MEKONG MALARIA ELIMINATION PROGRAMME

EPIDEMIOLOGY SUMMARY

Volume 17 January–March 2022 World Health Organization

2022 GMS DATA AT A GLANCE (JAN-MAR)*





1 247 153 tests conducted

1% tests compared to the same period in 2021 75% cases compared to the same period in 2021



39% *P. falciparum* + mixed cases compared to the same period in 2021



P. vivax cases compared to the same period in 2021

2022 QUARTER 1 OVERVIEW

In Jan-Mar 2022, Greater Mekong subregion (GMS) countries reported **17 695** malaria cases.

Cambodia

Cambodia reported 790 cases, a 38% decrease compared to the same time period in 2021. *P. falciparum* + mixed cases and *P. vivax* constituted 9% and 90% of cases, respectively.

China (Yunnan Province)

Yunnan reported 11 *P. vivax* cases and 0 *P. falciparum* + mixed cases. Among those, no indigenous cases were reported.

Lao People's Democratic Republic

Lao People's Democratic Republic reported 523 cases, a 15% decrease compared to the same time period in 2021. *P. falciparum* + mixed cases and *P. vivax* constituted 17% and 83% of cases respectively.

Myanmar

Myanmar reported 15569 cases of which 17% were *P. falciparum* + mixed cases and 83% were *P. vivax.* It should be noted that only partial data was available for Myanmar during this period.

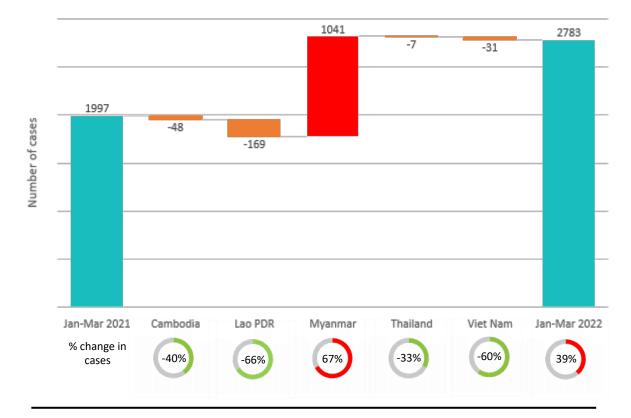
Thailand

Thailand reported 747 cases, a 84% increase compared to the same time period in 2021. *P. falciparum* + mixed cases and *P. vivax* constituted 2% and 89% of cases, respectively.

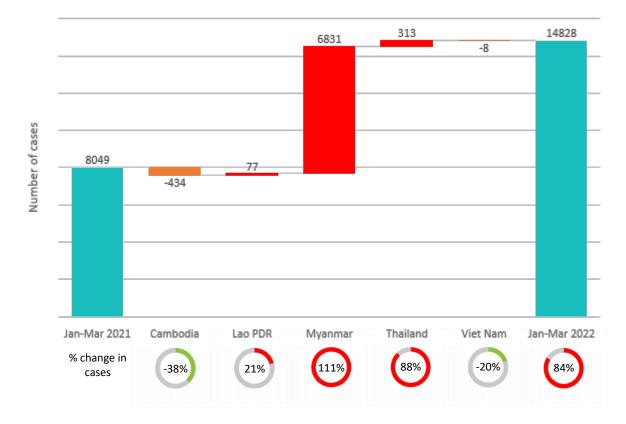
Viet Nam

Viet Nam reported 55 cases, a 41% decrease compared to the same time period in 2021. *P. falciparum* + mixed cases and *P. vivax* constituted 38% and 60% of cases, respectively.

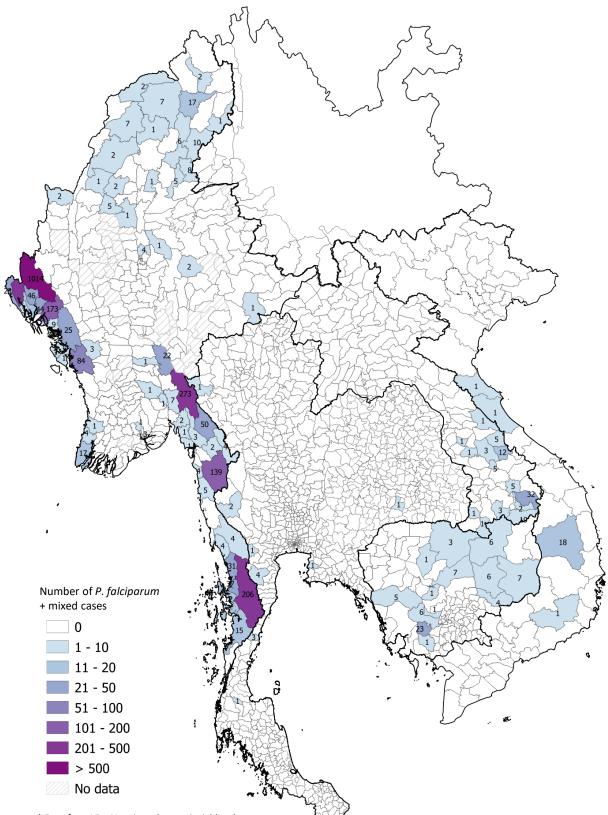
CHANGES IN P. FALCIPARUM + MIXED CASES IN THE GMS FROM JAN-MAR 2021 COMPARED TO JAN-MAR 2022



CHANGES IN P. VIVAX CASES IN THE GMS FROM JAN-MAR 2021 COMPARED TO JAN-MAR 2022

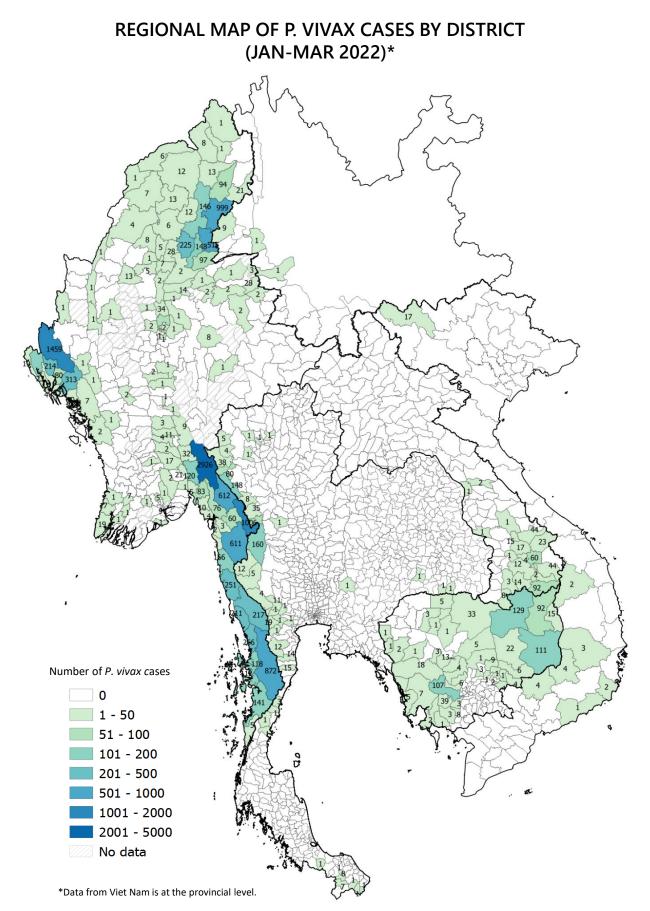


REGIONAL MAP OF P. FALCIPARUM + MIXED CASES BY DISTRICT (JAN-MAR 2022)*



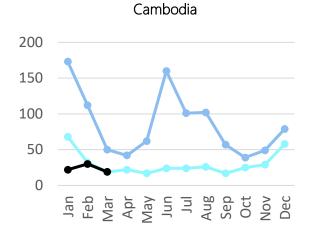
* Data from Viet Nam is at the provincial level.

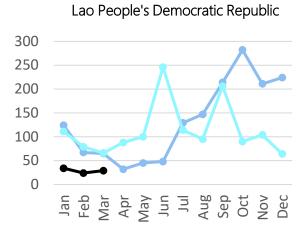
The boundaries, names shown, and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.



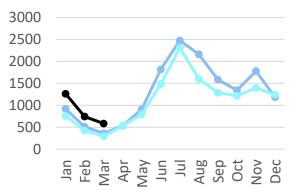
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NUMBER OF P. FALCIPARUM + MIXED CASES BY MONTH AND COUNTRY (2020–2022)*

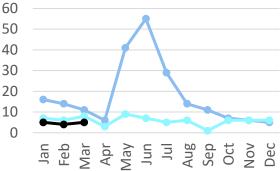


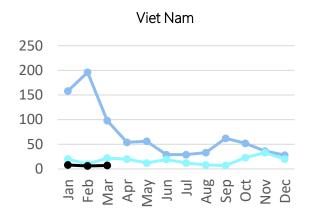


Myanmar





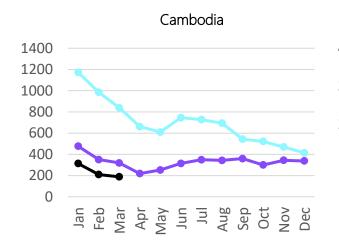


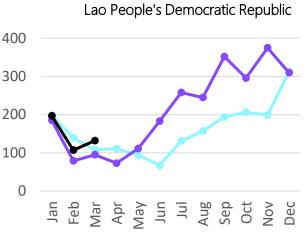


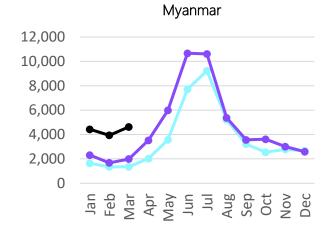


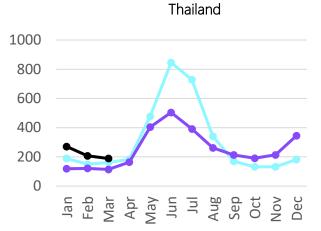
*Data from 2022 -covers January - March

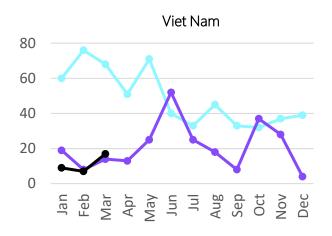
NUMBER OF P. VIVAX CASES BY MONTH BY COUNTRY* (2020-2022)







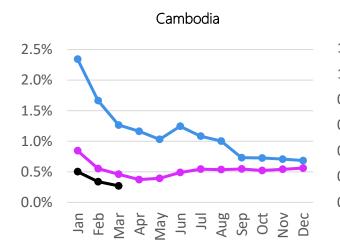


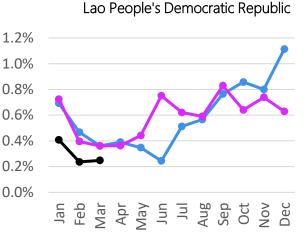




*Data from 2022 covers January - March

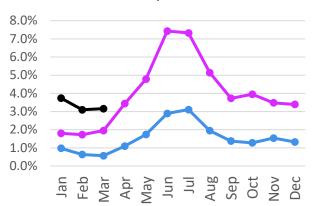
MONTHLY TEST POSITIVITY RATE (TPR) BY COUNTRY* (2020-2022)



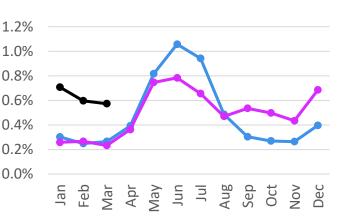


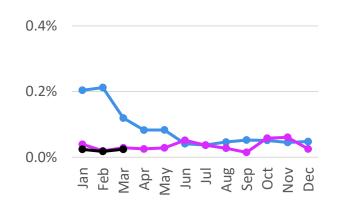
Myanmar

Thailand



Viet Nam







*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 2022 covers January - March

MONTHLY MALARIA CASES AND DEATHS BY COUNTRY IN 2021 (JAN–DEC)														
Country	Surveillance indicator ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota
Cambodia ²	Deaths	0	0	0	0	0	0	0	0	0	0	0	0	
	Suspected cases	64 563	69 240	73 576	64 730	68 611	69 433	68 631	68 928	68 963	62 412	68 951	70 691	818 7
	tested	5.45	202	220	244	270	220	272	200		225	272	200	
	Confirmed cases	545	383	338	241	270			369	377	325	373	396	
	P. falciparum cases	68		19	7	16			26	17	25		58	
	P. vivax cases	477	351	319	219	253			343	360	300	344	338	
	Mixed cases	0		0	15	1			0	0	0	0	0	
	Other cases	0	0	0	0	0	-		0	0	0	0	0	
	Imported cases	0	0	0	0	0	0	-	0	0	0	0	0	
	Deaths	0	0	0	0	0	0	0	0	0	0	0	0	
	Suspected cases tested	6 366	6 752	7 044	7 697	8 994	11 001	10 178	9 451	10 769	10 524	6 593	8 631	104
~_	Confirmed cases	4	3	8	10	12	25	30	8	4	7	4	3	
China ³	P. falciparum cases	0	0	0	0	0	0	0	0	0	0	0	0	
Ċ	P. vivax cases	4	3	8	10	12	25	30	8	4	7	4	3	
	Mixed cases	0	0	0	0	0	0	0	0	0	0	0	0	
	Other cases	0	0	0	0	0	0	0	0	0	0	0	0	
	Imported cases	3	3	5	9	11	25	30	7	4	7	4	3	
Lao People's Democratic Republic	Deaths	0	0	0	0	0	0	0	0	1	0	0	0	
	Suspected cases tested	40 893	40 013	44 544	44 390	47 777	57 134	59 933	57 608	67 299	60 269	64 881	59 398	644
emo ic	Confirmed cases	296	158	161	161	211	429	372	340	558	386	479	374	3
ple's Den Republic	P. falciparum cases	110	78	63	87	98	246	112	89	206	90	101	59	1
ple Rep	P. vivax cases	185	79	95	73	111	183	258	245	352	296	375	310	2
leo	Mixed cases	1	1	3	1	2	0	2	6	0	0	3	5	
ао F	Other cases	0	0	0	0	0	0	0	0	0	0	0	0	
_	Imported cases	1	4	2	7	2	12	7	1	2	1	3	7	
	Deaths	0	0	0	0	0	2	4	2	0	0	0	0	
	Suspected cases tested	170 823	121 850	116 932	118 377	142 385	164 914	177 511	136 681	130 998	123 050	127 666	113 919	1645
Myanmar	Confirmed cases	3 197	2 171	2 329	4 119	6 944	12 579	13 393	7 354	5 153	5 063	4 760	4 118	71
/an	P. falciparum cases	773	430	284	522	828	1 617	2 428	1 712	1 405	1 300	1 534	1 299	14
Ś	P. vivax cases	2 398	1 721	2 029	3 558	6 090	10 931	10 896	5 585	3 709	3 726	3 170	2 763	56
	Mixed cases	26	20	16	39	26	31	69	57	39	37	56	56	
	Other cases	0	0	0	0	0	0	0	0	0	0	0	0	
	Deaths					C	ata not a	vailable ⁴						
Thailand	Suspected cases tested	51 072	49 972	60 443	49 339	56 010	66 982	61 924	57 638	41 628	40 594	51 569	52 817	639
	Confirmed cases	132	133	141	179	418	525	406	271	223	202	224	362	:
	P. falciparum cases	5	4	8	3	8	7	2	5	1	6	6	6	
	P. vivax cases	119	121	114	164	404	504	391	262	213	191	214	345	:
	Mixed cases	2	2	0	0	1	0	3	1	0	0	0	0	
	Other cases	6		19	13	5			3	9	5		11	
	Imported cases	9	13	23	17	79	106	142	76	64			128	
Viet Nam	Deaths	0			0	0	0	0	0	0	0		0	
	Suspected cases tested	98 937	92 798	125 048	130 068	129 902	137 760	100 607	94 499	101 726	107 008	100 678	94 617	1 313
	Confirmed cases	39	18	36	33	37	71	37	26	15	62	61	24	
	P. falciparum cases	19	10	22	20	12	19	12	8	7	23	33	20	
	P. vivax cases	19	8	14	13	25	52	25	18	8	37	28	4	
	Mixed cases	1				0			0	0	0		0	
						0			0	0			0	
	Other cases	0	0	U	U	0	0	0						

MONTHLY MALARIA CASES AND DEATHS BY COUNTRY IN 2021 (JAN-DEC)

¹ Mixed cases include cases identified with more than one *Plasmodium* species. Other cases refer to *P. malariae, P. ovale, P. knowlesi* and unknown 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 relapse cases in 19 border counties of Yunnan Province . No indigenous cases were reported in 2020.

⁵ Malaria deaths from Thailand are officially reported annually.

MONTHLY MALARIA CASES AND DEATHS BY COUNTRY IN 2022 (JAN–DEC)														
Country	Surveillance indicator ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	Deaths	0	0	0										0
	Suspected cases tested	67 383	71 600	77 900										216 883
	Confirmed cases	338	242	210										790
	P. falciparum cases	22	30	18										70
	P. vivax cases	314	210	189										713
	Mixed cases	0	0	1										1
	Other cases	2	2	2										6
	Imported cases	1	0											1
	Deaths	0	0	0										0
	Suspected cases tested	7 239	5 670											18 840
	Confirmed cases	2												11
	P. falciparum cases	0												0
China ³	P. vivax cases	2												11
	Mixed cases	0												0
	Other cases	0	0											0
	Imported cases	2												10
	Deaths	0												10
Ę		56 646												176 848
ocra	Suspected cases tested													
Lao People's Democratic Republic	Confirmed cases	231	131	161										523
ole's Den Republic	P. falciparum cases	34	22											84
aple Re	P. vivax cases	197	107	132										436
Pec	Mixed cases	0												3
Lao	Other cases	0												0
	Imported cases	0												0
	Deaths	1	1											2
	Suspected cases tested		150 929											467 883
Myanmar ⁴	Confirmed cases	5 690	4 673											15 569
yanı	P. falciparum cases	1 214	714	552										2 480
Σ	P. vivax cases	4 427	3 930	4 622										12 979
	Mixed cases	49	29											110
	Other cases	0	0	0										0
	Suspected cases tested	12 000	37 722	38 214			Data not a	avallables						118 742
þ												<u> </u>		
	Confirmed cases	303	225									<u> </u>		747
Thailand	P. falciparum cases	5	4											14
The	P. vivax cases	271	207									<u> </u>		667
	Mixed cases	0	0									<u> </u>		0
	Other cases	27	14											66
	Imported cases	117	74											264
	Deaths	0												0
Viet Nam	Suspected cases tested	70 290												247 957
	Confirmed cases	17	14											55
	P. falciparum cases	8												21
	P. vivax cases	9	7	17										33
	Mixed cases	0	0	0										0
	Other cases	0	1	0										1
	Imported cases	4	3	4										11

¹ Mixed cases include cases identified with more than one *Plasmodium* species. Other cases refer to *P. malariae, P. ovale, P. knowlesi* and unknown 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 relapse cases in 19 border counties of Yunnan Province. No indigenous cases were reported in 2021.

⁴ The monthly data for 2021 reported under Myanmar is not final and may be subject to change. Data on imported cases is currently not available for Myanmar

⁵ Malaria deaths from Thailand are officially reported annually.

NOTES

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

Disclaimer: 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 August 2022. The designations employed and the presentation of the material in this summary do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. WHO does not warrant that the information contained in this summary is complete and correct and shall not be liable for any damages incurred as a result of its use. This summary may not be reviewed, abstracted, quoted, reproduced, transmitted, distributed, translated or adapted, in part or in whole, in any form or by any means without the prior written consent of WHO.

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