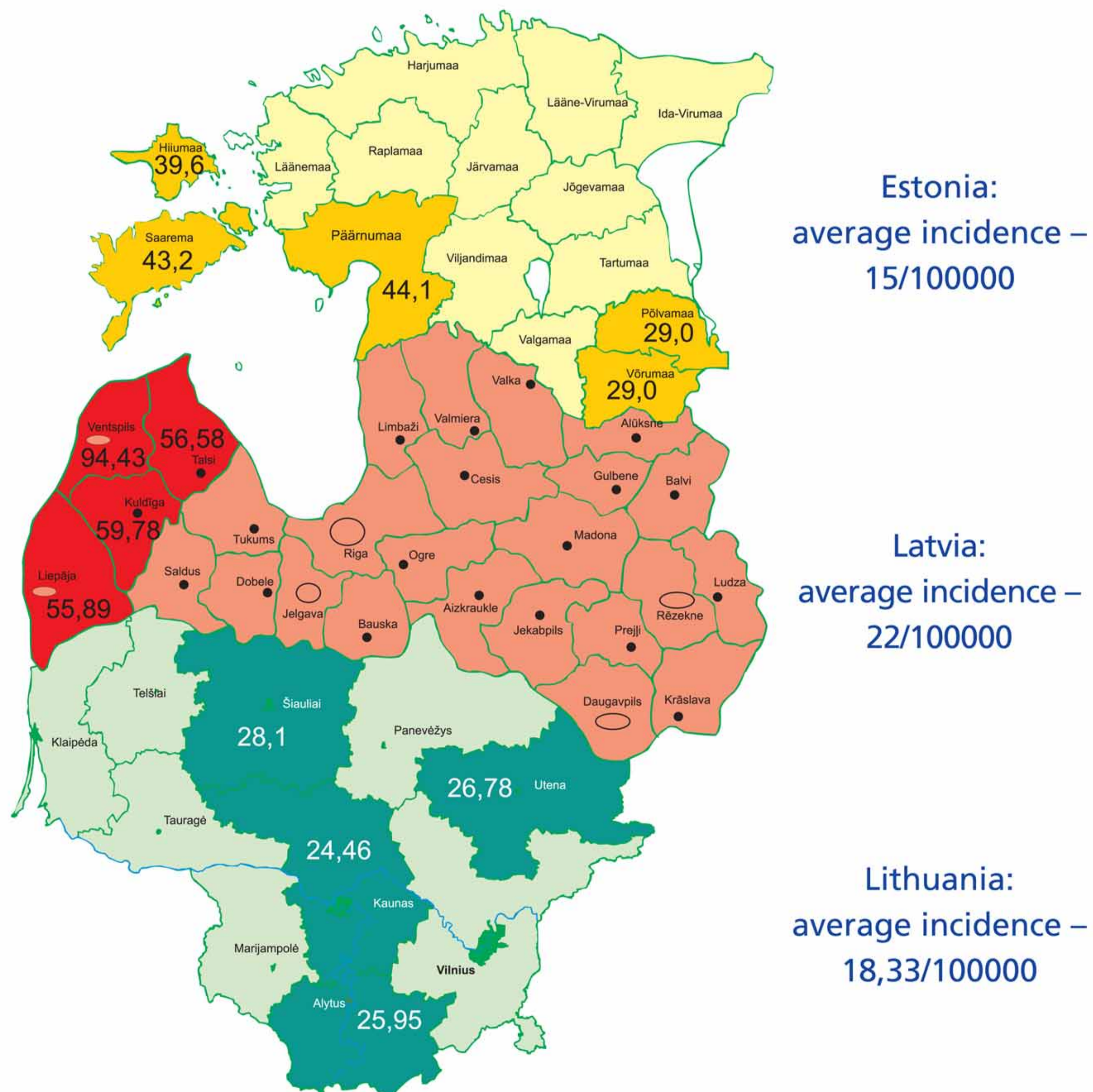


Distribution of *I. ricinus* and *I. persulcatus* and prevalence of TBEV in field ticks*

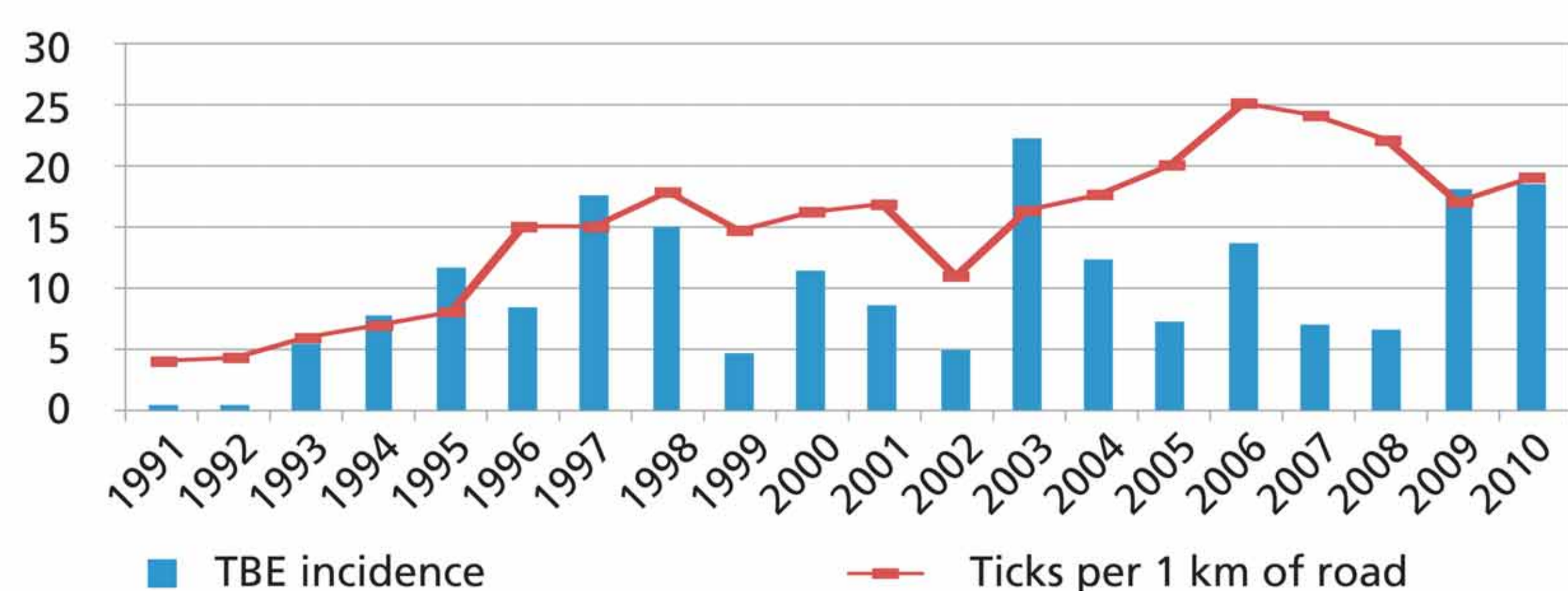


Country	Average prevalence of TBEV in field ticks	Method used	References
Lithuania	1,30%	RT-PCR	Randolf SE et al., 2010
Latvia	6,8%	RT-PCR	Bormane et al., 2011
Estonia	2,09%	RT-PCR	I. Golovljova et al., 2010

Counties with the highest TBE incidence in 2010



Incidence of TBE and average annual density index of *I. ricinus* in Lithuania



	Notifiable disease	Case definition	Diagnostic assays	TBE virus subtypes
Lithuania	Yes, since 1969	No officially approved case definition; only CNS forms are registered; serological confirmation obligatory	ELISA IgM in serum	European
Latvia	Yes, since 1999 (data from 1955)	No officially approved case definition; febrile and CNS forms are registered; serological confirmation obligatory	ELISA, IgM and IgG in serum	All three subtypes
Estonia	Yes, since 1950	Possible case: Typical clinical case history (biphasic course of infection), epidemiological links (e.g. tick attack) Confirmed case: with laboratory confirmation: not less than four-fold increase in antibody titre in pair serums or IgM-antibodies in serum/CSF or positive PCR	ELISA, IgM and IgG in serum	All three subtypes

	Lithuania	Latvia	Estonia
Cases of alimentary TBE	2010: 0 2011: 13	5 8	1 2
Vaccination coverage*	2008: 9%	39%	18%

Serological Survey Data from Lithuania		
From humans	2.96% (HI)	A. Juceviciene et al., 2002
	2.4% (IgG ELISA+RFFIT)	Radvilaviciene & Mickiene (unpublished data)
From sentinel animals	1,7% (RT-PCR)	A. Juceviciene et al., 2005
From goats	12,1-33,3% (IFA, HI)	Bagdonas et al., 2005
	3.2% (0-24.1%) (IFA, HI)	Nekrosiene et al. 2003

