Defining Value in Pathology Strategies for Survival

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Key Learning Objectives

- To learn how an integrated laboratory service can leverage quality management thinking, Lean and ISO to improve testing service levels and capabilities that provide enhanced value to clinician practices
- To understand the critical role of designing and implementing systems and subsystems of management that focus on lab quality and cost control
- To understand the V-(alue) metrics of importance in defining the value of the medical laboratory and the pathologist in the changing clinical care continuum

Disruptive Changes

- Reimbursement
 - Fee for service on way out
 - Bundled payments, capitation, P4P
- Physician practice models
- · Genetic based personalized medicine
- · Lab economies of scale vs value
 - IPD decline, OPD growth
 - Access to OPD and outreach















The Value (V) KPI Metric

- The currency of healthcare is now \$\$ rather than time -John Waugh
- Are you still pursuing TAT as your lab's measure of success?

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Dev	Taxo viation Classif	onomy ication Cateo	gories
	Main Categories	Number of Subclassification Categories	
	Order Defects	36	
	Specimen Defects	13	
	Testing Defects	38	
	Report Defects	12	
	System Online Incident Report (RadicaLogic)	3	
	Complaints	4	
	Safety	2	
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DM Metrics June 2013-2014									
LAB Division	No. Daily Metrics in 1 yr	No. Long term >6 mo	No. Short term 1-6 mo	No. derived process improvements	Q	т	I	Ρ	s
Core Lab	14	12	2	8	1	5	6	-	2
Lab Support	2	1	1	1	1			1	
Chemistry	6	6	-	4	3	2	•		1
Micro/Sero	9	9	-	6	2	1	•	6	-
Transfusion	5	5	-	2	-		5	-	-
Surgical	19	11	8	17	10	4	4	-	1
Cytology	4	4	-	1	1	2	-	-	1
Molecular	5	5	-	3	4			1	-
Total	64	53	11	42	22	14	15	8	5
No. Unique Metrics/Year QTIPS Domain Usage									











			2012	2013
Molecular Profile Targeted Therapeutic		Cost of Treatment	Pharma Cost Savings	Pharma Cost Savings
EGFR (Gefitinib)	lung	\$72,000	\$14,184,000	\$14,832,000
ALK FISH (Crizotinib)	lung	\$72,000	\$12,600,000	\$13,248,000
BRAF (Ipilimumab)	melanoma	\$120,000	\$1,560,000	\$2,880,000
Her2 FISH (Herceptin)	breast	\$70,000	\$12,180,000	\$14,560,000
KRAS (Cetuximab)	colon	\$125,000	\$5,750,000	\$4,750,000
Testing cost			(\$253,994)	(\$243,551)
Reimburse			\$173,881	\$176,796
Pharma cost savings (Neg tests X cost Rx)		\$46,274,000	\$50.270.000	

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LOS













Test Utilization Management Cost-Avoidance				
Test	Vendor Claim	CETAC Determination	Cost and Reimbursement	Potential Cost Avoidance
Assay 1	A genomic profile that helps physicians make treatment decisions.	NOT AVAILABLE Reasons: -No FDA approval -Not in NCCN guidelines -Not for HFHS Trials	Cost: \$5800 and \$7500 Reimbursement: \$0 LOSS: \$5800-\$7500/test	>\$10 million/year In HFHS, 2000 cases/yea will qualify for 'genomic testing for potential targets' This will be in addition to routine pathological diagnostic work-up.
Assay 2	Quantitative assessment of the likelihood of distant recurrence in patients diagnosed with ER+ node-negative breast cancer.	NOT AVAILABLE Reasons: -No FDA approval -Not in NCCN guidelines	Cost: \$3500 Reimbursement \$150 LOSS: \$3350/test	\$3.5 million > 300 casesly of breas carcinoma are diagnosed in HFHS. A cohort of >1000 patients may qualify per vendor claim.
Assay 3	Aid in the classification of the tissue of origin and tumor subtype in conjunction with standard clinical and pathological assessment by a qualified physician.	NOT AVAILABLE Reasons: - No FDA approval - Not in NCCN guidelines	Cost: \$4750 Reimbursement: \$0 LOSS: \$4750/test	>\$1.4 million/year Per vendor claim, teat it to be used in 20 % of mathatatic cases that nemain unclear. If we assume 30% malignancias are metastatic at disprotas then that has 2000 cases/(i.e. 19% of the that 2003) that may qualify per vendo criteria.
Assay 4	Tests for *** protein and **** may be used as <u>supplemental</u> tests to help establish a diagnosis of Alzheimer Disease.	NOT AVAILABLE Reasons: • No FDA approval • Not required for diagnosis	Cost: \$1160 Reimbursement: \$52 LOSS: \$1108/test	>\$110,000/year Per clinical expert, the utilization of this test is expected to be be around 100 cases/year.





Value Metrics Won't always be cost and productivity but.... Downstream episode of care efficiencies and clinical outcomes







