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The Willingness to Pay for Vaccination against Tick-borne Encephalitis and Implications for Public Health Policy: Evidence from Sweden

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Vetenskapsrådet



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The Willingness to Pay for Vaccination against Tick-borne Encephalitis and Implications for Public Health Policy: Evidence from Sweden

Betalningsvilja för vaccin mot TBE (fästingburen encefalit)

Overview

Identification	SND0987-001
Version	Production Date2015-11-20 1.0

Abstract

The study estimates the willingness to pay (WTP) for TBE vaccination and the effect of a possible TBE vaccine subsidy on vaccination rates in Sweden. We also estimate the current vaccination coverage in areas differing in TBE incidence and analyze the role of income, risk behavior and other factors influencing vaccine demand.

Scope & Coverage

Keywords	vaccination, health policy, tick-borne diseases, ticks, Encephalitis viruses, tick-borne, vaccine, willingness to pay, stated preference, contingent valuation, TBE, subsidies
Topics	HEALTH, specific diseases and medical conditions
Countries	

Producers & Sponsors

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

Accessibility

Distributor(s)	Swedish National Data Service
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File Description(s)

Dataset contains 1 file(s)

Dataset WTP TBE vaccination - Slunge 2015 (002)

Cases	1526
Variable(s)	35

Variables List

Dataset contains 35 variable(s)

File Dataset WTP TBE vaccination - Slunge 2015 (002)

	Name	Label	Question
1	SND_study	SND-study 0987	-
2	SND_dataset_..	SND-dataset 0987-001	-
3	SND_version_..	SND version 1.0	-
4	id	ID number	-
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	agesq	Age*Age	-
11	female	Female respondent	-
12	income	Household monthly income, kSEK	-
13	lowincome	Household monthly income lower than 20k SEK	-
14	university	Has studied at university	-
15	urban	Living in city with >50,000 inhabitants	-
16	tbeincidence_..	TBE incidence in respondents'area of residence, yearly cases per 100,000 inhabit	-
17	lowtberiskhom_..	Lives in a low TBE risk area	-
18	hightberiskho_..	Lives in a high TBE risk area	-
19	summerhouseeri_..	Spends time in a summer house in area with TBE	-
20	outTBEarea	Spends time outdoor in forests or other areas with TBE risk	-
21	worktickrisk_..	Work involves risk of tick bites	-
22	knowledge	Number of correct answers on 7 knowledge questions	-
23	tickbiteever_..	Has had at least 1 life time tick bite	-
24	diseaseexperi_..	Respondent or family member or friend has had tick-borne disease	-
25	healthrisktic_..	Perception: Tick bites rather or very high risk to health	-
26	lowtrustvacci_..	Perception: Low or very low trust in vaccine recommendations	-
27	tbevaccinated_..	Vaccinated against TBE	-
28	price	Price TBE vaccine	-
29	buy	Yes answer to question about willingness to buy TBE vaccine at bid price	-
30	swedishborne_..	Borne in Swerden	-
31	health	Perception: Health status	-

File Dataset WTP TBE vaccination - Slunge 2015 (002)

	Name	Label	Question
32	hightrustheal..	Perception: Rather high or very high trust in Swedish health care	-
33	outdoorpet	Has cat, dog or other pet which spends time outdoor	-
34	choicord	Order of stated preference questions	-
35	certainanswer..	Rather or very certain about answer to WTP TBE vaccine question	-

Variables Description

Dataset contains 35 variable(s)

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

SND_study: SND-study 0987

Definition: SND-study 0987: The Willingness to Pay for Vaccinations against Tick-born Encephalitis and Implications for Public Health Policy: Evidence from Sweden

Value	Label	Cases	Percentage
987	SND 0987	1526	100.0%

Information: Type: discrete, Format: numeric, Missing: *

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

SND_dataset: SND-dataset 0987-001

Definition: SND-dataset 0987-001: The Willingness to Pay for Vaccinations against Tick-born Encephalitis and Implications for Public Health Policy: Evidence from Sweden

Value	Label	Cases	Percentage
1	SND 0987-001	1526	100.0%

Information: Type: discrete, Format: numeric, Missing: *

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

SND_version: SND version 1.0

Definition: SND version 1.0 november 2015

Value	Label	Cases	Percentage
1	SND version 1.0	1526	100.0%

Information: Type: discrete, Format: numeric, Missing: *

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

id: ID number

Definition: ID number

Information: Type: continuous, Format: numeric, Range: 1-1526, Missing: *

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -) Mean: (763.5 / -) StdDev: (440.663 / -)

age: Age

Definition: Age

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

age1830: Aged between 19 and 30, inclusive

Definition: Aged between 19 and 30, inclusive

Value	Label	Cases	Percentage
0	0	1310	85.8%
1	1	216	14.2%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

age3145: Aged between 31 and 45, inclusive

Definition: Aged between 31 and 45, inclusive

Value	Label	Cases	Percentage
0	0	1139	74.6%
1	1	387	25.4%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

age4665: Aged between 46 and 65, inclusive

Definition: Aged between 46 and 65, inclusive

Value	Label	Cases	Percentage
0	0	1055	69.1%
1	1	471	30.9%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

age66plus: Aged more than 65

Definition: Aged more than 65

Value	Label	Cases	Percentage
0	0	1074	70.4%
1	1	452	29.6%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

agesq: Age*Age

Definition: age*age

Information: Type: continuous, Format: numeric, Range: 324-6400, Missing: *

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

agesq: Age*Age

female: Female respondent

Definition: Female respondent

Value	Label	Cases	Percentage
0	0	712	46.7%
1	1	814	53.3%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

income: Household monthly income, kSEK

Definition: Household monthly income, kSEK

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -) Mean: (44.115 / -) StdDev: (22.957 / -)

lowincome: Household monthly income lower than 20k SEK

Definition: Household monthly income lower than 20k SEK

Value	Label	Cases	Percentage
0	0	1316	86.2%
1	1	210	13.8%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

university: Has studied at university

Definition: Has studied at university

Value	Label	Cases	Percentage
0	0	726	47.6%
1	1	800	52.4%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

urban: Living in city with >50,000 inhabitants

Definition: Living in city with >50,000 inhabitants

Value	Label	Cases	Percentage
0	0	808	52.9%
1	1	718	47.1%

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

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

urban: Living in city with >50,000 inhabitants

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

tbeincidence: TBE incidence in respondents' area of residence, yearly cases per 100,000 inhabit

Definition: TBE incidence in respondents' area of residence, yearly cases per 100,000 inhabit

Information: Type: continuous, Format: numeric, Range: 0-41.2717512301598, Missing: *

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -) Mean: (1.108 / -) StdDev: (4.05 / -)

lowtberiskhome: Lives in a low TBE risk area

Definition: Lives in a low TBE risk area

Value	Label	Cases	Percentage
0	0	1041	68.2%
1	1	485	31.8%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

hightberiskhome: Lives in a high TBE risk area

Definition: Lives in a high Tbe risk area

Value	Label	Cases	Percentage
0	0	1426	93.4%
1	1	100	6.6%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

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

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

Value	Label	Cases	Percentage
0	0	1271	83.3%
1	1	255	16.7%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

outTBEarea: Spends time outdoor in forests or other areas with TBE risk

Definition: Spends time outdoor in forests or other areas with TBE risk

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

outTBEarea: Spends time outdoor in forests or other areas with TBE risk

Value	Label	Cases	Percentage
0	0	966	63.3%
1	1	560	36.7%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

worktickrisk: Work involves risk of tick bites

Definition: Work involves risk of tick bites

Value	Label	Cases	Percentage
0	0	1381	90.5%
1	1	145	9.5%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

knowledge: Number of correct answers on 7 knowledge questions

Definition: Nr of correct answers on 7 knowledge questions

Value	Label	Cases	Percentage
0	0	63	4.1%
1	1	129	8.5%
2	2	184	12.1%
3	3	232	15.2%
4	4	326	21.4%
5	5	310	20.3%
6	6	213	14.0%
7	7	69	4.5%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -) Mean: (3.806 / -) StdDev: (1.786 / -)

tickbiteever: Has had at least 1 life time tick bite

Definition: Has had at least 1 life time tick bite

Value	Label	Cases	Percentage
0	0	487	31.9%
1	1	1039	68.1%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

diseaseexperience: Respondent or family member or friend has had tick-borne disease

Definition: Respondent or family member or friend has had tick-borne disease

Value	Label	Cases	Percentage
0	0	835	54.7%
1	1	691	45.3%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

healthrisktickbite: Perception: Tick bites rather or very high risk to health

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

Value	Label	Cases	Percentage
0	0	890	58.3%
1	1	636	41.7%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

lowtrustvaccinerec: Perception: Low or very low trust in vaccine recommendations

Definition: Perception: low or very low trust in vaccine recommendations

Value	Label	Cases	Percentage
0	0	1251	82.0%
1	1	275	18.0%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

tbevaccinated: Vaccinated against TBE

Definition: Vaccinated against TBE

Value	Label	Cases	Percentage
0	0	1157	75.8%
1	1	369	24.2%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

price: Price TBE vaccine

Definition: Price TBE vaccine

Value	Label	Cases	Percentage
100	100	288	18.9%
250	250	309	20.2%

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

price: Price TBE vaccine

Value	Label	Cases	Percentage
500	500	314	20.6%
750	750	312	20.4%
1000	1000	303	19.9%

Information: Type: continuous, Format: numeric, Range: 100-1000, Missing: *

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -) Mean: (524.279 / -) StdDev: (323.65 / -)

buy: Yes answer to question about willingness to buy TBE vaccine at bid price

Definition: Yes answer to question about willingness to buy TBE vaccine at bid price

Value	Label	Cases	Percentage
0	0	630	54.7%
1	1	521	45.3%
Sysmiss		375	

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

Statistics (NW/ W): Valid: (1151 / -) Invalid: (375 / -)

swedishborne: Borne in Swerden

Definition: Borne in Swerden

Value	Label	Cases	Percentage
0	0	87	5.8%
1	1	1425	94.2%
Sysmiss		14	

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

Statistics (NW/ W): Valid: (1512 / -) Invalid: (14 / -)

health: Perception: Health status

Definition: Perception: health status

Value	Label	Cases	Percentage
1	1	8	0.5%
2	2	54	3.5%
3	3	251	16.5%
4	4	762	50.1%
5	5	447	29.4%
Sysmiss		4	

Information: Type: discrete, Format: numeric, Range: 1-5, Missing: *

Statistics (NW/ W): Valid: (1522 / -) Invalid: (4 / -)

File : Dataset WTP TBE vaccination - Slunge 2015 (002)

hightrusthealthcare: Perception: Rather high or very high trust in Swedish health care

Definition: Perception: rather high or very high trust in Swedish health care

Value	Label	Cases	Percentage
0	0	552	36.3%
1	1	970	63.7%
Sysmiss		4	

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

Statistics (NW/ W): Valid: (1522 / -) Invalid: (4 / -)

outdoorpet: Has cat, dog or other pet which spends time outdoor

Definition: Has cat, dog or other pet which spends time outdoor

Value	Label	Cases	Percentage
0	0	1066	69.9%
1	1	460	30.1%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -)

choicord: Order of stated preference questions

Definition: Order of stated preference questions

Value	Label	Cases	Percentage
1	1	433	28.4%
2	2	361	23.7%
3	3	378	24.8%
4	4	354	23.2%

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

Statistics (NW/ W): Valid: (1526 / -) Invalid: (0 / -) Mean: (2.428 / -) StdDev: (1.13 / -)

certainanswer: Rather or very certain about answer to WTP TBE vaccine question

Definition: Rather or very certain about answer to WTP TBE vaccine question

Value	Label	Cases	Percentage
0	0	147	13.0%
1	1	985	87.0%
Sysmiss		394	

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

Statistics (NW/ W): Valid: (1132 / -) Invalid: (394 / -)