

Regional bulletin for the availability of antimalarial medicines: Second Quarter 2013

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This bulletin is developed through a collaborative effort between the National Malaria Control Programs of the Region of the Americas, PAHO/WHO and SIAPS/USAID to facilitate sharing of information between countries in the Americas. The objectives of the bulletin are to increase awareness of stocks of antimalarial medicine, generate stock out alerts and promote exchanges and donations of antimalarial medicines between countries.

This bulletin is based on information provided by countries in South and Central America who participate in the Amazon Malaria Initiative (AMI) and are members of the Amazon Network for the Surveillance of Antimalarial Drug Resistance (RAVREDA). The bulletin offers information on the availability of medicines in central and regional medical stores that allow countries' decision makers to assure uninterrupted supply.

The following graphs detail the availability of antimalarial medicines for each country. Stock out is considered zero availability in the storerooms.

The indicator of months of availability is calculated by each country by dividing the availability of medicines by the average monthly consumption or distribution. The average consumption is found by dividing the distribution or consumption over the previous year by 12.

This second bulletin includes information from eleven countries, seven from South America and four from Central America. Eight countries sent central and regional level data.

Monitoring the availability of Antimalarial Drugs has helped exchange of medicines between countries. In this trimester, the Ministry of Health from Colombia donated antimalarial medicines to Belize and Guyana (see attached data) supported by AMI /RAVREDA and PAHO/WHO.

Donor Country	Receiver Country	Antimalarial Medicines
Colombia	Belize	Quinine Sulfate 300mg tablet
Colombia	Guyana	Artemether-Lumefantrine 20/120 mg X 24 tablet Primaquine phosphate 15 mg tablet Chloroquine phosphate 150 mg tablet Quinine Sulfate 300mg tablet



Availability of medicines for the second quarter, 2013

Medications			BELIZE				BOLIVIA				BRASIL			
			Central		Department		Central		Department		Central		Department	
			Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption
P. falciparum treatments	001	Artemether-Lumefantrine 20/120 mg X 6 tablet								0	0.00			
	002	Artemether-Lumefantrine 20/120 mg X 12 tablet								1,950	1.00			
	003	Artemether-Lumefantrine 20/120 mg X 18 tablet								450	0.20			
	004	Artemether-Lumefantrine 20/120 mg X 24 tablet	8	8.00	0	0.00				40,890	8.00			
	005	Artesunate 50 mg tablet												
	006	Artesunate 100 mg tablet												
	007	Artesunate 250 mg tablet												
	008	Artesunate+ SP (Children)												
	009	Artesunate+ SP (Adolescent)												
	010	Artesunate+ SP (Adults)												
	011	Artesunate-Mefloquine 25/55 mg x 3 tablet.												
	012	Artesunate-Mefloquine 25/55 mg x 6 tablet.					3,612	0.00	1,976	0.00	17,650	166.50		
	013	Artesunate-Mefloquine 100/220 mg x 3 tablet.									17,150	146.60		
	014	Artesunate+Mefloquine 100/220 mg x 6 tablet.									19,310	232.70		
	015	Mefloquine 250 mg tablet					780	0.00	852	4.63	32,040	72.70		
	016	Sulfadoxine-Pyrimethamine 25/500mg tablet							140					
P. vivax treatments	017	Chloroquine phosphate 150 mg tablet	62,670	6.30	12,000	2.24	38,570	1.50	40,426	8.09	2,444,500	5.40		
	018	Chloroquine phosphate 100 mg tablet	12,000		0	0.00								
	019	Primaquine phosphate 5 mg tablet	0	0.00	0		33,100	0.00	1,153	0.00	1,081,500	5.90		
	020	Primaquine phosphate 7.5 mg tablet	0	0.00	0									
	021	Primaquine phosphate 15 mg tablet	8,000	80.00	4,367	34.66	279,727	0.00	65,831	8.43	3,909,500	8.20		
Severe and Special Case malaria treatments	022	Artemether 80 mg/1 ml, 1 ml ampoules								54,156	11.30			
	023	Artesunate rectal 50 mg												
	024	Artesunate rectal 100 mg												
	025	Artesunate sodium bicarbonate 60 mg/1 ml ampoule									50,330	5.60		
	026	Clindamycin Hydrochloride 300 mg Capsule									6,368	0.90		
	027	Clindamycin Phosphate 150 mg/ mL x 4 mL injectable									500	0.00		
	028	Clindamycin Hydrochloride 150 mg Capsule												
	029	Clindamycin 75mg/5mL suspension												
	030	Doxycycline 100 mg Capsule									16,185	4.50		
	031	Quinine Hydrochloride 300 mg/ mL x 2 mL injectable									30,300	3.90		
	032	Quinine Hydrochloride 600 mg/ mL x 2 mL injectable												
	033	Quinine Dihydrochloride 125 mg/ mL x 4 mL injectable												
	034	Quinine Dihydrochloride 300 mg/ mL x 2 mL injectable					175	0.00						
	035	Quinine Dihydrochloride 600mg/ml x 2 mL injectable												
	036	Quinine Sulfate 300mg tablet									0	0.00		
	037	Quinine Sulfate 500 mg tablet												

Availability of medicines for the second quarter, 2013

Medications			COLOMBIA				ECUADOR				GUYANA			
			Central		Department		Central		Department		Central		Department	
			Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption
P. falciparum treatments	001	Artemether-Lumefantrine 20/120 mg X 6 tablet	0	0.00	1,740	9.94	0	0.00	734	1,129.23	0	0.00		
	002	Artemether-Lumefantrine 20/120 mg X 12 tablet	2,033	4.30	28,870	61.69	78	117.00	213	327.69	0	0.00		
	003	Artemether-Lumefantrine 20/120 mg X 18 tablet	0	0.00	5,243	13.91	57	85.50	1,500	2,307.69	0	0.00		
	004	Artemether-Lumefantrine 20/120 mg X 24 tablet	24,811	17.70	48,143	34.31	527	79.05	3,258	501.23	14,634	37.80		
	005	Artesunate 50 mg tablet												
	006	Artesunate 100 mg tablet												
	007	Artesunate 250 mg tablet												
	008	Artesunate+ SP (Children)												
	009	Artesunate+ SP (Adolescent)												
	010	Artesunate+ SP (Adults)												
	011	Artesunate-Mefloquine 25/55 mg x 3 tablet.												
	012	Artesunate-Mefloquine 25/55 mg x 6 tablet.												
	013	Artesunate-Mefloquine 100/220 mg x 3 tablet.												
	014	Artesunate+Mefloquine 100/220 mg x 6 tablet.												
	015	Mefloquine 250 mg tablet									29,028	17.40		
	016	Sulfadoxine-Pyrimethamine 25/500mg tablet												
P. vivax treatments	017	Chloroquine phosphate 150 mg tablet	992,930	22.20	648,163	14.48	15,944	40.03	19,360	49.85	512,000	17.10		
	018	Chloroquine phosphate 100 mg tablet												
	019	Primaquine phosphate 5 mg tablet	69,915	7.00	264,080	9.12								
	020	Primaquine phosphate 7.5 mg tablet					0	0.00	524	9.64	218,000	54.50		
	021	Primaquine phosphate 15 mg tablet	851,664	17.70	929,394	19.31	14,892	26.70	26,459	48.67				
Severe and Special Case malaria treatments	022	Artemether 80 mg/1 ml, 1 ml ampoules									1,614			
	023	Artesunate rectal 50 mg	9,793	195.90	674	84.25								
	024	Artesunate rectal 100 mg												
	025	Artesunate sodium bicarbonate 60 mg/1 ml ampoule	5,496	24.50	1,227	5.48	105	15.75	155	23.85				
	026	Clindamycin Hydrochloride 300 mg Capsule					70	10.50	268	41.23	2,400	7.50		
	027	Clindamycin Phosphate 150 mg/ mL x 4 mL injectable									966	9.70		
	028	Clindamycin Hydrochloride 150 mg Capsule												
	029	Clindamycin 75mg/5mL suspension												
	030	Doxycycline 100 mg Capsule												
	031	Quinine Hydrochloride 300 mg/ mL x 2 mL injectable	495	2.10	2,715	11.27								
	032	Quinine Hydrochloride 600 mg/ mL x 2 mL injectable					340	170.00	548	281.03	1,960	7.40		
	033	Quinine Dihydrochloride 125 mg/ mL x 4 mL injectable												
	034	Quinine Dihydrochloride 300 mg/ mL x 2 mL injectable												
	035	Quinine Dihydrochloride 600mg/ml x 2 mL injectable												
	036	Quinine Sulfate 300mg tablet	124,530	345.90	21,152	58.59	50	1.79	442	16.19	150,500	15.10		
	037	Quinine Sulfate 500 mg tablet												

Availability of medicines for the second quarter, 2013

Medications			HONDURAS				NICARAGUA				PANAMÁ			
			Central		Department		Central		Department		Central		Department	
			Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption
P. falciparum treatments	001	Artemether-Lumefantrine 20/120 mg X 6 tablet								180	7.50	0	0.00	
	002	Artemether-Lumefantrine 20/120 mg X 12 tablet								360	15.00	0	0.00	
	003	Artemether-Lumefantrine 20/120 mg X 18 tablet								540	22.50	0	0.00	
	004	Artemether-Lumefantrine 20/120 mg X 24 tablet								720	30.00	734	30.58	
	005	Artesunate 50 mg tablet												
	006	Artesunate 100 mg tablet												
	007	Artesunate 250 mg tablet												
	008	Artesunate+ SP (Children)												
	009	Artesunate+ SP (Adolescent)												
	010	Artesunate+ SP (Adults)												
	011	Artesunate-Mefloquine 25/55 mg x 3 tablet.												
	012	Artesunate-Mefloquine 25/55 mg x 6 tablet.												
	013	Artesunate-Mefloquine 100/220 mg x 3 tablet.												
	014	Artesunate+Mefloquine 100/220 mg x 6 tablet.												
	015	Mefloquine 250 mg tablet												
	016	Sulfadoxine-Pyrimethamine 25/500mg tablet	0	0.00	0	0.00					9,000			
P. vivax treatments	017	Chloroquine phosphate 150 mg tablet	1,115,300	15.13	516,805	6.02	2,867,810	27.80	1,183,870	7.17	222,000	5.70	34,810	14.18
	018	Chloroquine phosphate 100 mg tablet												
	019	Primaquine phosphate 5 mg tablet	344,800	9.72	684,425	16.50	1,421,639	21.30	384,326	3.30	20,000	2.00	0	0.00
	020	Primaquine phosphate 7.5 mg tablet												
	021	Primaquine phosphate 15 mg tablet	798,980	18.70	269,484	5.69	1,332,506	20.00	372,344	2.60	473,000	6.90	52,920	15.12
Severe and Special Case malaria treatments	022	Artemether 80 mg/1 ml, 1 ml ampoules												
	023	Artesunate rectal 50 mg												
	024	Artesunate rectal 100 mg												
	025	Artesunate sodium bicarbonate 60 mg/1 ml ampoule												
	026	Clindamycin Hydrochloride 300 mg Capsule												
	027	Clindamycin Phosphate 150 mg/ mL x 4 mL injectable												
	028	Clindamycin Hydrochloride 150 mg Capsule												
	029	Clindamycin 75mg/5mL suspension												
	030	Doxycycline 100 mg Capsule												
	031	Quinine Hydrochloride 300 mg/ mL x 2 mL injectable												
	032	Quinine Hydrochloride 600 mg/ mL x 2 mL injectable					1,559	31.20	0	0.00				
033	Quinine Dihydrochloride 125 mg/ mL x 4 mL injectable													
034	Quinine Dihydrochloride 300 mg/ mL x 2 mL injectable	0		0	0.00									
035	Quinine Dihydrochloride 600mg/ml x 2 mL injectable													
036	Quinine Sulfate 300mg tablet	0		0	0.00	1,080	0.00	0	0.00					
037	Quinine Sulfate 500 mg tablet													

Availability of medicines for the second quarter, 2013

Medications			PERÚ				SURINAME			
			Central		Department		Central		Department	
			Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption	Units of medications available	Months of availability according to distribution/consumption
P. falciparum treatments	001	Artemether-Lumefantrine 20/120 mg X 6 tablet					180	180.00		
	002	Artemether-Lumefantrine 20/120 mg X 12 tablet					360	180.00		
	003	Artemether-Lumefantrine 20/120 mg X 18 tablet					594	99.00		
	004	Artemether-Lumefantrine 20/120 mg X 24 tablet					1,464	3.90		
	005	Artesunate 50 mg tablet	88,185	265.62	49,674	149.62				
	006	Artesunate 100 mg tablet					36	6.40		
	007	Artesunate 250 mg tablet	32,400	32.63	30,838	31.06				
	008	Artesunate+ SP (Children)								
	009	Artesunate+ SP (Adolescent)								
	010	Artesunate+ SP (Adults)								
	011	Artesunate-Mefloquine 25/55 mg x 3 tablet.								
	012	Artesunate-Mefloquine 25/55 mg x 6 tablet.								
	013	Artesunate-Mefloquine 100/220 mg x 3 tablet.								
	014	Artesunate+Mefloquine 100/220 mg x 6 tablet.								
	015	Mefloquine 250 mg tablet	22,599	11.38	91,121	45.90	24	9.60		
	016	Sulfadoxine-Pyrimethamine 25/500mg tablet								
P. vivax treatments	017	Chloroquine phosphate 150 mg tablet	215,000	9.33	507,539	22.02	1,250	5.90		
	018	Chloroquine phosphate 100 mg tablet								
	019	Primaquine phosphate 5 mg tablet					242,940	26,029.00		
	020	Primaquine phosphate 7.5 mg tablet	0	0.00	0	0.00				
	021	Primaquine phosphate 15 mg tablet	7,000	0.22	341,156	10.57	500	1.50		
Severe and Special Case malaria treatments	022	Artemether 80 mg/1 ml, 1 ml ampoules					0	0.00		
	023	Artesunate rectal 50 mg								
	024	Artesunate rectal 100 mg								
	025	Artesunate sodium bicarbonate 60 mg/1 ml ampoule	1,400				1	0.10		
	026	Clindamycin Hydrochloride 300 mg Capsule								
	027	Clindamycin Phosphate 150 mg/ mL x 4 mL injectable								
	028	Clindamycin Hydrochloride 150 mg Capsule								
	029	Clindamycin 75mg/5mL suspension								
	030	Doxycycline 100 mg Capsule					40,000	3,809.50		
	031	Quinine Hydrochloride 300 mg/ mL x 2 mL injectable					1,234	82.30		
	032	Quinine Hydrochloride 600 mg/ mL x 2 mL injectable								
	033	Quinine Dihydrochloride 125 mg/ mL x 4 mL injectable								
	034	Quinine Dihydrochloride 300 mg/ mL x 2 mL injectable	0	0.00	238	4.33				
	035	Quinine Dihydrochloride 600mg/ml x 2 mL injectable								
	036	Quinine Sulfate 300mg tablet	0	0.00	4,414	23.60				
	037	Quinine Sulfate 500 mg tablet								

Source: Consolidated National Report from Countries

Indicators reported for the second quarter, 2013

INDICATORS	Belize		Bolivia		Brasil		Colombia		Ecuador		Guyana		Honduras		Nicaragua		Panamá		Perú		Suriname	
	Central	Depart	Central	Depart	Central	Depart	Central	Depart	Central	Depart	Central	Depart	Central	Depart	Central	Depart	Central	Depart	Central	Depart	Central	Depart
No. of department warehouses that report medication availability data.		7		10		ND		23		11		ND		20		18		14		33		ND
% of regional stores that report stockout in one or more antimalarials required by the Standard Treatment Guidelines (STG).		100%		0%		ND		96%		100%		ND		100%		0%		7%		83%		ND
Number of medicines required in the Standard Treatment Guidelines (STG)	4	4	5	5	18	ND	11	11	11	11	18	ND	6	6	5	5	7	7	8	8	12	ND
Number of STG medicines that are available.	3	2	1	3	16	ND	9	11	9	11	8	ND	3	3	4	3	7	3	5	7	11	ND
% of STG medications available	75%	50%	20%	60%	89%	ND	82%	100%	82%	100%	44%	ND	50%	50%	80%	60%	100%	43%	63%	88%	92%	ND
% of STG medications not available	25%	50%	80%	40%	11%	ND	18%	0%	18%	0%	56%	ND	50%	50%	20%	40%	0%	57%	37%	12%	8%	ND
% of STG medications with availability less than the minimum security stock (3 months)	0%	25%	20%	0%	22%	ND	9%	0%	27%	0%	56%	ND	0%	0%	0%	20%	14%	0%	50%	13%	17%	ND
% of STG medications which are overstocked (more than 24 months of availability)	25%	25%	0%	0%	22%	ND	27%	36%	55%	73%	11%	ND	0%	0%	40%	0%	14%	14%	25%	38%	42%	ND

Source: Consolidated National Report from Countries

This bulletin was elaborated within the framework of AMI/RAVREDA with assistance from PAHO/WHO, specifically the Medicines and Health Technologies (HSS/MT) unit and the Regional Malaria Program (CHA/TV) and the USAID funded program Systems for Improved Access to Pharmaceuticals and Services (SIAPS). Data for the report was sent by the National Malaria Control Programs of the participating countries. The consolidation and editing of the bulletin was completed by the regional team of the PAHO/WHO Strategic Fund, which utilized the previous format developed by DIGEMID and SIAPS/USAID as a reference

