

Session Goals

- Understand the motivation of key external stakeholders for outcome-based measures
- Learn key outcome-based measures that can demonstrate the value of MIH/CP programs
- Learn the process used by MedStar in applying for external certification/accreditation for its programs







About MedStar...

- Governmental agency (PUM) serving Ft. Worth and 14 Cities
 - Self-Operated
 - 880,000 residents, 421 Sq. miles
 - Exclusive provider emergency and non emergency
- 120,000 responses annually
- 405 employees
- \$37.5 million budget
- No tax subsidy
- Fully deployed system status management
- Medical Control from 14 member Emergency Physician's Advisory Board (EPAB)
 - Physician Medical Directors from all emergency departments in service area + 5 Tarrant County Medical Society reps

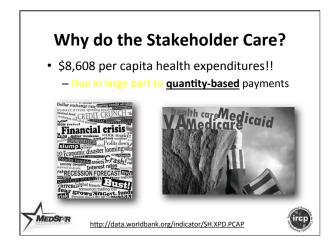


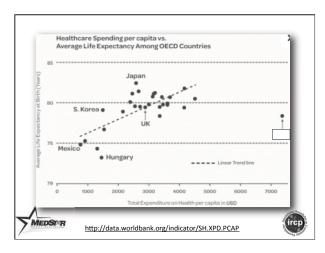












Health survey ranks U.S. last among rich peers Michael Winter, June 16, 2014 For the fifth time in a decade, the United States is the sick man or the non-world. But recent health reforms and increased health technology spending may provide a cure in the coming years. That's according to the latest Commonwealth Fund survey of 11 nations, which ranked the world's most expensive health care system dead last on measures of "efficiency, equity, and outcomes." So too in 2010, 2007, 2006 and 2004. The U.S. ranking reflects poor scores on measures of healthy lives — "mortality amenable to medical care," infant mortality and healthy life expectancy at age 60. The other eight countries surveyed were Australia, Canada, France, Germany, the Netherlands, New Zealand, Norway and Sweden. What do the healthier cousins have that the United States does not? Universal health care, the Commonwealth Fund points out.



Health Insurers Are Trying New Payment Models, Study Shows By Reed Abelson

July 9, 2014

The New york Times

The survey, released on Wednesday by the plans' trade association, estimates $\underline{\text{that $\$1}}$ out of every \$5 in reimbursements is being paid under an arrangement in which providers are rewarded for improving care and lowering costs.

The insurers say they are spending more than \$65 billion a year in new "value-<u>based" payment models</u>, according to the Blue Cross Blue Shield Association, which looked at 350 programs in nearly every state.

Health insurers have long talked about changing the way they pay for care, but there have been few tangible signs of just how enthusiastically they are embracing alternatives.

But the Blue Cross executives say there is no choice but to move away from a system that rewarded high-cost care over high-quality and efficient treatments.



MEDSOR http://www.nytimes.com/2014/07/10/business/health-insurers-are-trying-new-payment-



Why do the Stakeholder Care?

- There are 4.6 million Medicare beneficiaries with
 - 14% of beneficiaries have HF
 - One CHF admission cost CMS \$13,000
 - 30-day readmission rate for CHF = 24.7%

their doc between discharge and readmit (NEJM)

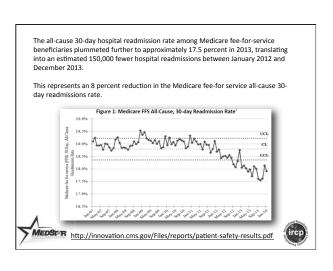
• MedPAC = \$12 billion CMS expenditures for **Potentially Preventable Readmissions**

https://www.cms.gov/Medicare/Medicare-General-Information/CCIP/

http://healthaffairs.org/healthpolicybriefs/brief_pdfs/ healthpolicybrief_102.pdf



		Number of r	readmissions	Cost of rea			
	rincipal diagnosis for idex hospital stay ^a	Number of all-cause, 30-day readmissions	Readmissions as a percentage of total Medicare readmissions	Total cost of all-cause, 30-day readmissions (in millions), \$	Readmission total cost as a percentage of total costs of Medicare readmissions	Readmission rate (per 100 admissions)	
	ongestive heart failure; onhypertensive	134,500	7.3	1,747	7.3	24.5	
9	epticemia (except in labor)	92,900	5.1	1,410	5.9	21.3	
C.	neumonia (except that aused by tuberculosis or exually transmitted disease)	88,800	4.8	1,148	4.8	17.9	
	hronic obstructive pulmonary isease and bronchiectasis	77,900	4.2	924	3.8	21.5	
C	ardiac dysrhythmias	69,400	3.8	835	3.5	16.2	
U	rinary tract infections	56,900	3.1	621	2.6	18.1	
	cute and unspecified renal illure	53,500	2.9	683	2.8	21.8	
A	oute myocardial infarction	51,300	2.8	693	2.9	19,8	
	omplication of device; splant or graft	47,200	2.0	742	3.1	19.0	
	cute cerebrovascular sease	45,800	2.5	568	2.4	14.5	
Te	otal	718,100	39.1	9,371	39.0	19.6	



Return Visits to the Emergency Department: The Patient Perspective

Sep 2, 2014 Source: ACEP

Annals of Emergency Medicin

Conclusion

Post-discharge factors, including perceived inability to access timely follow-up care and uncertainty and fear about disease progression, are primary motivators for return to the ED. Many patients prefer hospital-based care because of increased convenience and timely results. Further work is needed to develop alternative pathways for patients to ask questions and seek guidance when and where they want.



Nonprofit Hospitals' 2013 Revenue Lowest Since Recession, **Report Says**

AUG. 27. 2014

The New York Times

Nonprofit hospitals last year had their worst financial performance since the Great Recession, according to a report released on Wednesday.

The poor operating performance of many hospitals underscored some of the changes in the health care system as the federal government and private health plans became less willing to pay for hospital care and changed the way they paid hospitals in an effort to reduce costs.

Private insurers, for example, often gave hospitals little or no increase in payments for services compared with the double-digit increases they had typically been willing to pay. Hospitals also saw lower Medicare payments as a result of the across-the-board federal budget cuts enacted last year nd other moves to cut costs.

http://www.nytimes.com/2014/08/27/business/nonprofit-hospitals-2013-revenue-losince-recession-report-says.html



Bundled payments could cut Medicare fraud, experts say

May 19, 2014

USA TODAY

 ${\sf WASHINGTON-Health\ and\ policy\ experts\ are\ pushing\ for\ a\ system\ that\ pays\ \underline{doctors}}$ a lump sum for medical care or allows them to share in savings, saying it will save millions of dollars over current fee-for-service payments that can lead to fraud and over-use of medications.

In the new system, doctors would not be entitled to extra pay should they prescribe costlier medication

"CBO projects that applying bundled payment models like Bay State's nationally could save Medicare about \$46.6 billion over the next seven years," Warren said.

Peter Ubel, professor of business administration and medicine at Duke University's Sanford School of Business, said a third method may also work well: He suggested changing the payment structure so that a doctor receives the same payment no natter what he prescribes, rather than receiving a percentage

MEDSPR http://www.usatodav.com/story/news/nation/2014/05/19/experts-argue-bundled-payr could-cut-medicare-costs/8820801/



Metric Foundation



- Improving the Patient Experience of Care
 - Including quality and satisfaction
- Improving the Health of Population
- Reduce Per Capita Cost of Healthcare

MEDSTR



Outcome-Based Metrics

- Stakeholder Specific!
 - Utilization
 - EMS, ED, PCP, Admissions
 - Expenditure
 - Expenditure savings based on utilization change
 - Total Cost of Care
 - Expenditure Savings PLUS alternate setting expenses (PCP, CP, etc.)





Outcome-Based Metrics

- Stakeholder Specific
 - Health Status
 - EuroQol Self Assessment of Health Status
 - Patient Experience
 - Based on HCAHPS measures
 - Externally evaluated?
 - Provider Satisfaction
 - Referring agency
 - CP providers





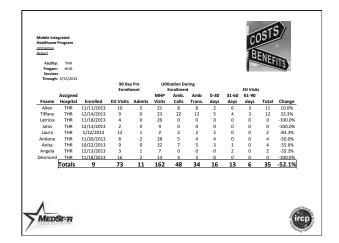


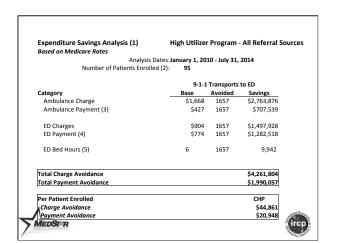
Outcome-Based Metrics Utilization & Expenditure Examples...

- High Utilizer ED Reduction
- Program Goals & Funding
- CHF Readmission Avoidance
 Program Goals & Funding
- 9-1-1 Nurse Triage
 - Program Goals & Funding
- Hospice Revocation Avoidance
 Program Goals & Funding
- Observation Admit Avoidance
 Program Goals & Funding







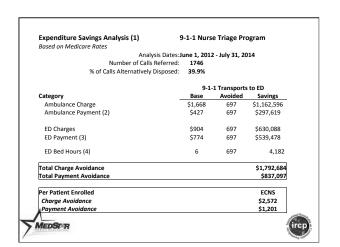


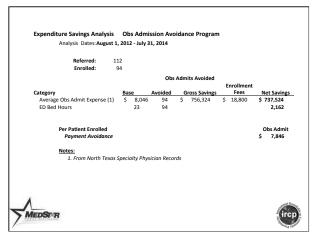


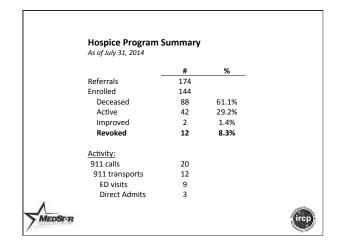
Used by special permission from Antoine Hall

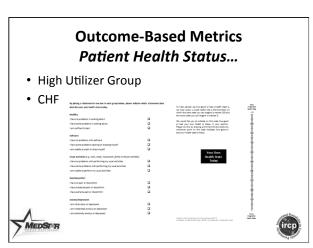
ID	Program	Status	Referral Date	Graduation Date		Assigned Hospital	Medical Complaint	МНР	Amb	Trans	ED Visits	Admits
1165	CHF	Graduated	1/7/2014	2/9/2014	JPS	JPS	Cardiac	11	0	0	0	0
1166	CHF	Graduated	1/9/2014	2/19/2014	JPS	JPS	Cardiac	8	0	0	0	0
1165	CHF	Graduated	2/10/2014	4/7/2014	Internal	JPS	Cardiac	11	0	0	0	1
1840	CHF	Graduated	2/14/2014	4/15/2014	JPS	JPS	Cardiac	6	0	0	0	0
1843	CHF	Graduated	2/14/2014	3/27/2014	JPS	JPS	Cardiac	7	0	0	0	0
1850	CHF	Graduated	2/19/2014	4/14/2014	JPS	JPS	Cardiac	13	2	2	4	0
1854	CHF	Graduated	2/20/2014	3/20/2014	JPS	JPS	Cardiac	11	1	1	1	1
1883	CHF	Graduated	2/26/2014	4/11/2014	JPS	JPS	Cardiac	6	0	0	0	0
1886	CHF	Graduated	2/26/2014	4/3/2014	JPS	JPS	Cardiac	7	1	1	0	2
1892	CHF	Graduated	3/5/2014	4/8/2014	JPS	JPS	Cardiac	6	0	0	0	0
1905	CHF	Graduated	3/12/2014	4/22/2014	JPS	JPS	Cardiac	8	0	0	0	0
1906	CHF	Graduated	3/12/2014	4/17/2014	JPS	JPS	Cardiac	7	1	1	1	0
1920	CHF	Graduated	3/19/2014	4/23/2014	JPS	JPS	Cardiac	5	0	0	0	0
							Totals	106	5	5	6	4
											Readmit	
13							MHP Visits PP	8.2			Rate:	30.8%
1	1											coal Ross

Expenditure Savings Ana Based on Medicare Rates Analysis Dat	•	Octo		HF Program		er	rs		
Number of Patients (61	Dei	2010 - July 2	.014				
		All-C	Cau	se 30-day Ho	spital Utiliza	itic	on	Outcom	e Analysis
Category	_	Base	E	xpected	Actual	Р	revented	Rate	Reduction
ED Visits				61	25		36	41.0%	59.0%
ED Charge (2)	\$	904	\$	55,144 \$	22,600	\$	32,544		
ED Payment (2)	\$	774	\$	47,214 \$	19,350	\$	27,864		
Admissions				61	16		45	26.2%	73.8%
Admission Charge (3)	\$	35,293	\$	2,152,873 \$	564,688	\$	1,588,185		
Admission Payment (3)	\$	8,276	\$	504,836 \$	132,416	\$	372,420		
Total Charge Avoidance						\$	1,620,729		
Total Payment Avoidance						\$	400,284		
Per Patient Enrolled							CHF		
Charge Avoidance							\$26,569		
Payment Avoidance							\$6,562		
	Notes		llme	ent criteria requ	uleas a pelas 20	da	u roadmiccion	and the	
A				expects the pat					and it
				n Peter Smith H			,		
MEDST R				der Charge Rep Ita available foi					irc









Patient Self-Assessment of Health Status (1) As of: 7/31/2014

	HUG					
	Pre	Post	Change			
Mobility (2)	2.38	2.44	2.4%			
Self-Care (2)	2.70	2.75	1.7%			
Perform Usual Activities (2)	2.25	2.56	13.7%			
Pain and Discomfort (2)	1.86	2.44	31.1%			
Anxiety/Depression (2)	2.04	2.50	22.4%			
Overall Health Status (3)	5.23	6.75	29.2%			

- Notes:

 1. Average scores of pre and post enrollment data from EuroQol EQ-5D-3L Assessment Questionnaire
 2. Score 1 3 with 3 most favorable
 3. Score 1 10 with 10 most favorable





Patient Self-Assessment of Health Status (1) As of: 7/31/2014

	CHF					
	Pre	Post	Change			
Mobility (2)	2.24	2.71	20.9%			
Self-Care (2)	2.57	2.82	9.8%			
Perform Usual Activities (2)	2.10	2.71	29.1%			
Pain and Discomfort (2)	2.24	2.65	18.3%			
Axiety/Depression (2)	2.05	2.65	29.3%			
Overall Health Status (3)	3.90	6.00	53.7%			

- 1. Average scores of pre and post enrollment data from EuroQol EQ-5D-3L Assessment Questionnaire
 2. Score 1 3 with 3 most favorable
 3. Score 1 10 with 10 most favorable





Mobile Healthcare Programs Patient Experience Summary As of July 31, 2014

				Overali
_	HUG	CHF	OBS	Avg
Medic Listened?	4.93	4.87	4.72	4.84
Time to answer your questions?	5.00	4.89	4.79	4.89
Overall amount of time spent with you?	5.00	4.76	4.81	4.86
Explain things in a way you could understand?	5.00	4.84	4.72	4.86
Instructions regarding medication/follow-up care?	5.00	4.79	4.77	4.85
Thoroughness of the examination?	5.00	4.84	4.72	4.86
Advice to stay healthy?	5.00	4.82	4.53	4.78
Quality of the medical care/evaluation?	5.00	4.89	4.81	4.90
Level of Compassion	5.00	4.95	4.85	4.93
Overall satisfaction	4.93	4.92	4.85	4.90
Recommend the service to others?	100.0%	100%	97.9%	99.3%





Select Comments:

Client states "You care more about my health than I do."

Keep the same compassionate, excellent people you have working for you $% \left(x\right) =\left(x\right) +\left(x\right) +\left($ now and your service will continue to be great! Everything was perfect, a 10!

"I love y'all" "wonderful" "Y'all 2 have been really big help and great with patience with me and even though I'm a hard headed lil ol lady." "perfect for

"y'all have been off the charts helpful" "no complaints" "glad the hospital got it going for me"

Thank you very much! We couldn't have done this without you!

The medics spent lots of time with me and provided very useful information. I really loved the program. They were very friendly and did an awesome job.





911 Nurse Triage Patient Experience Survey Results **Alternative Disposition Cases** 31-Aug-14 143 Completed Surveys Likert Scale 1-5 (5 = Highest Rating) 911 Call Taking Process? 4.81 Satisfied with Nurse? Do You Feel the Nurse Understood Your Medical Issue? 4.80 Were You Satisfied With Recommendation? 4.61 Did Speaking with the Nurse Help? Did Your Condition Get Better? 88.8% Should Your Call Have Been Handled Differently = No Did Recommendation Save you Time and Money = Yes Would Knowing the Cost in Advance Make a Difference? No/Unsure 53.1% Cases with completed Surveys <u>AND</u> result was a disposition other than an ambulance <u>OR</u> ED referral.

Selected Patient Comments:

"I just needed a calm voice to call me down and the nurse did that superbly."

"The nurse was very nice and understanding and it was very helpful. Tell the nurse "thank you" for taking the time to understand problem."

"It was handled excellent. The nurse was very knowledgable and professional."

"No complaints. Love the way the call was handled."

"Really appreciate the call back the following day to check up on the

Patient did not go to hospital after 911 call. She stayed home, the MedStar MHP came to the home to wrap her injury until her Doctors appt the next day. Patient was satisfied with care received and 911 call taker and triage nurse.





Issues in Data Tracking/Reporting

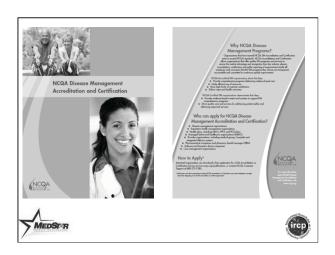
- Basis for utilization/expenditure change
 Patient populations vs. control group
- Total cost of care impact
 - When we impact very little of the patient cost?
- Patient safety metrics?
 - Death, admissions, adverse outcomes

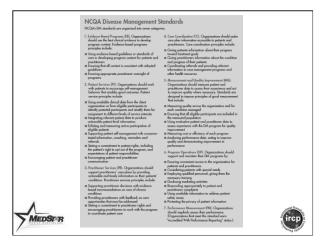












Standard Measures



- Evidence-Based Programs
- Patient Services
- Practitioner Services
- Care Coordination
- Measurement and Quality Improvement
- Program Operations
- Performance Measurement



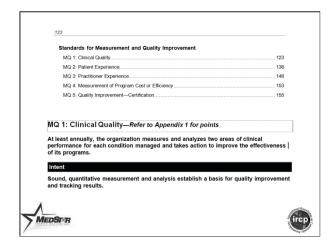


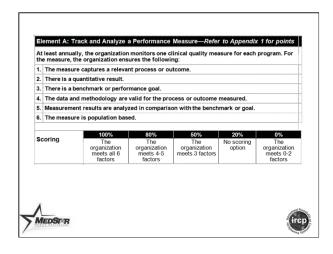
Measurement and Quality Improvement

- Measuring *quality* across the organization and for *each condition* managed
- Ensuring that *all eligible participants* are included in the measured population
- Using evaluative patient and practitioner data to assess experience with the DM program for quality improvement
- Measuring cost or efficiency of each program
- Analyzing performance data, acting to improve quality and demonstrating improvement in performance









In Summary...

- U.S. MIH/CP entering toddlerhood
 - Next leap is scalability/replicability
 - Need much larger "N"
- Uniform outcome measures key to above
 - In keeping with Triple Aim principles
- Accreditation 2 leaps away
 - Start planning now
- Have fun while you're changing the world!









