



Supplementary Materials

Table S1. Demographic, clinical, and laboratory characteristics of patients with tick-borne encephalitis on admission in relation to positive or negative test result for IgM or IgG antibodies to *B. burgdorferi sensu lato*.

Characteristic	<i>Borrelia</i>	<i>Borrelia</i>	<i>p</i> Value
	seropositive <i>n</i> = 282	seronegative <i>n</i> = 402	
Age	59 (46–69)	49 (35–61)	<0.001
Male sex	176 (62.4)	219 (54.5)	0.047
Charlson comorbidity index	2 (0–3)	1 (0–2)	<0.001
Vaccinated against TBE	14 (5.0)	14 (3.5)	0.443
Clinical presentation			
Meningitis	61 (21.6)	96 (23.9)	0.778
Meningoencephalitis	196 (69.5)	270 (67.2)	
Meningoencephalomyelitis	25 (8.9)	36 (9.0)	
Severity of acute illness			
Mild	103 (25.7)	66 (23.4)	0.374
Moderate	246 (61.4)	169 (59.9)	
Severe	52 (13.0)	47 (16.7)	
Severity score of acute illness	12 (9–19)	12 (8–17)	0.229
CSF leukocyte count ($\times 10^6/L$)	75.5 (40–138)	105 (55–188.3)	<0.001

Data are median (interquartile range) or number (%) of patients. Abbreviations: CSF, cerebrospinal fluid.

Table S2. Demographic, clinical, and laboratory characteristics of patients with tick-borne encephalitis and possible borrelial co-infection according to whether or not they received anti-borrelial antibiotic therapy.

Characteristic	Anti-borrelial antibiotic therapy		<i>p</i> Value
	Yes <i>n</i> = 144	No <i>n</i> = 96	
Age	61 (50.8–69)	53.5 (41.8–67)	0.006
Male sex	94 (65.3)	54 (56.3)	0.203
Charlson comorbidity index	2 (1–3)	1 (0–3)	0.006
Vaccinated against TBE	9 (6.3)	3 (3.1)	0.371
Clinical presentation			
Meningitis	35 (24.3)	15 (15.6)	0.268
Meningoencephalitis	97 (67.4)	72 (75.0)	
Meningoencephalomyelitis	12 (8.3)	9 (9.4)	
Severity of acute illness			
Mild	35 (24.3)	19 (19.8)	0.554
Moderate	83 (57.6)	62 (64.6)	
Severe	26 (18.1)	15 (15.6)	
Severity score of acute illness	13 (9–20)	12 (10–18.3)	0.858
CSF leukocyte count ($\times 10^6/L$)	67 (35–129.3)	74.5 (34.5–138.3)	0.968

Data are median (interquartile range) or number (%) of patients.

Table S3. Number (%) of patients with tick-borne encephalitis and possible borrelial co-infection who had incomplete recovery at follow-up visits in relation to whether or not they received anti-borrelial antibiotic therapy.

	All <i>n</i> = 240	Anti-borrelial antibiotic therapy		<i>p</i> Value ^a
		Yes <i>n</i> = 144	No <i>n</i> = 96	
2 months post-enrolment	129/232 (55.6)	77/140 (55.0%)	52/92 (56.5%)	0.926
6 months post-enrolment	72/192 (37.5)	48/122 (39.3)	24/70 (34.3)	0.588
12 months post-enrolment	41/128 (32.0)	29/94 (30.9)	12/34 (35.3)	0.794
At final evaluable visit	75/233 (32.2)	43/140 (30.7)	32/93 (34.4)	0.654

^a Overall *p* value for comparisons between groups was estimated using the normal approximation with continuity correction; *p* < 0.05 was considered significant.