Table 1. Percentage change in malaria and non-malaria indicators in post intervention years (2006-2010) compared to pre-intervention period (2000–2005), for all ages and <5 years, in 30 of the 40 hospitals, Rwanda, 2000-2010.

	L. Parter	Pre- intervention average (2000-	U .		Observed change in pre- intervnetion (2000-2005)	average of post- intervention (2006-	C	Midpoint change during 2006-2010 ^a				
	Indicator	05)	10)	in 2010	vs 2010 (%)	2010) (%)	Year 1 (2006)	Year 2 (2007)	Year 3 (2008)	4 years (2009)	Year 5 (2010)	uuring 2000-2010
CHILDREN UNDER		21.002	40 777	40.001	122	40	110/ (210/ 770/)	40/ (420/ 500/)	200/ ((00/ 220/)		2(0/ ((10/ 410/)	200/ (100/ 1070/)
	All-cause outpatient cases	21,002		48,991	133	48	11% (-31% - 77%)	-4% (-43% - 59%)	-30% (-60% - 22%)	-6% (-48% - 72%)	-26%(-61% - 41%)	29% (-19% - 107%)
	All-cause admissions	32,847	30,226	27,536	-16	-9	9%(-32%-74%)	-40% (-65% - 1%)	$-54\% (-74\%18\%)^{\dagger}$	-44% (-70% - 5%)	$-53\% (-76\%8\%)^{\dagger}$	-26% (-54% - 19%)
All-cause outpatient		1,635	1,160	1,073	-34	-41	6% (-46% - 107%)	-26% (-65% - 55%)	-37%(-72% - 43%)	-37%(-74% - 54%)	-28%(-73%-89%)	-26% (-62% - 44%)
	Outpatient malaria cases	3,721	6,644	2,293		44 N/A	-4% (-69% - 198%)	-53% (-86% - 60%)	-68% (-92% - 21%)	-67% (-92% - 39%)	-88% (-97%43%)†	-38% (-80% - 93%)
Malaria	Microscopically confirmed cases	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	#N/A #N/A	#N/A #N/A	#N/A #N/A	#N/A #N/A	#N/A #N/A	#N/A #N/A
	Slid positivity rate Malaria admissions			4,757								
	Malaria deaths	14,548 540		4,757	-67 75	-64 -127	-7% (-46% - 59%)	-62% (-79%32%)†	$-74\% (-86\%49\%)^{\dagger}$	$-60\% (-80\%18\%)^{\dagger}$	$-82\% (-92\%61\%)^{\dagger}$	$-51\% (-71\%16\%)^{+}$
					-75		-17% (-57% - 62%)	$\frac{-64\% (-83\%24\%)}{510\% (-60\% - 465\%)}$	$\frac{-72\% (-88\%37\%)}{140\% (-70\% - 250\%)}$	$\frac{-61\% (-84\%6\%)^{\dagger}}{120\% (-7\% - 422\%)}$	-77% (-91%40%)† -20% (-85% - 321%)	$\frac{-57\% (-78\%17\%)}{(10\% (-52\% - 420\%))}$
Respiratory infections	OPD Respiratory infection	925	2,149	2,140 7,294		57	57% (-53% - 425%)	51% (-60% - 465%)	-14% (-79% - 259%)	12% (-76% – 422%) 147% (32% – 359%)	· · · · · · · · · · · · · · · · · · ·	61% (-52% - 439%)
	IPD Respiratory infection	2,600 152	5,389 164	184		52 7	48% (-7% - 136%)	30% (-23% - 118%)	73% (-2% - 205%)	147% (32% - 339%) 116% (-12% - 427%)	147% (26% - 385%)	98% (24% - 216%)
	Deaths Respiratory infection				21	1	$\frac{27\% (-35\% - 149\%)}{110\% (-400\% - 1410\%)}$	$\frac{13\% (-46\% - 138\%)}{10\% (-20\% - 1120\%)}$	<u>84% (-19% - 316%)</u> 50% (-81% - 28%)	-39%(-78% - 72%)	$\frac{131\% (-12\% - 509\%)}{(00\% - 10\%)}$	$\frac{40\% (-28\% - 174\%)}{120\% (-48\% - 144\%)}$
	OPD Diarrhoeal diseases	1,364	2,705	2,370		50 24	11% (-49% - 141%) 27% (-12% - 116%)	-10% (-62% - 113%)	-50% (-81% - 28%)	· · · · · · · · · · · · · · · · · · ·	$-69\% (-90\%4\%)^{\dagger}$	12% (-48% - 144%) 20% (-18% - 103%)
	IPD Diarrhoeal diseases	2,738			68 -7	34	37% (-13% - 116%)	1% (-39% - 67%)	-2% (-44% - 71%)	15% (-37% – 111%) 51% (-57% – 434%)	6% (-45% - 104%)	29% (-18% - 103%)
Diarrnoeal diseases	Deaths Diarrhoeal diseases	67	73			,	$\frac{56\% (-40\% - 303\%)}{100\% (-420\% - 1420\%)}$	$\frac{18\% (-59\% - 240\%)}{210(-450)}$	54% (-52% - 390%)		35% (-66% - 432%)	$\frac{28\% (-50\% - 232\%)}{(20\% (-210\% - 232\%))}$
Non-malaria	Non-malariaOPDcases	20,077	38,628	46,851	133	48	19% (-42% – 143%)	21% (-45% - 167%)	-9% (-62% - 115%)	30% (-49% - 232%)	13% (-59% - 210%)	62% (-21% - 232%)
	Non-malariaIPDcases	18,299		22,779	24	14	21% (-22% - 88%)	-23%(-52%-25%)	-38%(-63% - 6%)	-31%(-61% - 23%)	-30%(-62% - 31%)	-6% (-39% - 46%)
	Non-malariaDeaths	1,095	923	938	-14	-19	18% (-41% - 135%)	-5% (-56% - 103%)	-17% (-64% - 93%)	-22% (-69% - 94%)	2% (-62% - 175%)	-9% (-54% - 80%)
5 AND ABOVE YEA		_										
	All-cause outpatient cases	115,282	266,230	,		57	19% (5% - 35%)	4% (-9% - 20%)	-20% (-31%7%)†	-1% (-16% - 17%)	-13% (-27% - 4%)	48% (31% - 68%)
	All-cause admissions	82,258	109,116	,	43	25	28% (-18% - 101%)	11% (-32% - 82%)	-22% (-55% - 34%)	-20% (-55% - 45%)	-10% (-53% - 69%)	12% (-29% - 75%)
All-cause outpatient Malaria		2,613	2,723	2,837	9	4	16% (-20% - 68%)	9% (-28% - 65%)	-26% (-53% - 16%)	-16% (-49% - 38%)	-5% (-45% - 64%)	-1% (-32% - 44%)
	Outpatient malaria cases	29,476		6,711	-77	-334	-75% (-71% - 129%)	-74% (-81% - 86%)			-69% (-93% - 37%)	-75% (-86% - 7%)
	Microscopically confirmed cases	N/A		N/A	N/A	N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	Slid positivity rate	N/A	N/A	N/A	N/A	N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	Malaria admissions	18,344	10,537	6,654	-64	-74	-66% (-34% - 54%)	-67% (-68%19%)†	-67% (-82%48%)†	-68% (-73%14%)†	-69% (-83%42%)†	-66% (-64%17%)†
	Malaria deaths	680			-40	-34	-29% (-43%7%)†	-24% (-45% - 171%)	-20% (-73% - 53%)	-15% (-76% - 55%)	-10% (-67%7%)†	-29% (-60%7%)†
	OPD Respiratory infection	2,315	,	3,956		33	24% (-47% - 191%)	6% (-62% – 149%)	-8% (-78% - 73%)	-21% (-79% - 94%)	-32% (-80% - 128%)	24% (-54% - 155%)
Respiratory	IPD Respiratory infection	2,368		3,702	56	27	65% (-5% - 99%)	68% (1% – 132%)	71% (-15% – 113%)	74% (-13% – 138%)	78% (3% – 206%)	65% (-1% - 108%)
infections	Deaths Respiratory infection	155	185	204	31	16	40% (-15% - 64%)	43% (10% - 130%)	47% (-23% - 72%)	50% (-22% - 87%)	54% (-4% - 147%)	40% (-9% - 77%)
	OPD Diarrhoeal diseases	3,988		2,421	-39	-40	-50% (-95% - 890%)	-55% (-97% - 941%)	-60% (-99% - 648%)	-64% (-98% - 1,442%)	-67% (-99% – 1,199%)	-50% (-96% - 718%)
	IPD Diarrhoeal diseases	1,813	2,158	2,118	17	16	10% (-37% - 150%)	7% (-41% - 173%)	5% (-61% - 107%)	2% (-62% – 133%)	-1% (-63% - 166%)	10% (-44% – 125%)
Diarrhoeal diseases		55	47	49	-12	-18	0% (-53% - 50%)	5% (-33% - 140%)	10% (-55% - 84%)	15% (-50% - 132%)	20% (-47% - 175%)	0% (-46% - 72%)
Non-malaria	Non-malariaOPDcases	112,967	262,761	345,609	206	57	104% (-42% - 132%)	49% (-57% - 101%)	8% (-71% - 54%)	-21% (-70% - 84%)	-42% (-78% - 54%)	104% (-24% - 206%)
	Non-malariaIPDcases	63,914	98,579	110,631	73	35	41% (-18% - 121%)	29% (-27% - 115%)	19% (-51% - 59%)	9% (-55% - 64%)	0% (-50% - 99%)	41% (-23% - 106%)
	Non-malariaDeaths	1,934	2,217	2,426	25	13	12% (-25% - 75%)	6% (-34% - 66%)	1% (-55% - 23%)	-4% (-54% - 38%)	-8% (-49% - 67%)	12% (-33% - 55%)
ALL AGES												
	All-cause outpatient cases	136,284	307,007	398,556	192	56	18% (5% - 32%)	3% (-9% - 17%)	-21% (-31%10%)†	-2% (-15% - 14%)	-15% (-27% - 0%)	45% (30% - 63%)
	All-cause admissions	115,105	139,342		26	17	22% (-24% - 98%)	-4% (-44% - 63%)	-32% (-62% - 23%)	-27% (-61% - 38%)	-24% (-61% - 52%)	1% (-38% - 63%)
All-cause outpatient	All-cause deaths	4,248	3,883	3,910	-8	-9	12% (-33% - 88%)	-4% (-46% - 72%)	-30% (-63% - 32%)	-23% (-61% - 54%)	-12% (-59% - 86%)	-10% (-46% - 51%)
Malaria	Outpatient malaria cases	33,198	14,969	9,004	-73	-122	-12% (-69% - 149%)	-41% (-81% - 85%)	-71% (-92% - 2%)	-70% (-92% - 15%)	-71% (-93% - 25%)	-54% (-83% - 31%)
	Microscopically confirmed cases	32,420			-74	-192	-17% (-63% - 87%)	-80% (-92%50%)†	-88% (-95%67%)†	-72% (-90%19%)†	-72% (-91%12%)†	-67% (-85%25%)†
	Slid positivity rate	35		9	-73	-218	-29% (-39%17%)†	-73% (-77%68%)†	-74% (-78%68%)†	-54% (-62%44%)†	-58% (-66%47%)†	-62% (-68%56%)†
	Malaria admissions	32,892		11,411	-65	-70	-3% (-42% - 62%)	-56% (-75%22%)†	-71% (-85%46%)†	-55% (-77%11%)†	-76% (-88%49%)†	-48% (-69%14%)†
	Malaria deaths	1,220		546	-55	-64	1% (-50%10%)†	-21% (-64% - 72%)	-55% (-81% - 7%)	-51% (-81% - 26%)	-47% (-81%10%)†	-37% (-69%10%)†
	OPD Respiratory infection	3,241	5,618			42	33% (-49% - 251%)	13% (-61% - 227%)	-31% (-78% - 119%)	-22% (-78% - 173%)	-28% (-81% - 176%)	24% (-53% - 226%)
Respiratory	IPD Respiratory infection	4,968		10,996		42	43% (-6% – 116%)	40% (-12% - 123%)	56% (-6% - 161%)	104% (16% – 256%)	119% (19% – 302%)	73% (14% – 162%)
infections	Deaths Respiratory infection	307		388	26	12	22% (-27% - 105%)	40% (-21% - 148%)	45% (-23% - 171%)	61% (-19% – 218%)	88% (-10% - 293%)	33% (-20% - 123%)
	OPD Diarrhoeal diseases	5,352		4,791	-10	4	-18% (-90% - 580%)	-32% (-93% - 602%)	-61% (-97% - 400%)	-43% (-96% - 798%)	-66% (-98% - 564%)	-26% (-91% - 517%)
	IPD Diarrhoeal diseases	4,550				28	33% (-26% - 138%)	11% (-42% - 112%)	-4% (-53% - 95%)	9% (-50% - 136%)	5% (-54% - 142%)	23% (-32% - 120%)
Diarrhoeal diseases		122	120		-9	-2	21% (-38% - 136%)	21% (-42% - 151%)	23% (-45% - 174%)	29% (-46% - 208%)	26% (-51% - 223%)	13% (-42% - 119%)
Non-malaria	Non-malariaOPDcases	133,044	301,389			56	17% (-35% - 109%)	-3% (-49% - 85%)	-29% (-65% - 42%)	-18% (-62% - 75%)	-35% (-71% - 48%)	$\frac{1370(-4270-11770)}{54\%(-14\%-176\%)}$
	Non-malariaIPDcases	82,213		133,410		31	32% (-21% - 119%)	14% (-35% - 100%)	-18% (-55% - 51%)	-18% (-58% - 60%)	-7% (-55% - 90%)	19% (-29% - 97%)
	Non-malariaDeaths	3,029			11	51 Л	16% (-32% - 100%)	2% (-44% - 86%)	-22% (-60% - 50%)	-19% (-61% - 65%)	-3% (-55% - 111%)	-1% (-43% - 70%)
	. on mannabound	5,027	5,140	5,504	11	+	10/0 (52/0 100/0)	2/0(11/0 00/0)	22,0(00,0 50/0)	12/0 (01/0 02/0)	5,0(55,0 111/0)	1/0 (15/0 /0/0)

Note:

^a Main measure of changes estimated for the midpoint year of 2006–2010 (predicted for mid point of 2006-2010 versus average observed value for 2006-2010)

A positive percentage (ratio between observed and predicted indicators level multiplied by 100) indicates an increase in the indicator.

A negative percentage indicate a decrease of the indicator.

†: Confidence Interval (CI) does not include zero and change of trend (pre versus post-intervention) is statistically significant, (P<0.05)