

A Pediatrician's Perspective on Hospital Management

Joseph H. Laver, MD, MHA
Chief Medical Officer
Professor of Pediatrics
May 17, 2015





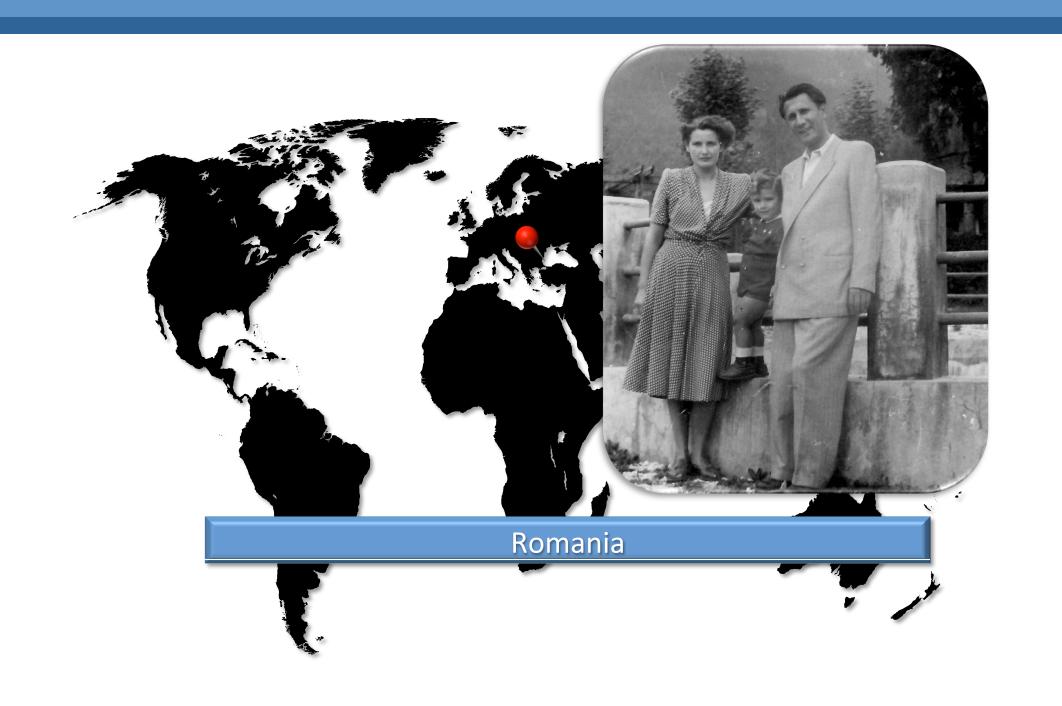


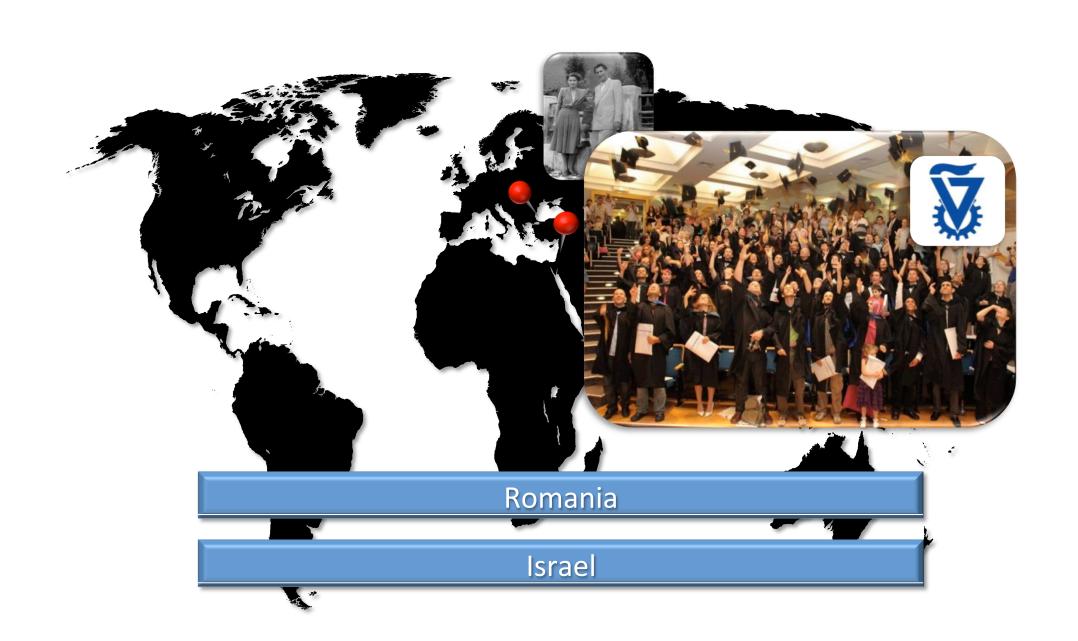


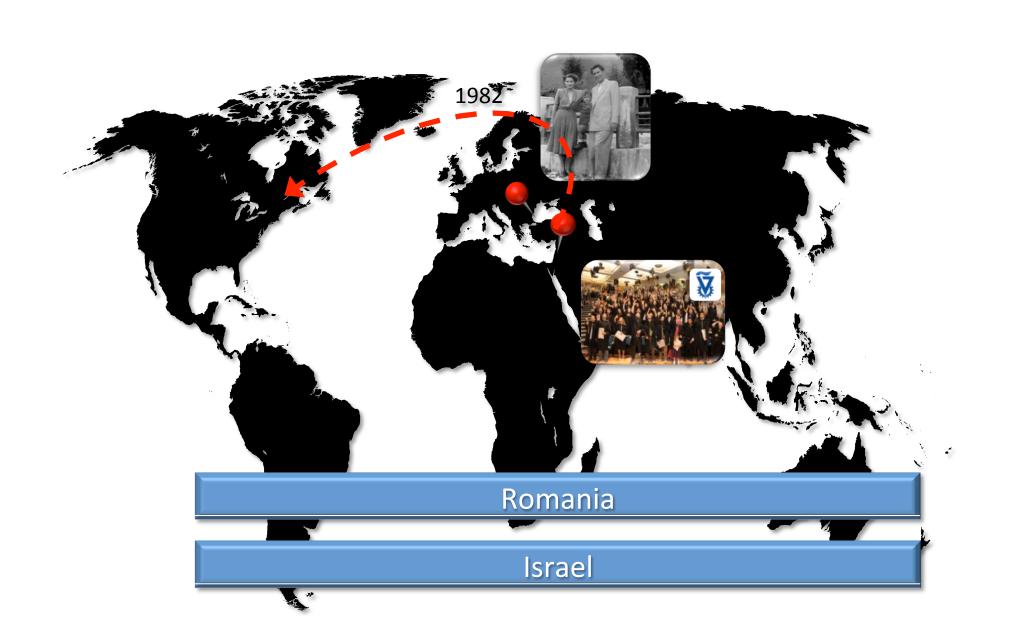
- Who am I?
- How to control cost?
- Why is it important to improve quality & safety?
- How do physicians fit in all this?
- Can we be optimistic about the future?

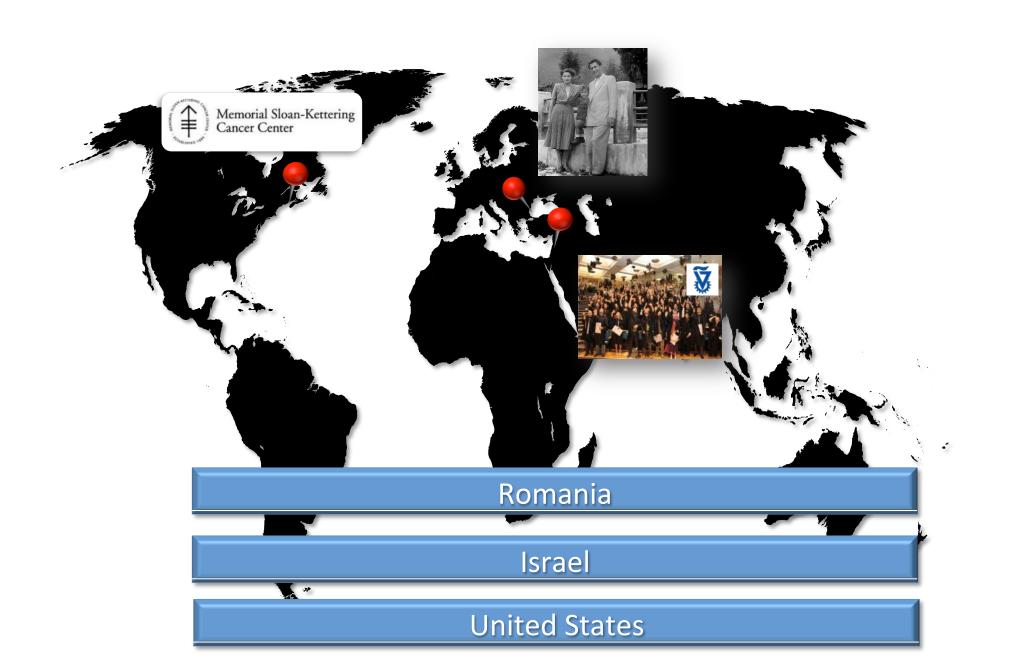
A Life Spanning over Three Continents

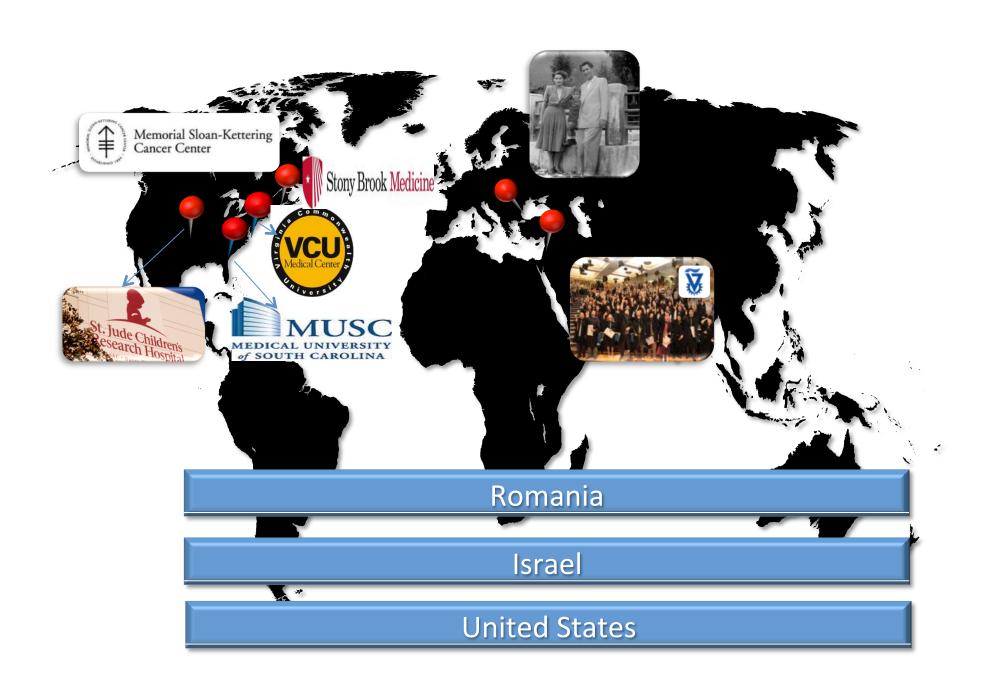












Faculty Positions



Attending Physician/Assistant Member, 1985-1989



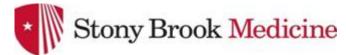
Director, Pediatric Hematology/Oncology and Professor of Pediatrics, 1989-2000



Jesse Ball DuPont Professor and Chairman Department of Pediatrics, 2000-2008

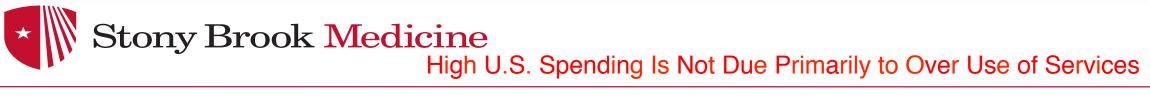


Clinical Director & Executive Vice President; Member & Endowed Chair, 2008-2013



Chief Medical Officer 2013-present

- Who am I?
- Why & how to control costs?
- Why is it important to improve quality?
- How do physicians fit in all this?
- Can we be optimistic about the future?



U.S. hospital costs are 70% higher but utilization is 30% lower than other developed countries

	Percent of GDP	Real Annual Avg Growth Rates (%) 1970-2005	Inpatient Spending per Capita (U.S. \$ PPP)	Inpatient Acute Care Days per Capita
U.S.	15.3	4.4	\$1526	0.7
OECD Median	9.1	4.1 (2.3-6.8)	\$904	1.0 (0.4-2.1)

Price of U.S. Services are Considerably Higher

Price of Services (in US Dollars)	US	France	Switzerland
Routine Office Visit	89	23	64
Cost per hospital stay	15,734	3,396	4,566
Hip replacement surgery (hospital and physician)	38,017	11,353	17,521
Coronary Artery Bypass graft (hospital and physician)	67,583	16,140	25,486

Average US generalist, income = 5x average US worker.

Average US specialist, income = 10x average US worker.

Average OECD generalist, income = 2x average OECD worker.

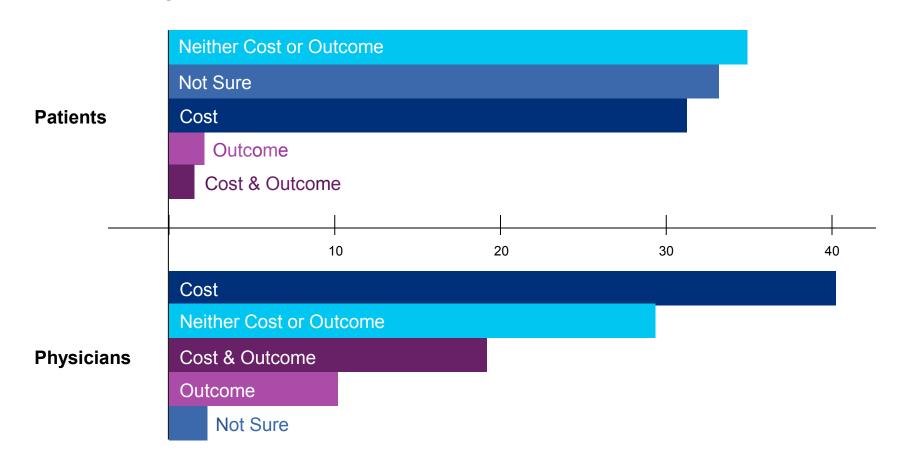
Average OECD specialist, income = 2.7x average OECD worker.

Technology Will Lower Costs and Increase Benefits of Care:

- 1. Sustaining **long-term reductions** in the cost of care will **rely more on productivity** rather than efficiency
- 2. **Productivity strategies** will require **innovative** technology
- 3. Communication and information technologies can play a major role in improving productivity
- 4. The same **technologies** can be used to **raise the benefits** of care through **personalization**, **transparency**, **self service** and other mechanisms

Stony Brook Medicine For Most Patients, "Value" is Neither Outcomes nor Cost

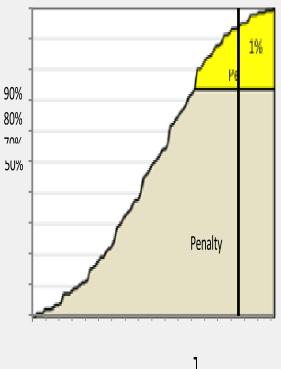
"In your own words, how would you define "value" in healthcare? Please be specific." (unaided response)





COST- WHY SHOULD PHYSICIANS CARE

		FFY 2013			FFY 2014			FFY 2015			
	Domain Weight	Domain Score	Percentile	Domain Weight	Domain Score	Percentile	Domain Weight	Domain Score	Percentile		
Domain 1 Score (PSI-90*)		Does Not Apply				35%	10.0	90th	90% ₋ 80% ₋ 70% -		
Domain 2 Score (CLABSI/CAUTI*)						65%	8.0	80th			
										50% =	
Total HAC Score							8	.7	95th		
75th Percentile Total HAC Score	Does Not Apply				7.00						
Receives 1.0% Reduction?								Yes			مممد
Estimated Annual Impact								(\$1,733,25	1)		,



- Under HACRP, hospital payments are reduced by 1.0% if hospital-specific performance on specified HAC measures grouped into domains fall within the 75th percentile (bottom 25%) of national performance.
- The table displays hospital-specific domain scores, percentile performance (100th=worst), the Total HAC Score, whether the hospital falls above the 75th percentile, and the estimated annual dollar impact for the program year. The graph displays the hospital's Total HAC Score in relation to the penalty quartile.

Size and Scale of Available Technology will be Far Beyond Anything Comprehended or Utilized to Date

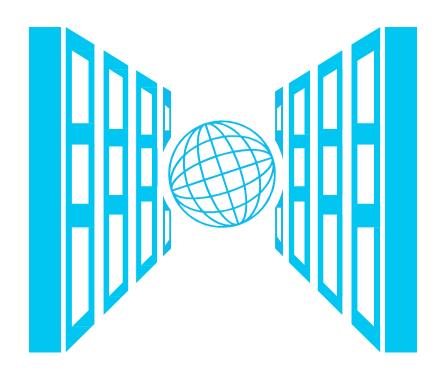
BIG DATA

PERSONAL SOCIAL

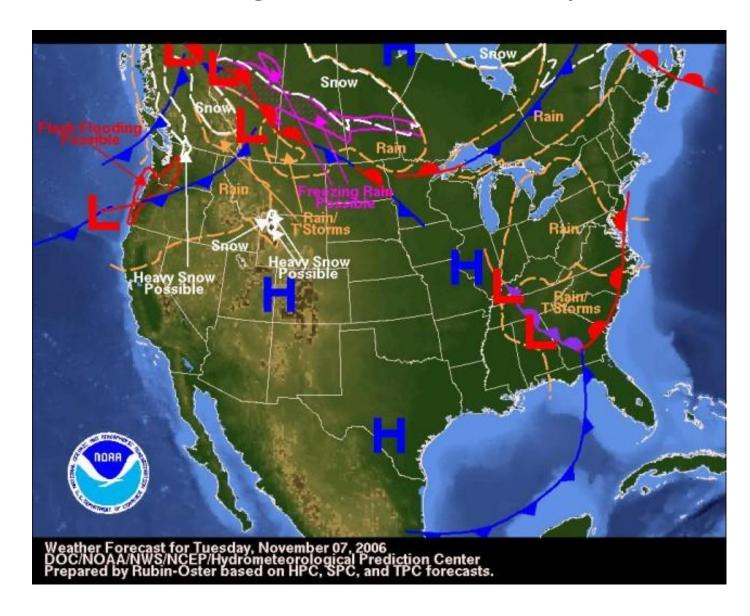
- Quantity and Velocity
- Data Supply Chain vs.
 Data Lake
- Hyperscale Hardware
- Internet of Things

Source: Accenture Technology Trends 2014; Cisco VNI Global Mobile Data Traffic Forecast 2013 – 2018 (January 2014)

In 2017, the equivalent of all movies ever made will cross the global internet every 3 minutes



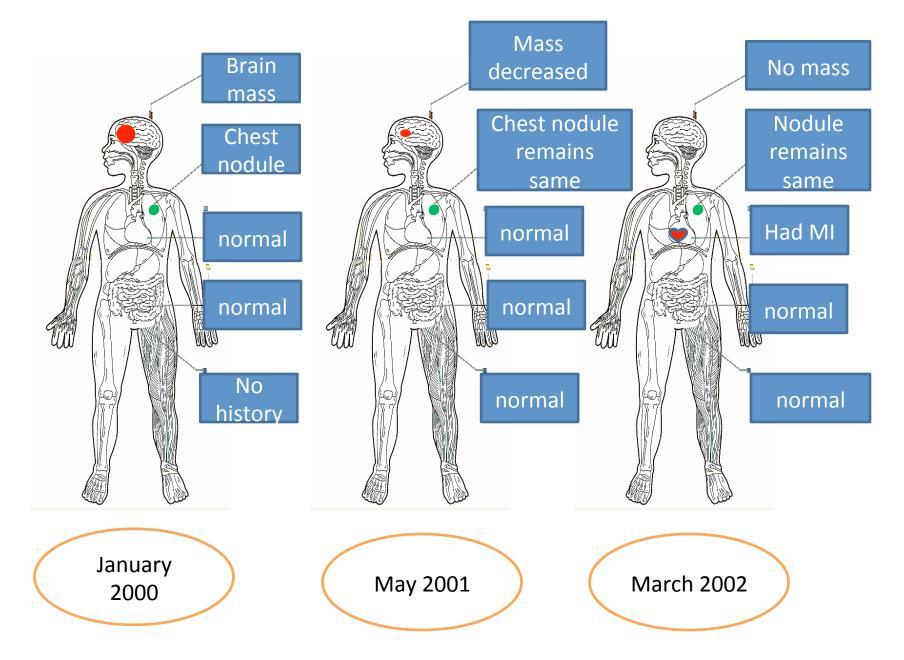
Challenge: Turn EMR into a simple Visual



Simple self-explanatory visual



Visualization of EMR

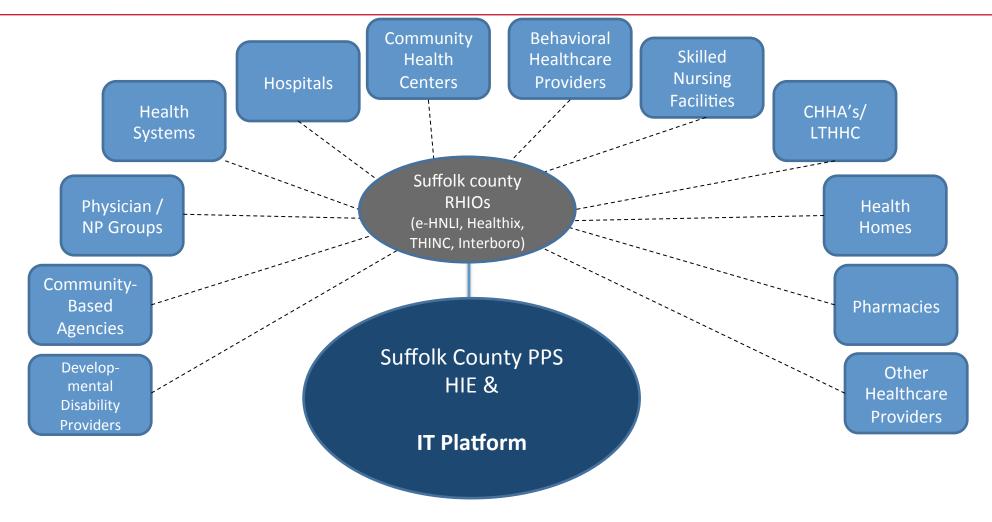


Population Health & Hospital

- Sharing data across all points of care is only way to provide coordinated care
- Data access becomes critical for patients, families, doctors, staff
- Mobile applications become more important and essential

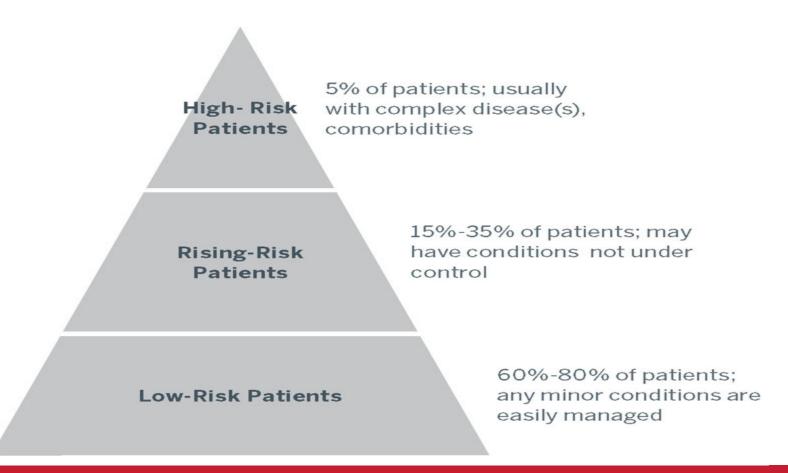


Big data: Connecting the Partners



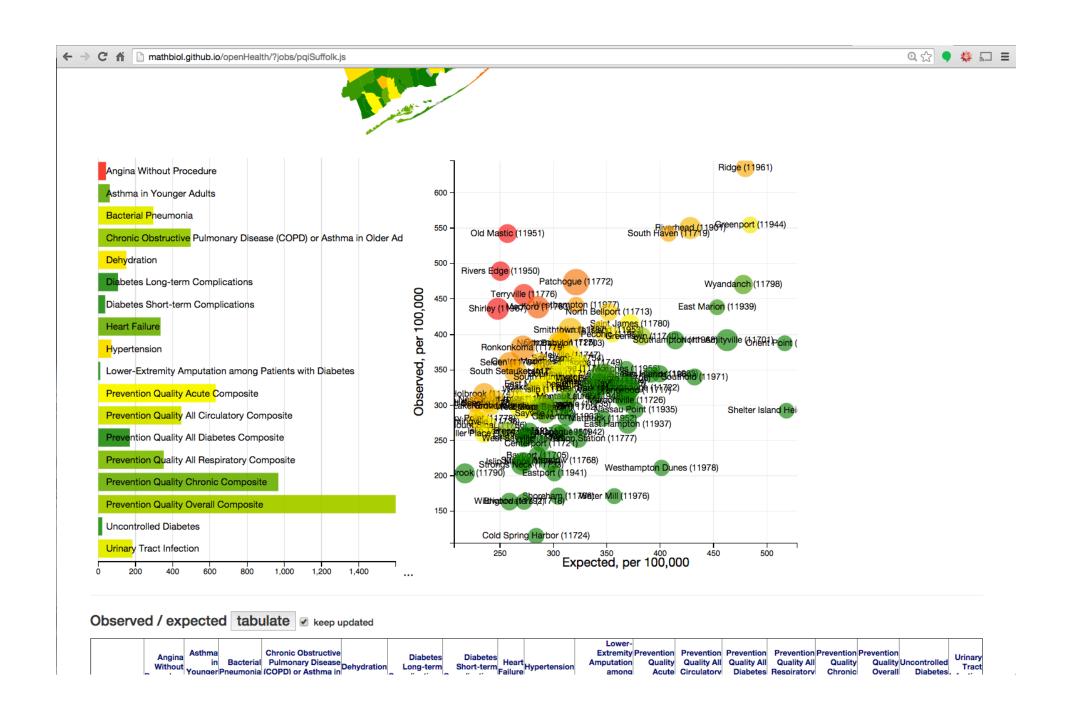
Target Three Types of Patients

Segment Care Management Models Based on Patient Care Needs

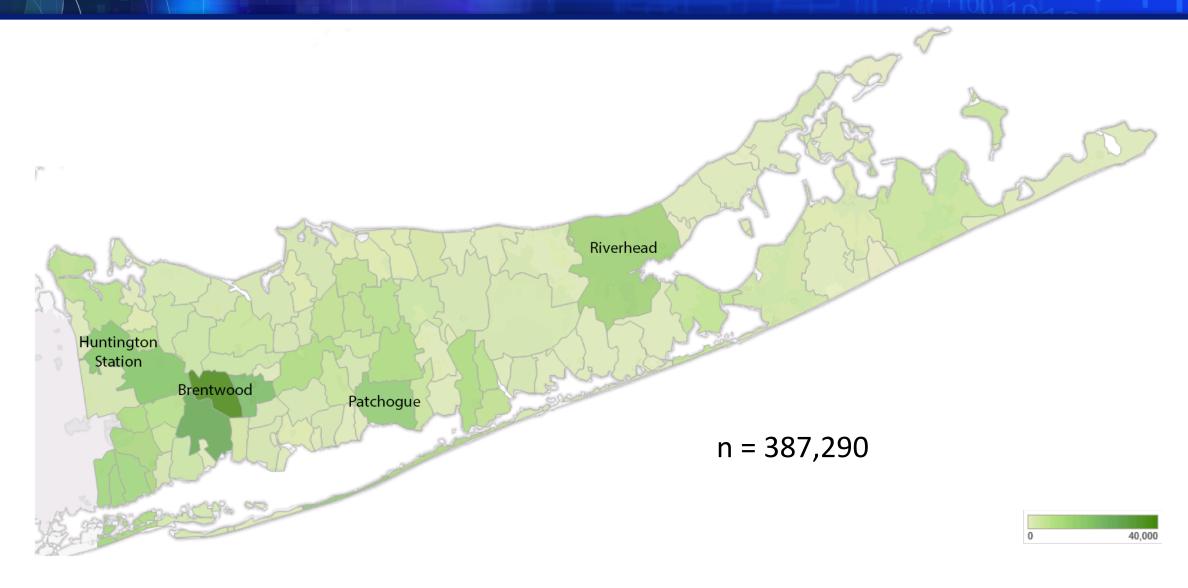


Population Health Statistics

- The county of residence in USA means a 14-year difference in life expectancy
- On the Blue Washington DC subway route, there is a 9-year difference in life expectancy between downtown and Fairfax, Virginia
- Rheumatoid arthritis & DM associated with living close to highly traveled roads

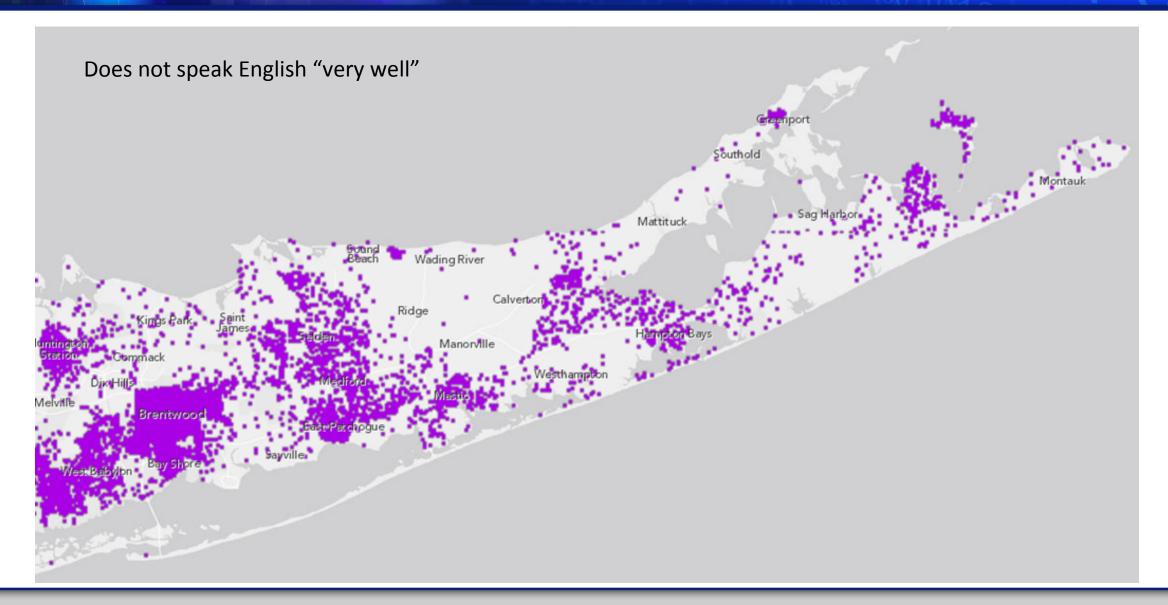


Hot Spot Map: Medicaid and Uninsured in Suffolk County





Hot Spot Map: Spanish Speakers Suffolk County



Hooking-Up at an

Affirmative-Consent

Campus? It's Complicated

When Women Become

Men at Wellesley

How Billionaire Oligarchs

Are Becoming Their Own

Political Parties









The Beggar



MAGAZINE

RESERVED

IT'S THE ECONOMY

Can You Uber a Burger?



Can Big Data Tell Us What Clinical Trials Don't?

OCT. 3, 2014

Eureka

By VERONIQUE GREENWOOD

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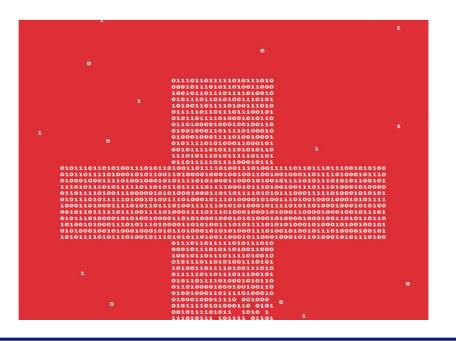
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NOW PLAYING **GET TICKETS** When a helicopter rushed a 13-year-old girl showing symptoms suggestive of kidney failure to Stanford's Packard Children's Hospital, Jennifer Frankovich was the rheumatologist on call. She and a team of other doctors quickly diagnosed lupus, an autoimmune disease. But as they hurried to treat the girl, Frankovich thought that something about the patient's particular combination of lupus symptoms - kidney problems, inflamed pancreas and blood vessels - rang a bell. In the past, she'd seen lupus patients with these symptoms develop lifethreatening blood clots. Her colleagues in other specialties didn't think there was cause to give the girl anti-clotting drugs, so Frankovich deferred to them. But she retained her suspicions. "I could not forget these cases," she says.

Back in her office, she found that the scientific literature had no studies on patients like this to guide her. So she did something unusual: She searched a database of all the lupus patients the hasnital had soon over the provious five years



Cristela Alonzo Wants to

Make America Laugh

Consumers Demand Technology Becomes Highly Personalized and Available on Their Terms

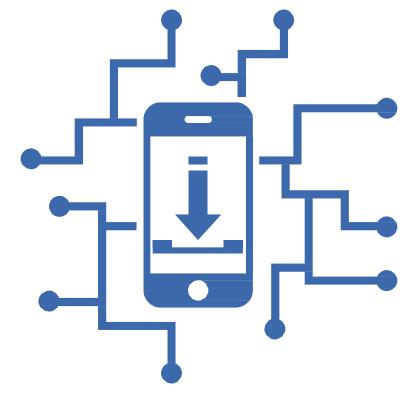
BIG

PERSONAL

SOCIAL

- Context Aware
- Augmented
- Digital

By 2018, there will be 5 billion global mobile users and 10 billion mobile-ready devices and connections



Source: Accenture Technology Trends 2014; Cisco VNI Global Mobile Data Traffic Forecast 2013 – 2018 (January 2014)

Social Tech Extending Beyond Status Updates to Content Creation, Self Service and Behavioral Change

BIG

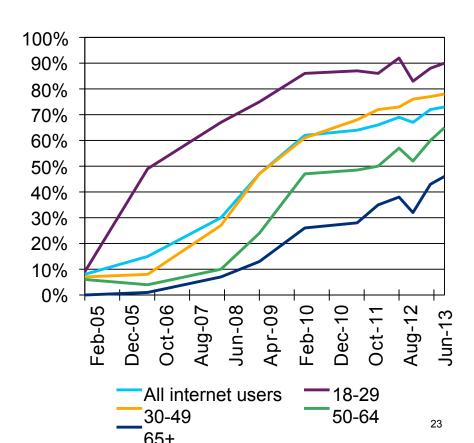
PERSONAL SOCIAL

- Community
- Self–Organization
- Crowd Source Content
- Workforce

Source: Accenture Technology Trends 2014; Pew Research Internet Project 2013

Social networking site use by age group, 2005-2013

(% of Internet users in each age group who use social networking sites, over time)

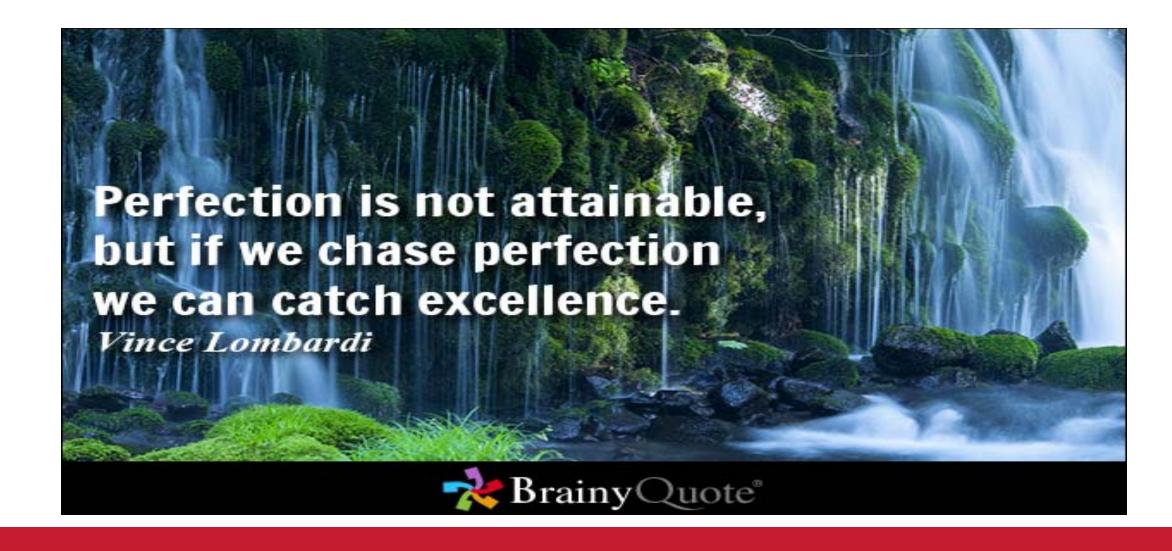


LAVER'S INSIGHTS

- Who am I?
- What's next to control costs?
- Why is it important to improve quality and safety?
- How do physicians fit in all this?
- Can we be optimistic about the future?

QUALITY AND SAFETY

- Because it is the right thing to do:
 - 1. For patients
 - 2. Providers
 - 3.Payers





FOR PATIENTS: A PROMISE OF A IDEAL PATIENT EXPERIENCE

SAFETY & QUALITY OUR TOP PRIORITIES

SAFETY REQUIRES TEAMWORK BE PART OF OUR TEAM!

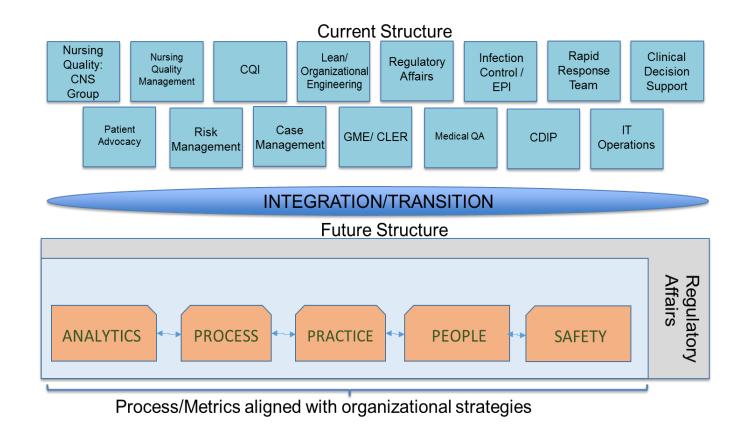
- The people responsible and accountable for maintaining Quality on the front end will interact with the quality data reports (e.g.: NHIQM) program on a continuing basis
- Data will inform the processes, so changes can be made in real time
- NMs, Physician Leads and Quality staff will interact with each other to make changes and achieve compliance

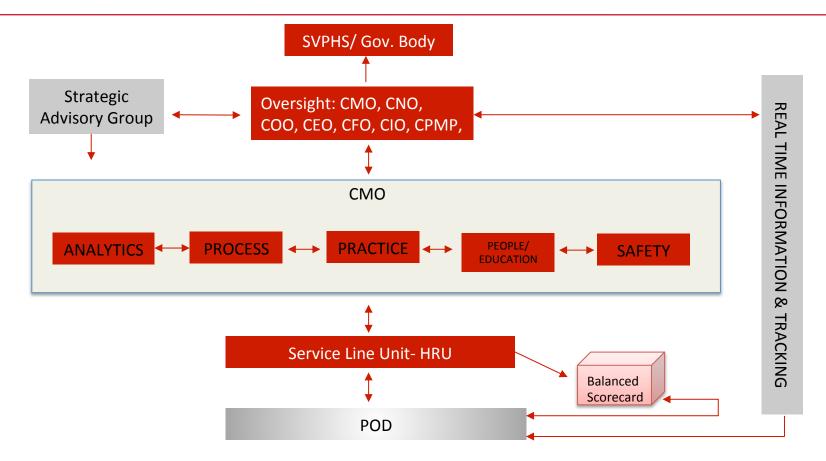
QUALITY: VISION

• Big Q= Best medical care delivery with best possible health outcomes.

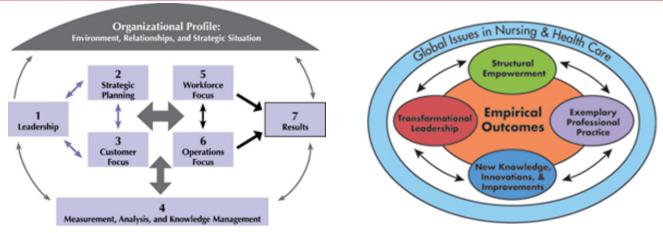
 Become top 10 on the UHC list in Safety and Accountability in 5 years (10-20 points/year).

INTEGRATION OF CURRENT STRUCTURE INTO 5 FUNCTIONAL GROUPS





BIG Q: ORGANIZATIONAL ALIGNMENT TO BEST PRACTICE MODELS



From Bubblige Performance Excellence Program, 2013, 2013-2014 Health Care Criteria for Performance Excellence (Californium, MD).

Malcolm Baldrige National Quality Award	ANCC Magnet Recognition Program	Big Q
Leadership and Strategic Planning	Transformational Leadership and Structural Empowerment	Strategic Advisory and 5 Functional Groups
Measurement, Analysis, Knowledge Management	New Knowledge, Innovations, and Improvements	Analytics, Process, Practice
Workforce Focus	Exemplary Professional Practice	Workforce Engagement and People
Process Management	Exemplary Professional Practice , Empirical Outcomes	Process
Results	Empirical Outcomes	Ideal Patient Experience

FOR PATIENTS: ALIGNMENT WITH PATIENT CENTEREDNESS

- Do not harm me (patient safety group)
- Cure me and alleviate my suffering (process and practice group)
- Treat me with respect (analytics and practice)
- Do not let me wait/get me to the right place (analytics, process)
- Keep me well (work force engagement, process)

CURRENT	FUTURE
Structure by roles	Designed for function
Perpetuates silo-type work	Inter-professional shared governance
Driven by outcomes and old data	Informed by real time data, focusing on both key processes and outcomes
Cross service ambiguity regarding authority, responsibility, and ownership	Framed by known models of success
Limited buy-in at the unit level	Streamlined to support service lines and units
Directed versus supported work	Supports unit-based focus on the Stony Brook brand promise of the ideal patient experience
Not linked to overall organizational changes	Hinged to other structural changes in the organization

FEEDBACK & RISK

Improving Patient Safety, Service Recovery and Risk Management











RL6 Risk = SB SAFE

- Endorsed by AHA,1500 clients include Presbyterian, MSK, Cleveland Clinic
- SBUH already utilizes Claims Management & Patient Feedback modules
- Product review by physicians, nurses, pharmacists, IT staff, Risk & Quality Management, CMO, Regulatory & Safety AD, DIO
- Quick entry mode< 5 minute entry on one page using UHMC sign on
- Report creation with drill down capability
- Customizable email alerts (VIP, fall risks, readmits)
- Links to patient, staff directories, hospital formulary
- Patient Safety Organization linkages to Best Practice data

RL6 Peer Review

 Stores peer review data in one place, offers secure, role-based user access, distributes sensitive files, sends review invites/notifications, documents results Ease of Report Submission and Manager follow up

Feedback to Users subsequent to report submission

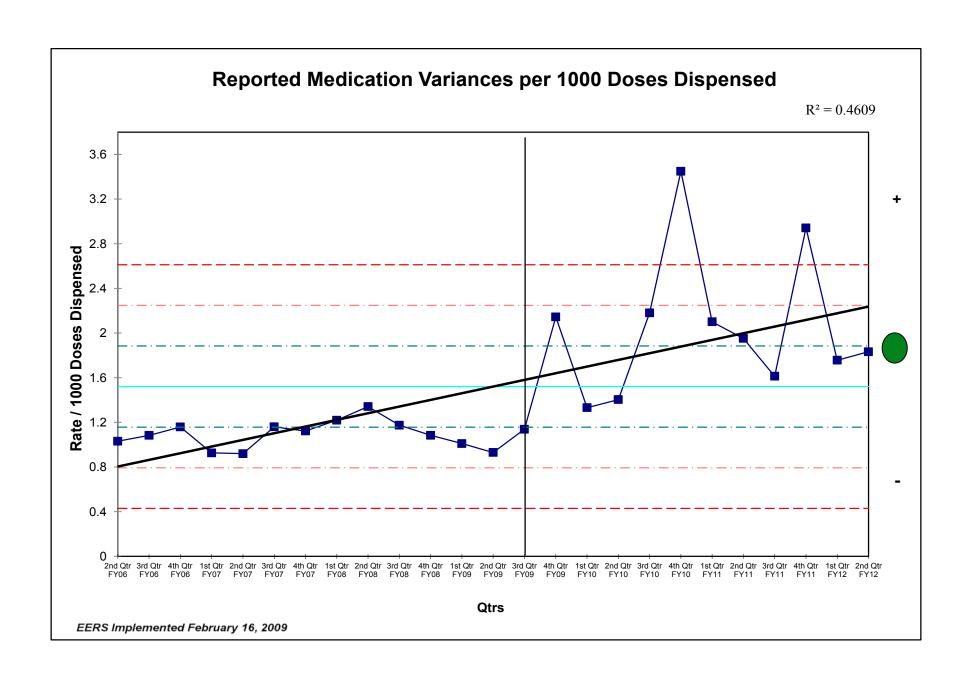
Ease of Report Creation with Drill Down capability

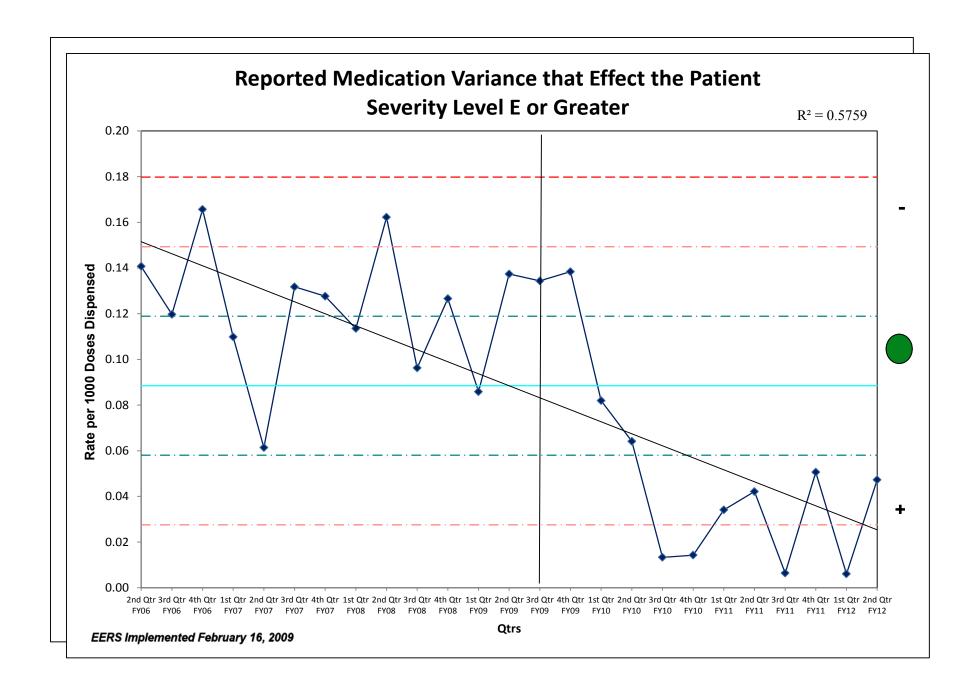
Comprehensive Software Module Integration

Trending, Analysis and Dissemination of Data and Report results

Programmatic acceptance, sustainability and resources are essential to identify opportunity, understand and improve Patient Safety







- Who am I?
- What's next to control costs?
- Why is it important to improve quality?
- How do physicians fit in all this?
- Can we be optimistic about the future?



Leaders are often chosen primarily for characteristics that have little or no correlation with a successful tenure as leader:

- Examples of such include a long bibliography, scientific eminence, institutional longevity, ready availability, a willingness to not "rock the boat" or to accept inadequate resources.
- It is surprising how often management skills, interpersonal skills and experience are undervalued. One should ask what critical skills are absolutely essential for that role at that time in that particular settings.

Simone's Maxims, 1999

- > The purely clinical chair ("do not blind me with science")
- > The MD/Scientist chair- focused on cells
- > The business oriented chair- building programs*
- > The "clueless" dean- not a clinician nor a scientist
- The leader with no clinical experience making clinical decisions...

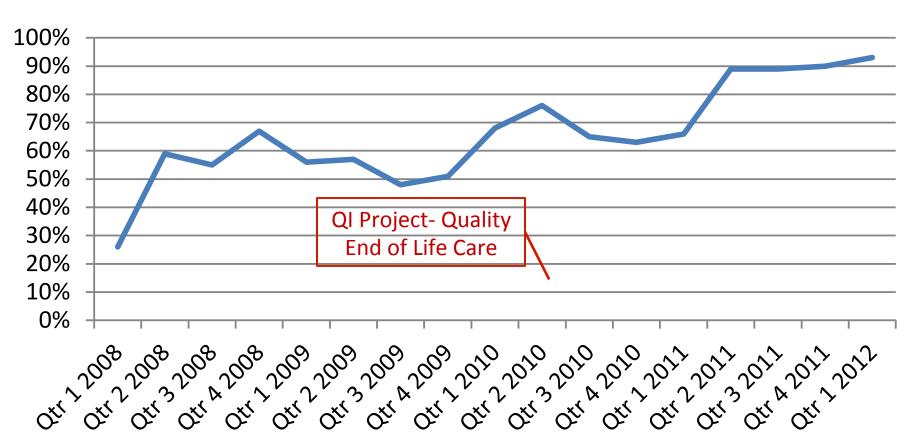


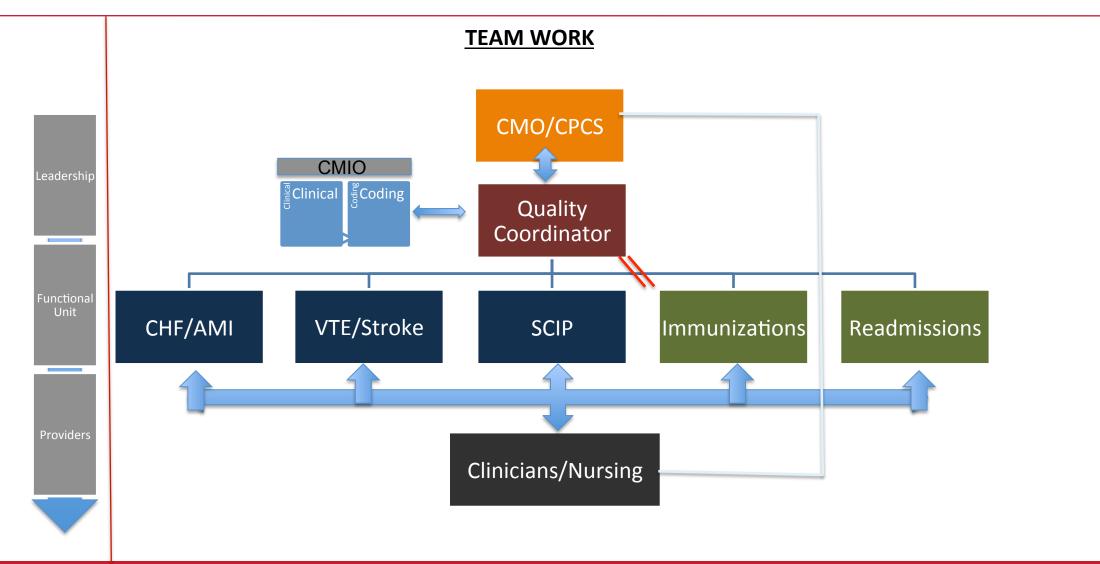
- Implementing evidence-based practices and reducing variability within similar services.
- Lack of physicians' involvement and leadership in quality projects and their lack of buying in.
- Developing a cadre of physicians interested in moving the needle (quality "champions").
- Exciting initiatives; for instance, the expansion of Palliative Care.

 Patients needing service were seen in approximately 25% of instances in 2008

 In three years, nearly 95% of patients were seen by the service







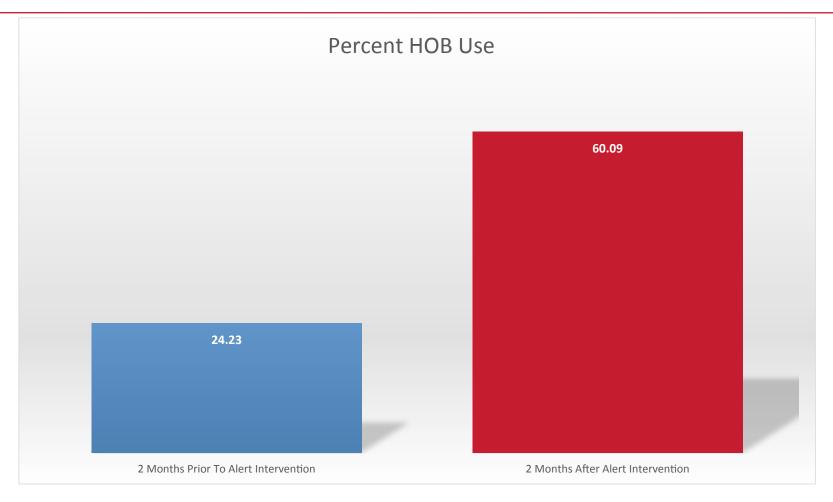
30 Day Readmission Rule was Implemented November 25, 2014

Purpose: Improve utilization of Hospital Observation (HOB) on patients readmitted to the hospitalist service in less than 30 days of discharge.

Intervention: Creation of an alert which prompted ED physicians to contact the hospitalist service to evaluate and disposition patients who are potential 30 day readmissions.

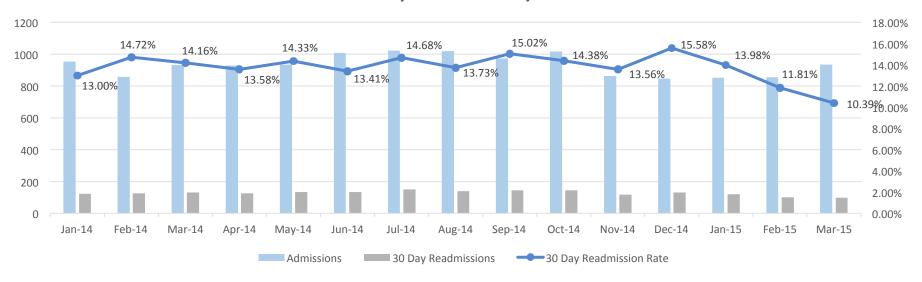
Results:

- Reduction in the number of inpatient admissions on patients presenting to the ED within 30 day of discharge
- 2. Increase in the number of patients put in hospital observations on patients presenting to the ED within 30 day of discharge
- Increase in the number of patients put on HOB and discharged WITHOUT admission



Every patient that is put on HOB represents an opportunity to prevent an admission

Stony Brook Medicine Rate of Readmission per Admission (Medicare Only) January 2014 - February 2015



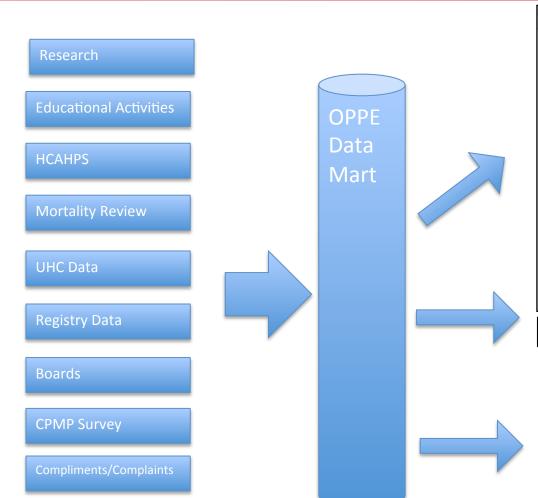
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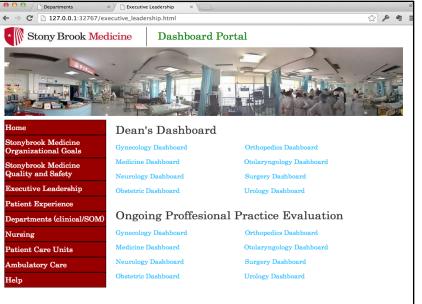


Van Halen's standard performance contract contained a provision calling for them to be provided backstage with a bowl of M&Ms from which all the brown candies have been removed.



Peer Review





Finance (contract negotiations / at risk contracts)

Stony Brook Medicine public website to display HCAHPS and other publicly reported quality measures



"The future ain't what it used to be."

- Yogi Berra

Expect the unexpected and be ready to take risks...



Watch Videos Online Hudson River Plane Landing (US Airways 1549) Animation with Audio Veoh.com.url



- Surviving is not good enough- Thriving is important
- Administrators can make decisions that affect different populations
- Cost is not everything-Quality matters
- Rapid change that we are not prepared for- Pediatricians are used to it
- Family Centered care-pediatrics was ahead of the curve
- The concept of Medical Home- pediatrics well adjusted
- Balancing the clinical vseducation and reseach missions

Like any good wine, it is all about being proud of what we



- Adjust to the new environment-can be fun (GME, new technologies, etc.)
- Health System Partnerships offer a tremendous opportunity- building networks
- Making decisions that can affect many lives (although for me it has been very rewarding to impact one life at a time)
- Integrating innovation into daily management
- A gentle approach to management goes a long wayeducate our peers



Thank you!

