		Year 1 ($)	Year 2 ($)	Year 3 ($)	Year 4 ($)	Year 5 ($)	Total
Benefits							
101	Increased Revenues	-	266,000.00	353,780.00	-	-	619,780.00
102	Decreased Costs	-	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00
103	Inventory Savings	-	200,000.00	200,000.00	200,000.00	200,000.00	800,000.00
104	Increased Productivity	-	183,900.00	191,256.00	198,906.24	206,862.49	780,924.73
	Total Benefits	**-**	**699,900.00**	**795,036.00**	**448,906.24**	**456,862.49**	**2,400,704.73**
Development costs							
201	Labor: Project Manager	98,800.00	-	-	-	-	98,800.00
202	Labor: Software Engineer	150,000.00	-	-	-	-	150,000.00
203	Labor: Business Analyst	62,500.00	-	-	-	-	62,500.00
204	Labor: Web Designer	20,000.00	-	-	-	-	20,000.00
205	Labor: Data Analyst	40,000.00	-	-	-	-	40,000.00
206	Labor: Quality Assurance	33,000.00	-	-	-	-	33,000.00
	Total development costs	**404,300.00**	**-**	**-**	**-**	**-**	**404,300.00**
Operational costs							
301	Maintenance and updates	-	80,860.00	80,860.00	80,860.00	80,860.00	323,440.00
304	Hardware Server	-	30,000.00	31,140.00	32,323.32	33,551.61	127,014.93
305	Hardware Network	-	33,000.00	34,254.00	35,555.65	36,906.77	139,716.42
306	Labor: Cyber Security Analyst	-	134,000.00	139,360.00	144,934.40	150,731.78	569,026.18
307	Staffing Training (on going)	-	30,000.00	10,000.00	10,000.00	10,000.00	60,000.00
308	Misc.	-	10,000.00	10,000.00	10,000.00	10,000.00	40,000.00
	Total operational costs	**-**	**307,860.00**	**295,614.00**	**303,673.37**	**312,050.15**	**1,219,197.52**
401	**Total costs**	**404,300.00**	**307,860.00**	**295,614.00**	**303,673.37**	**312,050.15**	**1,623,497.52**
402	**Net benefits**	**(404,300.00)**	**392,040.00**	**499,422.00**	**145,232.87**	**144,812.34**	**777,207.21**
403	**Cumulative Net Cash Flow**	**(404,300.00)**	**(12,260.00)**	**487,162.00**	**632,394.87**	**777,207.21**	

ROI	47.87%
Payback Period	2.02 years

		LY Revenue	Increase Revenue	Total Increase Year 2
101	Increased Revenues	$ 200,000.00	0.33	$ 266,000.00

		Epic Operational Cost	Reduce Operating	Year 2
102	Reduced Costs	$ 500,000.00	0.1	$ 50,000.00

		Inventory Cost	Carrying Cost Sav	Year 2
103	Inventory Savings	$ 500,000.00	0.4	$ 200,000.00

		Year 1 Saving	Annual Pay incre	Year 2
104	Increased Productivity	$ 183,900.00	0.04	$ 191,256.00

Development Costs

		Rate	Total # of Hours	
201	Labor: Project Manager	$ 190.00	520	$ 98,800.00
202	Labor: Software Engineer	$ 100.00	1500	$ 150,000.00
203	Labor: Business Analyst	$ 125.00	500	$ 62,500.00
204	Labor: Web Designer	$ 100.00	200	$ 20,000.00
205	Labor: Data Analyst	$ 100.00	400	$ 40,000.00
206	Labor: Quality Assurance	$ 110.00	300	$ 33,000.00
207	Labor: Documentation	$ 75.00	200	$ 15,000.00

Operational Costs

301	Maintenance and updates	80,860.00		https://topflightapps.com/ideas/cost-of-eh
304	Hardware Server	30,000	inflation rate: 3.8%	https://centerbase.com/
305	Hardware Network	33,000	inflation rate: 3.8%	https://www.ehrinpractic
306	Labor: Cyber Security Analy	134,000	4% annual pay in	https://www.glassdoor.c
307	Staffing Training (on going)	30,000	10,000	https://topflightapps.cor
308	Misc.	10,000		https://radixweb.com/blog/cost-to-develop

304

Year 3

$ 353,780.00

potential increase in patient capacity: 0.33 (from time saved)
patient retention rates (returning patients)

Year 3	Year 4 & 5
$ 50,000.00	$ 50,000.00

Current System Cost: $500,000
Implementation of the new system reduces operational cost by 10
costs saving: $500,000 *.10 = $50,000 savings annually

Year 3	Year 4 &5
$ 200,000.00	$ 200,000.00

Hospital Current Inventory Cost: $500,000
Implementation of the new system reduces carrying cost of up to
Carrying cost savings: $500,000 *.40 = $200,000 annually

Year 3	Year 4
$ 198,906.24	$ 206,862.49

current consultation time per patient: 30mins
estimated consultation time after implementing MICA: 20mins
percentage increase = 10/30 = 0.33

Hourly wage
Time saved per record (min)
Annual Records
Total Hr. saved (annual)
Total savings

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https://hscrc.maryland.gov/Documents/pdr/ar/Disclosure/Hospital%20Financial%20Condition%20Report%20FY%

https://hscrc.maryland.gov/Documents/pdr/ar/Disclosure/Hospital%20Financial%20Condition%20Report%20FY%
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https://www.waspbarcode.com/inventory-control/true-costs-of-carrying-inventory
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