

<b>Web Appendix A1: Survey sample breakdown: Number of private for-profit outlets enumerated and number stocking antimalarials at baseline and endline</b>						
<b>Country</b>	<b>Selected clusters</b>	<b>Outlets enumerated<sup>1</sup></b>	<b>Outlets screened</b>	<b>Eligible outlets<sup>2</sup></b>	<b>Outlets interviewed</b>	<b>Outlets stocking antimalarials at the time of the survey visit</b>
<b>Ghana</b>						
<i>Baseline</i>	55	1,009	960	942	930	924
<i>Endline</i>	54	752	681	658	652	646
<b>Kenya</b>						
<i>Baseline</i>	57	16,356	12,091	2,110	2,069	1,457
<i>Endline</i>	57	12,512	10,539	1,627	1,603	1,378
<b>Madagascar</b>						
<i>Baseline</i>	38	6,380	6,005	2,064	2,037	1,854
<i>Endline</i>	46	9,116	8,559	2,081	2,035	1,641
<b>Niger</b>						
<i>Baseline</i>	75	3,104	3,098	1,915	1,858	1,548
<i>Endline</i>	64	3,102	2,922	1,703	1,687	1,337
<b>Nigeria<sup>3</sup></b>						
<i>Baseline</i>	114	5,713	5,171	1,941	1,937	1,864
<i>Endline</i>	124	8,345	7,804	1,445	1,440	1,393
<b>Tanzania mainland</b>						
<i>Baseline</i>	48	3,042	3,015	612	569	545
<i>Endline</i>	49	3,708	3,635	734	733	726
<b>Uganda</b>						
<i>Baseline</i>	39	9,692	9,525	1,733	1,665	1,590
<i>Endline</i>	44	14,734	14,451	2,453	2,397	2,335
<b>Zanzibar</b>						
<i>Baseline</i>	-	2,100	2,076	177	176	171
<i>Endline</i>	-	4,134	4,057	227	227	216

<sup>1</sup>Outlets where at a minimum basic descriptive information was collected.

<sup>2</sup>Eligible outlets were outlets that had antimalarials in stock on the day of the survey or had stocked antimalarials in the past three months.

<sup>3</sup>Nigeria baseline data collection conducted in 2009.

**Web Appendix Exhibit A2: Median price per adult equivalent treatment dose (AETD) of antimalarial treatments in private for-profit outlets at baseline and endline in urban and rural areas (2010 US\$ equivalent)**

	BASELINE						ENDLINE						CHANGE IN MEDIAN		
	Urban		Rural		Total		Urban		Rural		Total		Urban	Rural	Total
	Median cost [IQR]	No. of Products	Median cost [IQR]	No. of products	Median cost [IQR]	No. of products	Median cost [IQR]	No. of products	Median cost [IQR]	No. of products	Median cost [IQR]	No. of products	Change in median [p-value]	Change in median [p-value]	Change in median [p-value]
<b>Ghana</b>															
nAT	0.41[0.34-1.71]	1187	0.34[0.34-0.48]	654	0.34[0.34-0.68]	1841	0.31[0.31-0.63]	648	0.31[0.31-0.38]	147	0.31[0.31-0.63]	795	-0.10[<0.0001]	-0.03[<0.0001]	-0.03[0.0022]
AMT	2.40[2.05-3.29]	463	2.40[2.05-3.29]	205	2.40[2.05-3.29]	668	1.88[1.88-2.19]	223	1.88[1.56-2.19]	39	1.88[1.88-2.19]	262	-0.52[<0.0001]	-0.52[<0.0001]	-0.52[<0.0001]
nQAACT	3.42[3.08-4.11]	2341	3.42[2.74-3.85]	798	3.42[2.74-4.11]	3139	3.13[2.63-3.44]	1059	2.82[1.88-3.13]	140	3.13[2.50-3.17]	1199	-0.29[<0.0001]	-0.60[<0.0001]	-0.29[<0.0001]
QAACT	7.53[3.08-8.22]	602	2.74[1.71-4.11]	130	3.42[2.05-8.22]	732	1.25[0.94-2.00]	1394	0.94[0.94-1.88]	243	1.13[0.94-1.88]	1637	-6.28[<0.0001]	-1.80[<0.0001]	-2.29[<0.0001]
<b>Kenya</b>															
nAT	0.83[0.39-1.77]	962	0.66[0.39-0.98]	711	0.66[0.39-1.18]	1673	0.86[0.52-1.73]	858	0.58[0.35-1.04]	474	0.58[0.40-1.15]	1332	0.03[0.8249]	-0.08[0.2458]	-0.08[0.4414]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	5.64[4.20-8.53]	1259	4.73[3.54-6.65]	182	5.25[3.94-7.88]	1441	4.60[3.45-6.91]	1149	4.37[2.88-5.76]	157	4.60[3.45-6.16]	1306	-1.04[0.0030]	-0.36[0.1769]	-0.65[0.0003]
QAACT	3.94[1.31-6.96]	616	2.36[1.31-3.94]	126	2.63[1.31-6.30]	742	0.61[0.46-1.15]	1562	0.46[0.46-0.92]	422	0.58[0.46-0.92]	1984	-3.33[<0.0001]	-1.9[0.0003]	-2.05[<0.0001]
<b>Madagascar</b>															
nAT	0.35[0.32-0.35]	1676	0.35[0.35-0.35]	724	0.35[0.35-0.35]	2400	0.32[0.32-0.38]	1076	0.32[0.32-0.32]	1013	0.32[0.32-0.32]	2089	-0.03[0.0004]	-0.03[<0.0001]	-0.03[<0.0001]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QAACT	0.56[0.09-9.55]	243	0.09[0.09-0.28]	137	0.14[0.09-1.53]	380	0.68[0.38-5.98]	560	0.51[0.34-1.03]	497	0.60[0.34-1.37]	1057	0.12[0.5423]	0.42[<0.0001]	0.46[0.0009]
<b>Niger</b>															
nAT	0.31[0.30-0.50]	1349	0.31[0.31-0.39]	905	0.31[0.31-0.41]	2254	0.48[0.36-0.60]	1166	0.50[0.40-0.60]	463	0.48[0.37-0.60]	1629	0.17[<0.0001]	-0.81[<0.0001]	0.17[<0.0001]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	9.04[7.77-11.43]	925	-	-	9.01[7.51-11.43]	950	7.23[2.38-9.05]	846	-	-	4.95[1.19-8.53]	867	-1.81[<0.0001]	-	-4.06[<0.0001]
QAACT	3.29[2.06-8.93]	302	2.47[2.06-2.96]	52	2.47[2.06-4.11]	354	1.39[0.99-2.38]	526	1.19[0.79-1.59]	63	1.19[0.99-1.98]	589	-1.90[<0.0001]	-1.28[<0.0001]	-1.28[<0.0001]
<b>Nigeria</b>															
nAT	0.60[0.45-1.12]	4995	0.52[0.36-0.89]	806	0.60[0.45-1.12]	5801	0.47[0.30-0.77]	2899	0.47[0.35-0.89]	1206	0.47[0.30-0.83]	4105	-0.13[<0.0001]	-0.05[0.5434]	-0.13[<0.0001]
AMT	3.57[2.98-4.17]	1308	3.57[2.38-4.17]	130	3.57[2.98-4.17]	1438	2.65[2.27-2.83]	509	2.83[2.36-3.31]	155	2.66[2.36-2.83]	664	-0.92[<0.0001]	-0.74[0.0027]	-0.91[<0.0001]
nQAACT	4.47[3.35-5.58]	2921	4.09[3.72-4.84]	74	4.47[3.35-5.58]	2995	3.54[2.66-4.13]	863	3.54[2.36-4.43]	181	3.54[2.66-4.13]	1044	-0.93[0.0002]	-0.55[0.0126]	-0.93[<0.0001]
QAACT	4.47[2.38-6.70]	900	2.98[2.23-5.21]	101	4.47[2.38-6.33]	1001	1.48[0.89-2.66]	1378	1.65[0.94-2.36]	516	1.48[0.89-2.66]	1894	-2.99[<0.0001]	-1.33[<0.0001]	-2.99[<0.0001]
<b>Tanzania – mainland</b>															
nAT	1.06[0.70-1.27]	1521	0.7[0.49-1.06]	526	0.85[0.63-1.19]	2047	0.94[0.70-1.41]	2401	0.75[0.56-0.94]	402	0.94[0.62-1.25]	2803	-0.06[0.6108]	0.05[0.8905]	0.09[0.8803]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	8.45[6.34-13.52]	1065	6.81[3.52-9.16]	71	8.32[6.18-13.52]	1136	7.50[3.75-12.66]	1718	6.25[3.12-14.40]	95	6.56[3.44-12.66]	1813	-0.95[0.0043]	-0.56[0.6759]	-1.76[0.0145]
QAACT	7.04[5.63-9.86]	259	1.41[0.85-2.11]	27	5.28[1.41-8.45]	286	1.25[0.75-2.50]	1633	0.87[0.62-1.25]	218	0.94[0.62-1.25]	1851	-5.75[<0.0001]	-0.54[0.0778]	-4.34[<0.0001]
<b>Uganda</b>															
nAT	1.16[0.70-3.22]	1021	1.61[0.70-3.22]	1751	1.39[0.70-3.22]	2772	1.17[0.70-4.07]	2252	1.64[0.59-4.11]	1624	1.17[0.59-4.11]	3876	0.01[0.8258]	0.03[0.7969]	-0.22[0.9323]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	4.64[3.25-6.97]	1508	3.34[2.79-4.64]	1086	3.72[2.79-5.57]	2594	3.91[2.82-5.87]	2227	3.13[2.35-4.69]	871	3.91[2.74-5.87]	3098	-0.73[0.2425]	-0.21[0.7644]	0.19[0.5098]
QAACT	4.64[3.25-8.36]	367	2.32[1.39-3.25]	216	2.79[1.39-3.72]	583	1.96[1.37-3.13]	2101	1.96[1.17-2.74]	1190	1.96[1.17-2.82]	3291	-2.68[0.0011]	-0.36[0.8261]	-0.76[0.2647]
<b>Zanzibar</b>															
nAT	0.95[0.63-1.27]	110	0.70[0.56-1.27]	33	0.95[0.63-1.27]	143	0.87[0.58-2.45]	66	0.58[0.53-1.75]	18	0.87[0.53-2.45]	84	-0.08	-0.12	-0.08
AMT	6.76[5.63-6.76]	47	5.63[5.07-5.63]	5	6.76[5.63-6.76]	52	7.46[7.46-7.46]	2	4.66	1	7.46[4.66-7.46]	3	0.70	-0.97	0.70
nQAACT	7.75[4.23-9.51]	115	3.87[2.99-7.33]	8	7.53[4.23-9.51]	123	5.83[2.92-10.17]	116	3.50[2.92-5.83]	7	5.83[2.92-9.84]	123	-1.92	-0.37	-1.71
QAACT	6.34[4.23-8.45]	15	5.63	1	5.99[4.23-8.45]	16	1.17[0.58-2.33]	387	0.93[0.58-1.87]	100	1.17[0.58-2.33]	487	-5.17	-4.70	-4.82

**Notes:** nAT= non-artemisinin therapies. AMT=artemisinin monotherapies. nQAACT=non-quality-assured artemisinin-based combination therapy. QAACT=quality-assured artemisinin-based combination therapy. IQR = Interquartile range. Data are not shown for a particular antimalarial category if N<50, except for Zanzibar. P-values are not presented for Zanzibar because a complete census of outlets was done.

**Web Appendix Exhibit A3: Median percentage markup between retail purchase price and selling price of antimalarial treatments in private for-profit outlets at baseline and endline**

	BASELINE						ENDLINE						CHANGE IN MEDIAN		
	Urban		Rural		Total		Urban		Rural		Total		Urban	Rural	Total
	Median % markup[IQR]	No of Products	Median % markup[IQR]	No. of products	Median % markup[IQR]	No. of products	Median % markup [IQR]	No. of products	Median % markup [IQR]	No. of products	Median % markup [IQR]	No. of products	Change in median [p-value <sup>*</sup> ]	Change in median [p-value <sup>*</sup> ]	Change in median [p-value <sup>*</sup> ]
<b>Ghana</b>															
nAT	56.3[33.3-66.7]	474	53.8[33.3-66.7]	405	53.8[33.3-66.7]	879	58.7[33.3-66.7]	241	60.0[25.0-66.7]	90	60.0[33.3-66.7]	331	2.5[0.6561]	6.2[0.8178]	6.2[0.7295]
AMT	33.3[20.0-36.4]	165	25.0[20.0-36.4]	124	25.0[20.0-36.4]	289	25.0[16.7-38.9]	89	-	-	25.0[16.7-36.4]	112	-8.3[0.0946]	-	0.0[0.2866]
nQAACT	33.3[21.6-42.9]	910	28.6[18.4-42.9]	511	29.6[20.0-42.9]	1421	31.4[20.0-42.9]	411	29.0[20.0-50.0]	86	30.4[20.0-42.9]	497	-1.9[0.3909]	0.5[0.3830]	0.8[0.8728]
QAACT	37.5[28.2-66.7]	190	33.3[20.0-50.0]	75	33.3[21.1-50.0]	265	50.0[36.4-66.7]	565	50.0[36.4-66.7]	161	50.0[36.4-66.7]	726	12.5[0.0126]	16.7[0.0007]	16.7[<0.0001]
<b>Kenya</b>															
nAT	42.9[25.0-66.7]	692	50.0[20.0-100.0]	532	50.0[21.2-100.0]	1224	47.1[25.0-100.0]	639	50.0[25.0-100.0]	349	50.0[25.0-100.0]	988	4.2[0.3123]	0.0[0.8676]	0.0[0.7172]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	30.4[20.0-40.0]	978	27.7[20.0-34.6]	152	29.5[20.0-38.9]	1130	31.8[20.0-37.1]	941	31.6[17.4-48.1]	116	31.6[19.6-41.5]	1057	1.4[0.9661]	3.9[0.4694]	2.0[0.5729]
QAACT	40.5[24.7-66.7]	464	40.0[12.5-100.0]	98	40.0[19.0-80.0]	562	50.0[33.3-81.8]	1341	42.9[33.3-73.9]	348	48.1[33.3-73.9]	1689	9.5[0.0064]	2.9[0.7723]	8.1[0.2624]
<b>Madagascar</b>															
nAT	66.7[60.0-100.0]	1491	66.7[42.9-100.0]	655	66.7[44.3-100.0]	2146	66.7[42.9-71.4]	801	66.7[42.9-100.0]	805	66.7[42.9-100.0]	1606	0.0[0.0133]	0.0[0.3998]	0.0[0.9005]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-QAACT	25.0[0.0-38.9]	184	50.0[25.0-66.7]	113	38.1[12.9-50.0]	297	40.6[29.9-66.7]	280	50.0[33.3-66.7]	339	43.5[33.3-66.7]	619	15.6[<0.0001]	0.0[0.1813]	5.0[<0.0001]
<b>Niger</b>															
nAT	60.0[35.0-100.0]	1280	100.0[50.0-150.0]	834	87.5[50.0-150.0]	2114	66.7[35.1-150.0]	1076	100.0[50.0-185.7]	431	100.0[42.9-150.0]	1507	6.7[0.0127]	0.0[0.0582]	12.5[0.0252]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	35.0[35.0-35.0]	900	-	-	35.0[35.0-35.0]	921	35.0[35.0-35.0]	799	-	-	35.0[33.3-35.0]	819	0.0[0.3013]	-	0.0[0.3051]
QAACT	35.0[25.0-42.9]	280	-	-	35.0[25.0-50.0]	328	35.1[25.0-60.0]	477	40.0[23.1-66.7]	54	35.1[25.0-60.0]	531	0.1[0.1571]	-	0.1[0.4302]
<b>Nigeria</b>															
nAT	40.0[25.0-60.0]	3663	38.9[25.0-66.7]	707	40.0[25.0-62.5]	4370	42.9[27.3-72.4]	2602	45.5[25.0-66.7]	1144	44.4[26.3-66.7]	3746	2.9[0.1053]	6.6[0.1672]	4.4[0.0271]
AMT	24.1[14.6-36.4]	913	31.6[19.0-52.0]	113	25.0[15.0-39.2]	1026	27.3[20.0-40.0]	456	25.0[20.0-40.0]	146	25.0[20.0-40.0]	602	3.1[0.0059]	-6.6[0.4817]	0.0[0.0144]
nQAACT	20.0[12.1-29.3]	1798	25.0[15.4-33.3]	61	20.0[12.5-30.0]	1859	22.3[14.3-33.3]	717	20.0[14.0-30.8]	144	22.2[14.3-33.3]	861	2.3[0.2028]	-5.0[0.2161]	2.2[0.2316]
QAACT	30.8[19.0-50.0]	615	33.3[25.0-66.7]	78	33.3[20.0-50.0]	693	50.0[25.0-87.5]	1199	50.0[25.0-75.0]	488	50.0[25.0-76.5]	1687	19.2[0.0026]	16.7[0.2761]	16.7[0.0008]
<b>Tanzania – mainland</b>															
nAT	75.0[50.0-100.0]	929	77.8[42.9-122.2]	340	77.8[42.9-110.5]	1269	100.0[58.3-114.3]	1182	87.5[25.0-110.5]	188	87.5[45.5-114.3]	1370	25.0[0.0985]	9.7[0.4457]	9.7[0.5289]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	41.2[25.0-53.8]	643	-	-	40.6[25.0-56.3]	687	47.1[33.3-71.4]	862	53.8[33.3-72.4]	52	47.1[33.3-72.4]	914	5.9[0.0875]	-	6.4[0.0427]
QAACT	34.6[26.3-52.4]	146	-	-	50.0[26.3-66.7]	156	66.7[42.9-100.0]	851	53.8[25.0-87.5]	116	66.7[42.9-100.0]	967	32.1[<0.0001]	-	16.7[0.0220]
<b>Uganda</b>															
nAT	87.5[50.0-150.0]	688	75.4[50.0-135.3]	1457	81.8[50.0-135.3]	2145	100.0[50.0-166.7]	1602	87.5[48.1-150.0]	1216	90.5[50.0-150.0]	2818	12.5[0.4991]	12.1[0.6409]	8.7[0.4836]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	71.4[42.9-114.3]	1076	66.7[40.0-100.0]	886	66.7[42.9-100.0]	1962	56.3[33.3-100.0]	1579	53.8[33.3-100.0]	610	53.8[33.3-100.0]	2189	-15.2[0.1452]	-12.8[0.3423]	-12.8[0.1239]
QAACT	60.0[33.3-100.0]	252	50.0[25.0-87.5]	165	50.0[33.3-100.0]	417	133.3[71.4-233.3]	1584	114.3[66.7-212.5]	865	127.3[66.7-220.0]	2449	73.3[0.0011]	64.3[<0.0001]	77.3[<0.0001]
<b>Zanzibar</b>															
nAT	66.7[42.9-114.3]	52	66.7[50.0-100.0]	17	66.7[42.9-114.3]	69	66.7[42.9-114.3]	37	93.8[42.9-122.2]	14	66.7[42.9-114.3]	51	0.0	27.1	0.0
AMT	50.0[33.3-66.7]	23	20.0[14.3-25.0]	5	47.9[25.0-66.7]	28	100.0[100.0-100.0]	2	25.0	1	100.0[25.0-100.0]	3	50.0	5.0	52.1
nQAACT	25.0[14.3-33.3]	44	25.0[0.0-100.0]	7	25.0[14.3-33.3]	51	42.9[26.8-66.7]	60	42.9[33.3-50.0]	5	42.9[28.6-66.7]	65	17.9	17.9	17.9
QAACT	25.1[14.3-33.3]	6	0.0	1	16.9[0.0-33.3]	7	100.0[66.7-100.0]	244	100.0[60.0-100.0]	69	100.0[66.7-100.0]	313	74.9	100	83.1

**Notes:** nAT= non-artemisinin therapies. AMT=artemisinin monotherapies. nQAACT=non-quality-assured artemisinin-based combination therapy. QAACT=quality-assured artemisinin-based combination therapy. IQR = Interquartile range. Data are not shown for a particular antimalarial category if N<50m except for Zanzibar. The asterisks denote the p-value from a two sided Wilcoxon Rank Sum test of no difference between the baseline and endline distributions for each antimalarial category. \* = p-value <0.05-\*\*=p-value<0.01 and \*\*\*=p-value<0.0001. P-values are not presented for Zanzibar because a complete census of outlets was done.

**Web Appendix Exhibit A4: Median absolute markup between retail purchase price and selling price per AETD of antimalarial treatments in private for-profit outlets at baseline and endline (2010 US\$ equivalent)**

	BASELINE						ENDLINE						CHANGE IN MEDIAN		
	Urban		Rural		Total		Urban		Rural		Total		Urban	Rural	Total
	Median markup[IQR]	No of Products	Median markup[IQR]	No. of products	Median markup[IQR]	No. of products	Median markup [IQR]	No. of products	Median markup [IQR]	No. of products	Median markup [IQR]	No. of products	Change in median [p-value <sup>*</sup> ]	Change in median [p-value <sup>*</sup> ]	Change in median [p-value <sup>*</sup> ]
<b>Ghana</b>															
nAT	0.15[0.10-0.33]	473	0.14[0.10-0.17]	406	0.14[0.10-0.21]	879	0.13[0.09-0.19]	241	0.13[0.08-0.17]	90	0.13[0.09-0.19]	331	-0.03[0.0012]	-0.01[0.0393]	-0.01[0.0140]
AMT	0.55[0.41-0.77]	165	0.51[0.34-0.68]	124	0.55[0.34-0.68]	289	0.40[0.31-0.63]	89	0.31[0.31-0.50]	23	0.38[0.31-0.63]	112	-0.15[0.0027]	-0.20[0.0105]	-0.17[<0.0001]
nQAACT	0.82[0.48-1.10]	909	0.68[0.39-1.03]	512	0.68[0.41-1.03]	1421	0.63[0.31-0.94]	412	0.63[0.31-0.94]	87	0.63[0.31-0.94]	499	-0.20[0.0017]	-0.06[0.0218]	-0.06[0.0045]
QAACT	1.37[0.68-2.05]	190	0.68[0.34-0.95]	75	0.68[0.34-1.37]	265	0.38[0.31-0.63]	565	0.38[0.31-0.63]	161	0.38[0.31-0.63]	726	-0.99[<0.0001]	-0.31[0.0005]	-0.31[<0.0001]
<b>Kenya</b>															
nAT	0.26[0.13-0.55]	691	0.20[0.10-0.39]	528	0.24[0.11-0.45]	1219	0.35[0.17-0.50]	639	0.17[0.12-0.35]	349	0.23[0.12-0.38]	988	0.08[0.8782]	-0.03[0.6092]	-0.01[0.7634]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	1.31[0.79-2.21]	977	1.05[0.74-1.58]	152	1.18[0.79-1.97]	1129	1.15[0.69-1.73]	941	0.81[0.37-1.38]	116	1.04[0.58-1.50]	1057	-0.16[0.0490]	-0.24[0.1258]	-0.15[0.0067]
QAACT	0.98[0.46-1.64]	464	0.66[0.39-1.05]	99	0.72[0.39-1.31]	563	0.23[0.12-0.46]	1342	0.17[0.12-0.29]	349	0.17[0.12-0.35]	1691	-0.70[<0.0001]	-0.48[0.0015]	-0.55[<0.0001]
<b>Madagascar</b>															
nAT	0.14[0.14-0.21]	1482	0.14[0.11-0.18]	659	0.14[0.11-0.18]	2141	0.13[0.13-0.16]	805	0.13[0.10-0.16]	809	0.13[0.10-0.16]	1614	-0.01[<0.0001]	-0.00[0.0037]	-0.01[0.0006]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QAACT	0.11[0.03-1.50]	139	0.05[0.02-0.09]	116	0.06[0.03-0.14]	255	0.26[0.10-0.92]	284	0.17[0.11-0.34]	340	0.17[0.11-0.44]	624	0.14[0.0583]	0.12[<0.0001]	0.11[<0.0001]
<b>Niger</b>															
nAT	0.15[0.08-0.25]	1280	0.15[0.10-0.23]	838	0.15[0.09-0.23]	2118	0.20[0.12-0.32]	1072	0.24[0.12-0.37]	428	0.24[0.12-0.36]	1500	0.04[0.0009]	0.09[<0.0001]	0.09[<0.0001]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	2.35[1.95-3.12]	902	-	-	2.30[1.68-3.06]	923	1.88[0.59-2.64]	799	-	-	1.41[0.40-2.21]	819	-0.47[<0.0001]	-	-0.89[<0.0001]
QAACT	0.82[0.41-2.43]	283	-	-	0.82[0.41-1.23]	332	0.40[0.20-0.79]	477	0.30[0.20-0.53]	54	0.40[0.20-0.69]	531	-0.43[0.0036]	-	-0.43[<0.0001]
<b>Nigeria</b>															
nAT	0.19[0.11-0.30]	3638	0.15[0.09-0.22]	703	0.17[0.11-0.30]	4341	0.14[0.09-0.21]	2603	0.15[0.12-0.24]	1144	0.15[0.11-0.24]	3747	-0.04[0.0043]	0.00[0.3598]	-0.02[0.0103]
AMT	0.60[0.42-0.89]	913	0.95[0.60-1.19]	114	0.60[0.45-0.95]	1027	0.47[0.38-0.71]	456	0.47[0.41-0.94]	146	0.47[0.38-0.76]	602	-0.12[0.0316]	-0.48[0.0573]	-0.12[0.0101]
nQAACT	0.74[0.37-1.04]	1793	0.89[0.74-1.34]	61	0.74[0.37-1.12]	1854	0.59[0.30-0.89]	716	0.59[0.30-0.89]	144	0.59[0.30-0.89]	860	-0.15[0.3014]	-0.30[0.0123]	-0.15[0.1126]
QAACT	0.89[0.60-1.49]	614	0.89[0.60-1.49]	79	0.89[0.60-1.49]	693	0.47[0.30-0.71]	1208	0.47[0.30-0.89]	488	0.47[0.30-0.83]	1696	-0.42[<0.0001]	-0.42[<0.0001]	-0.42[<0.0001]
<b>Tanzania – mainland</b>															
nAT	0.42[0.28-0.63]	947	0.32[0.16-0.53]	339	0.35[0.21-0.55]	1286	0.45[0.29-0.61]	1181	0.31[0.14-0.50]	189	0.41[0.23-0.56]	1370	0.03[0.9994]	0.00[0.9551]	0.05[0.6695]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	2.43[1.34-3.38]	651	-	-	2.18[1.27-3.25]	692	2.00[1.25-3.60]	856	1.87[0.94-2.81]	52	1.91[1.25-3.17]	908	-0.43[0.5977]	-	-0.28[0.6306]
QAACT	2.11[1.06-2.82]	150	-	-	1.41[0.33-2.11]	160	0.44[0.25-1.00]	854	0.31[0.16-0.50]	118	0.37[0.21-0.62]	972	-1.68[<0.0001]	-	-1.03[0.0006]
<b>Uganda</b>															
nAT	0.56[0.28-1.56]	682	0.63[0.23-1.76]	1363	0.61[0.25-1.66]	2045	0.59[0.31-1.64]	1590	0.68[0.30-1.68]	1179	0.67[0.31-1.64]	2769	0.03[0.8135]	0.05[0.6585]	0.06[0.6208]
AMT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
nQAACT	2.00[1.16-2.79]	1076	1.39[0.93-2.32]	893	1.63[0.93-2.60]	1969	1.37[0.86-2.15]	1581	1.25[0.78-1.96]	611	1.37[0.78-1.96]	2192	-0.63[0.0795]	-0.14[0.5110]	-0.26[0.2046]
QAACT	1.63[1.16-3.02]	252	0.74[0.23-1.39]	175	0.93[0.46-1.63]	427	1.17[0.59-1.76]	1589	0.98[0.51-1.56]	871	0.98[0.59-1.56]	2460	-0.45[0.1309]	0.24[0.4416]	0.05[0.7980]
<b>Zanzibar</b>															
nAT	0.34[0.14-0.50]	55	0.29[0.14-0.53]	17	0.34[0.14-0.52]	72	0.35[0.26-0.79]	37	0.32[0.20-0.87]	15	0.35[0.25-0.83]	52	0.01	0.04	0.01
AMT	2.25[1.69-2.25]	25	1.13[0.56-1.13]	5	2.25[1.13-2.25]	30	3.73[3.73-3.73]	2	0.93	1	3.73[0.93-3.73]	3	1.48	-0.19	1.48
nQAACT	1.58[0.77-2.38]	49	0.40[0.00-2.11]	7	1.58[0.70-2.38]	56	1.46[0.87-2.33]	61	1.17[1.17-1.46]	5	1.46[0.87-2.33]	66	-0.13	0.77	-0.13
QAACT	1.06[0.70-2.11]	7	0.00	1	0.99[0.35-1.76]	8	0.47[0.29-1.05]	245	0.35[0.29-0.70]	69	0.41[0.29-0.93]	314	-0.59	0.35	-0.58

**Notes:** nAT= non-artemisinin therapies. AMT=artemisinin monotherapies. nQAACT=non-quality-assured artemisinin-based combination therapy. QAACT=quality-assured artemisinin-based combination therapy. IQR = Interquartile range. Data are not shown for a particular antimalarial category if N<50, except for Zanzibar. The asterisks denote the p-value from a two sided Wilcoxon Rank Sum test of no difference between the baseline and endline distributions for each antimalarial category. \* = p-value <0.05>\*\*=p-value<0.01 and \*\*\*=p-value<0.0001. P-values are not presented for Zanzibar because a complete census of outlets was done.