

Operating in the New Normal of Healthcare: Cash Management and Cost Efficiency

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Presented by:

Natalie Storm Fred Lewis



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Polling Question

What is your scope of responsibility in your current role?



Net Revenue Reporting



Third Party
Reimbursement and Cost
Reporting



Revenue Cycle



General Accounting/Finance



Other

Your Presenters



NATALIE STORM CROWE LLP

Natalie is a Senior Manager in Crowe's Healthcare Consulting practice. Natalie has over 10 years of consulting experience. Natalie specializes in the implementation of Asset Optimization programs and process improvements for her clients. She is also leading the transition to the new Crowe Finance Suite for Healthcare.



FRED LEWIS
CROWE LLP

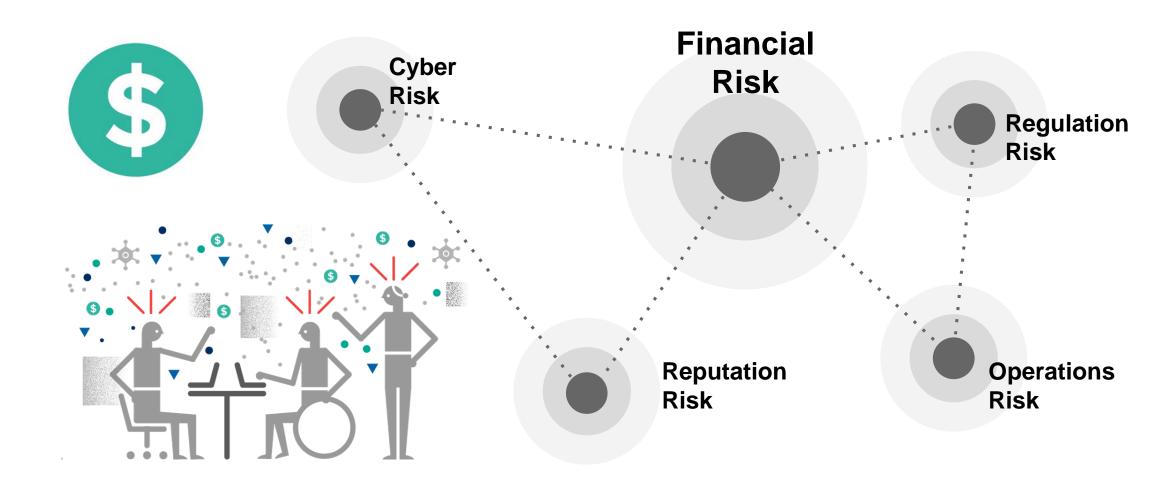
Fred is a Consulting Manager in Crowe's Healthcare Practice. Fred Lewis is a CPA with nearly 20 years experience in the healthcare industry. Fred's current primary focus at Crowe is assisting clients optimize their investments in major medical equipment. Fred also has experience in and assists on projects related to accounting/finance operations including net revenue/accounts receivable valuation.

- The New Normal: Cost Management through Asset Management
- Learning through Real Life Examples
- Being Best-In-Class

The New Normal

Cost Management through Asset Management

Financial risk is top of mind for everyone



Why Hospital Cost Structures are Growing

The causes:

- Volumes and reimbursement rates historically good allowing for careless spending
- Mission Driven Not-for-profit Culture (no accountability to shareholders or EPS)
- Field of dreams (build it and they will come)
- Failure to apply process and utilize data analytics for decisions

The result:

- Too many people
- Too many assets
- Too much capacity
- Too much technology

The balance between margin and care



Care

- Increase access (capacity)
- Increase quality





Margin

- Increase billable encounters
- Minimize delivery costs



Improve margins without sacrificing quality and access



Build consensus between financial and clinical leaders

Assets are the center of the cost universe



Overspend at the asset level is going to produce overspend in many other parts of the business

The Solution: Data Analytics and Asset Optimization

Asset Optimization involves using asset-level data analytics to maintain a high level of patient care but also minimize the asset cost structure

Using asset-level performance analytics like this:

- Utilization rate
- Financial contribution
- Volume Trend
- CPT/Payor composition
- Delivery Cost per billable encounter

When making decision on topics like these:

- Capital deployment
- Adding/eliminating assets
- Determining levels of technology
- Structuring service agreements
- Assessing service lines
- Developing staffing levels



Polling Question

How have your company's cost cutting initiatives changed as a result of the pandemic?



Increased significantly



Increased slightly



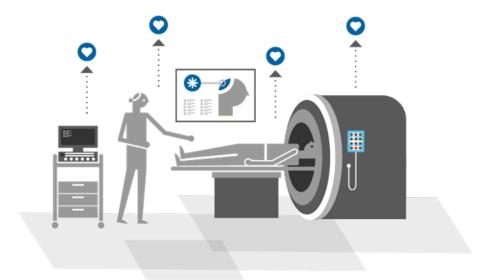
No Change



Decreased

Learning through Real Life Examples

Using Data Analytics to simplify Capital Planning, Deployment and Capacity Analysis



The Challenge

- Capital Prioritization without data
- Subjective versus objective capital decisions
- Physician pressure for newest technology
- Vendor Influenced commitments
- Unaligned staffing models
- Excess equipment maintenance costs

The Solution

Discreet cost analysis of diagnostic and therapeutic assets matched with modality specific utilization and payment data.

The Result

Available analytics to acquire and deploy the right equipment at the right time at the lowest cost and achieves goals for margin and patient access.

Case Study: Adding 3 DaVinci Robots without Data!

The Department of Surgery of a large Academic Health Center was pressuring hospital leadership to acquire 3 DaVinci robot systems through an operating lease. The robots were to create improved quality for patients, serve as a teaching aid to residents and be a recruiting tool for physician recruitment.

The Department of surgery is applying a lot of pressure to acquire 3 additional robots for our specialists. We do not have capital to acquire but we have a good lease proposal. We really do not need them for care but if we fail to advocate for them it will create a lot of ill will.

Finance does not recommend we move forward with this to acquire the DaVinci robots, but they always say no to everything. They cannot provide any compelling data and we really want to ensure our good relationship with the Department Chairman. I am approving the request.

We have a \$4M capital request for 3 new DaVinci robots. This will add \$1.5M in additional annual operating expense through leases and labor and no additional volume or reimbursement. We do not have historical performance asset data but we would not recommend purchase based on the surface economics.







Case Study: Adding \$6M of Capacity Without Investing \$6M

We have 3 months backlog on Mammo appointments. 10 new mammo systems would add the capacity we need to solve the backlog.



We have a \$6M capital request for 10 new mammo assets. This will mean \$10M+ in additional annual operating expense. What does the asset data show us?



Case Study: Adding \$6M of Capacity Without Investing \$6M (Continued)

We have 3 months backlog on Mammo appointments. 10 new mammo systems would add the capacity we need to solve the backlog. Asset Utilization data shows us we have capacity with our existing assets and it's our scheduling habits that are impacting availability. We can increase billable encounters without an increase in capital and operating expenses.

We have a \$6M capital request for 10 new mammo assets. This will mean \$10M+ in additional annual operating expense. What does the asset data show us?







Polling Question

To what extent is asset utilization data used during your capital planning process today?



Asset utilization data is always used when making capital decisions



Asset utilization data is sometimes used when making capital decisions



Asset utilization data is never used when making capital decisions



I don't know enough about our current process

Being Best-In-Class

Building a Data-Driven Asset Optimization Platform

- 1. Prepare Comprehensive Asset Inventory
- 2. Develop Asset Cost Structure Profiles

- 3. Assign Asset Encounters
- 4. Create Standard Reporting to Convert Data to Actionable Business Intelligence



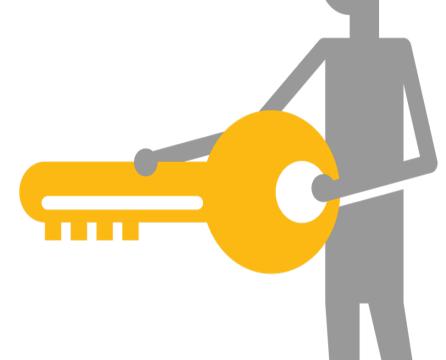
Asset Optimization enables two behaviors that help improve both margin and care

Unlocking capacity before deploying capital

- Getting inundated with requests for equipment
- · We want to understand our utilization and capacity
- We need insights in place and ready to go when starting to assess the capital requests

Managing P&L at the asset level

- We have decent margins now, but the storm clouds are brewing
- We want to make sure our cost structure is aligned with each asset's productive output.

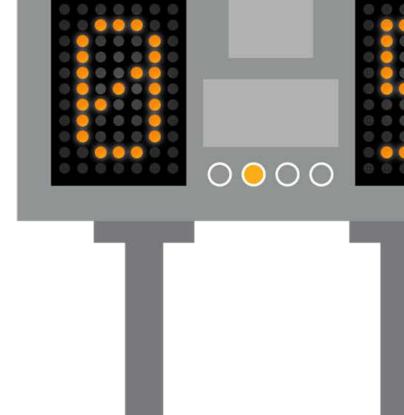


1. Unlocking capacity before deploying capital

Building	Department	Modality	Make	Model	In Svc Date	Age (yrs)	Vol/mo	Max Cap/mo	Util%
Platinum Hospital - Northeast	Radiation Oncology	CT-Simulator	Siemens	Somatom Senation Open	3/1/04	15.0	10	207	5%
Platinum Hospital - Main	South Tower Imaging	CT-Fixed	Siemens	Somatom Definition AS 128	6/4/06	12.7	202	2,311	9%
Platinum Hospital - Northwest	CT	CT-Fixed	GE	Lightspeed QXI 4	12/8/04	14.2	17	184	9%
Platinum Imaging Center - Westgate	Imaging	CT-Fixed	GE	Lightspeed 16	10/31/06	12.3	61	582	11%
Platinum Health Center - Westgate	Radiology	CT-Fixed	Toshiba	Aquilion 64	9/1/12	6.5	163	1,065	15%
Platinum Imaging Center - South	Imaging	CT-Fixed	Toshiba	Aquilion 32	8/1/05	13.6	99	438	23%
Platinum Northeast Cancer Center	Radiation Oncology	CT-Simulator	Philips	BRILLIANCE BIG BORE	6/1/12	6.7	49	207	24%
Platinum Hospital - Central	Radiology	CT-Fixed	Siemens	Somatom Definition AS 128	9/8/15	3.5	355	1,446	25%
Platinum Hospital - Southwest	Radiology	CT-Fixed	GE	Lightspeed VCT 64	2/27/07	12.0	571	2,160	26%
Platinum Hospital - Northeast	CT	CT-Fixed	Siemens	Somatom Definition Flash 320	10/15/12	6.3	956	2,880	33%
Platinum Hospital - Main	CT	CT-Fixed	Siemens	Somatom Definition AS 64	9/24/04	14.4	384	1,041	37%
Platinum Hospital - Main	EC	CT-Fixed	GE	Revolution EVO 128	8/28/17	1.5	1,102	2,880	38%
Platinum Imaging Center - West	Imaging	CT-Fixed	Toshiba	Aquilion Prime 160	1/7/10	9.1	233	588	40%
Platinum Hospital - Southwest	Radiology	CT-Fixed	Siemens	Somatom Definition AS 64	6/25/17	1.7	983	2,160	45%
Platinum Hospital - Main	EC	CT-Fixed	GE	Revolution EVO 128	7/1/17	1.6	1,411	2,880	49%
Platinum Medical Center - Comer	Imaging	CT-Fixed	Siemens	Somatom Definition AS 64	7/1/07	11.6	367	747	49%
Platinum Hospital - Central	Radiation Oncology	CT-Simulator	Philips	Brilliance 16	4/29/10	8.8	109	207	52%
Platinum Hospital - Northwest	CT	CT-Fixed	Siemens	Somatom Definition AS+ 128	4/1/10	8.9	534	987	54%
Platinum Medical Center - Bloomington	Imaging	CT-Fixed	Siemens	Somatom Definition AS 64	6/6/07	11.7	322	587	55%
Platinum Imaging Center - Central	Imaging	CT-Fixed	GE	Lightspeed VCT 64	7/1/05	13.6	613	1,077	57%
Platinum Outpatient Center - Northeast	Imaging	CT-Fixed	Siemens	Somatom Definition AS 64	8/19/05	13.5	593	1,035	57%
Platinum Cancer Center - Northeast	Radiation Oncology	CT-Fixed	GE	Lightspeed 16	3/1/08	11.0	151	260	58%
Platinum Hospital - Main	СТ	CT-Fixed	Siemens	Somatom Sensation 10	5/1/04	14.8	385	656	59%
Platinum Hospital - East	СТ	CT-Fixed	GE	Lightspeed VCT 64	1/8/07	12.1	370	621	60%
Platinum Hospital - South	EC	CT-Fixed	GE	Lightspeed VCT 64	10/4/10	8.4	1,287	2,160	60%
Platinum Hospital - South	Imaging	CT-Fixed	GE	Lightspeed VCT 64	10/25/06	12.3	683	1,080	63%
Platinum Hospital - Central	Radiology	CT-Fixed	GE	Lightspeed QXI 4	3/4/05	14.0	159	230	69%
Platinum Hospital - Central Imaging	Imaging	CT-Fixed	Siemens	Somatom Sensation 16	3/26/04	14.9	550	690	80%
Platinum Hospital - East	СТ	CT-Fixed	Siemens	Somatom Definition Flash 320	11/19/09	9.3	1,820	2,160	84%
Totals and Averages						9.7	14,539	33,526	43%

2. Manage P&L at the asset level

Without asset data analytics, your P&L is more like a scoreboard – you know if you're losing but you don't know why.





2. Manage P&L at the asset level

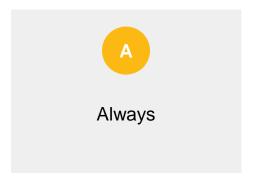
With asset data analytics, you have a P&L at the asset level—which enables you to maximize productive output at the optimal cost structure.

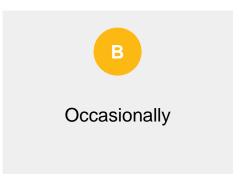
		Avg			12mo Vol	Acq	Svc		Avg.			
Modality	Age (yrs)	Vol/mo	Max Cap/mo	Util%	Trend	Cost/mo	Cost/mo	TCO/mo	Reimb	Rev/mo	Net Contr/mo	Rev/Exp
XR-General Rad	14.3	198	828	24%	0.3%	\$0	\$595	\$595	\$55	\$10,890	\$10,295	18.3
CT-Fixed	9.2	42	324	13%	-3.9%	\$0	\$9,800	\$9,800	\$363	\$15,246	\$5,446	1.6
XR-BMD	12.0	188	645	29%	-4.6%	\$0	\$150	\$150	\$52	\$9,776	\$9,626	65.2
MR-Mobile	3.2	134	241	56%	2.1%	\$55,000	\$0	\$55,000	\$336	\$45,024	-\$9,976	0.8
US-General	4.6	122	392	31%	-5.6%	\$250	\$650	\$900	\$127	\$15,494	\$14,594	17.2
PET-CT-Mobile	2.7	18	39	46%	-0.5%	\$23,500	\$0	\$23,500	\$2,009	\$36,162	\$12,662	1.5
XR-Mammo	4.9	112	690	16%	-2.8%	\$2,308	\$3,500	\$5,808	\$135	\$15,120	\$9,312	2.6
	7.3	814	3,159	26%	-0.7%	\$81,058	\$14,695	\$95,753	\$181	\$147,712	\$51,959	1.5

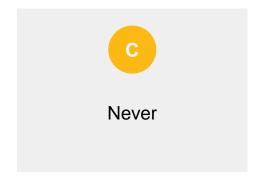
Modality	Age (yrs)	Avg Vol/mo	Max Cap/mo	Util%	12mo Vol Trend	Acq Cost/mo	Svc Cost/mo	TCO/mo	Avg. Reimb	Rev/mo	Net Contr/mo	Rev/Exp
US-General	8.4	222	392	57%	0.7%	\$0	\$737	\$737	\$140	\$31,080	\$30,343	42.2
XR-General Rad	5.6	618	920	67%	2.6%	\$0	\$606	\$606	\$48	\$29,648	\$29,042	48.9
US-General	2.0	178	392	45%	0.2%	\$1,978	\$460	\$2,438	\$140	\$24,967	\$22,529	10.2
CT-Fixed	11.3	232	588	39%	-1.3%	\$0	\$13,367	\$13,367	\$293	\$67,830	\$54,463	5.1
MR-Mobile	1.9	212	241	88%	7.5%	\$55,000	\$0	\$55,000	\$334	\$70,808	\$15,808	1.3
NM-Gamma	8.4	99	185	54%	3.3%	\$0	\$2,896	\$2,896	\$323	\$31,977	\$29,081	11.0
	6.3	1,560	2,718	57%	1.9%	\$56,978	\$18,066	\$75,044	\$164	\$256,309	\$181,265	3.4

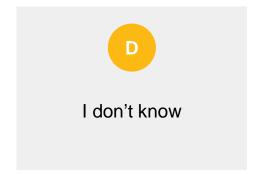
Polling Question

How often is a hindsight review performed on significant capital investments (proforma audit)











Thank You

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