

ACT Costing Model  
INPUTS-Assumptions

Assumptions for ACT Costing	Edit to adjust projections					Do not edit
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 5
<b>Population growth rate</b>	2.3%	2.3%	2.3%	2.3%	2.3%	2.3%
<b>Total Population</b>	36 648 185	37 491 093	38 353 388	39 235 516	40 137 933	40 137 933
Ages under 1	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%
Ages 1- 4	13.65%	13.65%	13.65%	13.65%	13.65%	13.65%
Ages 5-9	14.89%	14.89%	14.89%	14.89%	14.89%	14.89%
Ages 10-14	12.88%	12.88%	12.88%	12.88%	12.88%	12.88%
Ages 15+	56%	55.78%	55.78%	55.78%	55.78%	55.78%
<b>Episodes</b>						
episodes under 1	5.4	5.1	4.9	4.6	4.4	4.4
episodes per year 1-4	3.8	3.6	3.5	3.3	3.1	3.1
episodes per year 5-9	1.5	1.5	1.4	1.3	1.3	1.3
episodes per year 10-14	1.5	1.5	1.4	1.3	1.3	1.3
episodes per year over 15	2.1	2.0	1.9	1.8	1.7	1.7
<b>Utilisation</b>						
In public sector	35%	39%	42%	42%	42%	42%
In private sector	35%	31%	28%	28%	28%	28%
<b>Coverage</b>						
% of Antimalarials that are ACTs -public sector	50%	70%	80%	90%	90%	90%
% of Antimalarials that are ACTs -private sector - ART+AQ	25%	30%	40%	50%	55%	55%
% of Antimalarials that are ACTs -private sector -Coartem	20%	22%	25%	27%	30%	30%
<b>Public Health Impact</b>						
Estimated impact of public health interventions (ITNs, ACTs, etc)	0%	5%	5%	5%	5%	5%
<b>Unit cost of anti-malarial treatment</b>						
<i>Artesunate + Amodiaquine</i>						
cost of treat under 1 for ART+AQ	\$ 0.33	\$ 0.30	\$ 0.28	\$ 0.25	\$ 0.23	\$ 0.23
cost of treat 1 - 4 for ART+AQ	\$ 0.65	\$ 0.60	\$ 0.55	\$ 0.50	\$ 0.45	\$ 0.45
cost of treat 5-14 for ART+AQ	\$ 0.98	\$ 0.90	\$ 0.83	\$ 0.75	\$ 0.68	\$ 0.68
cost of treat over 15 for ART+AQ	\$ 1.30	\$ 1.20	\$ 1.10	\$ 1.00	\$ 0.90	\$ 0.90
<i>Coartem</i>						
cost of treat under 5 for Coartem	\$ 0.90	\$ 0.90	\$ 0.90	\$ 0.90	\$ 0.90	\$ 0.90
cost of treat 5-9 for Coartem	\$ 1.40	\$ 1.40	\$ 1.40	\$ 1.40	\$ 1.40	\$ 1.40
cost of treat 10-14 for Coartem	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90	\$ 1.90
cost of treat over 15 for Coartem	\$ 2.40	\$ 2.40	\$ 2.40	\$ 2.40	\$ 2.40	\$ 2.40
<b>Handling Charges</b>						
Handling for ART+AQ	5%	5%	5%	5%	5%	5%
WHO handling for Coartem	3%	3%	3%	3%	3%	3%
Freight and Insurance	9%	9%	9%	9%	9%	9%
Handling fee/taxes	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Handling charges (distribution)	15%	15%	15%	15%	15%	15%
<b>Unit cost of anti-malarial treatment - In country</b>						
<i>Artesunate + Amodiaquine</i>						
cost of treat under 1 for ART+AQ	\$ 0.44	\$ 0.40	\$ 0.37	\$ 0.34	\$ 0.30	\$ 0.30
cost of treat 1-4 for ART+AQ	\$ 0.88	\$ 0.81	\$ 0.74	\$ 0.67	\$ 0.61	\$ 0.61
cost of treat 5-14 for ART+AQ	\$ 1.32	\$ 1.21	\$ 1.11	\$ 1.01	\$ 0.91	\$ 0.91
cost of treat over 15 for ART+AQ	\$ 1.75	\$ 1.62	\$ 1.48	\$ 1.35	\$ 1.21	\$ 1.21
<i>Coartem</i>						
cost of treat under 5 for Coartem	\$ 1.19	\$ 1.19	\$ 1.19	\$ 1.19	\$ 1.19	\$ 1.19
cost of treat 5-9 for Coartem	\$ 1.85	\$ 1.85	\$ 1.85	\$ 1.85	\$ 1.85	\$ 1.85
cost of treat 10-14 for Coartem	\$ 2.51	\$ 2.51	\$ 2.51	\$ 2.51	\$ 2.51	\$ 2.51
cost of treat over 15 for Coartem	\$ 3.18	\$ 3.18	\$ 3.18	\$ 3.18	\$ 3.18	\$ 3.18
<b>Subsidy</b>						
Subsidy level for public sector	100%	100%	100%	100%	100%	100%
Subsidy level for private sector	50%	50%	50%	50%	50%	50%