

Translating AMR: A Case Study of Three Thai Villages

Supplementary Tables

Supplementary Table S1. Overall relationship between activity and knowledge outcomes across survey villages.

(a) Participation in activity		Did not participate		Participated throughout ^a		Survey Round Difference		Diff.-in-diff.
(survey round)		R.1	R.2	R.1	R.2	(2) - (1)	(4) - (3)	(6) - (5)
(column number)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Chiang Khong	Seen antibiotic capsules	0.79	0.98	0.85	1.00	+ 0.19	+ 0.15	- 0.04
	Heard of drug resistance	0.78	0.91	0.88	0.94	+ 0.13	+ 0.06	- 0.07
	Desirable answers (out of 4)	1.90	2.15	1.85	2.41	+ 0.25	+ 0.56	+ 0.31
	Number of respondents	151		34				
Chiang Rai	Seen antibiotic capsules	0.88	0.97	1.00	1.00	+ 0.09	+ 0.00	- 0.09
	Heard of drug resistance	0.71	0.71	0.74	0.74	+ 0.00	+ 0.00	+ 0.00
	Desirable answers (out of 4)	1.93	1.83	2.32	2.32	- 0.10	+ 0.00	+ 0.10
	Number of respondents	146		19				
Mae Fah Luang	Seen antibiotic capsules	0.66	0.97	0.79	1.00	+ 0.31	+ 0.21	- 0.10
	Heard of drug resistance	0.42	0.41	0.68	0.84	- 0.01	+ 0.16	+ 0.17
	Desirable answers (out of 4)	1.74	1.42	1.42	1.63	- 0.32	+ 0.21	+ 0.53
	Number of respondents	169		19				
(b) Conversation about activity (non-participants only)		Did not talk about activity		Talked about activity		Survey Round Difference		Diff.-in-diff.
(survey round)		R.1	R.2	R.1	R.2	(2) - (1)	(4) - (3)	(6) - (5)
(column number)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Chiang Khong	Seen antibiotic capsules	0.75	0.98	0.85	0.98	+ 0.22	+ 0.14	- 0.09
	Heard of drug resistance	0.74	0.87	0.83	0.95	+ 0.13	+ 0.12	- 0.01
	Desirable answers (out of 4)	1.84	2.25	1.98	2.03	+ 0.41	+ 0.05	- 0.37
	Number of respondents	85		66				
Chiang Rai	Seen antibiotic capsules	0.87	0.96	0.91	1.00	+ 0.09	+ 0.09	- 0.00
	Heard of drug resistance	0.68	0.69	0.80	0.74	+ 0.02	- 0.06	- 0.08
	Desirable answers (out of 4)	1.86	1.83	2.17	1.83	- 0.03	- 0.34	- 0.32
	Number of respondents	111		35				
Mae Fah Luang	Seen antibiotic capsules	0.66	0.96	0.67	0.98	+ 0.31	+ 0.31	+ 0.00
	Heard of drug resistance	0.34	0.32	0.50	0.50	- 0.02	+ 0.00	+ 0.02
	Desirable answers (out of 4)	1.64	1.42	1.85	1.42	- 0.21	- 0.43	- 0.22
	Number of respondents	85		84				
(c) Exposure to activity poster (non-participants only)		Did not see activity poster		Saw activity poster		Survey Round Difference		Diff.-in-diff.
(survey round)		R.1	R.2	R.1	R.2	(2) - (1)	(4) - (3)	(6) - (5)
(column number)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Chiang Khong	Seen antibiotic capsules	0.75	0.97	0.86	1.00	+ 0.22	+ 0.14	- 0.08
	Heard of drug resistance	0.78	0.87	0.78	0.95	+ 0.09	+ 0.17	+ 0.08
	Desirable answers (out of 4)	1.84	2.06	1.98	2.28	+ 0.22	+ 0.30	+ 0.08
	Number of respondents	87		64				
Chiang Rai	Seen antibiotic capsules	0.85	0.96	0.94	1.00	+ 0.10	+ 0.06	- 0.04
	Heard of drug resistance	0.70	0.65	0.72	0.82	- 0.05	+ 0.10	+ 0.15
	Desirable answers (out of 4)	1.89	1.84	2.02	1.80	- 0.04	- 0.22	- 0.18
	Number of respondents	96		50				
Mae Fah Luang	Seen antibiotic capsules	0.67	0.96	0.65	1.00	+ 0.29	+ 0.35	+ 0.06
	Heard of drug resistance	0.44	0.41	0.38	0.40	- 0.03	+ 0.02	+ 0.04
	Desirable answers (out of 4)	1.72	1.39	1.79	1.48	- 0.32	- 0.31	+ 0.02
	Number of respondents	117		52				

Notes: ^a. Only participants who attended activity throughout, omitting 10 respondents who participated partially.

Supplementary Table S2. Overall relationship between activity and healthcare choices across survey villages.

		(a) Participation in activity			(b) Conversation about activity (non-participants only)			(c) Exposure to activity poster (non-participants only)		
		No	Yes ^a	Diff.-in-	No	Yes	Diff.-in-	No	Yes	Diff.-in-
		R.2–R.1	R.2–R.1	diff.	R.2–R.1	R.2–R.1	diff.	R.2–R.1	R.2–R.1	diff.
Chiang Khong	Public treatment ^b	– 0.01	– 0.18	– 0.17	+ 0.06	– 0.06	– 0.13	+ 0.06	– 0.09	– 0.14
	Private treatment ^c	+ 0.08	+ 0.07	– 0.01	+ 0.08	+ 0.09	+ 0.00	+ 0.05	+ 0.12	+ 0.07
	Informal treatment ^d	– 0.02	– 0.08	– 0.07	– 0.05	+ 0.02	+ 0.07	– 0.07	+ 0.05	+ 0.13
	Family and self-care	+ 0.03	– 0.07	– 0.10	+ 0.10	– 0.05	– 0.15	+ 0.03	+ 0.03	– 0.00
	Other	+ 0.01	+ 0.00	– 0.01	+ 0.01	+ 0.00	– 0.01	+ 0.04	– 0.04	– 0.08
Chiang Rai	Public treatment ^b	– 0.20	– 0.08	+ 0.12	– 0.19	– 0.20	– 0.01	– 0.23	– 0.15	+ 0.07
	Private treatment ^c	+ 0.14	– 0.08	– 0.22	+ 0.14	+ 0.17	+ 0.03	+ 0.16	+ 0.11	– 0.06
	Informal treatment ^d	+ 0.06	– 0.11	– 0.17	+ 0.04	+ 0.10	+ 0.06	+ 0.10	– 0.04	– 0.14
	Family and self-care	+ 0.02	+ 0.11	+ 0.09	+ 0.04	– 0.05	– 0.09	+ 0.05	+ 0.00	– 0.05
	Other	– 0.03	+ 0.00	+ 0.03	– 0.02	– 0.07	– 0.05	– 0.03	– 0.04	– 0.02
Mae Fah Luang	Public treatment ^b	– 0.05	+ 0.03	+ 0.08	– 0.09	– 0.01	+ 0.08	– 0.01	– 0.11	– 0.11
	Private treatment ^c	+ 0.04	+ 0.14	+ 0.10	– 0.05	+ 0.11	+ 0.16	– 0.12	+ 0.30	+ 0.42
	Informal treatment ^d	+ 0.15	+ 0.00	– 0.15	+ 0.16	+ 0.14	– 0.02	+ 0.11	+ 0.20	+ 0.09
	Family and self-care	+ 0.02	+ 0.06	+ 0.03	– 0.01	+ 0.05	+ 0.07	+ 0.03	+ 0.02	– 0.01
	Other	+ 0.05	+ 0.43	+ 0.38	+ 0.10	+ 0.01	– 0.09	+ 0.06	+ 0.05	– 0.01

Notes: Illness episode level. Samples include only completed illnesses experienced by the respondents themselves. ^a. Only participants who attended activity throughout, omitting 10 respondents who participated partially. ^b. Public health centres, public hospitals. ^c. Pharmacies, private clinics, private hospitals. ^d. Local stores, traditional healers.

Supplementary Table S3. Overall relationship between activity and medicine sources across survey villages.

(a) Participation in activity		Did not participate		Participated throughout ^a		Survey Round Difference		Diff.-in-diff.
	(survey round) (column number)	R.1	R.2	R.1	R.2	(2) - (1)	(4) - (3)	(6) - (5)
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Chiang Khong	Average severity (1 - 3)	1.81	1.72	1.58	1.87	- 0.09	+ 0.28	+ 0.37
	Medicine from formal sources ^b	1.17	1.55	1.75	1.33	+ 0.38	- 0.42	- 0.79
	Medicine from informal sources ^c	0.93	0.70	0.92	0.47	- 0.24	- 0.45	- 0.21
	Number of respondents	58	82	12	15			
Chiang Rai	Average severity (1 - 3)	1.98	1.69	1.78	1.43	- 0.30	- 0.35	- 0.05
	Medicine from formal sources ^b	1.53	1.54	1.67	1.00	+ 0.01	- 0.67	- 0.67
	Medicine from informal sources ^c	0.78	0.73	1.56	1.43	- 0.05	- 0.13	- 0.08
	Number of respondents	64	67	9	7			
Mae Fah Luang	Average severity (1 - 3)	1.72	1.74	2.20	1.57	+ 0.02	- 0.63	- 0.65
	Medicine from formal sources ^b	1.17	1.05	1.00	1.00	- 0.12	+ 0.00	+ 0.12
	Medicine from informal sources ^c	1.09	0.88	0.60	0.29	- 0.21	- 0.31	- 0.11
	Number of respondents	54	86	5	7			
(b) Conversation about activity (non-participants only)		Did not talk about activity		Talked about activity		Survey Round Difference		Diff.-in-diff.
	(survey round) (column number)	R.1	R.2	R.1	R.2	(2) - (1)	(4) - (3)	(6) - (5)
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Chiang Khong	Average severity (1 - 3)	1.73	1.60	1.89	1.89	- 0.14	- 0.01	+ 0.13
	Medicine from formal sources ^b	0.67	1.17	1.71	2.06	+ 0.50	+ 0.34	- 0.16
	Medicine from informal sources ^c	0.90	0.70	0.96	0.69	- 0.20	- 0.28	- 0.08
	Number of respondents	30	47	28	35			
Chiang Rai	Average severity (1 - 3)	2.06	1.74	1.73	1.55	- 0.32	- 0.18	+ 0.13
	Medicine from formal sources ^b	1.67	1.49	1.07	1.65	- 0.18	+ 0.58	+ 0.77
	Medicine from informal sources ^c	0.73	0.72	0.93	0.75	- 0.01	- 0.18	- 0.17
	Number of respondents	49	47	15	20			
Mae Fah Luang	Average severity (1 - 3)	1.68	1.61	1.77	1.87	- 0.07	+ 0.10	+ 0.17
	Medicine from formal sources ^b	1.43	0.59	0.88	1.47	- 0.84	+ 0.58	+ 1.43
	Medicine from informal sources ^c	0.93	0.90	1.27	0.87	- 0.03	- 0.40	- 0.38
	Number of respondents	28	41	26	45			
(c) Exposure to activity poster (non-participants only)		Did not see activity poster		Saw activity poster		Survey Round Difference		Diff.-in-diff.
	(survey round) (column number)	R.1	R.2	R.1	R.2	(2) - (1)	(4) - (3)	(6) - (5)
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Chiang Khong	Average severity (1 - 3)	1.71	1.76	1.93	1.68	+ 0.05	- 0.25	- 0.30
	Medicine from formal sources ^b	1.10	1.47	1.26	1.65	+ 0.37	+ 0.39	+ 0.02
	Medicine from informal sources ^c	0.90	0.64	0.96	0.76	- 0.26	- 0.21	+ 0.05
	Number of respondents	31	45	27	37			
Chiang Rai	Average severity (1 - 3)	2.05	1.75	1.88	1.53	- 0.30	- 0.35	- 0.05
	Medicine from formal sources ^b	1.45	1.42	1.67	1.84	- 0.03	+ 0.18	+ 0.21
	Medicine from informal sources ^c	0.55	0.73	1.17	0.74	+ 0.18	- 0.43	- 0.61
	Number of respondents	40	48	24	19			
Mae Fah Luang	Average severity (1 - 3)	1.73	1.69	1.71	1.84	- 0.04	+ 0.13	+ 0.17
	Medicine from formal sources ^b	1.42	0.72	0.76	1.59	- 0.70	+ 0.83	+ 1.53
	Medicine from informal sources ^c	1.18	0.96	0.95	0.75	- 0.22	- 0.20	+ 0.02
	Number of respondents	33	54	21	32			

Notes: Illness episode level. Samples include only completed illnesses experienced by the respondents themselves. ^a. Only participants who attended activity throughout. ^b. Public health centres, public hospitals, pharmacies, private clinics, private hospitals. ^c. Local stores, traditional healers.

Supplementary Table S4. Relationship between language, exposure to posters/conversations, and their topics.

		Poster			Conversations		
		Thai Native Speaker (n = 198)	Thai Speaker (n = 254)	Non-Thai Speaker (n = 96)	Thai Native Speaker (n = 198)	Thai Speaker (n = 254)	Non-Thai Speaker (n = 96)
Overall	Conversed about activity / saw poster	47%	45%	31%	53%	42%	45%
	Topics related to educational activity ^a	41%	29%	13%	37%	36%	28%
Specific Themes ^a	1a) Activity/Poster in General	63%	65%	67%	69%	58%	51%
	1b) Entertainment, Compensation	..	..	..	26%	45%	44%
	2a) Using Medicines Correctly	35%	21%	3%	32%	30%	26%
	2b) Anti-Inflammatories/Antibiotics	19%	15%	3%	15%	15%	9%
	2c) Going to Doctor When Sick	5%	10%	7%	12%	14%	5%
	2d) Drug Resistance	5%	9%	3%	4%	8%	0%
	2e) Germs	1%	3%	0%	2%	6%	0%
	3a) General Health/Medicine Topics	11%	12%	7%	7%	8%	5%
	3b) Buying/Selling Medicine	9%	0%	0%	3%	0%	0%
	3c) Dangerous Medicine	6%	0%	0%	2%	1%	0%
	4) Other	9%	11%	3%	5%	8%	14%
	5a) Could not Remember Details	8%	6%	3%	2%	4%	9%
	5b) Could not Read Poster	2%	5%	17%	..	..	..

Notes: “..” is not applicable (i.e. theme did not arise). ^a. Subset of groups who reported conversations or having seen activity posters.

Supplementary Table S5. Overall changes of illnesses involving at least one other person across survey rounds, irrespective of activity participation.

		(survey round) (column number)	R.1 (1)	R.2 (2)
Chiang Khong	Illnesses involving other people		0.29	0.64
	Number of respondents		75	97
Chiang Rai	Illnesses involving other people		0.56	0.65
	Number of respondents		87	75
Mae Fah Luang	Illnesses involving other people		0.39	0.60
	Number of respondents		72	96

Notes: Illness episode level. Samples include only completed illnesses experienced by the respondents themselves.