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Learning to Live with Ticks? The Role of Exposure and Risk Perceptions in Protective Behaviour Against Tick-Borne Diseases

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Learning to Live with Ticks? The Role of Exposure and Risk Perceptions in Protective Behaviour Against Tick-Borne Diseases

Kan vi lära oss att leva med fästingar? En studie av riskuppfattning och beteende kopplat till fästingburna sjukdomar

Overview

Identification SND1049-001

Abstract

The purpose of this study is to analyse the role of risk perceptions and exposure for protective behaviour against tick bites and the related diseases Lyme borreliosis (LB) and tick-borne encephalitis (TBE), both of which are growing health concerns. We use data from a national survey in Sweden with respondents in geographical areas with substantial differences in both abundance of ticks and incidence of LB and TBE. We find that the share of respondents who frequently use protective clothing (64%), perform tick checks (63%) or avoid tall grass while in areas with ticks (48%) is relatively high. However, the use of protective measures is uneven and a considerably lower share tuck their trousers into their socks (18%), use repellent against ticks (16%) or use a combination of protective measures. Thirty-one per cent of the respondents report one or more tick bites in the last year and 68% report one or more lifetime tick bites, indicating that it is difficult to protect oneself from tick bites. There is a strong positive association between exposure and checking the skin for ticks, but exposure is only weakly associated with other protective measures. Tick bites are perceived as a serious health risk by as many as 43% of the respondents. The perception that a single tick bite is serious is negatively associated with actual exposure to ticks, while the opposite is true for the perception that tick bites constitute a serious lifetime health risk. This indicates a learning effect in relation to risk perceptions and the performance of tick checks, but not in relation to other protective measures. Recommendations include informing people of the risks associated with tick bites, the efficacy of various protective measures and the importance of combining multiple types of protection. Given the high exposure to tick bites, the growing incidence of TBE and LB, and the difficulties in preventing tick bites, other preventive measures should be further discussed, including vaccination programmes.

Unit of Analysis Individual

Scope & Coverage

Keywords Ticks, Tick-Borne Diseases, TBE, Borrelia Infections, Dangerous Behavior, Encephalitis, Tick-Borne, Risk Assessment

Topics ECONOMICS, HEALTH, NATURAL ENVIRONMENT, Medical and Health Sciences, Social Sciences

Time Period(s) 2013

Countries Sweden

Producers & Sponsors

Primary Investigator(s) Slunge, Daniel University of Gothenburg, Department of Economics, School of Business, Economics and Law

Sampling

Sampling Procedure

The questionnaire was distributed online in October 2013 to 6 000 respondents aged 18–85 years in a national internet panel representative of the Swedish population. The internet panel consists of approximately 8 000 members recruited through telephone interviews with randomly sampled respondents. After two reminders, responses from 2

066 participants were received, corresponding to a response rate of 34%. This paper uses only the 1 510 respondents (25%) who answered all questions corresponding to the variables included in this analysis.
Other

Data Collection

Data Collection	start 2013-10-01
Dates	end 2013-11-30
Time Period(s)	
Data Collection Mode	Self-administered questionnaire
Data Collector(s)	Enkätfabriken

File Description(s)

Dataset contains 1 file(s)

Learningtolivewithticks april 18 2018

Cases	1510
Variable(s)	70

Variables List

Dataset contains 70 variable(s)

File Learningtolivewithticks april 18 2018

	Name	Label	Question
1	SND_study	SND-studie 1049	-
2	SND_dataset..	SND-dataset 1049-001	-
3	SND_version..	SND version 1.0	-
4	female	Female respondent	-
5	age	Age	-
6	age1830	Aged between 19 and 30, inclusive	-
7	age3145	Aged between 31 and 45, inclusive	-
8	age4665	Aged between 46 and 65, inclusive	-
9	age66plus	Aged more than 65	-
10	income	Household pre-tax income/month (SEK)	-
11	education	Level of highest completed education	-
12	university	Has studied at university	-
13	children	Has child below 18 years	-
14	rural	Lives in the countryside/small village	-
15	outtickarea..	Monthly of more frequent visists to areas with ticks	-
16	outTBEarea	Monthly or more frequent visists to TBE risk area	-
17	notriskarea..	Lives in Emerging Risk Area	-
18	tickriskonly..	Live in Tick Risk Area	-
19	tberiskarea..	Live in TBE Risk Area	-
20	cat	Cat owner	-
21	dog	Dog owner	-
22	farmanimal	Other outdoor animal	-
23	summerhouseri..	Spends time in a summer house in area with TBE	-
24	worktickrisk..	Work involves risk of tick bites	-
25	outforestdail..	Visits areas with ticks daily	-
26	outforestweek..	Visits areas with tick weekly	-
27	outforestmont..	Visits areas with ticks monthly	-
28	outTBEdaily..	Visits areas with risk of TBE daily	-
29	outTBEweekly..	Visits areas with risk of TBE weekly	-
30	outTBEmonthly..	Visits areas with risk of TBE monthly	-
31	notickbites..	Has never had a tick bite	-
32	onetickbite..	Has had 1 tick bite in lifetime	-
33	sometickbites..	Has had 2-10 tick bite in lifetime	-
34	tickbites10pl..	Has had more than 10 tick bites in lifetime	-
35	tickbiteever..	Has had 1 or more tickbites in lifetime	-

File Learningtolivewithticks april 18 2018

	Name	Label	Question
36	tbite12m	Had at least 1 tick bite in last 12 months	-
37	tickbornedise ..	Respondent has had a tick borne disease	-
38	tbe	Respondent has been diagnosed with TBE	-
39	borrelia	Respondent has been diagnosed with borrelia	-
40	othertickborn ..	Other tick-borne disease	-
41	friendtickbor ..	Someone in family or friends has had a tick borne disease	-
42	knowledge	Nr of correct answers on knowledge questions	-
43	know1	Knowledge: Small risk of getting ill from tick bite	-
44	know2	Knowledge: Borrelia not contagious from person to person	-
45	know3	Knowledge: Mosquito repellent also repels ticks	-
46	know4	Knowledge: There is a vaccine against TBE	-
47	know5	Knowledge: TBE cannot be treated with antibiotics	-
48	know6	Knowledge: Borrelia can be treated with antibiotics	-
49	know7	Knowledge: Borrelia is more common than TBE in Sweden	-
50	risktickbites ..	Perception: tick bites rather or very high risk to health	-
51	tickbiteserio ..	Perception: rather or very serious to get tick bite	-
52	protcheckbody ..	Perception: Checking body for ticks is very effective protection	-
53	protclothesVE ..	Perception: Protective clothing is very effective protection	-
54	protavoidVERY ..	Perception: Avoiding high grass and bushes is very effective protection	-
55	protsocksVERY ..	Perception: Tucking trousers into socks is very effective protection	-
56	protrepellent ..	Perception: Using repellent is very effective protection	-
57	tbevaccinated ..	Vaccinated against TBE	-
58	protb1	q_36_1; longsleves and trousers	-
59	protb2	q_36_2;repellent	-
60	protb3	q_36_3;socksonpant	-
61	protb4	q_36_4;avoidhighgrass	-
62	protb5	q_36_5;checkbody	-
63	protclothes ..	Covering clothing	-
64	protcheckbody ..	Check body for ticks	-
65	protsocks	Tuck trousers into socks	-

File Learningtolivewithticks april 18 2018

	Name	Label	Question
66	protrepellent..	Repellent	-
67	protavoid	Avoid high grass and bushes while in areas with ticks	-
68	protcount	Number of protective behaviours used ofte or always (0-5)	-
69	protcount15..	Number of protective measures and their intensity in use (0-15)	-
70	protect5	Combinations of protective measures	-

Variables Description

Dataset contains 70 variable(s)

File : Learningtolivewithticks april 18 2018

SND_study: SND-studie 1049

Value	Label	Cases	Percentage
1049	SND1049	1510	100.0%

Information: Type: discrete, Format: numeric, Range: 1049-1049, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -)

SND_dataset: SND-dataset 1049-001

Value	Label	Cases	Percentage
1	SND1049-001	1510	100.0%

Information: Type: discrete, Format: numeric, Range: 1-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -)

SND_version: SND version 1.0

Value	Label	Cases	Percentage
1	SND 1.0	1510	100.0%

Information: Type: discrete, Format: numeric, Range: 1-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -)

female: Female respondent

Value	Label	Cases	Percentage
0		697	46.2%
1		813	53.8%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.538 / -) StdDev: (0.499 / -)

age: Age

Information: Type: continuous, Format: numeric, Range: 18-80, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (50.892 / -) StdDev: (17.006 / -)

age1830: Aged between 19 and 30, inclusive

Value	Label	Cases	Percentage
0		1285	85.1%

File : Learningtolivewithticks april 18 2018

age1830: Aged between 19 and 30, inclusive

Value	Label	Cases	Percentage
1		225	14.9%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.149 / -) StdDev: (0.356 / -)

age3145: Aged between 31 and 45, inclusive

Value	Label	Cases	Percentage
0		1122	74.3%
1		388	25.7%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.257 / -) StdDev: (0.437 / -)

age4665: Aged between 46 and 65, inclusive

Value	Label	Cases	Percentage
0		1048	69.4%
1		462	30.6%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.306 / -) StdDev: (0.461 / -)

age66plus: Aged more than 65

Value	Label	Cases	Percentage
0		1075	71.2%
1		435	28.8%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.288 / -) StdDev: (0.453 / -)

income: Household pre-tax income/month (SEK)

Information: Type: continuous, Format: numeric, Range: 5-115, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (43.987 / -) StdDev: (23.001 / -)

education: Level of highest completed education

Value	Label	Cases	Percentage
1		3	0.2%
2		112	7.5%
3		203	13.5%

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education: Level of highest completed education

Value	Label	Cases	Percentage
4		398	26.5%
5		353	23.5%
6		409	27.2%
7		24	1.6%
Sysmiss		8	

Information: Type: discrete, Format: numeric, Range: 1-7, Missing: *

Statistics (NW/ W): Valid: (1502 / -) Invalid: (8 / -) Mean: (4.537 / -) StdDev: (1.277 / -)

university: Has studied at university

Value	Label	Cases	Percentage
0		716	47.7%
1		786	52.3%
Sysmiss		8	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1502 / -) Invalid: (8 / -) Mean: (0.523 / -) StdDev: (0.5 / -)

children: Has child below 18 years

Value	Label	Cases	Percentage
0		1114	73.8%
1		396	26.2%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.262 / -) StdDev: (0.44 / -)

rural: Lives in the countryside/small village

Value	Label	Cases	Percentage
0		1051	69.6%
1		459	30.4%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.304 / -) StdDev: (0.46 / -)

outtickarea: Monthly of more frequent visits to areas with ticks

Value	Label	Cases	Percentage
0		255	16.9%
1		1255	83.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

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outtickarea: Monthly of more frequent visits to areas with ticks

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.831 / -) StdDev: (0.375 / -)

outTBEarea: Monthly or more frequent visits to TBE risk area

Value	Label	Cases	Percentage
0		950	62.9%
1		560	37.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.371 / -) StdDev: (0.483 / -)

notriskarea: Lives in Emerging Risk Area

Value	Label	Cases	Percentage
0		1323	87.6%
1		187	12.4%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.124 / -) StdDev: (0.33 / -)

tickriskonly: Live in Tick Risk Area

Value	Label	Cases	Percentage
0		626	41.5%
1		884	58.5%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.585 / -) StdDev: (0.493 / -)

tberiskarea: Live in TBE Risk Area

Value	Label	Cases	Percentage
0		1071	70.9%
1		439	29.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.291 / -) StdDev: (0.454 / -)

cat: Cat owner

Value	Label	Cases	Percentage
0		1263	83.6%
1		247	16.4%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

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cat: Cat owner

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.164 / -) StdDev: (0.37 / -)

dog: Dog owner

Value	Label	Cases	Percentage
0		1246	82.5%
1		264	17.5%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.175 / -) StdDev: (0.38 / -)

farmanimal: Other outdoor animal

Value	Label	Cases	Percentage
0		1453	96.2%
1		57	3.8%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.0377 / -) StdDev: (0.191 / -)

summerhouserisk: Spends time in a summer house in area with TBE

Value	Label	Cases	Percentage
0		1237	83.1%
1		252	16.9%
Sysmiss		21	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1489 / -) Invalid: (21 / -) Mean: (0.169 / -) StdDev: (0.375 / -)

worktickrisk: Work involves risk of tick bites

Value	Label	Cases	Percentage
0		1352	90.1%
1		149	9.9%
Sysmiss		9	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1501 / -) Invalid: (9 / -) Mean: (0.0993 / -) StdDev: (0.299 / -)

outforestdaily: Visits areas with ticks daily

Value	Label	Cases	Percentage
0		1099	73.4%

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outforestdaily: Visits areas with ticks daily

Value	Label	Cases	Percentage
1		399	26.6%
Sysmiss		12	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1498 / -) Invalid: (12 / -) Mean: (0.266 / -) StdDev: (0.442 / -)

outforestweekly: Visits areas with tick weekly

Value	Label	Cases	Percentage
0		949	63.4%
1		549	36.6%
Sysmiss		12	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1498 / -) Invalid: (12 / -) Mean: (0.366 / -) StdDev: (0.482 / -)

outforestmonthly: Visits areas with ticks monthly

Value	Label	Cases	Percentage
0		1191	79.5%
1		307	20.5%
Sysmiss		12	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1498 / -) Invalid: (12 / -) Mean: (0.205 / -) StdDev: (0.404 / -)

outTBEdaily: Visits areas with risk of TBE daily

Value	Label	Cases	Percentage
0		1330	88.1%
1		180	11.9%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.119 / -) StdDev: (0.324 / -)

outTBWeekly: Visits areas with risk of TBE weekly

Value	Label	Cases	Percentage
0		1302	86.2%
1		208	13.8%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.138 / -) StdDev: (0.345 / -)

File : Learningtolivewithticks april 18 2018

outTBEweekly: Visits areas with risk of TBE weekly

outTBEmonthly: Visits areas with risk of TBE monthly

Value	Label	Cases	Percentage
0		1338	88.6%
1		172	11.4%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.114 / -) StdDev: (0.318 / -)

notickbites: Has never had a tick bite

Value	Label	Cases	Percentage
0		1027	68.0%
1		483	32.0%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.32 / -) StdDev: (0.467 / -)

onetickbite: Has had 1 tick bite in lifetime

Value	Label	Cases	Percentage
0		1327	87.9%
1		183	12.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.121 / -) StdDev: (0.326 / -)

sometickbites: Has had 2-10 tick bite in lifetime

Value	Label	Cases	Percentage
0		924	61.2%
1		586	38.8%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.388 / -) StdDev: (0.487 / -)

tickbites10plus: Has had more than 10 tick bites in lifetime

Value	Label	Cases	Percentage
0		1252	82.9%
1		258	17.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.171 / -) StdDev: (0.377 / -)

File : Learningtolivewithticks april 18 2018

tickbites10plus: Has had more than 10 tick bites in lifetime

tickbiteever: Has had 1 or more tickbites in lifetime

Value	Label	Cases	Percentage
0		483	32.0%
1		1027	68.0%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.68 / -) StdDev: (0.467 / -)

tbite12m: Had at least 1 tick bite in last 12 months

Value	Label	Cases	Percentage
0		1040	68.9%
1		470	31.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.311 / -) StdDev: (0.463 / -)

tickbornedisease: Respondent has had a tick borne disease

Value	Label	Cases	Percentage
0		1331	88.1%
1		179	11.9%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.119 / -) StdDev: (0.323 / -)

tbe: Respondent has been diagnosed with TBE

Value	Label	Cases	Percentage
0		1503	99.5%
1		7	0.5%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.00464 / -) StdDev: (0.068 / -)

borrelia: Respondent has been diagnosed with borrelia

Value	Label	Cases	Percentage
0		1340	88.7%
1		170	11.3%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.113 / -) StdDev: (0.316 / -)

File : Learningtolivewithticks april 18 2018

borrelia: Respondent has been diagnosed with borrelia

othertickbornedisease: Other tick-borne disease

Value	Label	Cases	Percentage
0		1507	99.8%
1		3	0.2%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.00199 / -) StdDev: (0.0445 / -)

friendtickbornedisease: Someone in family or friends has had a tick borne disease

Value	Label	Cases	Percentage
0		895	59.4%
1		612	40.6%
Sysmiss		3	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1507 / -) Invalid: (3 / -) Mean: (0.406 / -) StdDev: (0.491 / -)

knowledge: Nr of correct answers on knowledge questions

Value	Label	Cases	Percentage
0		62	4.1%
1		125	8.3%
2		181	12.0%
3		228	15.1%
4		321	21.3%
5		309	20.5%
6		218	14.4%
7		66	4.4%

Information: Type: discrete, Format: numeric, Range: 0-7, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (3.821 / -) StdDev: (1.783 / -)

know1: Knowledge: Small risk of getting ill from tick bite

Value	Label	Cases	Percentage
0		614	40.7%
1		896	59.3%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.593 / -) StdDev: (0.491 / -)

File : Learningtolivewithticks april 18 2018

know2: Knowledge: Borrelia not contagious from person to person

Value	Label	Cases	Percentage
0		270	17.9%
1		1240	82.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.821 / -) StdDev: (0.383 / -)

know3: Knowledge: Mosquito repellant also repels ticks

Value	Label	Cases	Percentage
0		1237	81.9%
1		273	18.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.181 / -) StdDev: (0.385 / -)

know4: Knowledge: There is a vaccine against TBE

Value	Label	Cases	Percentage
0		584	38.7%
1		926	61.3%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.613 / -) StdDev: (0.487 / -)

know5: Knowledge: TBE cannot be treated with antibiotics

Value	Label	Cases	Percentage
0		1024	67.8%
1		486	32.2%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.322 / -) StdDev: (0.467 / -)

know6: Knowledge: Borrelia can be treated with antibiotics

Value	Label	Cases	Percentage
0		505	33.4%
1		1005	66.6%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.666 / -) StdDev: (0.472 / -)

File : Learningtolivewithticks april 18 2018

know7: Knowledge: Borrelia is more common than TBE in Sweden

Value	Label	Cases	Percentage
0		566	37.5%
1		944	62.5%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.625 / -) StdDev: (0.484 / -)

risktickbites: Perception: tick bites rather or very high risk to health

Value	Label	Cases	Percentage
0		864	57.2%
1		646	42.8%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.428 / -) StdDev: (0.495 / -)

Variables Description

Dataset contains 70 variable(s)

tickbitserious: Perception: rather or very serious to get tick bite

Value	Label	Cases	Percentage
0		878	58.1%
1		632	41.9%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.419 / -) StdDev: (0.493 / -)

protcheckbodyVERYeffective: Perception: Checking body for ticks is very effective protection

Value	Label	Cases	Percentage
0		455	30.2%
1		1054	69.8%
Sysmiss		1	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1509 / -) Invalid: (1 / -) Mean: (0.698 / -) StdDev: (0.459 / -)

protclothesVERYeffective: Perception: Protective clothing is very effective protection

Value	Label	Cases	Percentage
0		845	56.0%
1		665	44.0%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.44 / -) StdDev: (0.497 / -)

protavoidVERYeffective: Perception: Avoiding high grass and bushes is very effective protection

Value	Label	Cases	Percentage
0		797	53.0%
1		706	47.0%
Sysmiss		7	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1503 / -) Invalid: (7 / -) Mean: (0.47 / -) StdDev: (0.499 / -)

protsocksVERYeffective: Perception: Tucking trousers into socks is very effective protection

Value	Label	Cases	Percentage
0		1039	69.1%

protsocksVERYeffective: Perception: Tucking trousers into socks is very effective protection

Value	Label	Cases	Percentage
1		464	30.9%
Sysmiss		7	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1503 / -) Invalid: (7 / -) Mean: (0.309 / -) StdDev: (0.462 / -)

protrepellentVERYeffective: Perception: Using repellent is very effective protection

Value	Label	Cases	Percentage
0		1379	91.7%
1		124	8.3%
Sysmiss		7	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1503 / -) Invalid: (7 / -) Mean: (0.0825 / -) StdDev: (0.275 / -)

tbevaccinated: Vaccinated against TBE

Value	Label	Cases	Percentage
0		1113	75.5%
1		361	24.5%
Sysmiss		36	

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1474 / -) Invalid: (36 / -) Mean: (0.245 / -) StdDev: (0.43 / -)

protb1: q_36_1; longsleves and trousers

Value	Label	Cases	Percentage
1		130	8.6%
2		407	27.0%
3		720	47.7%
4		253	16.8%

Information: Type: discrete, Format: numeric, Range: 1-4, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (2.726 / -) StdDev: (0.841 / -)

protb2: q_36_2;repellent

Value	Label	Cases	Percentage
1		648	42.9%
2		616	40.8%
3		190	12.6%
4		56	3.7%

protb2: q_36_2;repellent

Information: Type: discrete, Format: numeric, Range: 1-4, Missing: *
Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (1.771 / -) StdDev: (0.807 / -)

protb3: q_36_3;socksonpant

Value	Label	Cases	Percentage
1		728	48.2%
2		511	33.8%
3		190	12.6%
4		81	5.4%

Information: Type: discrete, Format: numeric, Range: 1-4, Missing: *
Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (1.751 / -) StdDev: (0.872 / -)

protb4: q_36_4;avoidhighgrass

Value	Label	Cases	Percentage
1		242	16.0%
2		542	35.9%
3		602	39.9%
4		124	8.2%

Information: Type: discrete, Format: numeric, Range: 1-4, Missing: *
Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (2.403 / -) StdDev: (0.852 / -)

protb5: q_36_5;checkbody

Value	Label	Cases	Percentage
1		145	9.6%
2		413	27.4%
3		541	35.8%
4		411	27.2%

Information: Type: discrete, Format: numeric, Range: 1-4, Missing: *
Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (2.807 / -) StdDev: (0.945 / -)

protclothes: Covering clothing

Value	Label	Cases	Percentage
0		537	35.6%
1		973	64.4%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *
Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.644 / -) StdDev: (0.479 / -)

protcheckbody: Check body for ticks

Value	Label	Cases	Percentage
0		558	37.0%
1		952	63.0%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.63 / -) StdDev: (0.483 / -)

protsocks: Tuck trousers into socks

Value	Label	Cases	Percentage
0		1239	82.1%
1		271	17.9%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.179 / -) StdDev: (0.384 / -)

protrepellent: Repellent

Value	Label	Cases	Percentage
0		1264	83.7%
1		246	16.3%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.163 / -) StdDev: (0.369 / -)

protavoid: Avoid high grass and bushes while in areas with ticks

Value	Label	Cases	Percentage
0		784	51.9%
1		726	48.1%

Information: Type: discrete, Format: numeric, Range: 0-1, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (0.481 / -) StdDev: (0.5 / -)

protcount: Number of protective behaviours used ofte or always (0-5)

Value	Label	Cases	Percentage
0		201	13.3%
1		310	20.5%
2		420	27.8%
3		353	23.4%
4		171	11.3%
5		55	3.6%

Information: Type: discrete, Format: numeric, Range: 0-5, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (2.098 / -) StdDev: (1.321 / -)

protcount: Number of protective behaviours used ofte or always (0-5)

protcount15: Number of protective measures and their intensity in use (0-15)

Value	Label	Cases	Percentage
0		40	2.6%
1		22	1.5%
2		65	4.3%
3		99	6.6%
4		123	8.1%
5		205	13.6%
6		217	14.4%
7		205	13.6%
8		205	13.6%
9		127	8.4%
10		85	5.6%
11		52	3.4%
12		29	1.9%
13		18	1.2%
14		10	0.7%
15		8	0.5%

Information: Type: discrete, Format: numeric, Range: 0-15, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -) Mean: (6.457 / -) StdDev: (2.86 / -)

protect5: Combinations of protective measures

Value	Label	Cases	Percentage
0	Noprotection	201	13.3%
1	Protclothesonly	118	7.8%
2	Checkbodyonly	129	8.5%
3	Clothes&Body	168	11.1%
4	Clothes&Avoid	104	6.9%
5	Body&Avoid	100	6.6%
6	Clothes&Body&Avoid	214	14.2%
7	Clothes&Body&Avoid&Other	202	13.4%
8	Clothes&Body&Socks&Other	103	6.8%
9	Other	171	11.3%

Information: Type: discrete, Format: numeric, Range: 0-9, Missing: *

Statistics (NW/ W): Valid: (1510 / -) Invalid: (0 / -)