



Site Image Management Profile For:

**Primary Care**

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## CR vs Film Worksheet

**The attached proforma provides a detailed business case comparison between film-based and filmless medical imaging operations.**

Site volume data, images per exam, retake rate, lost film

Film/chemistry expenses

Space allocation costs, equipment, dark room, film storage

CR Equipment, software, network, maintenance costs

Per study resources physicians, technologist, support staff

Final comparison film based, CR projected savings.

**Note: Items in red are client-specific variables to be modified.**



## Site Information

### Film Based Operation

Dailey procedure volume	6
Annual procedure volume	1,560
Images per Exam	2.2
Retake Rate	10.0%
Lost Film Rate	5.0%

Total Annual Images 3,947

Total Printed Images 3,947

### CR Based Operation

Dailey procedure volume	6
Annual procedure volume	1,560
Images per Exam	2.2
Retake Rate	0.0%
Lost Film Rate	0%

Total Annual Images 3,432

Total Printed Images 3,432



## Material

### Material Expense (per sheet)

	Film Based Operation		CR Filmless Operation % used		
Film	1.00				
Chemicals/Water	0.45	CD/DVD's	40%	0.25	343.20
<b>Total consumable cost per Exam</b>	1.45				
<b>Annual Expense</b>	<b>5,722.86</b>			<b>343.20</b>	



## Facilities

### Facilities Requirements

Film Based Operation				Filmless Operation			
	<u>Sq Ft</u>	<u>\$/Sq Ft</u>	<u>Total</u>		<u>Sq Ft</u>	<u>\$/Sq Ft</u>	<u>Total</u>
Imaging Equipment	100	100	10,000	Imaging Equipment	100	100	10,000
Dark Room	30	100	3,000	CR scanner	10	100	1,000
Printers	10	100	1,000	Digital Archive / Server	10	100	1,000
Film Storage	150	100	15,000	Soft Copy Review Station	30	100	3,000
Film Review Station	20	100	2,000				
Total, Film	310		31,000	Total, FFDM	150		15,000



## Equipment

Equipment	<u>Film-Based Operation</u>	<u>CR Filmless Operation</u>	
<b>Capital Costs</b>			
X-Ray Equipment			
Acquire Software	-		
PACS system	-		
Additional Workstations	-		
Laser Printers	-		
Processors	4,200		
Additional Cassettes	3,000		
CR Units	-	34,800	
Network Infrastructure Costs	-	-	
<b>Total Capital Costs</b>	<b>7,200</b>	<b>34,800</b>	
Depreciation Years	5.0	5.0	
Depreciation Expense, Annual	1,440	6,960	Straight Line 12% of Capital Purchase
Maintenance, Annual	1,200	4,176	
<b>Total Annual Expense</b>	<b>2,640</b>	<b>11,136</b>	



Preforma Image Management Summary For:

Primary Care

Exams:	\$/Study			Images:	\$/ Image		
	Film Based Operation	CR Filmless Operation			Film Based Operation	CR Filmless Operation	
1,560				3,432			
Material	3.67	-		Material	1.67	-	
Facilities	19.87	9.62		Facilities	9.03	4.37	
Equipment	1.69	7.14		Equipment	0.77	3.24	
Resources	-	-		Resources	-	-	
<b>TOTAL</b>	<b>25.23</b>	<b>16.75</b>		<b>TOTAL</b>	<b>11.47</b>	<b>7.62</b>	
<b>Savings</b>		<b>(8.48)</b>		<b>Savings</b>		<b>(3.85)</b>	

Annual Expense		
	Film Based Operation	CR Filmless Operation
Material	5,723	-
Space	31,000	15,000
Equipment	2,640	11,136
<b>TOTAL</b>	<b>39,363</b>	<b>26,136</b>
<b>Annual Savings</b>	-	<b>13,226.86</b>