

Mekong Malaria Elimination Programme

Epidemiology summary

Volume 27
July–September 2024



2024 GMS data at a glance (Jul–Sep)

GMS: Cambodia, Lao People's Democratic Republic, Myanmar, Thailand, Viet Nam, Yunnan (China)



48 115
cases



1 604 680
tests
conducted

25%

tests decrease
compared to
the same period
in 2023

44%

cases decrease
compared to the
same period in
2023



81%

P. falciparum +
mixed cases
decrease compared
to the same period
in 2023

36%

P. vivax cases
decrease
compared to the
same period in
2023

2024 Quarter 3 overview

In Jul–Sep 2024, Greater Mekong subregion (GMS) countries reported **48 115** malaria cases.

Cambodia

Cambodia reported 59 cases, an 83% decrease compared to the same time period in 2023. *P. falciparum* + mixed cases, *P. vivax* and other species constituted 0%, 93% and 7% of cases, respectively.

China (Yunnan Province)

Yunnan reported 104 cases. Among those, no indigenous cases were reported. *P. falciparum* + mixed cases, *P. vivax* and other species constituted 1%, 99% and 0% of cases, respectively.

Lao People's Democratic Republic

Lao People's Democratic Republic reported 120 cases, a 65% decrease compared to the same time period in 2023. *P. falciparum* + mixed cases, *P. vivax* and other species constituted 11%, 89% and 0% of cases, respectively.

Myanmar

Myanmar reported 43 160 cases. *P. falciparum* + mixed cases, *P. vivax* and other species constituted 6%, 94% and 0% of cases, respectively. It should be noted that only partial data was available for Myanmar during this period.

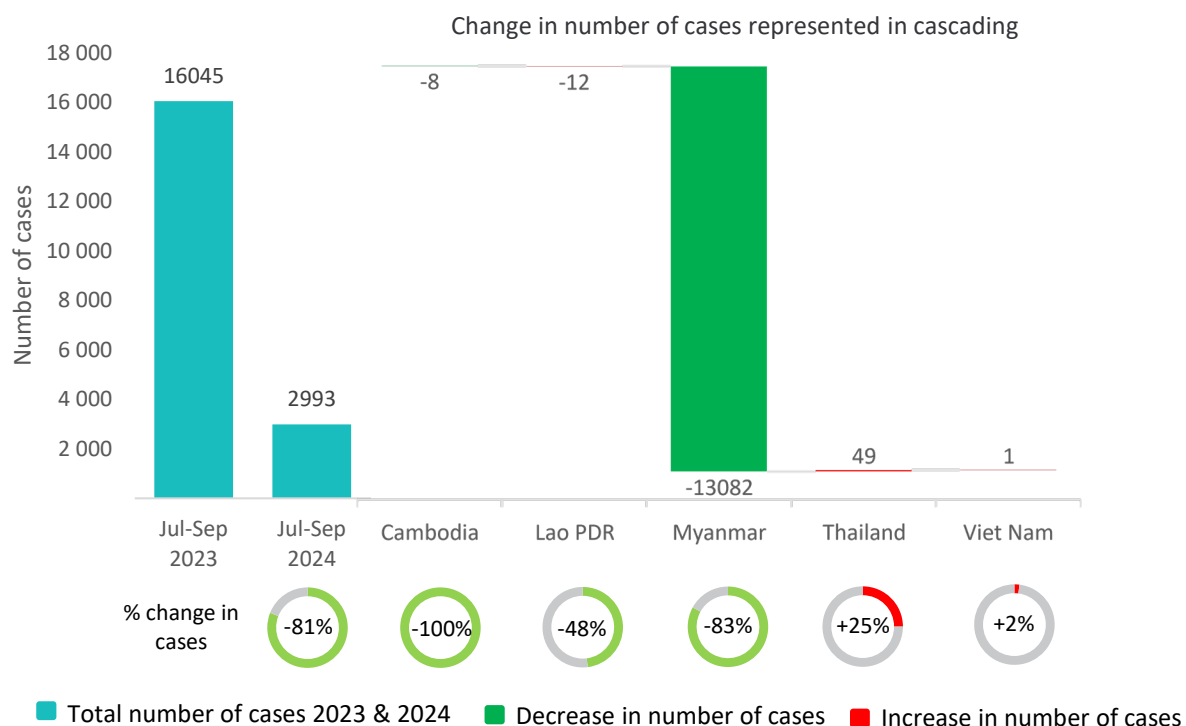
Thailand

Thailand reported 4582 cases, a 12% decrease compared to the same time period in 2023. *P. falciparum* + mixed cases, *P. vivax* and other species constituted 5%, 94% and 1% of cases, respectively.

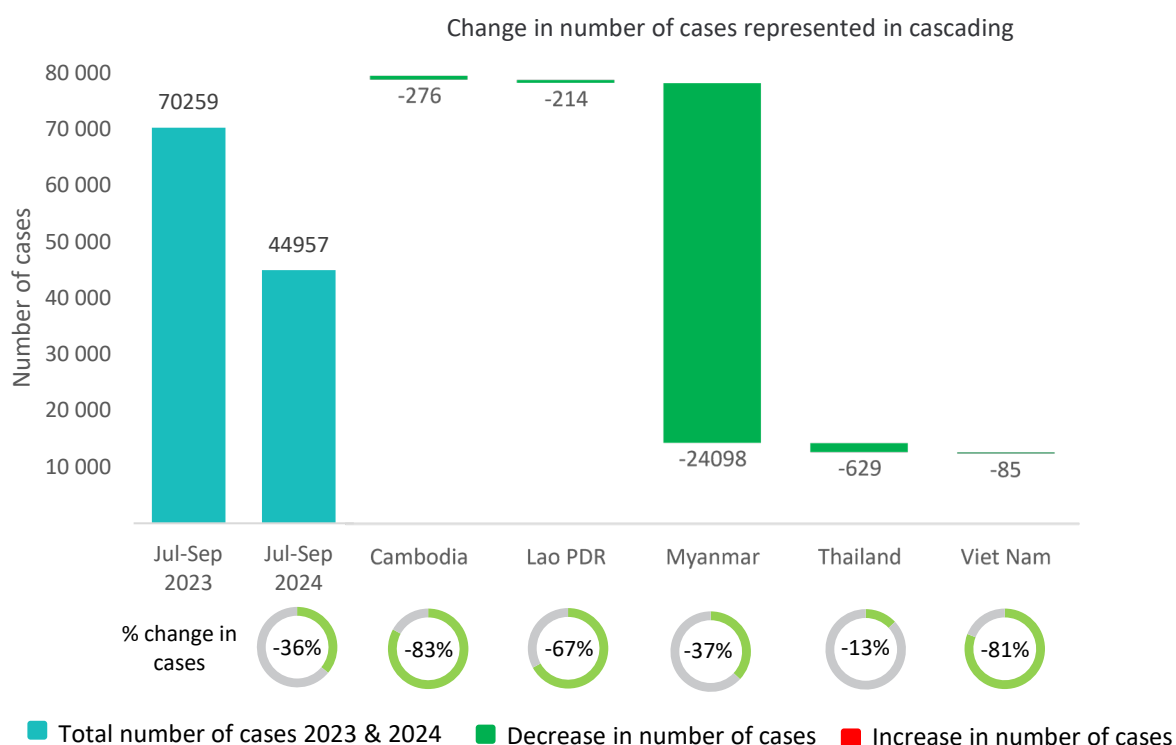
Viet Nam

Viet Nam reported 90 cases, a 60% decrease compared to the same time period in 2023. *P. falciparum* + mixed cases, *P. vivax* and other species (reported as *P. malariae*) constituted 64%, 22% and 14% of cases, respectively.

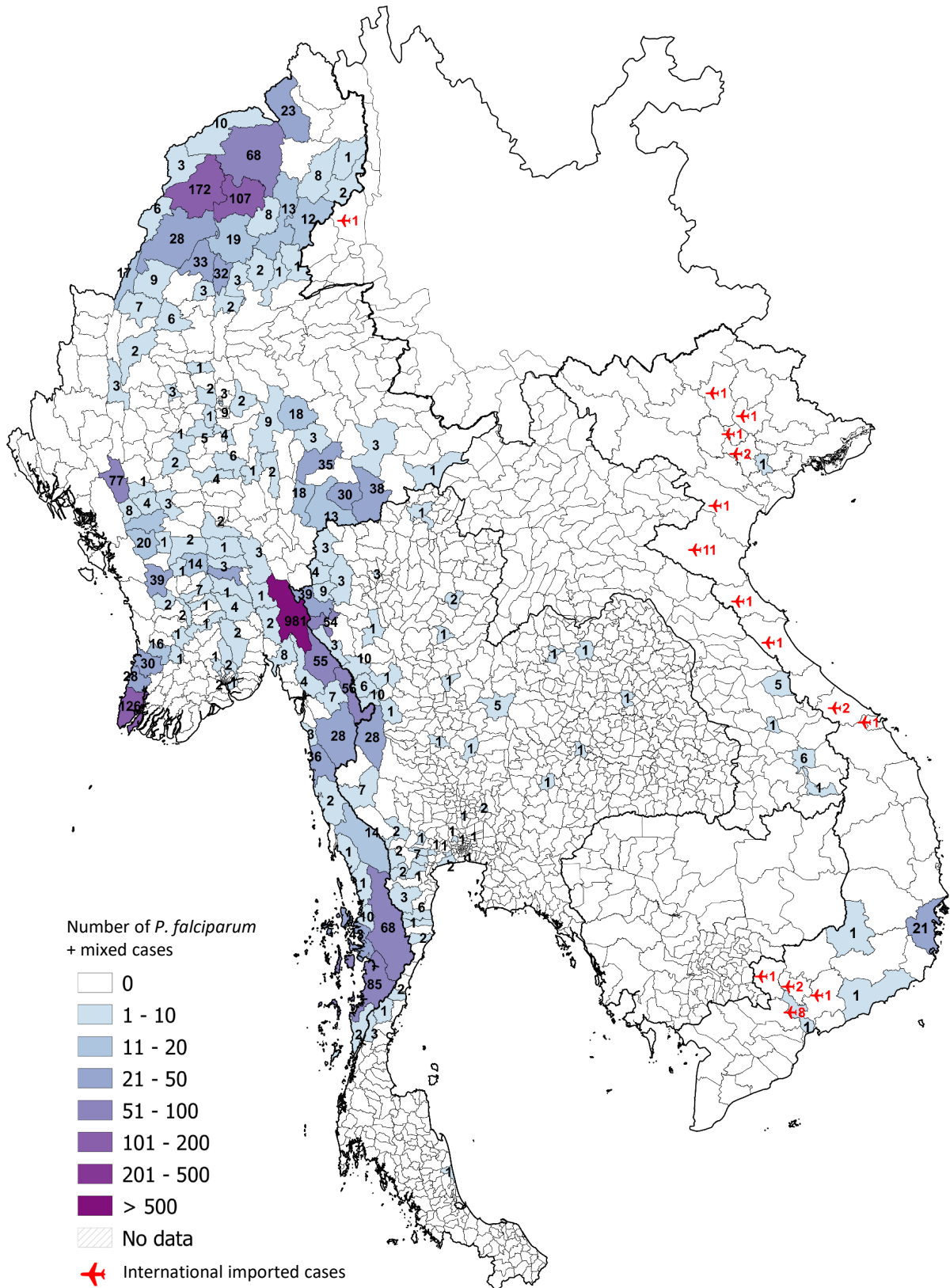
Changes in *P. falciparum* + mixed cases in the GMS from Jul-Sep 2023 compared to Jul-Sep 2024



Changes in *P. vivax* cases in the GMS from Jul-Sep 2023 compared to Jul-Sep 2024



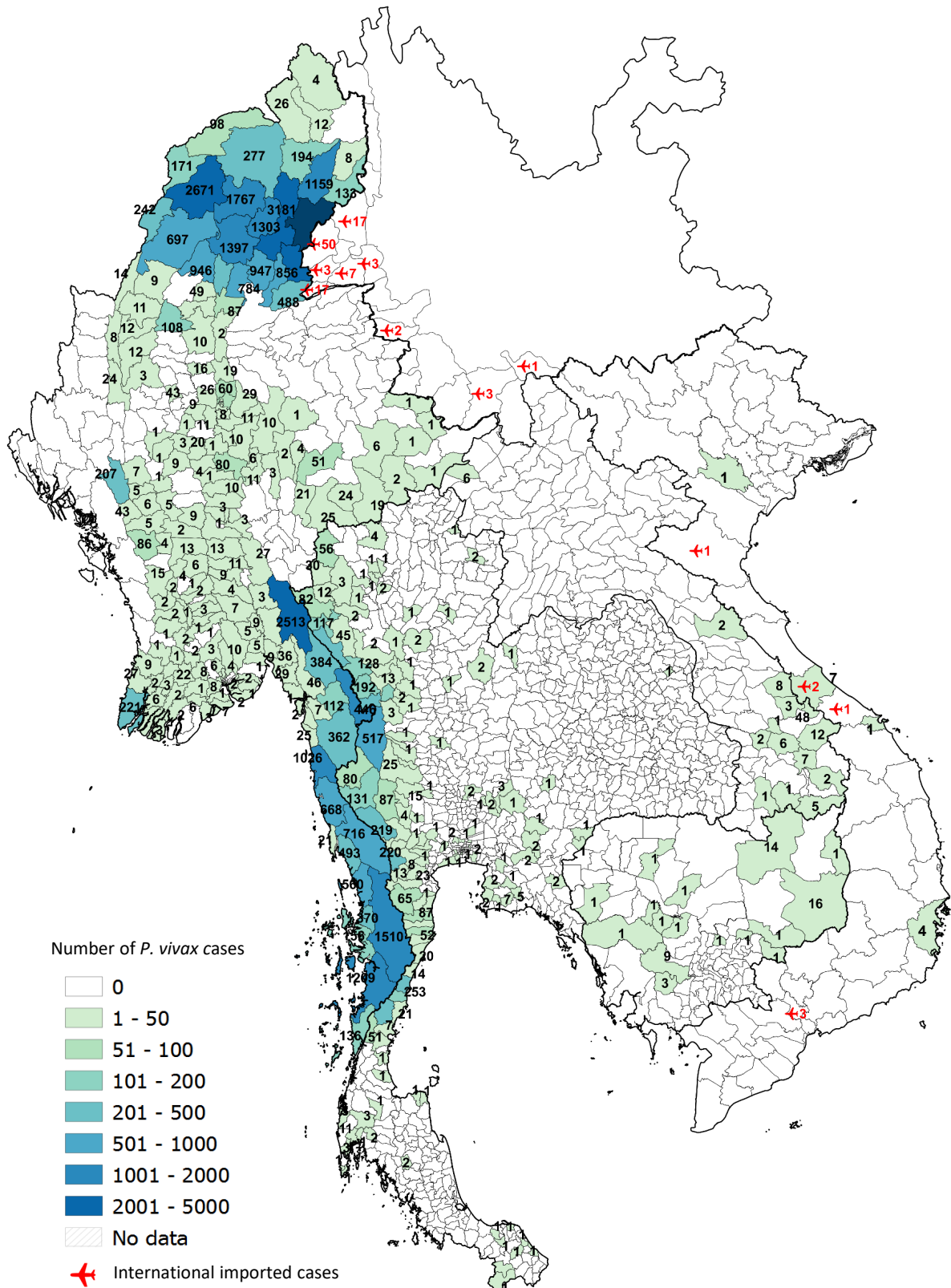
Regional map of *P. falciparum* + mixed cases by district (Jul-Sep 2024)*



- Data from Viet Nam is at the provincial level and excludes international imported cases.

Subnational administrative boundaries for Lao People's Democratic Republic, Myanmar, Thailand and Viet Nam: <https://data.humdata.org/>. Licensed under the CC BY 4.0 international licence. WHO has adapted the maps by colouring the shapefiles to show country data. Subnational administrative boundaries for Cambodia: Department of planning and health information of the Ministry of Health.

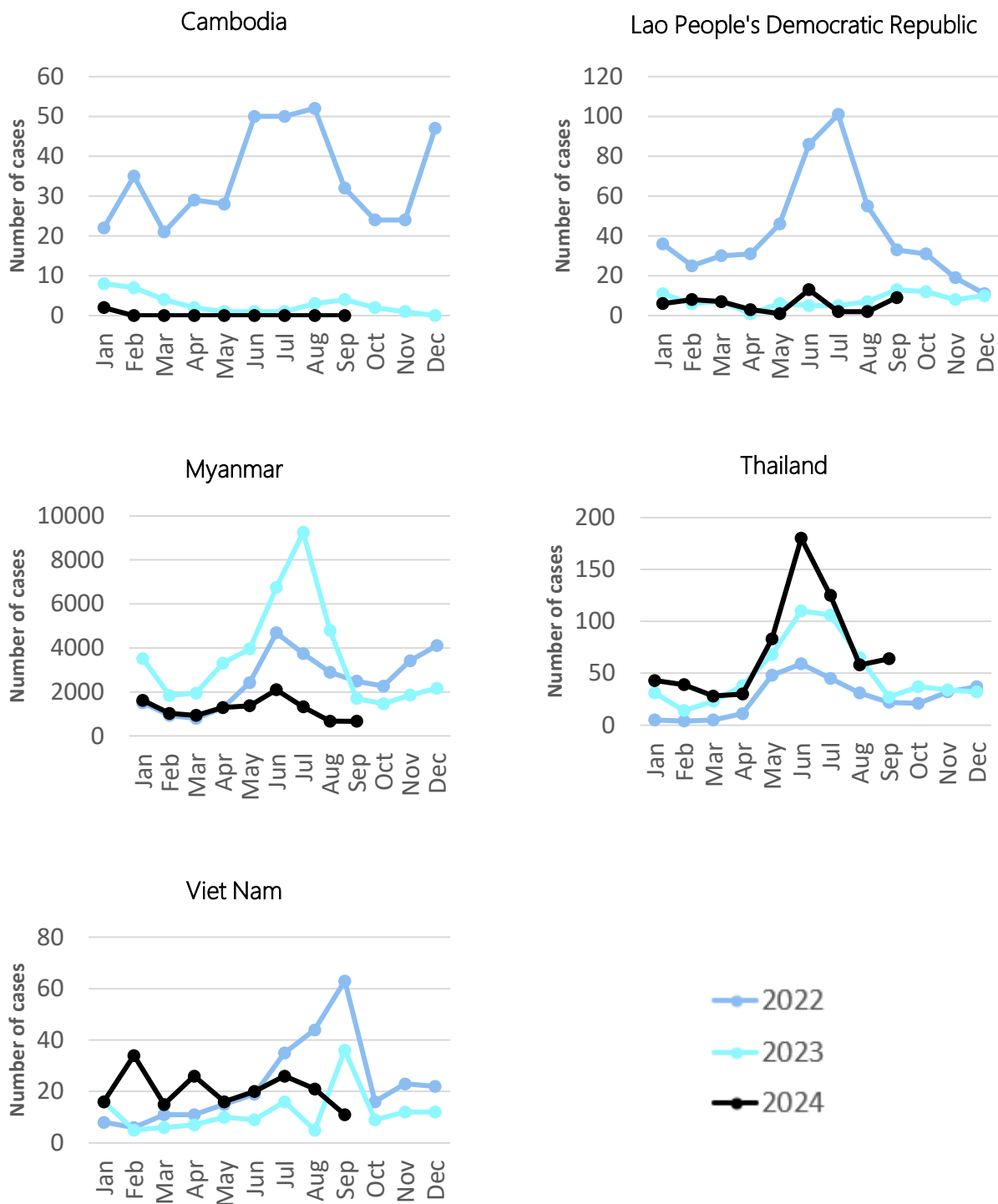
Regional map of *P. vivax* cases by district (Jul-Sep 2024)*



- Data from Viet Nam is at the provincial level and excludes international imported cases.

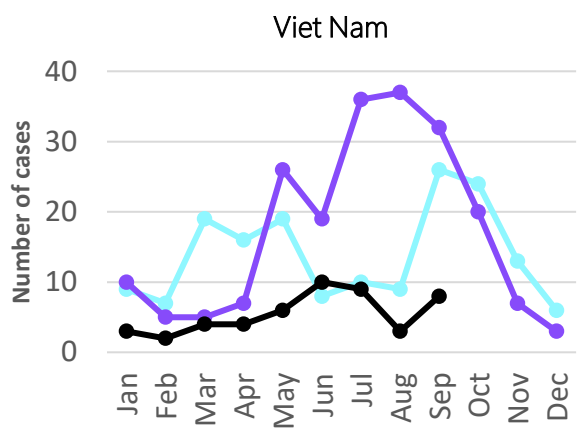
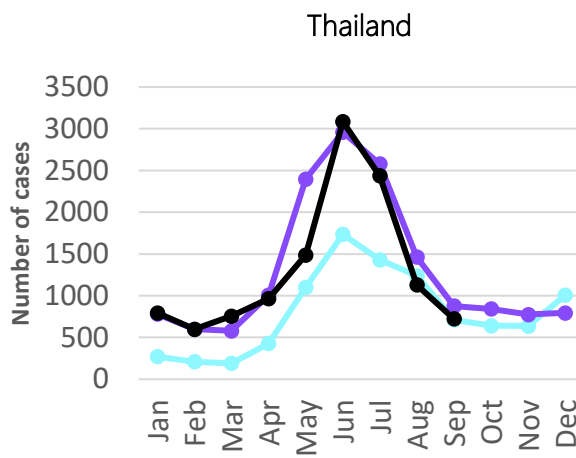
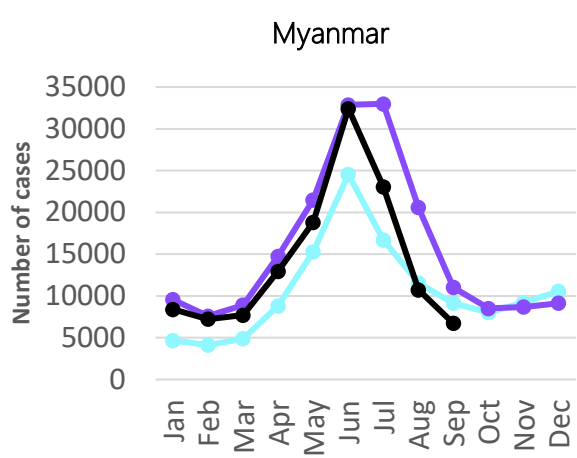
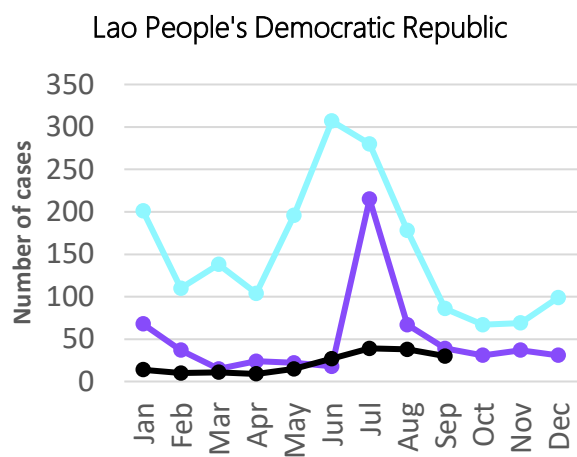
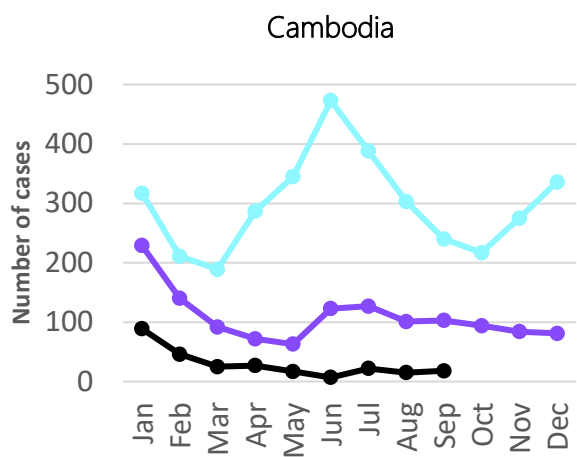
Subnational administrative boundaries for Lao People's Democratic Republic, Myanmar, Thailand and Viet Nam: <https://data.humdata.org/>. Licensed under the CC BY 4.0 international licence. WHO has adapted the maps by colouring the shapefiles to show country data. Subnational administrative boundaries for Cambodia: Department of planning and health information of the Ministry of Health.

Number of *P. falciparum* + mixed cases
by month and country (2022–2024)*



*Data from 2024 -covers January – September

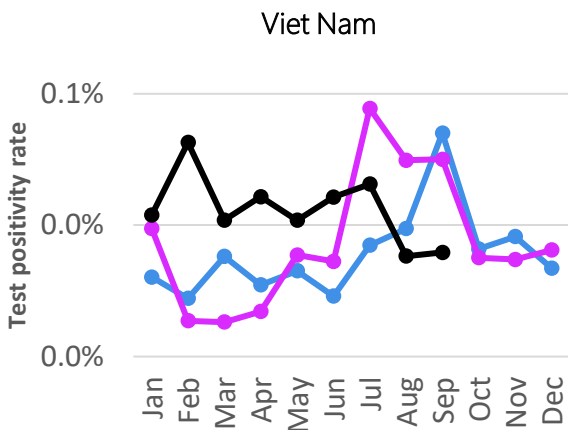
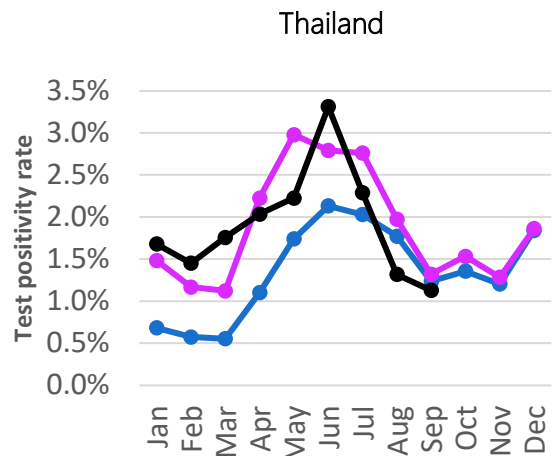
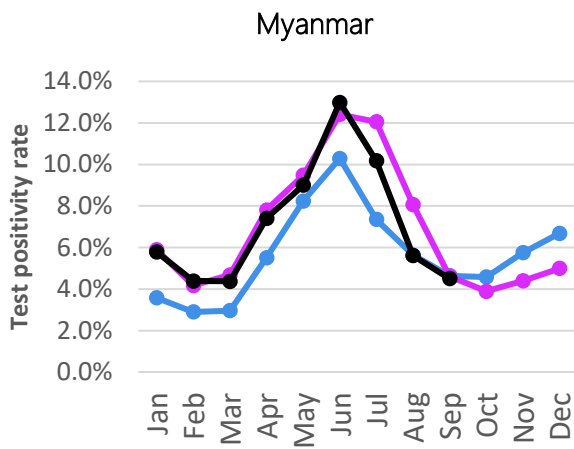
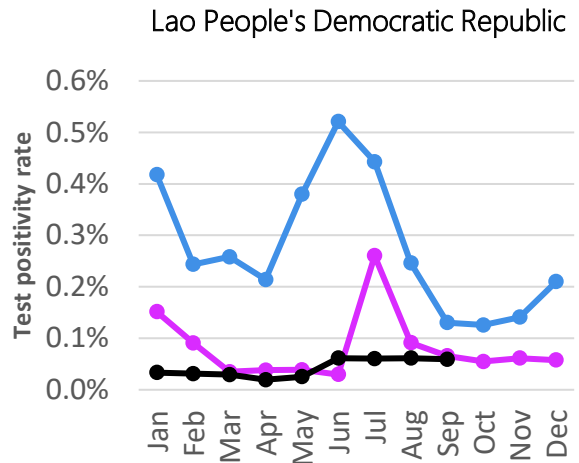
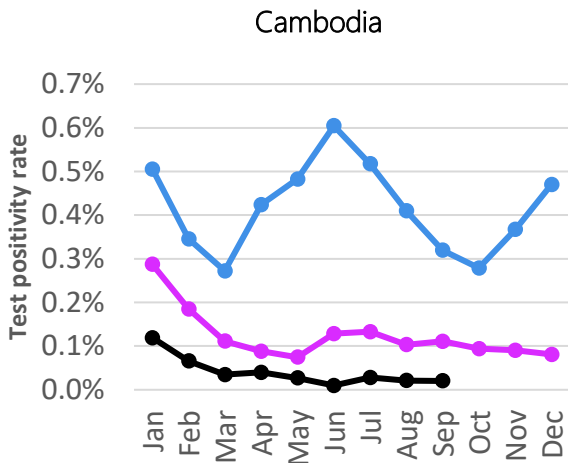
Number of *P. vivax* cases by month
by country* (2022–2024)



—●— 2022
—●— 2023
—●— 2024

*Data from 2024 covers January – September

Monthly test positivity rate (TPR) by country* (2022–2024)

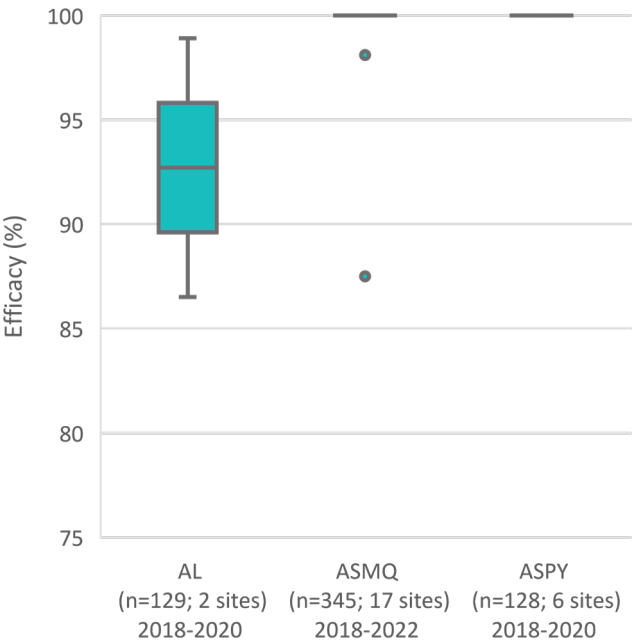


*TPR is calculated as number of confirmed cases divided by number of tested cases (including rapid diagnostic tests and microscopy) per month per country.

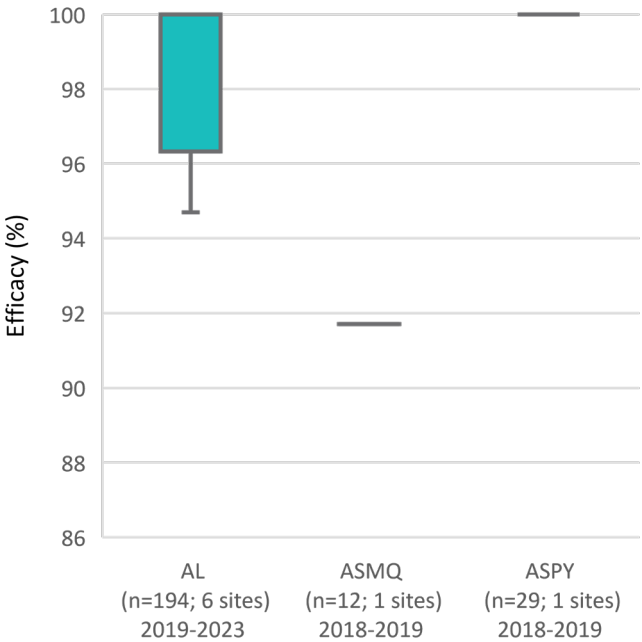
*Data from 2024 covers January – September

Drug efficacy of *P. falciparum* in the GMS, 2018-2023

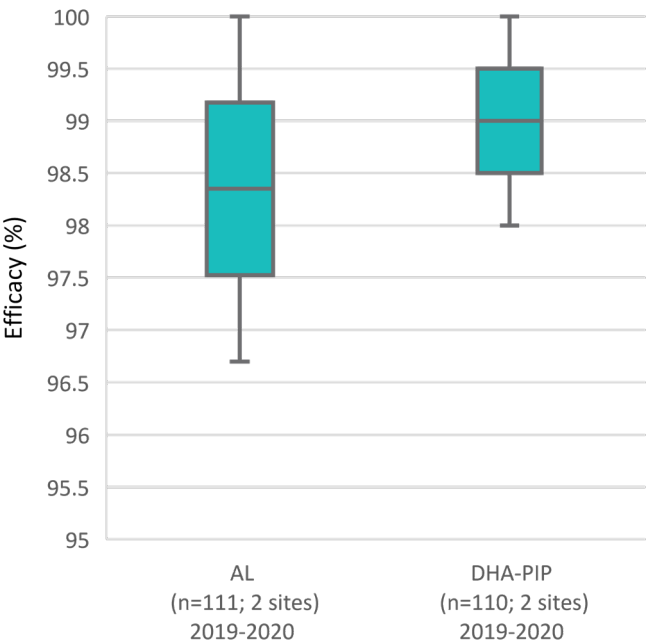
Cambodia



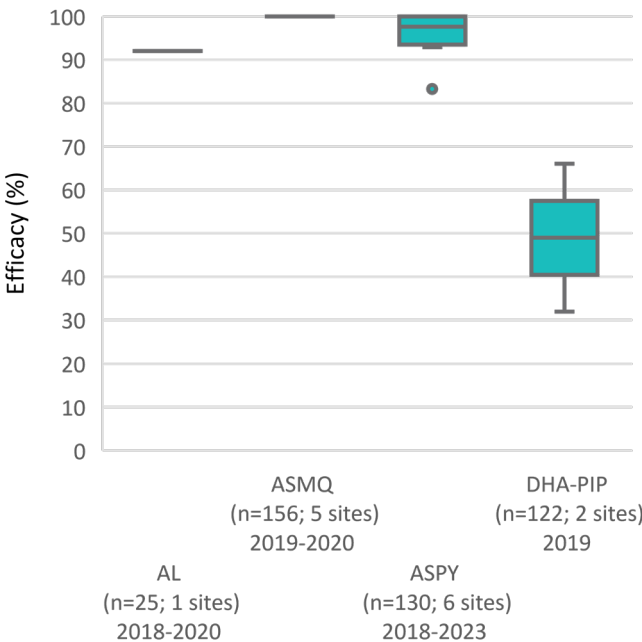
Lao People's Democratic Republic



Myanmar



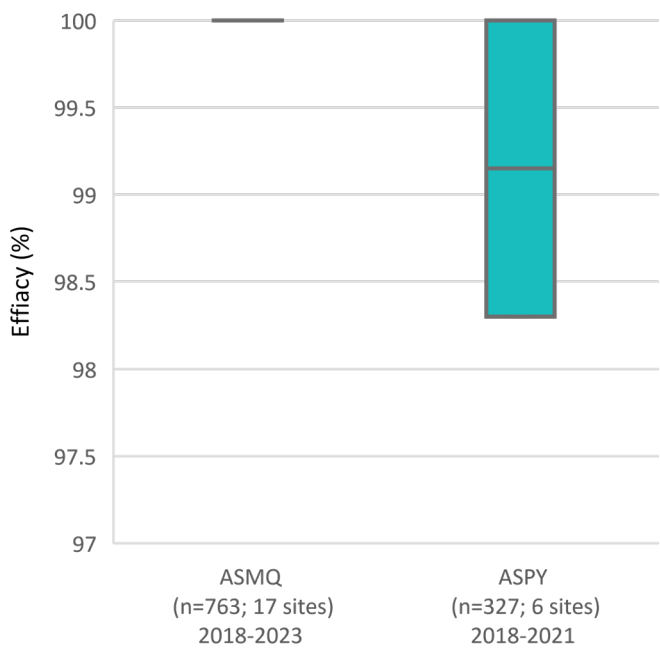
Viet Nam



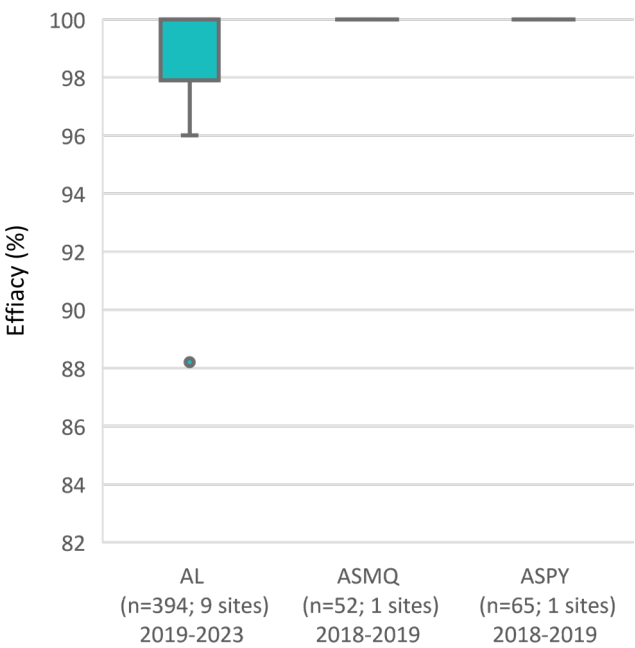
AL: artemether-lumefantrine; ASMQ: artesunate-mefloquine; ASPY: artesunate-pyronaridine; DHA-PIP: dihydroartemisinin-piperaquine.
n: number of recruited patients.

Drug efficacy of P. vivax in the GMS, 2018-2023

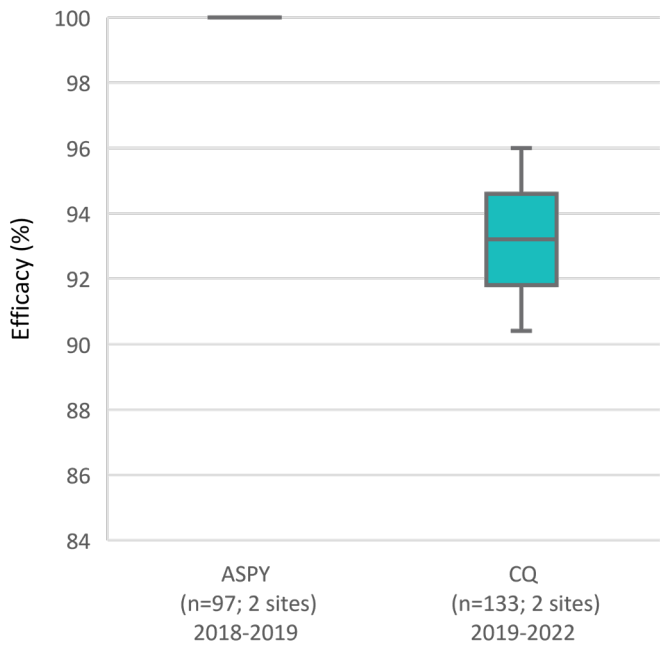
Cambodia



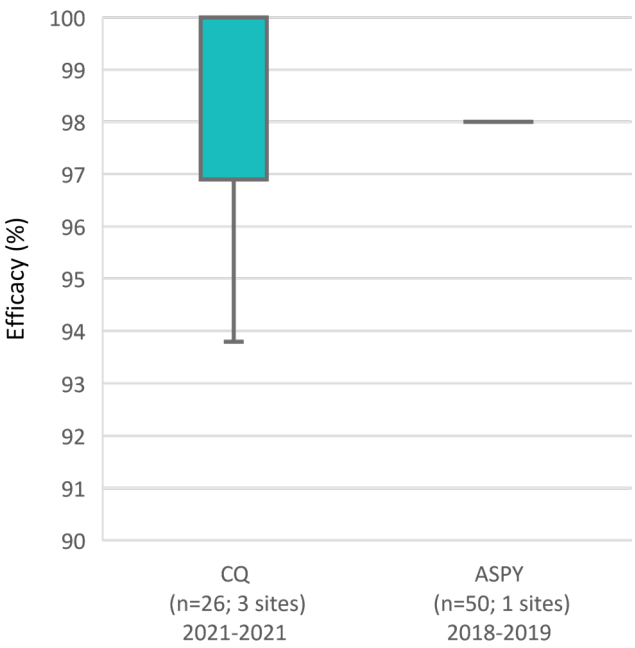
Lao People's Democratic Republic



Myanmar



Viet Nam



AL: artemether-lumefantrine; ASMQ: artesunate-mefloquine; ASPY: artesunate-pyronaridine; DHA-PIP: dihydroartemisinin-piperaquine; CQ: Chloroquine.
n: number of recruited patients.

Monthly malaria cases and deaths by country in 2023 (Jan–Dec)														
Country	Surveillance indicator ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cambodia ²	Deaths	0	0	0	0	0	0	0	0	0	0	0	0	0
	Suspected cases tested	83 566	79 489	88 229	83 995	89 921	98 094	99 458	103 684	105 599	105 241	103 125	104 115	1 144 516
	Confirmed cases	240	147	98	74	67	126	132	107	117	99	93	84	1 384
	<i>P. falciparum</i> cases	8	7	4	2	1	1	1	3	4	2	1	0	34
	<i>P. vivax</i> cases	229	140	92	72	63	123	127	101	103	94	84	81	1 309
	Mixed cases	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other cases	3	0	2	0	3	2	4	3	10	3	8	3	41
	Imported cases	0	0	0	0	1	0	0	0	0	1	0	0	2
China ³	Deaths	0	0	0	0	0	0	0	0	0	0	0	0	0
	Suspected cases tested	3 482	3 735	5 343	6 534	8 496	8 237	10 564	11 458	14 685	12 431	8 518	9 398	102 881
	Confirmed cases	3	5	9	18	52	59	66	32	27	13	25	31	340
	<i>P. falciparum</i> cases	0	1	0	0	1	0	0	0	1	0	0	0	3
	<i>P. vivax</i> cases	3	4	9	18	51	58	66	32	26	13	25	31	336
	Mixed cases	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other cases	0	0	0	0	0	1	0	0	0	0	0	0	1
	Imported cases	3	5	9	18	52	58	66	31	26	12	25	30	335
Lao People's Democratic Republic ⁴	Deaths	0	0	0	0	0	0	0	0	0	0	0	0	0
	Suspected cases tested	52 164	47 379	62 997	66 114	72 877	77 554	84 572	81 099	79 345	78 385	73 479	71 181	847 146
	Confirmed cases	79	43	22	25	28	23	220	74	52	43	45	41	695
	<i>P. falciparum</i> cases	11	6	7	1	6	5	5	5	11	11	8	9	85
	<i>P. vivax</i> cases	68	37	15	24	22	18	215	67	39	31	37	31	604
	Mixed cases	0	0	0	0	0	0	0	2	2	1	0	1	6
	Other cases	0	0	0	0	0	0	0	0	0	0	0	0	0
	Imported cases	1	4	3	2	5	1	1	3	0	3	2	1	26
Myanmar	Deaths	1	2	1	2	1	2	4	0	0	1	0	1	15
	Suspected cases tested	221 972	225 511	231 552	231 084	268 303	319 279	350 293	314 733	275 965	255 425	239 182	226 239	3 159 538
	Confirmed cases	13 072	9 415	10 844	18 051	25 445	39 621	42 236	25 387	12 717	9 957	10 521	11 301	228 567
	<i>P. falciparum</i> cases	3 383	1 739	1 829	3 146	3 627	6 114	8 308	4 202	1 555	1 351	1 734	2 032	39 020
	<i>P. vivax</i> cases	9 557	7 578	8 896	14 741	21 489	32 867	32 982	20 585	11 016	8 495	8 665	9 134	186 005
	Mixed cases	132	98	119	164	329	640	946	600	146	111	122	135	3 542
	Other cases	0	0	0	0	0	0	0	0	0	0	0	0	0
Thailand	Deaths	Data not available ⁵												6
	Suspected cases tested	58 261	55 951	59 587	49 688	83 843	111 085	98 436	78 398	70 325	59 264	64 924	45 769	835 531
	Confirmed cases	864	653	668	1 106	2 497	3 102	2 716	1 548	928	908	833	852	16 675
	<i>P. falciparum</i> cases	23	10	18	28	55	93	90	56	22	32	33	32	492
	<i>P. vivax</i> cases	780	599	580	1 008	2 397	2 961	2 579	1 464	876	843	776	795	15 658
	Mixed cases	8	4	5	10	13	17	16	9	5	5	1	0	93
	Other cases	52	39	63	58	22	20	21	15	18	21	20	22	371
	Unknown	1	1	2	2	10	11	10	4	7	7	3	3	61
	Imported cases	465	307	318	511	1 020	1 198	1 008	572	411	383	392	402	6 987
Viet Nam	Deaths	0	0	0	0	1	0	0	1	0	0	0	0	2
	Suspected cases tested	66 774	91 933	104 852	109 512	116 439	113 947	115 107	115 463	116 579	113 076	101 491	83 239	1 248 412
	Confirmed cases	26	10	11	15	36	33	87	69	70	34	30	27	448
	<i>P. falciparum</i> cases	14	5	6	7	7	9	16	5	22	9	12	12	124
	<i>P. vivax</i> cases	10	5	5	7	26	19	36	37	32	20	7	3	207
	Mixed cases	2	0	0	0	3	0	0	0	14	0	0	0	19
	Other cases	0	0	0	1	0	5	35	27	2	5	11	12	98
	Imported cases	13	8	3	6	10	18	17	11	29	8	4	5	132

¹ Mixed cases include cases identified with more than one *Plasmodium* species. Other cases refer to *P. malariae*, *P. ovale*, and *P. knowlesi* cases. Data in the table includes microscopy and rapid diagnostic tests (RDTs).

² Numbers of cases includes data from two systems: the malaria information system (MIS) and the health information system (HIS).

³ Numbers of cases for China refers to imported and relapsed cases in 19 border counties of Yunnan Province. No indigenous cases were reported since 2017.

⁴ Data reported under Lao People's Democratic Republic is counted only actual cases and referral cases are excluded.

⁵ Malaria deaths from Thailand are officially reported annually.

Monthly malaria cases and deaths by country in 2024 (Jan–Sep)														
Country	Surveillance indicator ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cambodia ²	Deaths	0	0	0	0	0	0	0	0	0				0
	Suspected cases tested	81 634	74 495	80 816	75 519	78 757	85 007	82 773	85 606	89 786				734 393
	Confirmed cases	97	49	28	30	21	8	23	18	18				292
	<i>P. falciparum</i> cases	2	0	0	0	0	0	0	0	0				2
	<i>P. vivax</i> cases	89	46	25	27	17	7	22	15	18				266
	Mixed cases	0	0	0	0	0	0	0	0	0				0
	Other cases	6	3	3	3	4	1	1	3	0				24
	International imported cases	0	0	0	1	0	0	0	0	0				1
China ³	Deaths	0	0	0	0	0	0	0	0	0				0
	Suspected cases tested	5 765	4 427	5 318	9 363	13 716	13 948	11 802	9 492	8 794				82 625
	Confirmed cases	30	24	42	45	84	91	52	30	22				420
	<i>P. falciparum</i> cases	0	0	0	0	0	1	1	0	0				2
	<i>P. vivax</i> cases	30	24	41	45	84	90	51	30	22				417
	Mixed cases	0	0	0	0	0	0	0	0	0				0
	Other cases	0	0	1	0	0	0	0	0	0				1
	International imported cases	23	24	40	44	82	91	51	29	21				405
Lao People's Democratic Republic ⁴	Deaths	0	0	0	0	0	0	0	0	0				0
	Suspected cases tested	59 954	58 118	61 625	62 288	63 716	65 448	68 073	65 203	66 150				570 575
	Confirmed cases	20	18	18	12	16	40	41	40	39				244
	<i>P. falciparum</i> cases	6	8	5	2	0	10	2	2	5				40
	<i>P. vivax</i> cases	14	10	11	9	15	27	39	38	30				193
	Mixed cases	0	0	2	1	1	3	0	0	4				11
	Other cases	0	0	0	0	0	0	0	0	0				0
	International imported cases	0	0	0	0	0	0	0	0	0				0
Myanmar ⁵	Deaths	0	0	0	0	0	1	0	0	0				1
	Suspected cases tested	172 754	187 960	197 478	192 022	224 075	265 740	239 496	203 106	163 970				1 846 601
	Confirmed cases	9 995	8 248	8 636	14 229	20 172	34 517	24 378	11 403	7 379				138 957
	<i>P. falciparum</i> cases	1 497	965	894	1 243	1 298	1 897	1 163	593	504				10 054
	<i>P. vivax</i> cases	8 375	7 221	7 698	12 934	18 798	32 415	23 051	10 726	6 708				127 926
	Mixed cases	123	62	44	52	76	205	164	84	167				977
	Other cases	0	0	0	0	0	0	0	0	0				0
Thailand		Data not available ⁶												
	Suspected cases tested	51 509	45 274	45 586	49 703	71 101	99 027	112 822	91 326	70 751				637 099
	Confirmed cases	865	657	801	1 011	1 582	3 279	2 581	1 203	798				12 777
	<i>P. falciparum</i> cases	39	31	23	21	70	153	110	56	58				561
	<i>P. vivax</i> cases	794	598	756	964	1 489	3 085	2 437	1 129	724				11 976
	Mixed cases	4	8	5	9	13	27	15	2	6				89
	Other cases	28	19	17	17	10	11	18	16	10				146
	Unknown	0	1	0	0	0	3	1	0	0				5
	Imported cases	507	368	432	514	764	1 347	1 075	519	338				5 864
Viet Nam	Deaths	0	0	0	0	0	0	0	0	0				0
	Suspected cases tested	62 631	62 881	77 059	84 258	89 181	80 328	78 060	78 546	78 924				691 868
	Confirmed cases	27	41	32	41	37	39	41	24	25				307
	<i>P. falciparum</i> cases	15	34	15	26	16	20	26	21	10				183
	<i>P. vivax</i> cases	3	2	4	4	6	10	9	3	8				49
	Mixed cases	1	0	0	0	0	0	0	0	1				2
	Other cases	8	5	13	11	15	9	6	0	6				73
	International imported cases	12	12	9	7	5	7	14	14	14				94

¹ Mixed cases include cases identified with more than one *Plasmodium* species. Other cases refer to *P. malariae*, *P. ovale*, and *P. knowlesi* cases. Data in the table includes microscopy and rapid diagnostic tests (RDTs).

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⁴ Data reported under Lao People's Democratic Republic is counted only actual cases and referral cases are excluded.

⁵ The monthly data for 2024 reported under Myanmar is not finalized yet and subject to change.

⁶ Malaria deaths from Thailand are officially reported annually.

Notes

The Mekong Malaria Elimination (MME) programme is an initiative aimed at supporting the countries in the Greater Mekong subregion towards the goal of malaria elimination by 2030. The World Health Organization (WHO) has compiled data for this publication based on reports from the countries in the Greater Mekong subregion. The data presented in this publication are based on available data as of May 2024.

Data sources: Reported cases include cases reported from all sources of public health facilities, community health workers and the private sector.

Map sources: The shapefiles used for creating the maps are provided by OCHA under the CC BY 4.0 licence. WHO has adapted the maps by colouring the shapefiles to show country data. Maps for Cambodia are used with permission of the Department of planning and health information of the Ministry of Health. The boundaries, names shown, and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

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