

Parameters for probabilistic sensitivity analysis drawing from year 5 costs. (All currency in US \$)

Parameter	MAMA <sup>c</sup>			Comparison			Incremental	
	<i>Base case</i>	<i>High</i>	<i>Low</i>	<i>Base case</i>	<i>High</i>	<i>Low</i>		
Effects								
	Proportion ANC <sup>d</sup> 4+	72%	85%	55%	46%	53%	38%	26%
	Number ANC 4+ Gauteng	129,284	152,627	98,759	82,598	95,168	68,233	46,686
	Proportion Fully immunized	95%	98%	92%	90%	94%	84%	5%
	Number Fully immunized	170,584	175,970	165,197	161,605	168,788	150,832	8978
	Proportion ANC4+ & Fully immunized	67%	75%	57%	39%	53%	26%	
	Number ANC4+ & Fully immunized	120,306	134,671	102,350	70,029	95,168	46,686	50,277
	Inputs into Lives Saved Tool							
	ANC <sup>a</sup>	98%	99%	91%	84%	87%	82%	14%
	Bacillus Calmette–Guérin	99%	100%	86%	97%	99%	83%	2%
	Polio - 3 doses	99%	99%	86%	98%	99%	85%	1%
	Pentavalent	99%	99%	86%	97%	99%	78%	2%
	Pneumococcal - 3 doses	98%	99%	96%	94%	98%	82%	4%
	Measles- single doses	98%	99%	96%	94%	98%	82%	4%
	Incremental Lives Saved <sup>b</sup>							182 (109-199)
	Disability adjusted live years averted (3% discounting, no age weighting)							5145 (3080-5628)
Provider costs								
	Peer educator time costs to register MAMA users	\$0.08	\$0.11	\$0.04	-	-	-	
Registration costs Gauteng		\$13,808.85	\$20,188.24	\$7747.75				\$13,808.85

		ANC 1 Group counseling (5 minute peer educator)	\$0.26	\$0.37	\$0.14	\$0.26	\$0.37	\$0.14	
		ANC 1 One on one consultation (10 minute Nurse time)	\$1.03	\$1.50	\$0.58	\$1.03	\$1.50	\$0.58	
		Total ANC1	<i>\$1.28</i>	<i>\$1.87</i>	<i>\$0.72</i>	<i>\$1.28</i>	<i>\$1.87</i>	<b>\$0.72</b>	
		ANC 2	\$1.03	\$1.50	\$0.58	\$1.03	\$1.50	\$0.58	
		ANC 3	\$1.03	\$1.50	\$0.58	\$1.03	\$1.50	\$0.58	
		ANC 4	\$1.03	\$1.50	\$0.58	\$1.03	\$1.50	\$0.58	
		Total ANC 4+	<i>\$4.36</i>	<i>\$6.37</i>	<i>\$2.45</i>	<i>\$4.36</i>	<i>\$6.37</i>	<b>\$2.45</b>	
ANC 4+ Gauteng			<i>\$563,401.28</i>	<i>\$629,200.02</i>	<i>\$373,183.51</i>	<i>\$359,950.82</i>	<i>\$434,720.02</i>	<i>\$232,690.89</i>	<i>\$203,450.46</i>
		PNC <sup>e</sup> 1 (10 minute Nurse time)	\$1.03	\$1.50	\$0.58	\$1.03	\$1.50	\$0.58	
		PNC 2 (5 minute Nurse time)	\$0.51	\$0.75	\$0.29	\$0.51	\$0.75	\$0.29	
		PNC 3 (5 minute Nurse time)	\$0.51	\$0.75	\$0.29	\$0.51	\$0.75	\$0.29	
		PNC 4 (5 minute Nurse time)	\$0.51	\$0.75	\$0.29	\$0.51	\$0.75	\$0.29	
		PNC 5 (5 minute Nurse time)	\$0.51	\$0.75	\$0.29	\$0.51	\$0.75	\$0.29	
		Total PNC 5	<i>\$3.08</i>	<i>\$4.50</i>	<i>\$1.73</i>	<i>\$3.08</i>	<i>\$4.50</i>	<i>\$1.73</i>	
		<i>PNC5+ (Fully immunized) Gauteng</i>	<i>\$524,736.48</i>	<i>\$742,927.09</i>	<i>\$303,711.97</i>	<i>\$497,118.77</i>	<i>\$678,324.73</i>	<i>\$291,315.57</i>	<i>\$27,617.71</i>
		<i>Total provider cost per ANC4+ &amp; Fully immunized Gauteng</i>	<i>1,101,947</i>	<i>1,392,315</i>	<i>684,643</i>	<i>857,070</i>	<i>1,113,045</i>	<i>524,006</i>	<i>\$244,877.03</i>
Users' costs									
	Mean cost per person per visit								
		Food	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$-
		Wages lost (self)	\$0.18	\$0.24	\$0.11	\$0.18	\$0.24	\$0.11	\$-
		Wages lost (spouse)	\$1.31	\$1.44	\$1.18	\$1.31	\$1.44	\$1.18	\$-
		Child care for other children	\$0.07	\$0.26	\$(0.13)	\$0.07	\$0.26	\$(0.13)	\$-
		Transport	\$0.08	\$0.34	\$(0.18)	\$0.08	\$0.34	\$(0.18)	\$-
		<i>sub-total</i>	<i>\$1.66</i>	<i>\$2.31</i>	<i>\$1.01</i>	<i>\$1.66</i>	<i>\$2.31</i>	<i>\$1.01</i>	<i>\$-</i>
		ANC Visit 1	\$1.66	\$2.31	\$1.01	\$1.66	\$2.31	\$1.01	\$-
		ANC Visit 2	\$1.66	\$2.31	\$1.01	\$1.66	\$2.31	\$1.01	\$-

		ANC Visit 3	\$1.66	\$2.31	\$1.01	\$1.66	\$2.31	\$1.01	\$-
		ANC Visit 4	\$1.66	\$2.31	\$1.01	\$1.66	\$2.31	\$1.01	\$-
		<i>Total ANC 1-4</i>	<i>\$6.64</i>	<i>\$9.24</i>	<i>\$4.04</i>	<i>\$6.64</i>	<i>\$9.24</i>	<i>\$4.04</i>	<i>\$-</i>
		<i>ANC 4+ Gauteng</i>	<i>\$858,608.44</i>	<i>\$912,433.05</i>	<i>\$617,146.13</i>	<i>\$548,555.39</i>	<i>\$630,408.29</i>	<i>\$384,808.76</i>	<i>\$310,053.05</i>
		PNC Visit 1: Birth	\$1.48	\$2.07	\$0.90	\$1.48	\$2.07	\$0.90	\$-
		PNC Visit 2: 6 week	\$1.48	\$2.07	\$0.90	\$1.48	\$2.07	\$0.90	\$-
		PNC Visit 3: 10 week	\$1.48	\$2.07	\$0.90	\$1.48	\$2.07	\$0.90	\$-
		PNC Visit 4: 14 week	\$1.48	\$2.07	\$0.90	\$1.48	\$2.07	\$0.90	\$-
		PNC Visit 5: 9 months	\$1.66	\$2.31	\$1.01	\$1.66	\$2.31	\$1.01	\$-
		<i>Total PNC</i>	<i>\$7.60</i>	<i>\$10.59</i>	<i>\$4.61</i>	<i>\$7.60</i>	<i>\$10.59</i>	<i>\$4.61</i>	<i>\$-</i>
		<i>PNC5+ (Fully immunized) Gauteng</i>	<i>\$1,296,345.38</i>	<i>\$1,748,920.14</i>	<i>\$811,585.05</i>	<i>\$1,228,116.68</i>	<i>\$1,596,840.13</i>	<i>\$778,459.13</i>	<i>\$68,228.70</i>
		<i>Total users cost per ANC4+ &amp; Fully immunized Gauteng</i>	<i>\$2,154,953.82</i>	<i>\$2,661,353.19</i>	<i>\$1,428,731.18</i>	<i>\$1,776,672.07</i>	<i>\$2,227,248.42</i>	<i>\$1,163,267.89</i>	<i>\$378,281.75</i>
	<i>Annual program costs at maturity (year 5)</i>								
	<i>Implementation support</i>								
		Development	\$0.23	\$0.28	\$0.17				\$0.23
		Start-up	\$0.11	\$0.14	\$0.08				\$0.11
		Training	\$0.00	\$0.00	\$0.00				\$0.00
		Personnel	\$0.12	\$0.15	\$0.09				\$0.12
		Buildings	\$0.04	\$0.04	\$0.03				\$0.04
		Transport	\$0.02	\$0.02	\$0.01				\$0.02
		Communication	\$0.00	\$0.00	\$0.00				\$0.00
		<i>Sub-total implementation support</i>	<i>\$0.51</i>	<i>\$0.64</i>	<i>\$0.39</i>				<i>\$0.51</i>
	<i>Technology costs</i>								
		Start-up/Development	\$0.00	\$0.01	\$0.00				\$0.00
		Content maintenance	\$0.05	\$0.07	\$0.04				\$0.05
		Technology maintenance	\$0.11	\$0.14	\$0.08				\$0.11

	Project management/personnel	\$0.10	\$0.12	\$0.07		\$0.10		
	M&E	\$0.00	\$0.00	\$0.00		\$0.00		
	Building/ Overhead	\$0.07	\$0.09	\$0.06		\$0.07		
	Travel	\$0.02	\$0.02	\$0.01		\$0.02		
	SMS text message delivery	\$1.38	\$2.36	\$1.02		\$1.38		
	SMS text message translation	\$0.01	\$0.01	\$0.01				
	Printing	\$-	\$-	\$-		\$-		
	<i>Sub-total technology</i>	\$1.74	\$2.83	\$1.30		\$1.74		
	Total program cost per user	\$2.26	\$3.47	\$1.69		\$2.26		
	Total program cost Gauteng	\$405,491.14	\$623,318.87	\$303,252.74		\$405,491.14		
	Total societal cost Gauteng	\$3,662,391.57	\$4,676,987.41	\$2,416,627.15	\$2,633,741.65	\$3,340,293.16	\$1,687,274.35	\$1,028,649.91

<sup>a</sup>Utilization rates for ANC 2 have been inputted into LiST, which does not allow for differentiation between utilization of ANC 1-4; instead allowing for data on co-coverage of interventions or a flat coverage estimate to be inputted. The assumption in using ANC 2 is that the majority of clinical services in South Africa are provided within the first 2 ANC visits.

<sup>b</sup>Sub-national estimated adjusted based on sample population.

<sup>c</sup>MAMA: Mobile Alliance for Maternal Action;

<sup>d</sup>ANC: antenatal care;

<sup>e</sup>PNC: postnatal care