

Appendix 1: Summary of top 20 Category A medicines by therapeutic category by facility in 21 hospitals.

S.No	Facility & Therapeutic Category	Count of Top 20 Medicines	% of Top 20 Medicines	Sum of value of medicine (in GHS)
1	CHAG ABC STUDY HOSPITAL A	20	52.7	1,081,126.51
	Infusion	5	19.5	400,060.25
	Antibiotic	4	12.11	248,483.50
	Analgesic/Antipyretic	3	6.08	124,734.17
	Anesthetic	1	4.94	101,304.00
	Antimalarial	2	2.55	52,270.90
	Antifungal	1	2.32	47,520.00
	Vitamin/Supplements	1	1.43	29,414.40
	Antihypertensive	1	1.39	28,503.05
	Antidiabetic	1	1.24	25,393.74
	Hormonal Preparation	1	1.14	23,442.50
2	CHAG ABC STUDY HOSPITAL B	20	51.88	579,377.95
	Antibiotic	9	28.59	319,289.55
	Infusion	4	10.77	120,298.00
	Antimalarial	4	6.28	70,093.60
	Antiasthmatic	1	3.25	36,264.80
	Stimulant	1	1.56	17,424.00
	Antidiabetic	1	1.43	16,008.00
3	CHAG ABC STUDY HOSPITAL C	20	56.44	654,882.21
	Antibiotic	9	26.08	302,625.61
	Infusion	3	9.07	105,229.20
	Antihypertensive	3	8.17	94,846.80
	Antimalarial	2	6.53	75,800.00
	Analgesic/Antipyretic	2	4.1	47,580.60
	Proton Pump Inhibitor	1	2.48	28,800.00
4	CHAG ABC STUDY HOSPITAL D	20	63.91	304,381.23
	Antibiotic	11	35.61	169,605.78
	Antimalarial	3	12.76	60,781.85
	Haematinic	1	4.15	19,757.40
	Infusion	2	3.53	16,812.00
	Smooth Muscle Relaxant	1	3.14	14,960.00

**Correspondence to:** Daniel Kojo Arhinful, Department of Epidemiology, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana, E-mail: darhinful@noguchi.ug.edu.gh

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	Antihypertensive	1	2.54	12,091.60
	Analgesic/Antipyretic	1	2.18	10,372.60
5	<b>CHAG ABC STUDY HOSPITAL E</b>	20	41.11	674,699.20
	Antibiotic	6	14.39	236,120.00
	Vitamin/Supplements	3	6.26	102,712.00
	Infusion	2	4.56	74,800.00
	Antimalarial	2	3.89	63,800.00
	Analgesic/Antipyretic	2	3.44	56,467.20
	Antihypertensive	2	2.97	48,800.00
	Hormonal Preparation	1	2.34	38,400.00
	Stimulant	1	1.83	30,000.00
	Smooth Muscle Relaxant	1	1.44	23,600.00
6	<b>CHAG ABC STUDY HOSPITAL F</b>	20	70.24	1,486,656.00
	Antibiotic	7	46.65	987,360.00
	Antimalarial	3	7.60	160,800.00
	Antihypertensive	2	4.50	95,200.00
	Analgesic/Antipyretic	2	3.67	77,600.00
	Infusion	2	3.22	68,096.00
	Proton Pump Inhibitor	2	2.17	46,000.00
	Haematinic	1	1.23	26,000.00
	Antidiabetic	1	1.21%	25,600.00
7	<b>CHAG ABC STUDY HOSPITAL G</b>	20	54.49	243,817.95
	Antibiotic	9	26.45	118,359.46
	Infusion	4	9.53	42,628.90
	Antimalarial	1	5.73	25,632.00
	Analgesic/Antipyretic	2	4.47	20,011.41
	Antihypertensive	1	2.92	13,087.48
	Mucolytic	1	2.13	9,513.60
	Hormonal Preparation	1	1.81	8,100.30
	Antidiabetic	1	1.45	6,484.80
8	<b>CHAG ABC STUDY HOSPITAL H</b>	20	63.52	342,481.93
	Antibiotic	10	32.24	173,849.68
	Antihypertensive	2	11.78	63,501.49
	Infusion	3	7.05	38,009.20
	Mucolytic	1	2.99	16,128.00
	Antimotility	1	2.60	14,039.50
	Antimalarial	1	2.53	13,662.00
	Antidiabetic	1	2.48	13,347.06
	Opioid Analgesic	1	1.84	9,945.00
9	<b>CHAG ABC STUDY HOSPITAL J</b>	20	47.40	744,181.24
	Antibiotic	6	16.95	266,067.92
	Antihypertensive	4	10.00	157,005.52
	Infusion	3	6.54	102,624.00
	Ophthalmic Solution	3	6.16	96,683.00

	Antidiabetic	2	4.76	74,800.80
	Antimalarial	1	1.54	24,200.00
	Analgesic/Antipyretic	1	1.45	22,800.00
10	<b>CHAG ABC STUDY HOSPITAL K</b>	20	66.23	384,008.36
	Antibiotic	9	44.48	257,900.00
	Antimalarial	3	5.7	33,030.56
	Infusion	3	5.56	32,248.80
	Analgesic/Antipyretic	2	3.77	21,834.00
	Antihypertensive	2	3.54	20,515.00
	Haematinic	1	3.19	18,480.00
11	<b>CHAG ABC STUDY HOSPITAL M</b>	20	53.28	1,769,701.04
	Antibiotic	7	21.16	702,994.00
	Antihypertensive	6	20.38	677,060.32
	Anesthetic	2	3.64	120,766.72
	Infusion	1	2.13	70,840.00
	Proton Pump Inhibitor	1	1.74	57,760.00
	Vitamin/Supplements	1	1.64	54,400.00
	Analgesic/Antipyretic	1	1.32	44,000.00
	Antidiabetic	1	1.26	41,880.00
12	<b>CHAG ABC STUDY HOSPITAL N</b>	20	64.27	113,205.82
	Antibiotic	7	30.99	54,588.92
	Analgesic/Antipyretic	3	7.36	12,966.00
	Infusion	3	6.12	10,780.00
	Ophthalmic Solution	2	6.09	10,728.00
	Antidiabetic	1	5.86	10,328.40
	Mucolytic	1	2.41	4,246.00
	Anthelmintic	1	1.82	3,208.50
	Antimotility	1	1.82	3,200.00
	Antimalarial	1	1.79	3,160.00
13	<b>CHAG ABC STUDY HOSPITAL P</b>	20	71.94	1,163,153.48
	Antibiotic	6	43.78	707,817.13
	Infusion	3	10.74	173,684.67
	Antihypertensive	4	7.36	119,015.80
	Analgesic/Antipyretic	4	4.97	80,354.70
	Antimalarial	2	3.59	57,998.98
	Proton Pump Inhibitor	1	1.50	24,282.20
14	<b>CHAG ABC STUDY HOSPITAL Q</b>	20	64.47	907,439.33
	Antibiotic	5	28.38	399,468.37
	Antihypertensive	4	12.08	170,049.99
	Antimalarial	3	7.71	108,467.95
	Infusion	3	6.41	90,192.88
	Analgesic/Antipyretic	2	4.53	63,812.75
	Antidiabetic	1	2.06	29,039.60
	Haematinic	1	1.92	26,974.94

	Proton Pump Inhibitor	1	1.38	19,432.85
15	<b>CHAG ABC STUDY HOSPITAL R</b>	20	66.64	1,478,025.47
	Antibiotic	11	29.39	651,748.59
	Antihypertensive	6	25.84	573,035.96
	Antidiabetic	2	8.61	190,869.84
	Haematinic	1	2.81	62,371.08
16	<b>CHAG ABC STUDY HOSPITAL S</b>	20	61.41	1,256,000.82
	Antihypertensive	1	24.15	493,981.36
	Antibiotic	9	18.91	386,752.40
	Antimalarial	3	5.83	119,290.80
	Infusion	3	5.11	104,594.00
	Proton Pump Inhibitor	1	2.62	53,513.46
	Antacid	1	1.76	36,025.80
	Antidiabetic	1	1.55	31,750.00
	Analgesic/Antipyretic	1	1.47	30,093.00
17	<b>CHAG ABC STUDY HOSPITAL T</b>	20	47.27	763,739.62
	Antibiotic	8	16	258,570.18
	Antimalarial	4	11.68	188,679.60
	Antihypertensive	3	6.51	105,124.84
	Anesthetic	1	4.1	66,165.00
	Topical Preparation	1	2.95	47,600.00
	Otic Preparation	1	2.76	44,640.00
	Antifungal	1	1.83	29,520.00
	Infusion	1	1.45	23,440.00
18	<b>CHAG ABC STUDY HOSPITAL U</b>	20	72.00	1,207,138.21
	Antibiotic	8	31.18	522,762.40
	Antimalarial	2	25.33	424,690.95
	Anthelmintic	1	4.02	67,392.00
	Antihypertensive	3	3.88	65,063.26
	Smooth Muscle Relaxant	1	2.40	40,260.00
	Analgesic/Antipyretic	2	2.00	33,528.80
	Antidiabetic	1	1.15	19,341.00
	Hormonal Preparation	1	1.04	17,434.80
	Infusion	1	0.99	16,665.00
19	<b>CHAG ABC STUDY HOSPITAL V</b>	20	47.22	1,405,982.22
	Antibiotic	7	18.75	558,404.85
	Antihypertensive	3	9.32	277,422.26
	Infusion	3	5.06	150,736.90
	Antimalarial	2	4.5	134,024.70
	Laxative	1	3.76	112,087.50
	Smooth Muscle Relaxant	1	1.84	54,883.05
	Antacid	1	1.34	39,907.08
	Mucolytic	1	1.34	39,890.88
	Antidiabetic	1	1.3	38,625.00

20	<b>CHAG ABC STUDY HOSPITAL W</b>	20	74.16	171,909.29
	Antimalarial	4	42.34	98,141.23
	Antibiotic	7	14.4	33,376.01
	Analgesic/Antipyretic	2	6.85	15,885.09
	Infusion	3	4.45	10,316.68
	Antihypertensive	2	3.59	8,324.28
	Mucolytic	2	2.53	5,866.00
21	<b>CHAG ABC STUDY HOSPITAL X</b>	20	59.26	476,038.49
	Antibiotic	9	32.66	262,340.83
	Antihypertensive	3	8.15	65,457.63
	Antimalarial	3	7.28	58,503.39
	Infusion	3	6.43	51,649.76
	Antidiabetic	1	2.55	20,480.75
	Haematinic	1	2.19	17,606.12

**Appendix 2:** Summary of top 20 Category A medicines by therapeutic category by facility in 10 clinics.

F.No	Facility & Therapeutic Category	Count of Top 20 Medicines	% of Top 20 Medicines	Sum of Value of Medicine (in GHS)
1	<b>CHAG ABC STUDY CLINIC A</b>	20	90.66	916,968.00
	Antibiotic	9	66.24	670,017.60
	Antimalarial	3	6.44	65,160.00
	Analgesic/Antipyretic	1	5.69	57,600.00
	Infusion	1	5.13	51,840.00
	Antihypertensive	2	2.83	28,651.20
	Anthelmintic	1	1.85	18,720.00
	Vitamin/Supplements	1	1.42	14,400.00
	Antidiarrhoea	1	0.58	5,856.00
	Haematinic	1	0.47	4,723.20
2	<b>CHAG ABC STUDY CLINIC B</b>	20	67.42	110,737.07
	Antibiotic	7	25.62	42,082.52
	Antimalarial	5	21.46	35,241.55
	Infusion	4	11.02	18,106.80
	Haematinic	1	2.67	4,387.20
	Analgesic/Antipyretic	1	2.59	4,251.00
	Smooth Muscle Relaxant	1	2.28	3,743.00
	Vitamin/Supplements	1	1.78	2,925.00
3	<b>CHAG ABC STUDY CLINIC C</b>	20	68.20	42,637.55
	Antimalarial	5	28.45	17,783.65
	Antibiotic	7	19.48	12,179.91
	Analgesic/Antipyretic	2	9.64	6,028.53
	Infusion	2	3.30	2,060.49

	Antihypertensive	1	2.13	1,330.55
	Nasal decongestant	1	1.90	1,188.00
	Antitusive/Cough Suppressant	1	1.70	1,063.92
	Mucolytic	1	1.60	1,002.50
4	<b>CHAG ABC STUDY CLINIC D</b>	20	86.84	97,844.58
	Antimalarial	6	42.4	47,778.08
	Anthelmintic	2	18.46	20,800.00
	Antibiotic	5	9.22	10,390.00
	Analgesic/Antipyretic	2	6.23	7,024.00
	Mucolytic	2	4.38	4,939.50
	Antacid	1	2.93	3,298.00
	Infusion	1	2.0	2,250.00
	Haematinic	1	1.21	1,365.00
5	<b>CHAG ABC STUDY CLINIC E</b>	20	66.74	464,935.00
	Antibiotic	8	25.51	177,710.00
	Antimalarial	3	12.17	84,750.00
	Analgesic/Antipyretic	2	10.58	73,700.00
	Antitusive/Cough Suppressant	2	6.72	46,800.00
	Haematinic	1	3.79	26,400.00
	Antacid	1	2.31	16,125.00
	Smooth Muscle Relaxant	1	1.97	13,750.00
	Antifungal	1	1.89	13,200.00
	Ophthalmic Solution	1	1.79	12,500.00
6	<b>CHAG ABC STUDY CLINIC F</b>	20	66.56	74,129.34
	Antibiotic	8	26.52	29,535.58
	Antihistamine	1	15.15	16,872.00
	Antimalarial	3	8.08	8,996.90
	Analgesic/Antipyretic	3	5.85	6,518.36
	Vitamin/Supplements	2	3.46	3,854.00
	Anthelmintic	1	2.74	3,053.00
	Smooth Muscle Relaxant	1	2.71	3,017.10
	Infusion	1	2.05	2,282.40
7	<b>CHAG ABC STUDY CLINIC G</b>	20	68.04	7,589.17
	Antibiotic	5	18.19	2,029.21
	Antimalarial	2	13.61	1,517.73
	Analgesic/Antipyretic	4	11.14	1,242.66
	Antihypertensive	2	10.78	1,202.44
	Infusion	3	7.06	787.5

	Antitusive/Cough Suppressant	1	2.88	321
	Haematinic	1	1.70	190
	Hormonal Preparation	1	1.36	152
	Antidiabetic	1	1.31	146.64
8	<b>CHAG ABC STUDY CLINIC H</b>	20	52.41	61,658.44
	Antibiotic	7	20.68	24,326.00
	Antihypertensive	3	8.40	9,883.00
	Analgesic/Antipyretic	3	7.96	9,364.00
	Haematinic	2	4.09	4,813.44
	Antidiabetic	1	2.82	3,321.60
	Antimalarial	1	2.52	2,970.00
	Vitamin/Supplements	1	2.13	2,500.00
	Antitusive/Cough Suppressant	1	2.11	2,480.40
	Ophthalmic Solution	1	1.70	2,000.00
9	<b>CHAG ABC STUDY CLINIC J</b>	20	85.15	54,890.07
	Analgesic/Antipyretic	4	21.35	13,764.32
	Antibiotic	6	14.11	9,096.61
	Antimalarial	1	11.52	7,427.16
	Anthelmintic	1	10.1	6,510.00
	Mucolytic	2	9.56	6,160.80
	Vitamin/Supplements	1	5.83	3,759.80
	Haematinic	1	4.61	2,974.50
	Infusion	2	4.37	2,820.00
	Antihypertensive	1	2.03	1,307.28
	Antitusive/Cough Suppressant	1	1.66	1,069.60
10	<b>CHAG ABC STUDY CLINIC K</b>	20	67.68	73,965.45
	Antibiotic	8	25.63	28,008.55
	Antimalarial	1	14.55	15,900.00
	Infusion	4	12.96	14,168.00
	Analgesic/Antipyretic	3	5.44	5,940.40
	Antihypertensive	2	4.69	5,123.00
	Proton Pump Inhibitor	1	2.62	2,868.00
	Antidiabetic	1	1.79	1,957.50