

1 **Appendix**2 **Appendix Table 1. Provincial-level estimates of rural surveys in Chiang Rai and Salavan.**

	Chiang Rai	Salavan	X <sup>2</sup> / z-score
<b>Demographics</b>			
Number	1158	983	..
Female <sup>a</sup>	51.3% (44.9–57.6)	50.9% (47.0–54.9)	0.01
Age <sup>a</sup>	46 (13)	37 (20)	10.83***
Education (years)	6.3 (4.5)	4.4 (5.5)	2.10**
Speaking Thai / Lao	92.4% (89.9–94.2)	93.6% (91.9–94.9)	0.88
Wealth index	0.7 (0.1)	0.4 (0.2)	13.12***
Buddhist religion	81.9% (77.4–85.7)	67.5% (61.7–72.9)	16.85***
Thai/Lao nationality	95.0% (93.1–96.4)	98.8% (97.7–99.4)	18.50***
Majority ethnic group (Thai/Lao Loum)	65.2% (59.6–70.4)	56.2% (49.9–62.2)	4.73**
<b>Antibiotic knowledge / attitudes</b>			
Number	1158	983	..
Aware of antibiotics	95.7% (94.0–96.9)	86.4% (83.6–88.7)	41.47***
Aware of drug resistance <sup>b</sup>	74.8% (71.1–78.2)	62.5% (58.1–66.7)	18.80***
Would not buy antibiotics over the counter	57.0% (52.7–61.1)	27.7% (24.6–31.0)	115.03***
Prefers antibiotics over alternatives	61.8% (57.9–65.5)	24.8% (21.1–29.0)	151.35***
Does not keep antibiotics for future use	57.1% (53.1–61.0)	16.2% (13.2–19.8)	201.30***
Knows that antibiotic resistance can spread	9.1% (7.2–11.5)	3.4% (2.1–5.5)	15.09***
Answer score (0 to 4)	1.8 (0.9)	0.7 (1.0)	17.13***
<b>Illness episodes<sup>c</sup></b>			
Number	608	356	..
Self-rated severity (1=mild, 2=medium, 3=severe)	1.6 (0.7)	1.8 (0.8)	2.43**
Duration of illness episode (days)	6.8 (7.1)	6.5 (7.9)	0.82
<b>Treatment-seeking behaviour<sup>c</sup></b>			
Number	608	356	..
Public healthcare provider	29.0% (24.8–33.7)	44.8% (37.8–52.0)	14.17***
Private healthcare providers	25.0% (20.5–30.1)	23.8% (17.8–31.0)	0.08
Informal healthcare provider	8.5% (6.1–11.8)	6.9% (3.9–11.8)	0.45
Care from family or self-care	88.8% (84.3–92.2)	93.2% (88.3–96.1)	2.27
Other types of healthcare access	0.3% (0.1–1.4)	6.0% (2.8–12.3)	23.43***
<b>Medicine use episodes per illness<sup>c</sup></b>			
Number	608	356	..
Medicine use episodes	2.2 (1.7)	2.5 (2.3)	1.96**
Non-antibiotic medicine use episodes	1.6 (1.2)	1.3 (1.4)	1.98**
Antibiotic use episodes	0.2 (0.5)	0.4 (0.7)	3.51***
Potential antibiotic use episodes	0.4 (0.9)	0.9 (1.8)	4.32***
Antibiotic use episodes per illness from public sources	0.1 (0.3)	0.1 (0.4)	0.78
Antibiotic use episodes per illness from private sources	0.1 (0.3)	0.2 (0.5)	1.65*
Antibiotic use episodes per illness from informal sources	0.0 (0.2)	0.1 (0.4)	1.69*
Antibiotic / potential antibiotic use episodes from public sources	0.3 (0.8)	0.3 (1.1)	0.57
Antibiotic / potential antibiotic use episodes from private sources	0.2 (0.6)	0.7 (1.5)	3.11***
Antibiotic / potential antibiotic use episodes from informal sources	0.1 (0.3)	0.2 (0.7)	2.33**

3 Source: Authors' analysis of survey data.

4 Notes: Population-weighted statistics, accounting for complex survey design. Not applicable categories indicated with “..” Group  
5 comparison using X<sup>2</sup> tests for binary and Wilcoxon rank-sum tests for non-normally distributed variables.

6 \*p &lt; 0.1, \*\*p &lt; 0.05, \*\*\*p &lt; 0.01.

7 a. Due to population weighting, samples reflect the same sex and age profiles as the respective censuses.

8 b. Comparing Thai “due yah” with the combined Lao “due yah” and “lueng yah.”

9 c. Completed illnesses experienced by respondent or child under their supervision, excluding incomplete episodes.