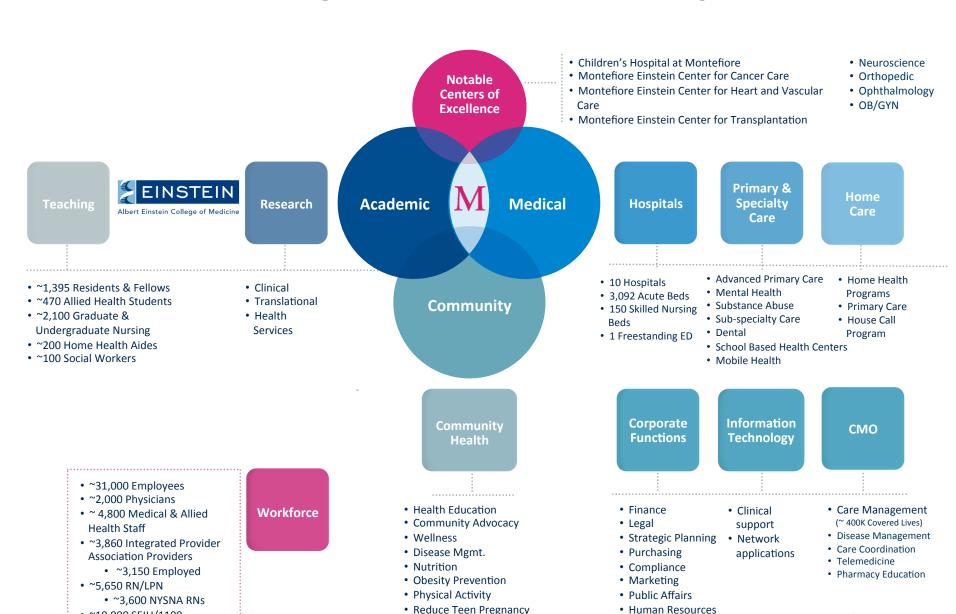
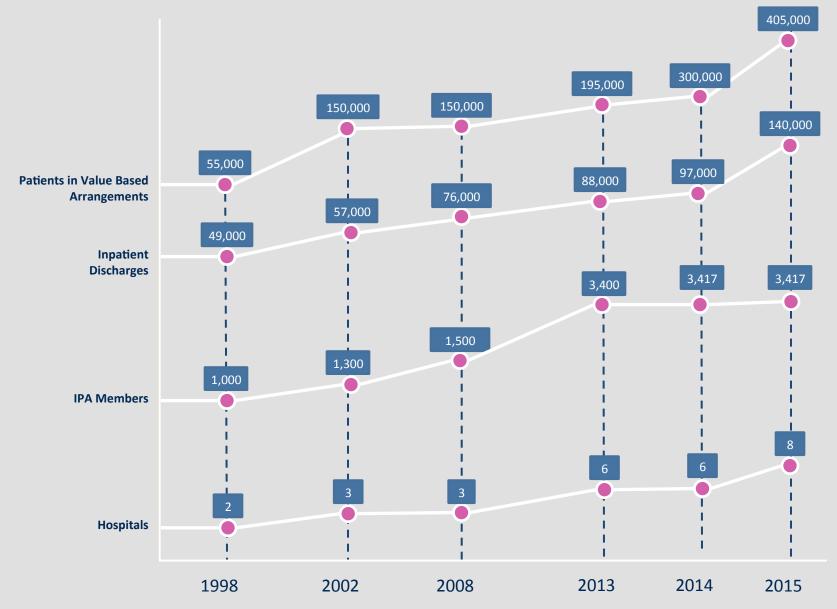
Montefiore: An integrated academic health system

~10.900 SEIU/1199



Lead Poisoning Prevention

Montefiore Health System is growing



The provider space is becoming more competitive

Health systems are consolidating

From 2009-2013, hospital M&A deal volume increased 14% annually nationwide

The average deal size increased 500%, from \$42M to \$224M

Deloitte projects there will be 50% fewer health **systems** by 2024 due to consolidation

New entrants are shaking up care delivery

Major medical groups and physician-led ACOs











Standalone urgent care providers









Retailers



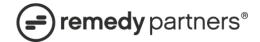








Risk aggregators







Smart use of data key to delivering on value proposition

Strategies

Clear goals, well communicated

Governance

Clear division of authority and balance of powers within the system

Executing on Value Proposition

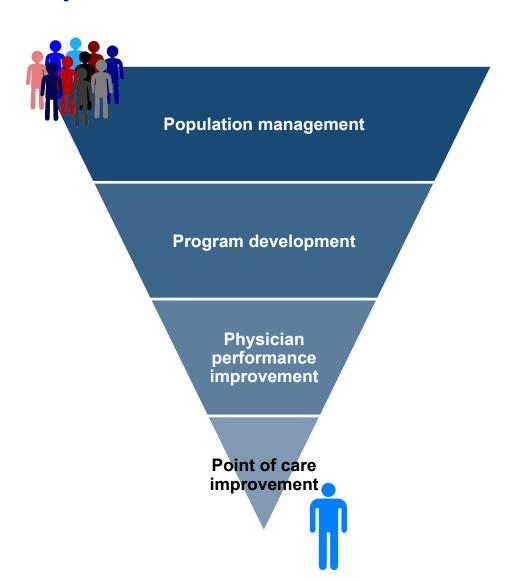
Leadership and Incentives

Clear roles and responsibilities, aligned and encouraged talent

Data and Insight

Clearly presented, well analyzed, and free flowing across the organization

Tremendous amount of data available to improve outcomes for patients and communities



Public data

Census data

Public health data

Medicare data

Consumer data

Local market data

Claims data

Internal billing data

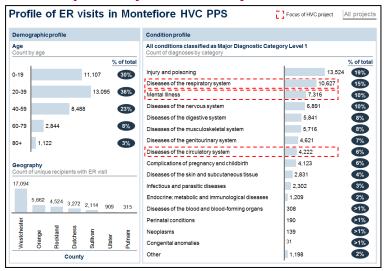
EHR data

Proprietary data

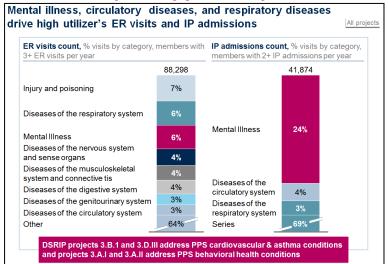
Montefiore

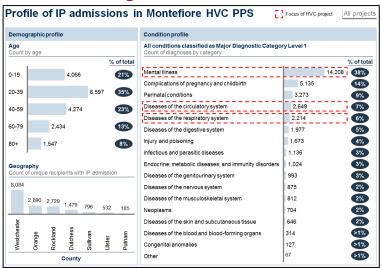
Case Study #1: Priority setting for population health What diseases lead to overutilization for Medicaid members?

Respiratory, circulatory, and behavioral health disorders driving utilization overall...

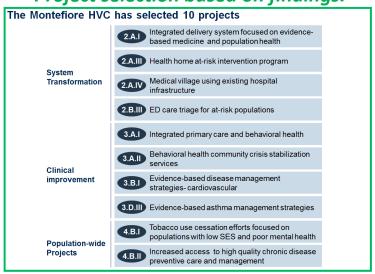


... and especially for heavy utilizers.





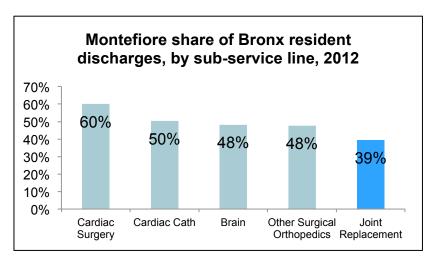
Project selection based on findings.



Case Study #2: Investing in a Joint Replacement Center Will we see a return on our investment?

Market assessment

An opportunity to grow share...



... of market we can expect to grow...

45%

The Bronx resident joint replacement utilization rate, vs. the national average (vs. 150% for other services)

5%

Projected near-term growth rate for joint replacements for Bronx residents

Financial assessment

... resulting in positive returns for the system

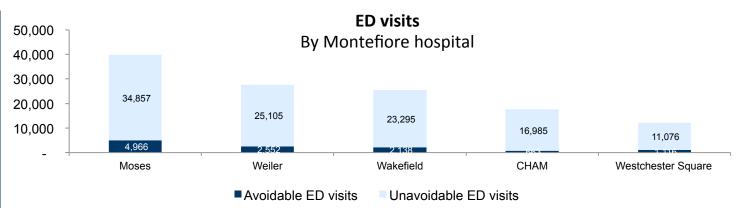
Inpatient sub-service lines, ranked by average contribution margin per day

Rank	Sub-service line
1	Burns
2	Trauma (Neurosurgery)
3	Cardiac Cath
4	Bariatric/Obesity
5	Cardiac EP
6	Cardiac Surgery
7	Transplant
8	Brain
9	Head and Neck Surgery
10	Joint Replacement
82	Psychiatry

Case Study #3: Reducing ED utilization

How and where should we implement an ED triage initiative?





AVOIDABLE DIAGNOSES

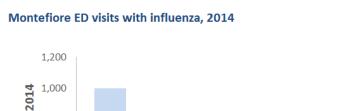
Shaping intervention

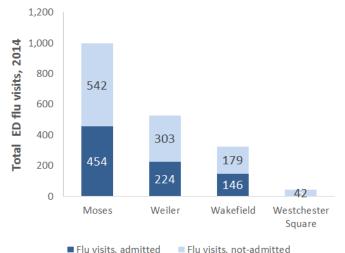
2 to 5 Visits	6 or more Visits		
Diagnosis	# of Cases	Diagnosis	# of Cases
HEADACHE	1,516	HEADACHE	164
LUMBAGO	1,288	LUMBAGO	136
BACKACHE NOS	418	BACKACHE NOS	90
ISSUE REPEAT PRESCRIPT	266	ISSUE REPEAT PRESCRIPT	59
PRURITIC DISORDER NOS	178	PREGNANCY EXAM OR TEST, PREGNANCY UNCON	30
PREGNANCY EXAM OR TEST, PREGNANCY UNCONFIRME	137	MED EXAM NEC-ADMIN PURP	24
All other avoidable	294	All other avoidable	61
Total Visits	4,097	Total Visits	564

EXTREMLEY HEAVY USERS, MORE THAN 20 VISITS IN 6 MONTHS

Ref#	# of Visits	Avg. Visits/Month	Diagnosis
1	79	13.2	PRIAPISM
2	61	10.2	WHEEZING/SHORTNESS OF BREATH
3	51	8.5	ALCOHOL ABUSE
4	47	7.8	JOINT/BACK PAIN
5	44	7.3	JOINT PAIN/ALCOHOL

Case Study #4: Community-based flu vaccine program Which communities should we target for intervention?

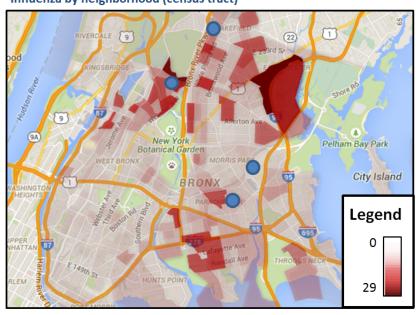


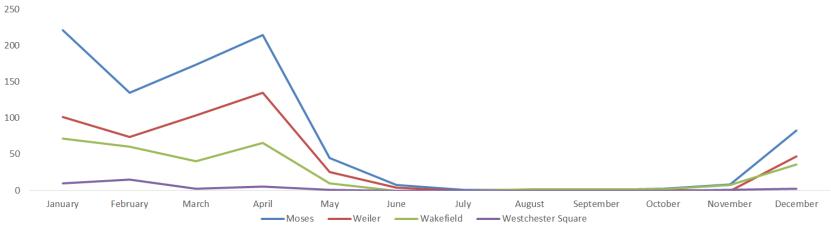






Influenza by neighborhood (census tract)



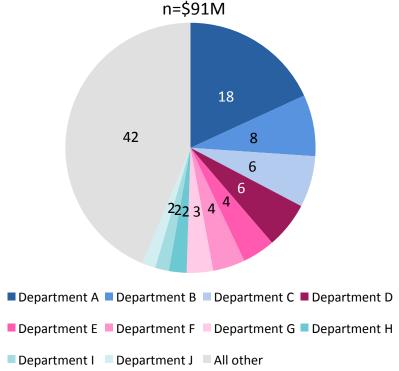


Case Study #5: Physician Gainsharing Program How should we engage clinical departments in program?

Targeting departments for focus

Difference between Montefiore and best practice cost performance for incentive eligible cases

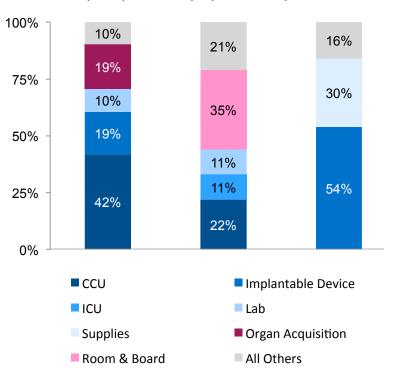
By responsible physician department



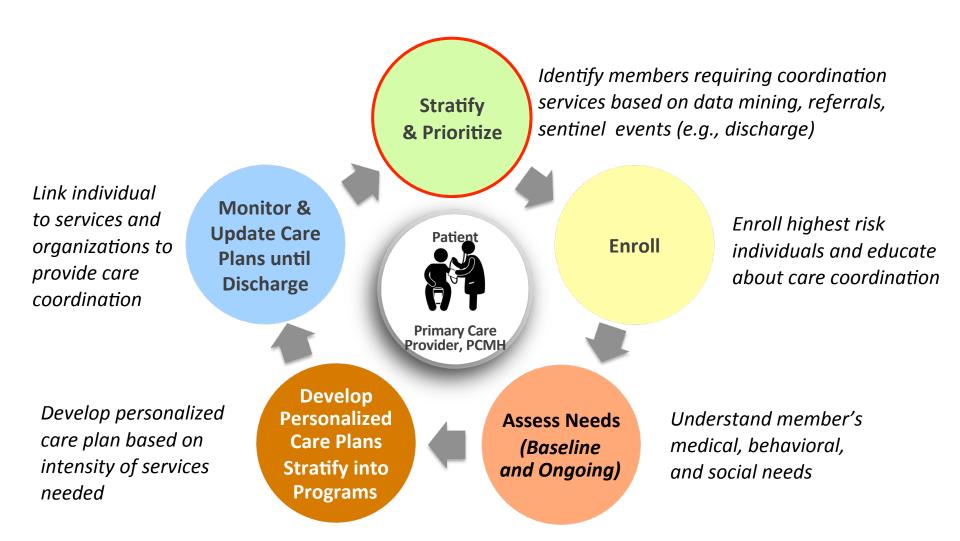
Providing insights for physicians

Percent of total cost improvement opportunity for each department, by cost center

By responsible physician department

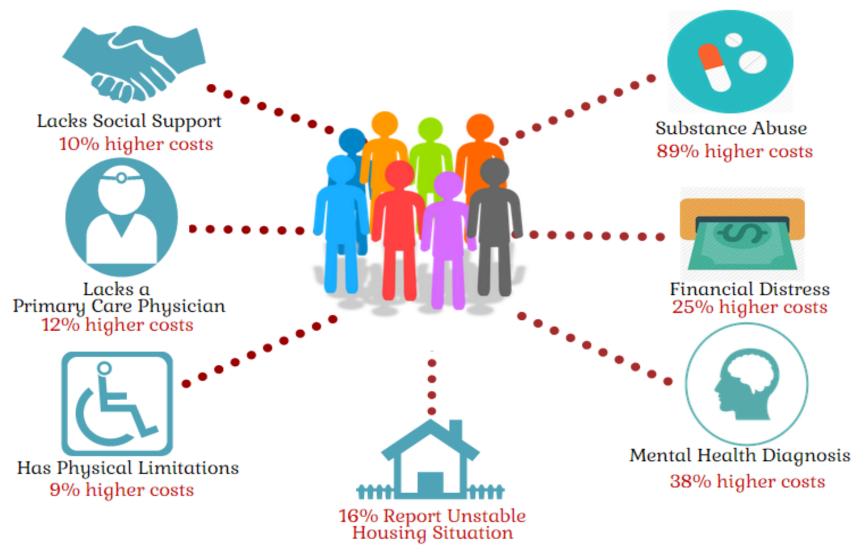


Case Study #6: Managing risk for patients (I) Which patients should we intensively care manage?



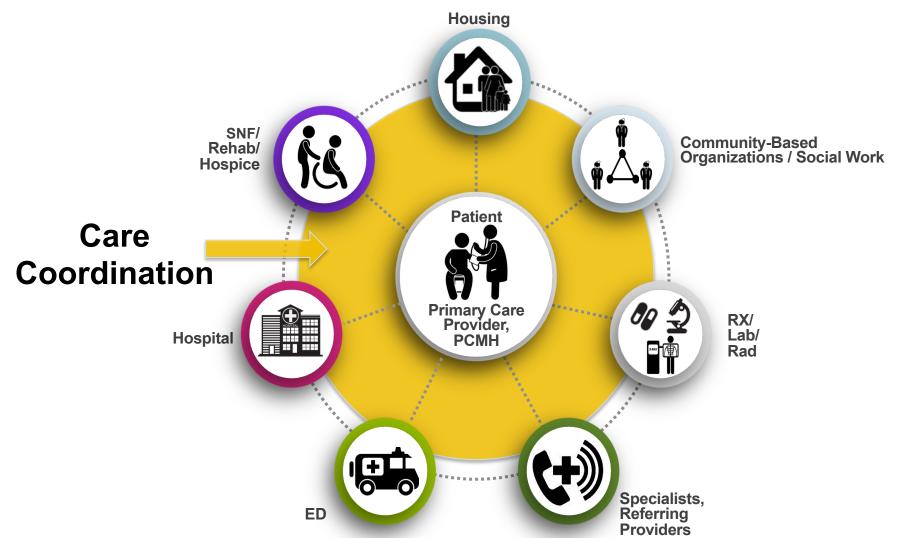
Case Study #6: Managing risk for patients (II)

What drives high costs of care?



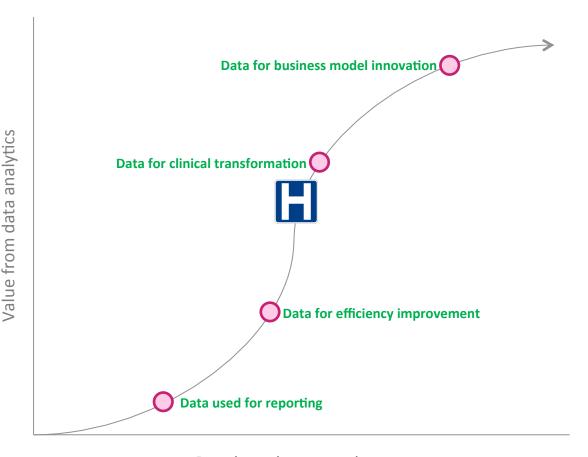
Case Study #6: Managing risk for patients (II)

How should we manage care to reflect this finding?



Just beginning to scratch the surface

Opportunity to leverage data, especially clinical, to transform care delivery and business models writ large



"The potential benefits of health IT have not yet come to pass. This is... because of shortcomings... in the design, implementation, and use of health IT in the United States."

Health Affairs

People and process changes

Tremendous benefits for health system, and patients, ahead

Value driver	Patient benefit
Cost efficiency	Affordability
Care standardization	Quality
Service experience	Satisfaction
Network integration	Coordination
Trend control	Predictability