



**PRODUCT X ECONOMIC MODEL - HOSPITAL PERSPECTIVE**  
**PRODUCT X VS STANDARD OF CARE FOR CONDITION Y MONITORING IN THE INTENSIVE CARE UNIT (ICU)**

Hospital Data	ICU Assumptions
How many beds are in the ICU?	10
What is the average occupancy rate?	90%
What is the average length of stay (LOS) in days?	3
Annual number of ICU patients being monitored for Condition Y via current standard of care:	438
What % of all ICU patients are monitored for Condition Y?	40%
Incidence of catheter-related infection using current standard of care monitoring (percentage) <sup>1</sup>	0.78%
What is the approximate percentage of time a CVC would need to be placed only for Condition Y monitoring?	2%
What is the CVC infection rate (percentage)?	2%
What is the average cost per line infection?	\$25,000
Nursing Cost per Hour <sup>2</sup>	\$33

PRODUCT X	VALUE	CURRENT STANDARD OF CARE	VALUE
<b>Set-up Costs</b>			
# of Monitors	2	# of Devices	2
Cost per Monitor, Including Training	\$32,000	Cost per Device, Including Training	\$24,509
Cost per Rolling Stand	\$1,000	NA	
Total Set-up Costs	\$66,000	Total Set-up Costs	\$49,018
<b>Per Patient Disposable Costs</b>			
NA	0	Average # Special Catheters per Patient	1.5
NA	0	Cost per Special Catheter	\$300
NA	0	CVA, Non-Tunneled Catheter with Kit	\$174
Total Patient Disposables	\$0	Total Patient Disposables	\$198,624
<b>Per Patient Day Costs</b>			
Per Measurement Nursing Time (minutes)	10	Per Measurement Nursing Time (minutes)	7.5
Number Measurements Per Day	6	Number Measurements per Day	6
Supply Cost 1 (per Application)	\$0.01	Supply Cost 3 (per Measurement)	\$2.05
Supply Cost 2 (per Application)	\$0.35	Supply Cost 4 (per Measurement)	\$1.96
Total Patient Day Costs	\$45,855.97	Total Patient Day Costs	\$63,860.40
<b>Condition Y Monitoring-Induced AE Costs</b>			
NA	0	Total Cost Monitoring-Induced Infections	\$89,790.00
<b>Total Annual Costs</b>			
<b>Total Annual Product X Monitoring Costs</b>	<b>\$111,855.97</b>	<b>Total Annual Standard Monitoring Costs</b>	<b>\$401,292.64</b>

<b>ANNUAL COST SAVINGS POTENTIAL USING PRODUCT X VS STANDARD OF CARE FOR CONDITION Y MONITORING IN THE ICU</b>	<b>\$289,436.67</b>
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