Era of Shrinking Lab Budgets, PAMA Price Cuts...

Why Quality Management Is Your Lab's Best Strategy to Survive and Thrive

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Let's Talk QMS for a Moment...

- Quality Management System (QMS)
- A QMS is a set of policies, processes and procedures required...
- ...for planning and execution (production/development/service)...
- ...in the core business area of an organization (i.e., areas that can impact the organization's ability to meet customer requirements).
- ISO 9001 is an example of a QMS.

ISO 9001:2015

Primary Elements of a QMS

- Recognize interested party requirements including Licenses to Trade, guidelines, customer requirements, and the chosen management system standard(s).
- Ensure that all requirements have been met.
- Confirm that employees receive applicable training in the quality system requirements.
- Determine processes, their interaction, inputs and outputs.



More QMS Attributes

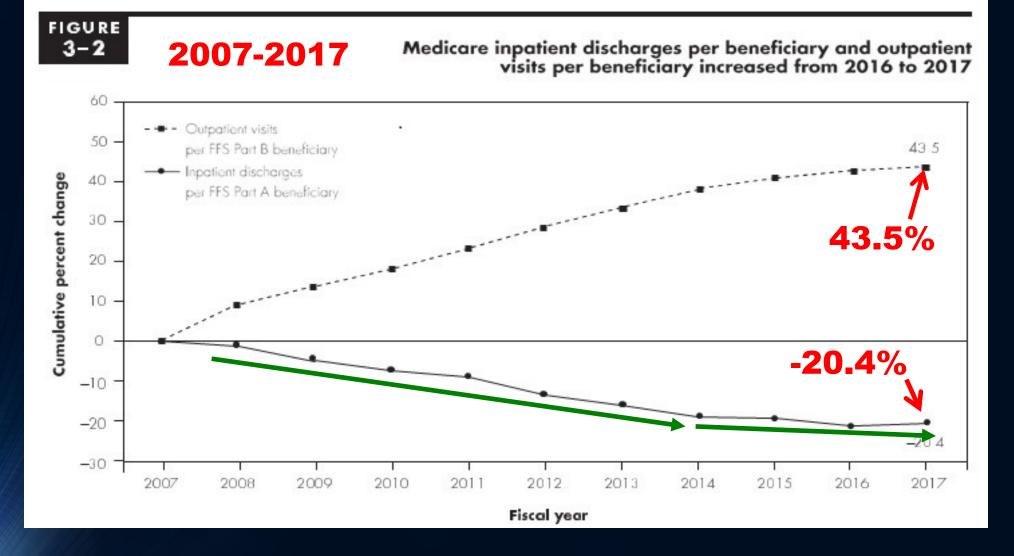
- Produce records or evidence that system requirements have been met.
- Measure, monitor and report the performance of the QMS.
- Plan changes to the QMS and take actions to address risks and opportunities as a result of changes.
- Perform internal audit to analyze the QMS and correct nonconformities.
- Continually improve the QMS.



Why These Changes?

Proactive Care... not Reactive Care

- Keep patients out of hospitals!
- Detect disease early, when easier to treat.
- Actively help patients manage their chronic diseases.
- Use incentives to encourage positive lifestyle choices and activities.
- Step-by-step adoption of precision medicine to improve patient outcomes.



U.S. is shifting care away from hospitals.

Inpatient procedures shrinking by single digits each year.

Outpatient procedures growing at double-digit rates annually.

Source:
MedPac Report to Congress:
Medicare Payment Policy, March 2019

Healthcare's Disruptors

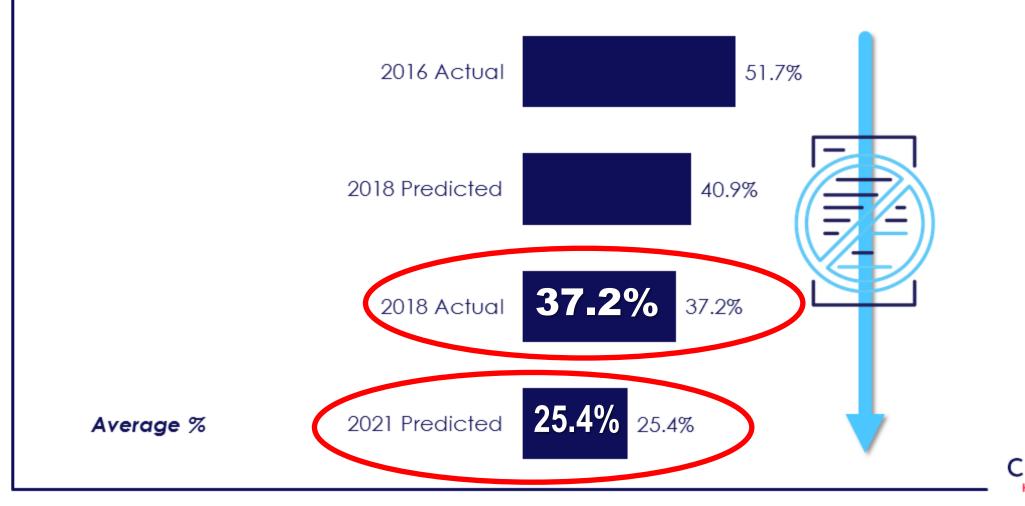
- Proactive care and what it means
- Transition from fee-for-service to value-based methods
- Ongoing consolidation among all categories of providers

We All Know the Negative Factors Associated with Fee-For-Service

- FFS provides little or no reward for delivering holistic and value-based care.
- FFS incentivizes doctors to order unnecessary tests and procedures to generate more income, encourages them to practice "defensive medicine."
- FFS leads to an increase in overall healthcare costs over time since patients and providers are not fiscally accountable.

Decline of Fee-for-Service Accelerates

Proportion of Business Aligned with Fee-for-Service



A Word on MACRA... Understanding MIPS & APMs

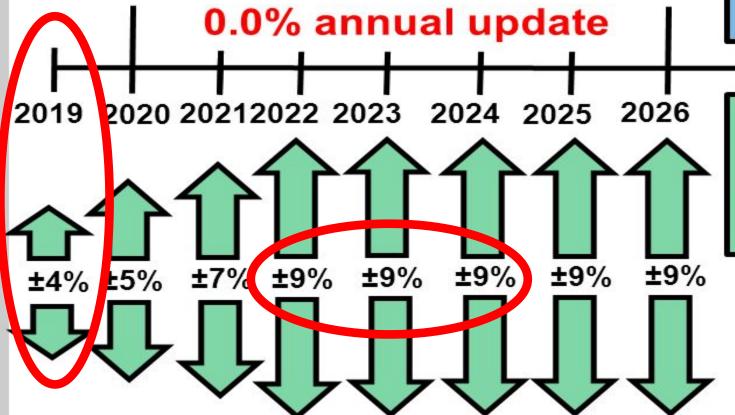
- Medicare Access and CHIP Reauthorization Act of 2015 (MACRA).
- Replaces SGR formula.
- New payment model for physician professional fees; first data baseline was 2017.
- Merit-Based Incentive Program (MIPS).
- Advanced Alternative Payment Models (APMs).
- Speeds transition away from Fee-for-Service.

MIPS OR APM

APM: Bonus of 5% of PFS payments annually

APM

0.75% annually; no bonus payments



MIPS

0.25% annually, PLUS penalties/bonus up to ± 9%



Hospital/Health Networks: Fewer "Haves," More "Have Nots"

- Navigant study of 2,000 rural hospitals: "21% are at high risk of closing based on their total operating margin, days cash-on-hand, and debt-to-capitalization ratio. This equates to 430 hospitals across 43 states that employ 150,000 people!"
- Modern Healthcare Metrics: 53% of all stand-alone hospitals in the US suffered operating losses during each of the last five years (2012 to 2017). Conversely, about half (26%) of health system-affiliated providers have lost money.

Healthcare's Disruptors

- Proactive care and what it means
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Consolidation of Care Delivery Is Disruptive Trend

- Integrated healthcare networks that deliver seamless, integrated clinical care.
- Accountable Care Organizations (ACOs)
- Patient-Centered Medical Homes (PCHMs)
- Independent Physician Organizations (IPAs)
- Health insurers acquiring physician practices.

Look at Consolidations!

2017

- Aetna and Humana failed
- Anthem and Cigna failed
- Ascension (the largest Catholic health system in the U.S.) announced plans to purchase Illinois' largest Catholic system, Presence Health.

2018

- Advocate-Aurora Merger Complete (\$11 billion)
- CVS-Aetna (\$70 billion)
- Cigna-Express Scripts (\$71 billion)
- Beth Israel Deaconness Medical Center-Lahey Health merger
- Dignity Health and Catholic Health Initiatives merging.

Clinical Laboratory, Anatomic Pathology Disruptors

- Government and private payers
- Regulatory Changes
- Eroding laboratory finances

Lab, Pathology Disruptors

- Government and private payers
- Regulatory Changes
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What's Disruptive Today With Payers, Reimbursement

- PAMA price cuts to Medicare Part B lab tests.
- Medicaid, private payers enacting similar lab test price cuts.
- Payers narrowing networks.
- Payers' denying coverage for tests; prior-authorization requirements.
- Tougher government and private payer audits of labs; big recoupment demands.

What's Disruptive Today With Payers, Reimbursement (cont.)

- Payers want more complete data sets from labs.
- Payers want providers that help their HEDIS scores and STAR scores for Medicare Advantage.
- Risk adjustment at health plan level and at provider level is opportunity for labs/diagnostic providers to add value.
- These are opportunities for your labs to help health insurers with enriched data—and be paid for that data!

Lab Disruptors

- Government and private payers
- Regulatory Changes
- Eroding laboratory finances

Increased Compliance Cost, More Risk

Regulations as Disruptors

- Support Act and EKRA: conflicts with Anti-Kickback Law
- FDA's oversight of LDTs, genetic tests.
- CMS continues to struggle with coverage guidelines and reimbursement for new assays.
- Medicaid in many states cutting lab test reimbursement.

Lab Disruptors

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Ongoing Financial Pressures

Lab Revenue, Budget Issues

- PAMA Medicare Lab Test Price Cuts.
- Medicaid, insurers following Medicare with fee cuts.
- Hospitals and health systems trimming lab budgets.
- Restrictive coverage guidelines for lab tests.

Opportunities for Clinical Labs, Anatomic Pathology Groups

- Operational
- Clinical Lab 2.0 to Add Value
- Precision Medicine, Population Health

Third, Lab Opportunities

- Operational
- Clinical Lab 2.0 to Add Value
- Precision Medicine, Population Health

Aligning Labs with Healthcare's Needs

Attributes of 'New' Lab

- Speedier work flow, shorter cycle times.
- Attacks non-value added processes.
- Continuously improves.
- Sophisticated use of informatics.
- Collaborates with providers to deliver more value from lab test data.
- Contributes to measurable improvement in patient outcomes, lower cost of care.

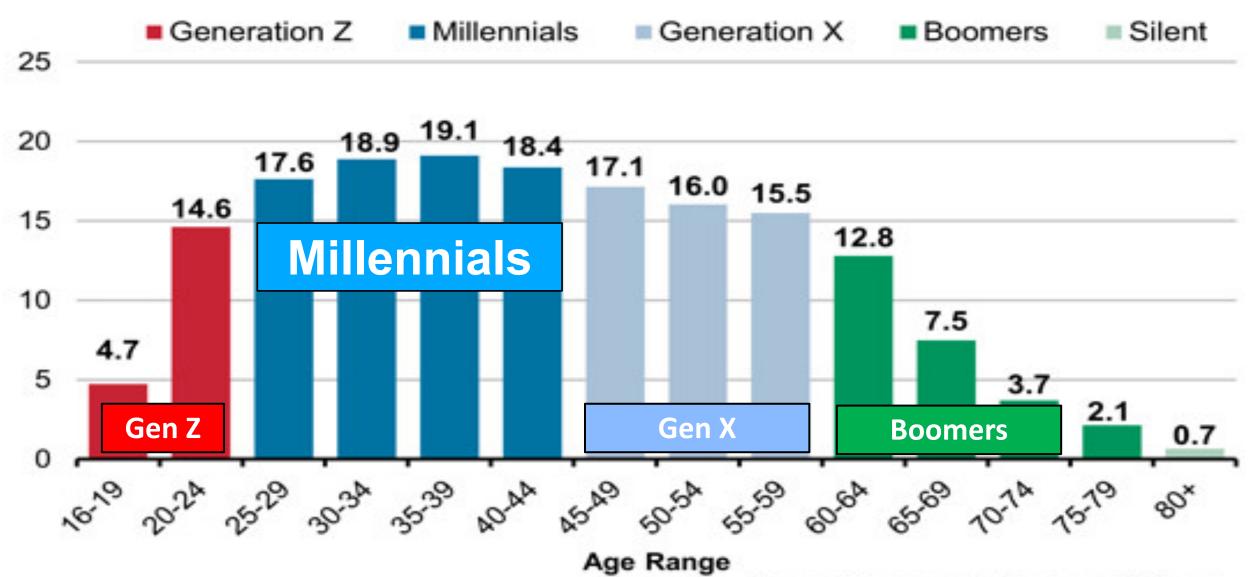


Here Come the Millennials!



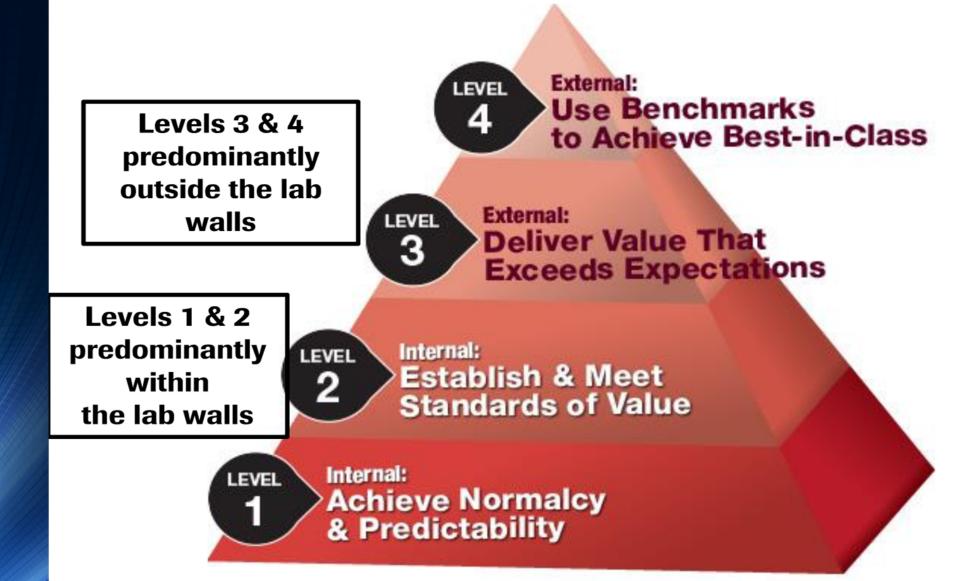
The Workforce in 2025

Projected size of U.S. labor force (in millions) by age, for the year 2025



Source: Department of Labor | WSJ.com

The Four Levels of the Lab Value Pyramid



Lab Opportunities

- Operational
- Clinical Lab 2.0 to Add Value
- Precision Medicine, Population Health

Attributes of Lab 1.0 vs. Lab 2.0

Clinical Lab 1.0: Transactional

Clinical Lab 2.0: Integrative

SICK CARE

- Receive Test Sample
- Result Test Sample

HEALTH CARE

- Population Health using Lab data
- Total Cost-of-Care leveraging Lab data
- Time-to-Diagnosis
- Optimization of: diagnosis, therapy, monitoring
- Care Optimization
- Screening Optimization

DISEASE SCREENING

- Protocol-driven
- Scheduled by Treating Physician
- Lab is derivative

RISK MANAGEMENT

- Identification of Risk
- Real-time tracking of Risk
- Escalation/De-escalation of Acuity

Attributes of Lab 1.0 vs. Lab 2.0

Clinical Lab 1.0: Transactional

Clinical Lab 2.0: Integrative

- Managed by Treating Physician
- Lab is Derivative

WELLNESS PROGRAMMING WELLNESS PROGRAMMING

- Gaps-in-Care closed using Lab data
- Outcomes of program using Lab data

Predictive Analytics

What will happen? When? Why?

PAYMENT MODELS

- Lab is a Commodity
- Value is Cost-per-Test

PAYMENT MODELS

Value of Lab for Total Cost-of-Care

Lab Opportunities

- Operational
- Clinical Lab 2.0 to Add Value
- Precision Medicine, Population Health

Informatics, Big Data, & Labs

- Healthcare big data will address two ends of the care spectrum:
 - Analysis in support of population health management.
 - Analysis in support of personalized medicine; diagnosis and treatment of individuals.
- Lab test data is essential in support of both activities.
- Lab test data comprises 70% or more of the average patient's health record.

METHOD: New Mexico Population and Pregnant with Medicaid





ONE MCO PILOT AND PROJECTION

Health Condition	Measure/Outcome	2016 MCO Performance ¹	TRL Clinical Analytics Result ²	ROI
Prenatal	Timeliness of Prenatal Care NMHSD PM #5	75%	77%	\$766,766 ^{3,4}
	Post-Partum Care NMHSD PM #5	58%	60%	\$766,766 ^{3,4}
	Eroquonou of Dronatal Caro NIMIUSD DIM #6	E 60/	720/	\$766,766 ^{3,4}
	Total ROI from Prend	rtal = \$4,898	3,408!	\$1,184,851 ³
	Preterm Delivery Outcome	20%	11%	\$1,367,009 ^{2,5}
	ER Utilization (Prenatal Members Only)	33 visits per month	30 visits per month	\$46,250 ^{2,6}
Diabetes	Hemoglobin A1c Testing PM #4	82%	92%	\$766,766 ^{3,4}
	Nephropathy Screening PM #4	87%	91%	\$766,766 ^{3,4}
	ER Utilization (Diabetic Members Only)	54 visits per month	38 visits per month	\$240,000 ^{2,6}
Hepatitis C	NMHSD Hepatitis C DSIM	350 members	1,577 members	\$1,610,2084
			TOTAL	\$8,282,148

^{1.} BCBSNM Audit Review Table. http://www.hsd.state.nm.us/uploads/FileLinks/485263ae1ad040ea9d52673aef6109b4/2016_HEDIS_BCBS.pdf (Accessed: March 21, 2018)



^{2.} Results projected from pilot performed with BCBSNM Special Beginnings September 2017 through April 2018

^{3.} Assumes BCBSNM's revenue for Centennial Care is approx. \$536,736,096. Health Notes. Program Evaluation Unite. Legislative Finance Committee. January 13, 2017 https://www.nmlegis.gov/Entity/LFC/Documents/Health_Notes/Health%20Notes%20-%20Medicaid%20managed%20care%20rates.pdf

^{4.} New Mexico Human Services Department. Request for Proposals. RFP#13-630-8000-0001 Centennial Care http://www.hsd.state.nm.us/uploads/FileLinks/c06b4701fbc84ea3938e646301d8c950/Centennial_Care_RFP_and_Contract__8_28_12__FINAL_.pdf (Accessed: August 11, 2017)

^{5.} Thanh NX et al. Health Service Use and Costs Associated with Low Birth Weight-A Population Level Analysis. (2015) J Pediatr. 167(3): 551-556

^{6.} Center for Disease Control and Prevention. Health, United States, 2016. https://www.cdc.gov/nchs/data/hus/hus16.pdf#093 (Accessed: August 29, 2017)

Healthcare's transformation and labs' response...

Change Always Creates New Winners and New Losers...

Now You Know Why QMS Is Useful Lab Strategy

- Clinical labs, pathology groups must operate at lower cost, but equal or better quality.
- Labs must become better at using data to support improved patient outcomes.
 - Lean/Six Sigma labs already use real-time data to manage workflow, protect internal quality.
 - Strategy is to shift internal skillsets to helping external providers.
- Quality Management System is framework to deliver value to all stakeholders served by the lab.

Final Thoughts on Change.

We always overestimate the change that will occur in the next two years and underestimate the change that will occur in the next ten. Don't let yourself be lulled into inaction.

–Bill Gates