

Hospital & Physician Relations Executive Summit Transformation Strategies

March 1 – 3, 2015 Omni Montelucia Resort Scottsdale, AZ

#### Gaining Competitive Advantage through Ambulatory Strategy

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#### **Ambulatory Care Strategy**

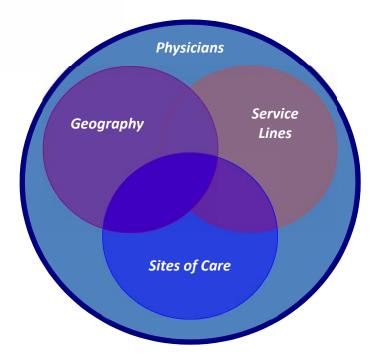
#### **Vision**

North Shore-LIJ will be nationally recognized as a high-performing health system providing patient-centered care throughout the continuum to its community.

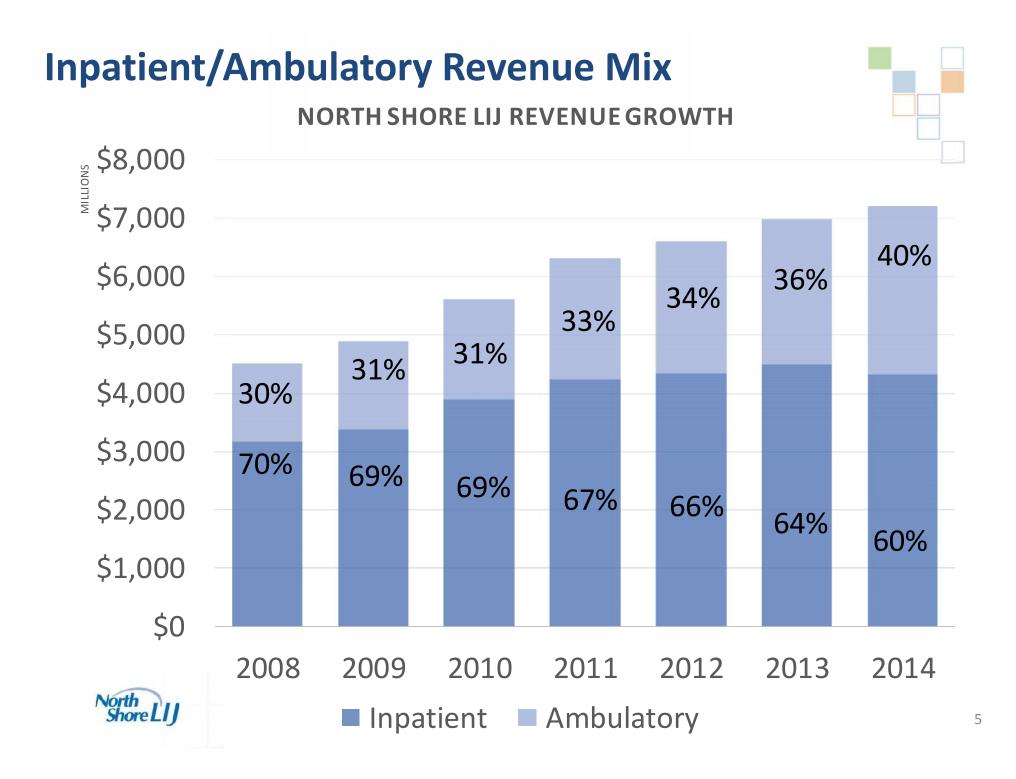
#### **Strategy Statement**

To develop an integrated, patient-centered care delivery network that develops "patients for life". This North Shore-LIJ integrated ambulatory network will attract and retain individuals for prevention and wellness, as well as from the earliest stages of their acute and chronic care need, and throughout their entire course of treatment through recovery.

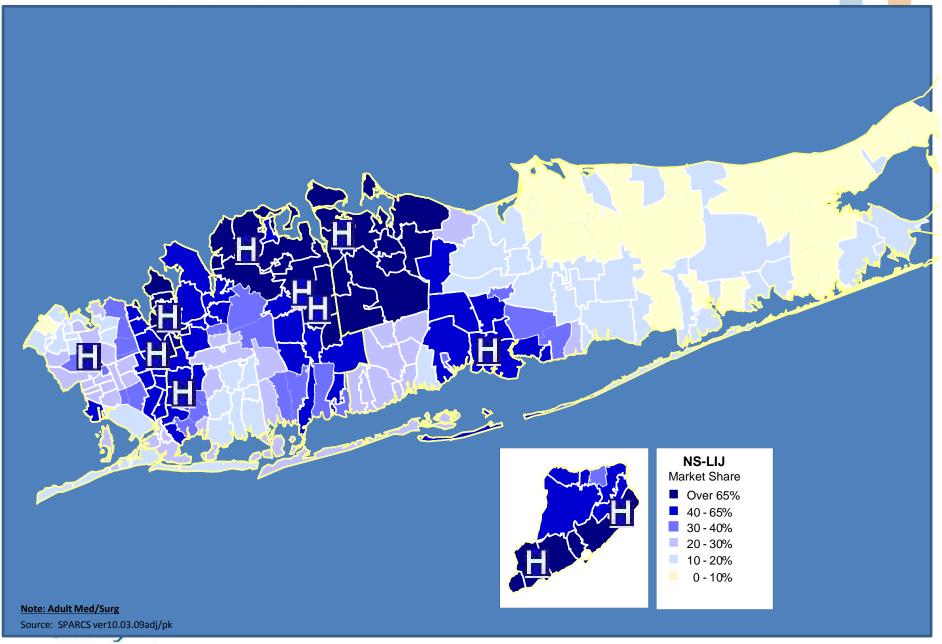
In order for the Health System to achieve this strategy, our delivery system will be aligned with physicians along service lines in geographically accessible sites of care







#### Traditional View of Market Strategy Formulation



#### **Future View of Market Strategy**

**Metrics for Prioritization** 

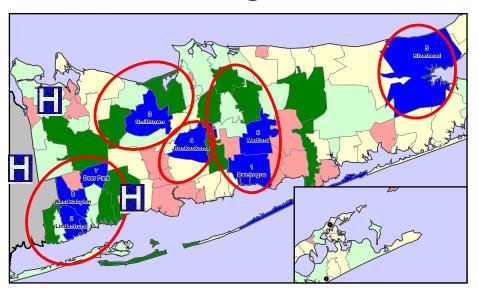
#### Demographics

**Total Population** 

Population 45+

45+ Propulation Growth

Market Share Physicians Suppy Inpatient Market Opp (Discharges) Insurance Coverage





Source: NS-LIJ Office of Planning analysis/ja

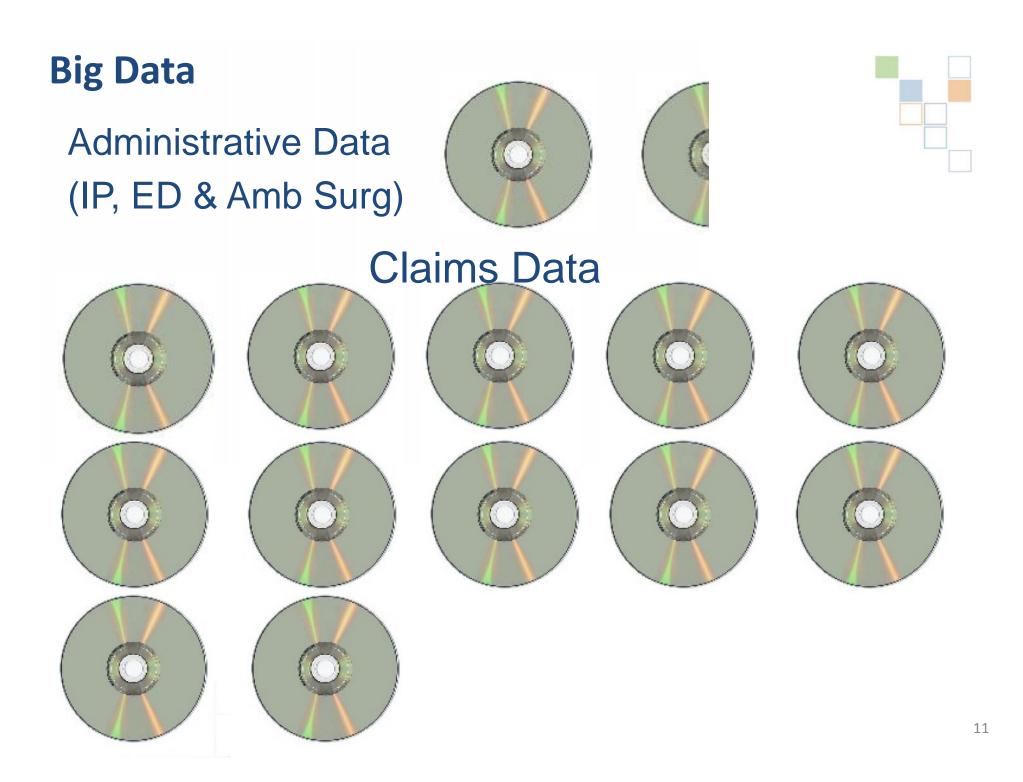
# **Strategic Planning More Important in the Future**

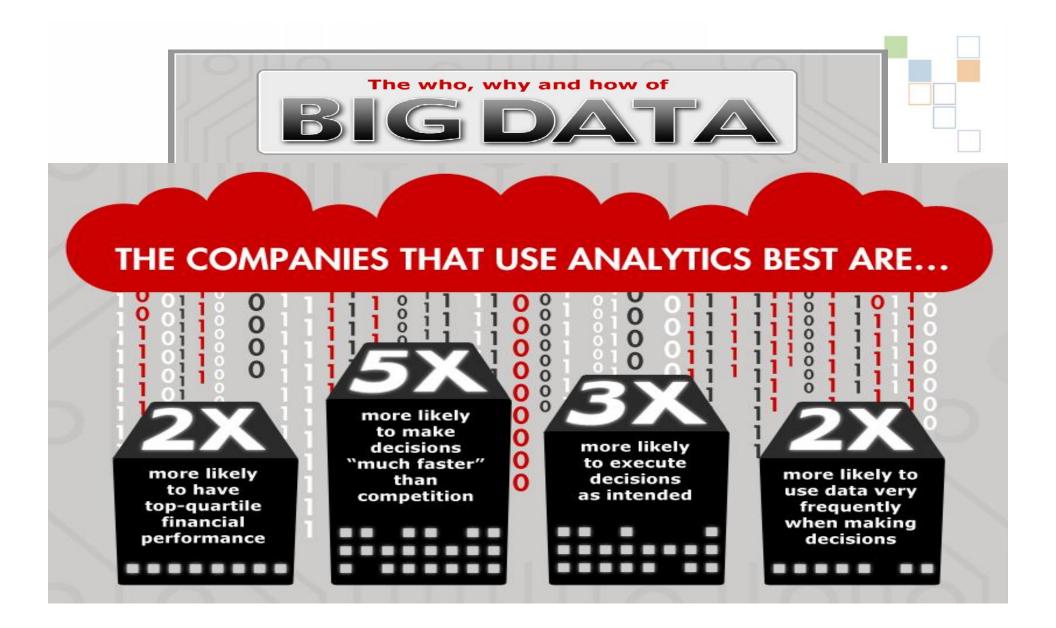


# **Good Data Good Strategy Research and Data Analytic Competencies**











#### **Utilizing Ambulatory Data: Practical Examples**

The importance of ambulatory planning cannot be overlooked as population health management shifts from inpatient to outpatient. The following are a few practical examples completed by the NS-LIJ Health System Planning Department. The goal of these initiatives were to: 1) identify areas of need for ambulatory services and 2) strategically align with key community physicians to sustain growth and efficiently manage population health:

#### Physician Strategy

- Building a robust physician medical group

#### Urgent Care Planning/Strategy

- Identify prime areas for urgent care locations

#### Ambulatory Strategy Addressing Preventable Admissions

Improve the Health of communities that are using hospitals
 Improve the Health of communities that are using hospitals

#### **Practical Example 1: Physician Strategy**



# **Business Development Question**: We need to fill a service gap in colo-rectal surgery and understand physician referral relationships for a "build" or "buy" strategy





Identify specialties for targeted geographic area. Examples: gaps in service, low market share or top physician recruited by competitor. For the purpose of this project, low market share was used as the driver.

Step 2

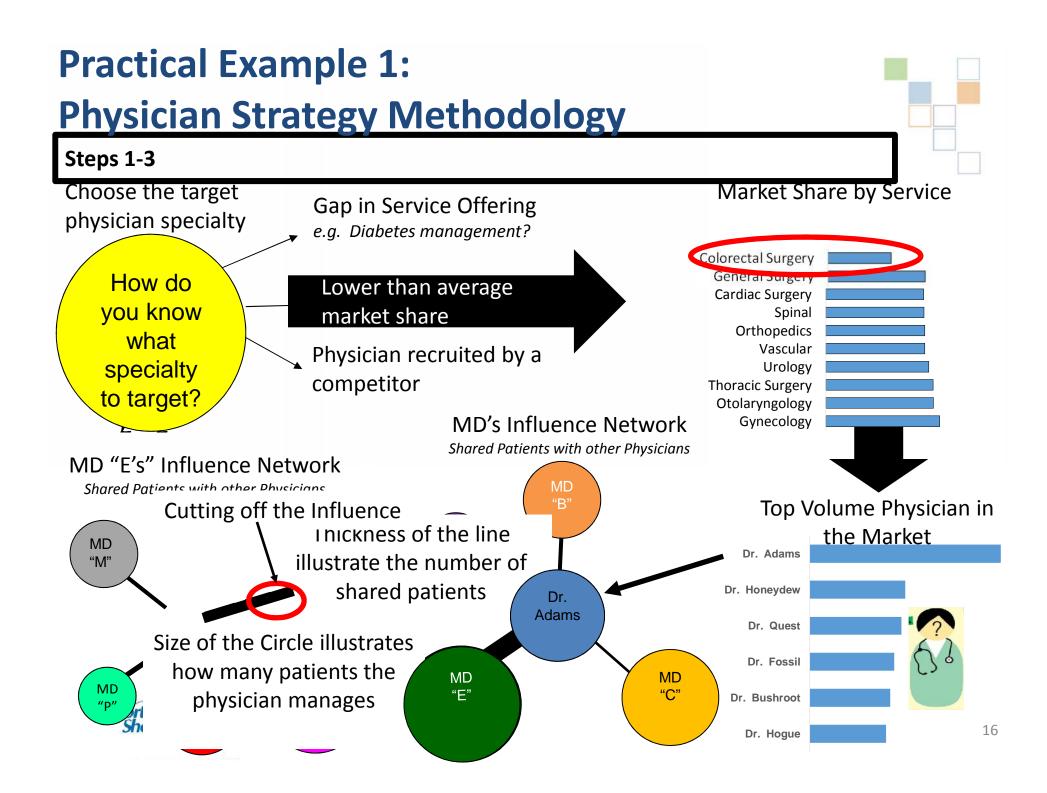
Step 1

Identify top discharging physicians and understand their influence network.

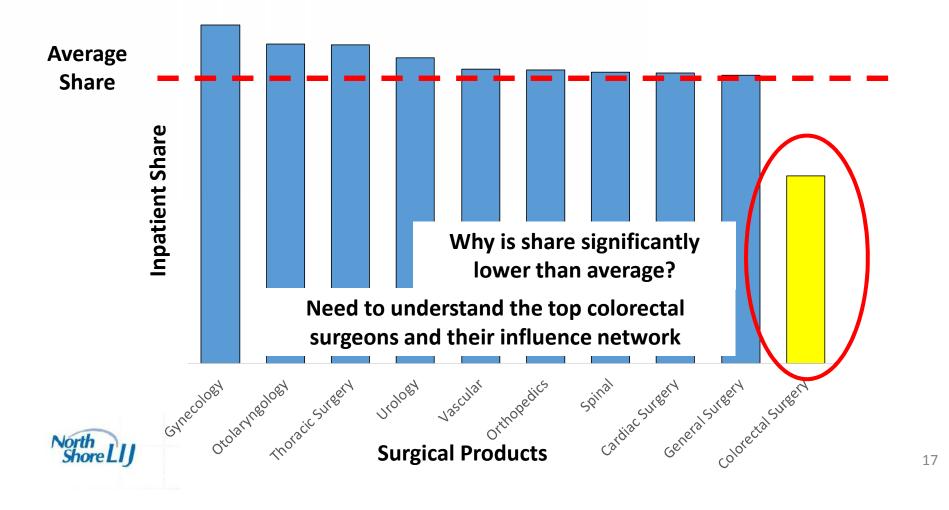
Step 3

Identify top referring physicians and assess whether they are aligned or non-aligned with the organization





ID surgical subspecialties for targeted geographic area.✓ Using market share



For this surgical specialty with low market share, identify top discharging physicians and run their influence network.

# Only 1 Physician is employed/aligned with the health system.

#### Top Discharging Colorectal Surgeons In the Market

Look at Dr. Adam's Influence Network

Physician <sup>1</sup>		System Status	Discharges		
Dr.	Adams	Non-aligned	350		
Dr.	Honeydew	Employed	175		
Dr.	Quest	Non-aligned	168		
Dr.	Fossil	Non-aligned	155		
Dr.	Bushroot	Non-aligned	147		
Dr.	Hogue	Non-aligned	140		



Identify top referring physicians and assess whether they are aligned or nonaligned with the organization

Dr. Stone is NOT aligned with the health system and shares the largest number of patients with Dr. Adams

	Network Physician Name <sup>1</sup>	Primary Specialty	Status	Office Address	Max Shared Patient Count	
Physicians	Dr. Stone	Internal Medicine	Non-aligned	101 Lakeview Drive, Hope City, ZIP 11111	450	Unique
who share at least 1 patient	Dr. Quinn	Gastroenterologist	Non-aligned	164 Carefree Road, Beaumont Hill, ZIP 12345	112	number of patients shared with
with Dr. Adams	Dr. Molloch	Internal Medicine	Employed	145 Sea view Drive, Hope City, ZIP 11111	100	Dr. Adams
North	Dr. Niemann	General Surgery	Non-aligned	122 Beauty Lane, Crescent Ville, ZIP 19087	40	
SnoreLI	1. pseudonym					19

#### **Dr. Adam's Influence Network**

# **Practical Example 1:**

## Physician Strategy Methodology

Identify top referring physicians and assess whether they are aligned or nonaligned with the organization

Dr. Stone is the PCP to align with because she shares the most patients with Dr. Adams giving the Health System the best chance at getting more colorectal surgery

	Network Physician Name	Primary Specialty	Status	Office Address	Max Shared Patient Count	
ſ	Dr. Adams	Colorectal Surgery	Non-aligned	245 City Drive, Great Lodge, ZIP 22222	450	7
Physicians who share	Dr. Powell	General Surgery	Non-aligned	300 South Banks Lane, New Park Way, ZIP 2222	350	Unique number of
at least 1 – patient with Dr. Stone	Dr. Blake	Cardiac Surgery	Employed	172-65 Honey Lane, Willow, ZIP 11111	250	<ul> <li>patients</li> <li>shared with</li> </ul>
	Dr. Burns	Oncology	Employed	172-65 Honey Lane, Willow, ZIP 11111	100	Dr. Stone
	Dr. Honeydew	Colorectal Surgeon	Employed	145 Sea view Drive, Hope City, ZIP 11111	45	
North Shore LIJ 1. pseudonym					20	

#### Dr. Stone's Influence Network

Using these data models over the past 4 years the Health System has increased its full-time medical staff from 1,900 to 2,700 physicians.









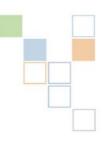
#### **Practical Example 2: Urgent Care Planning**

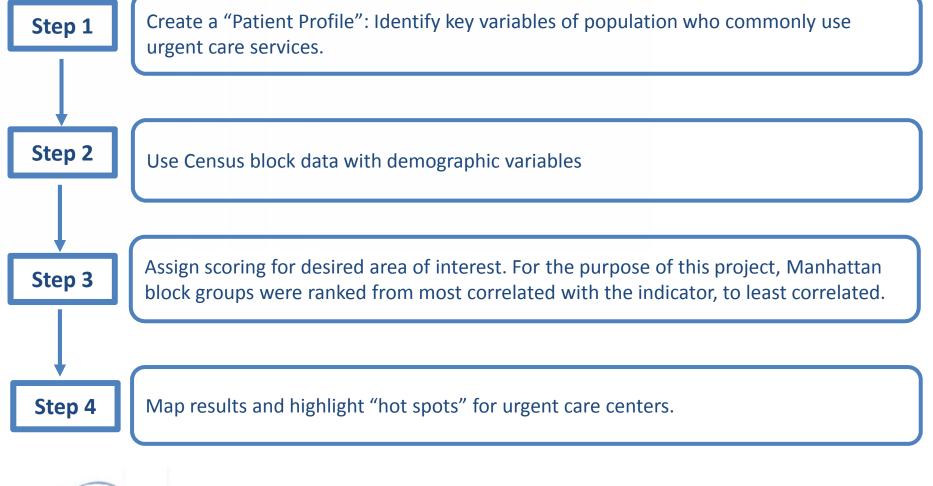


# **Business Development Question:** Where are the best locations to develop urgent care centers?

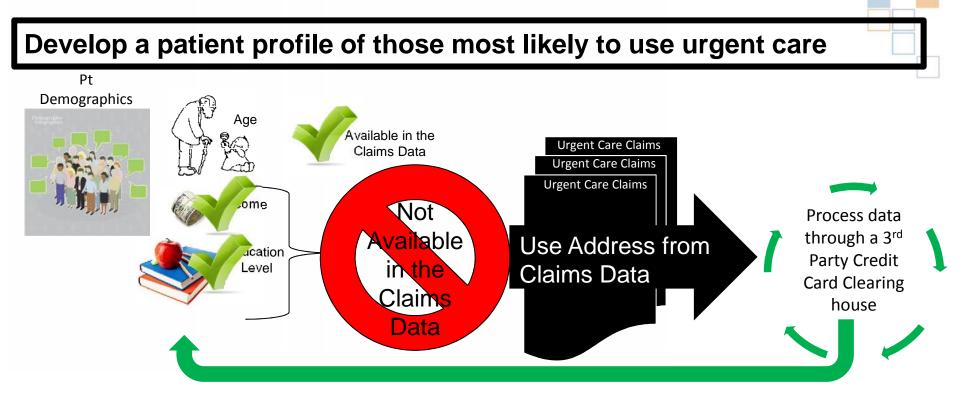


#### Practical Example 2: Urgent Care Center Planning Methodology





# **Practical Example 2: Urgent Care Center Planning**

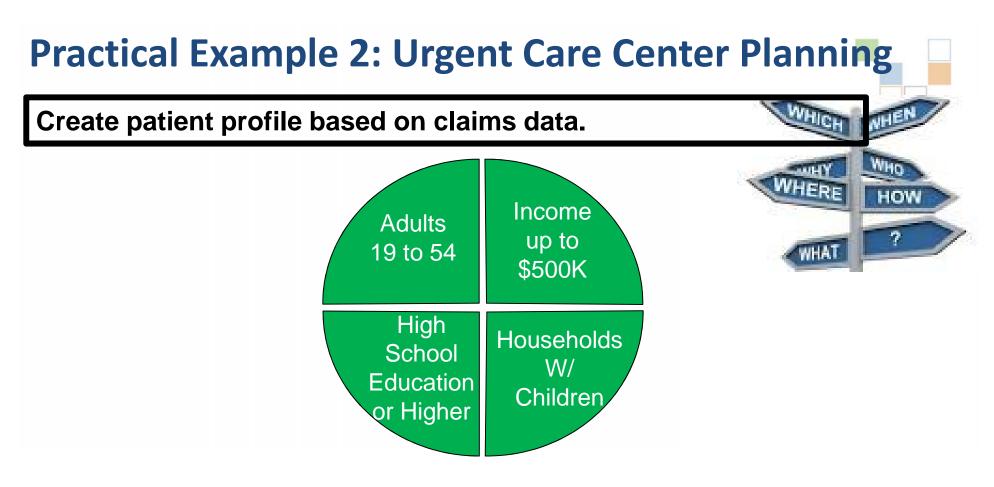


#### Secondary Research: Indicates households with children use Urgent Care



Households with Children





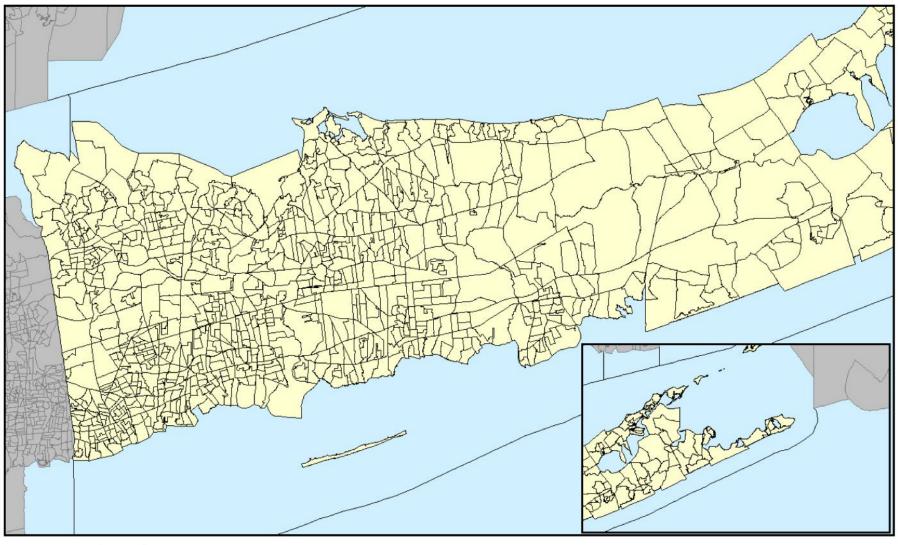


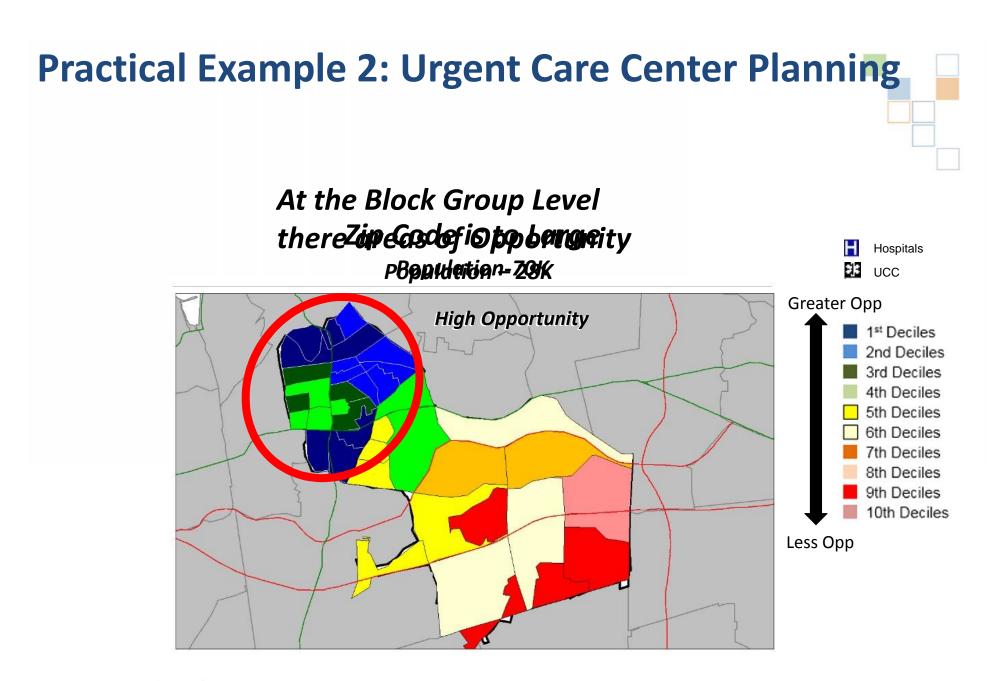
Now with a patient profile you can start using block level census data and ED treat & release market data to start ranking communities



#### **Practical Example 2: Urgent Care Center Planning**

There 932 Block Groups in Suffolk County; A population of between 600-3,000 defines a block group.







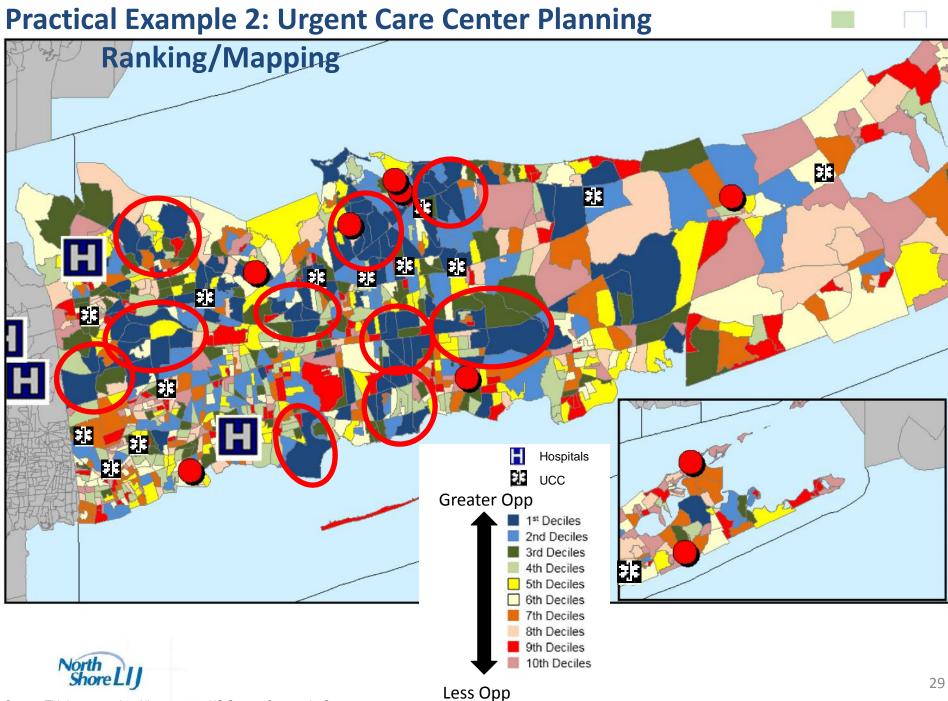
## Practical Example 2: Urgent Care Center Planning Scoring/Ranking

Analyze block group data and cohort the block groups into deciles.

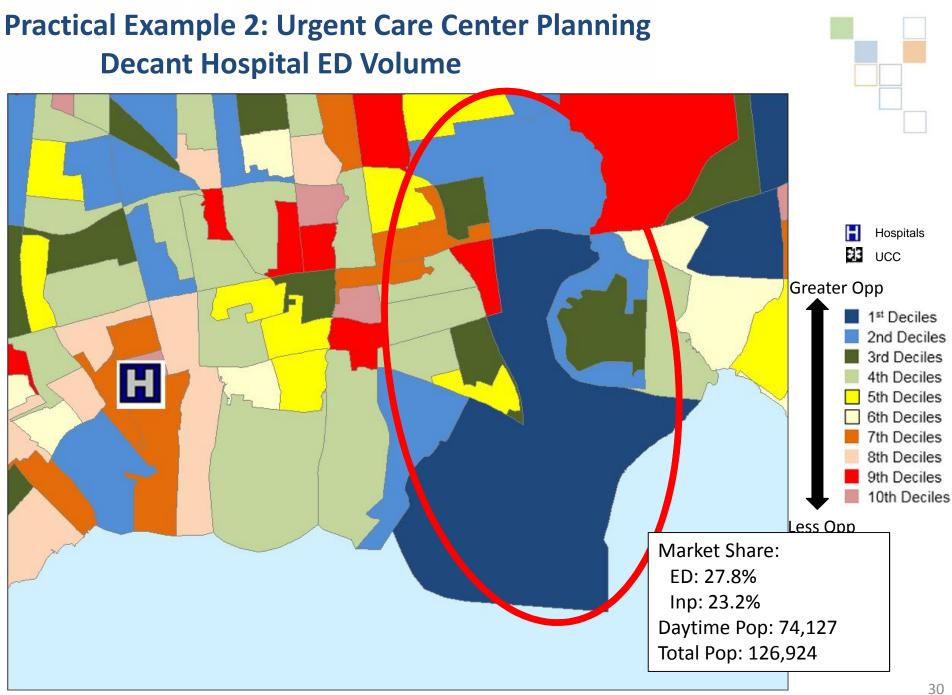
 ✓ More favorable the block group is for a metric, the closer it gets to the top rank of "881"

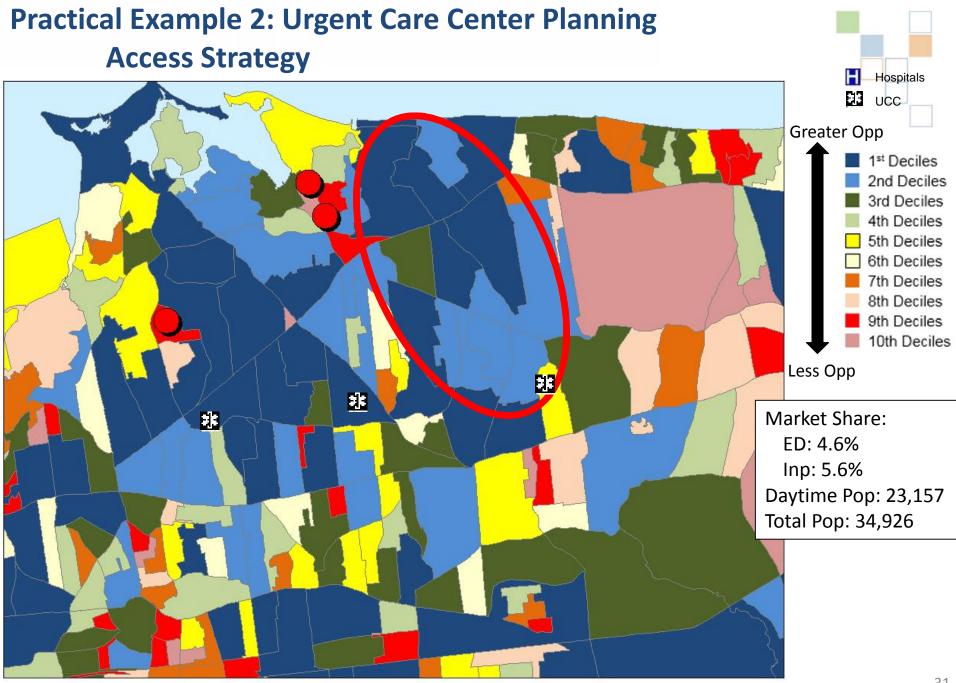
Step 2 & 3

1							
•	Data Multiplier ->>						
			1			1	<b>Combined Score</b>
	Block Group	Neighborhood	Ages 19-54	Ages 0-18	Avg. Income	High School +	
Decile 1	XXXXXXXXXXXX	Sunnyside	880	877	758	880	3,395
	XXXXXXXXXXXX	Abbey Road	864	799	744	873	3,280
Decile 2	XXXXXXXXXXXX	Bourbon	744	470	716	793	2,723
	XXXXXXXXXXXX	The Castro	750	413	799	761	2,723
Decile 3	XXXXXXXXXXXX	Dixie	362	476	831	747	2,416
	XXXXXXXXXXXX	Atlantic Coast	776	349	530	758	2,413
Decile 4	XXXXXXXXXXXX	Parliament	580	549	370	686	2,185
	XXXXXXXXXXXXX	Primrose	687	332	524	642	2,185
				•			
				•			
				•			
Decile 9	xxxxxxxxxxx	Red Rock	335	470	92	217	1,114
	~~~~~~	Bowery	60	79	843	130	1,112
North Decile 10	xxxxxxxxxxxx	Tobacco Row	115	162	342	127	746
JECHE TO	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Thunder Alley	68	56	564	43	731



Source: Third party vendor; Allocate; 2015 US Census Community Survey



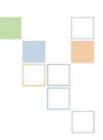


Source: Third party vendor; Allocate; 2015 US Census Community Survey

#### Practical Example 2: Urgent Care Center Planning Resulting Plan



#### **Practical Example 3: Preventable Admissions**

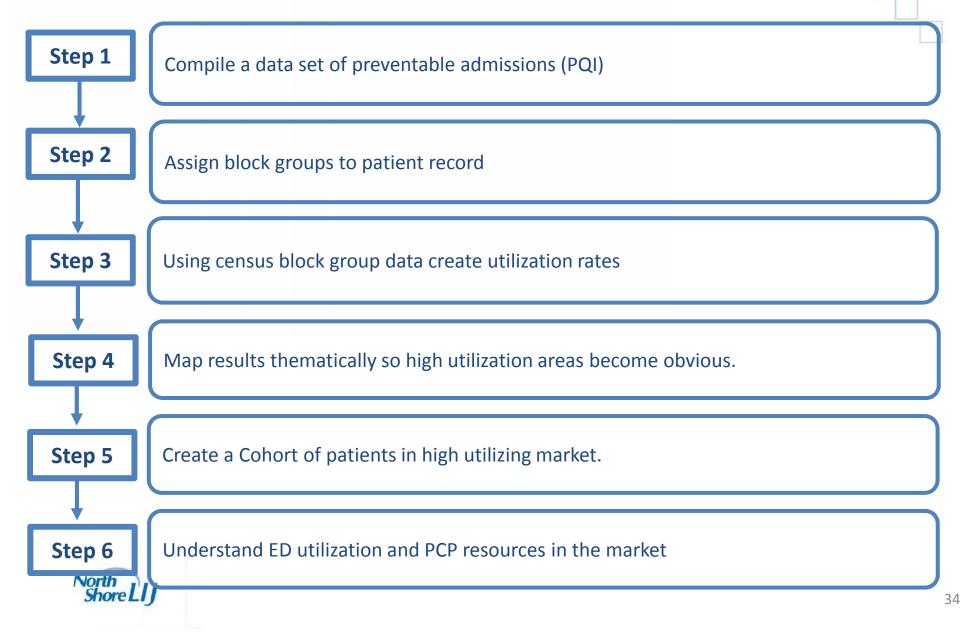


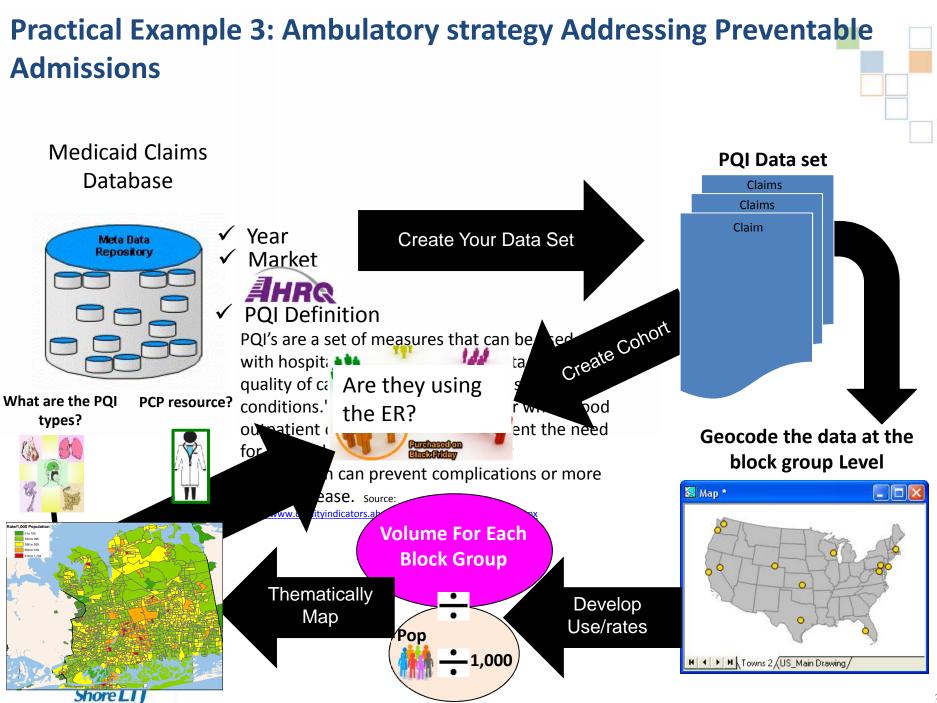
# **Community Health Question:** What are the communities that demonstrate high rates of preventable admissions?



#### **Practical Example 3:**

#### **Ambulatory Strategy Addressing Preventable Admissions**





### **Practical Example 3: PQI Detail**



Agency for Healthcare Research and Quality Advancing Excellence in Health Care

Acute PQI's PQI 10 Dehydration Admission

PQI 11 Bacterial Pneumonia Admission

PQI 12 Urinary Tract Infection Admission

#### **Diabetes PQI's**

PQI 01 Diabetes Short-term Complications PQI 03 Diabetes Long-term Complications PQI 14 Uncontrolled Diabetes PQI 16 Lower-Extremity Amputation W/Diabetes **Circulatory PQI's** PQI 07 Hypertension Admission

PQI 08 Heart Failure Admission

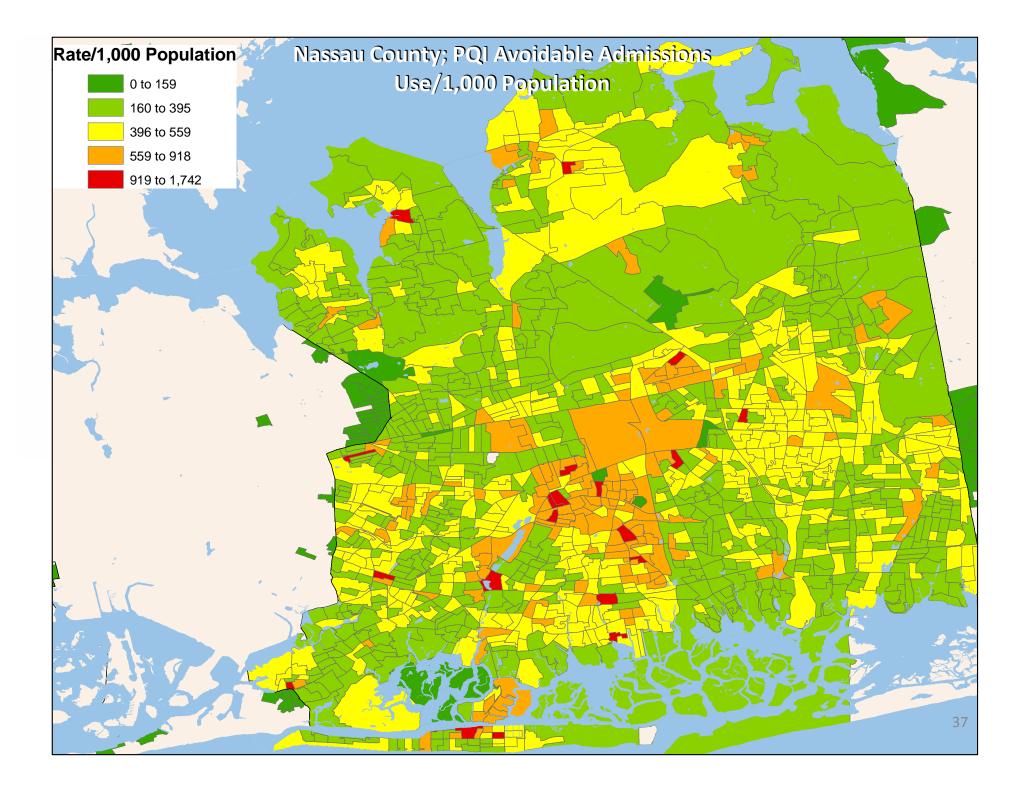
PQI 13 Angina Without Procedure Admission

**Respiratory PQI's** PQI 05 COPD or Asthma in Older Adults

PQI 15 Asthma in Younger Adults

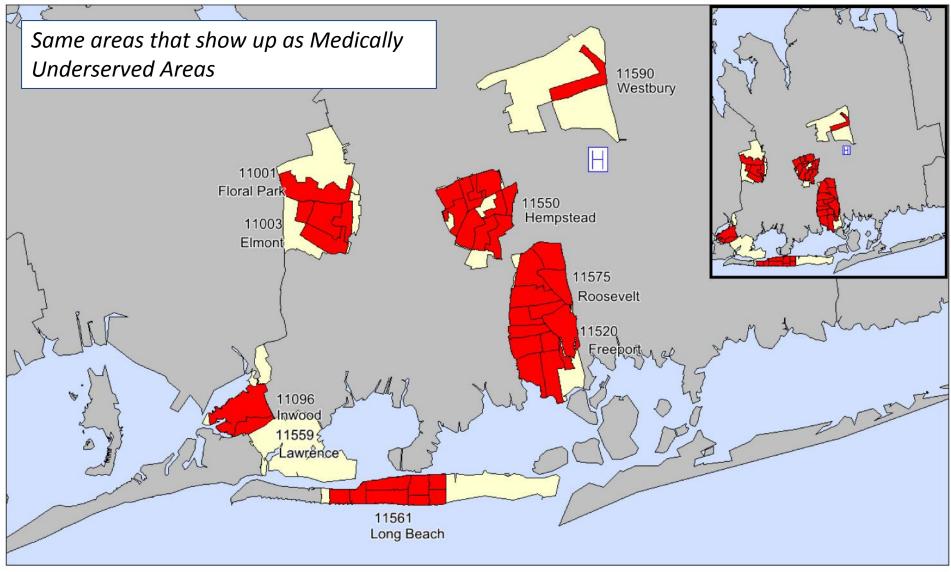
**Pediatric PQI's** PQI 02 Perforated Appendix

North Shore LIJ PQI 09 Low Birth Weight



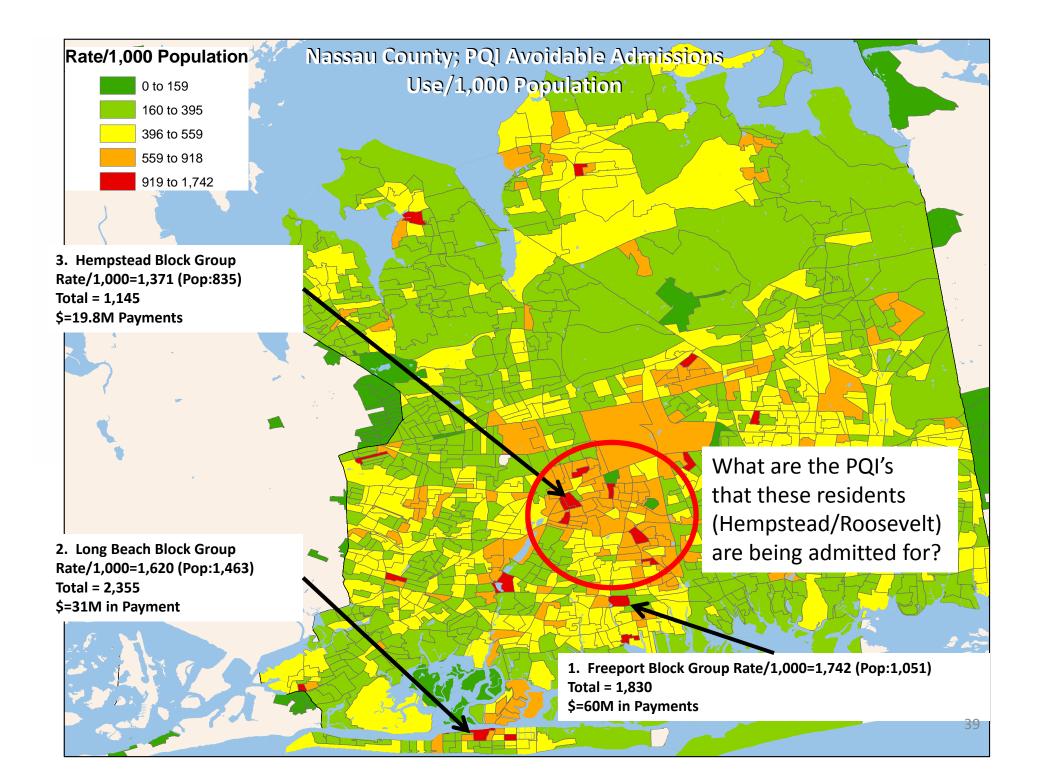


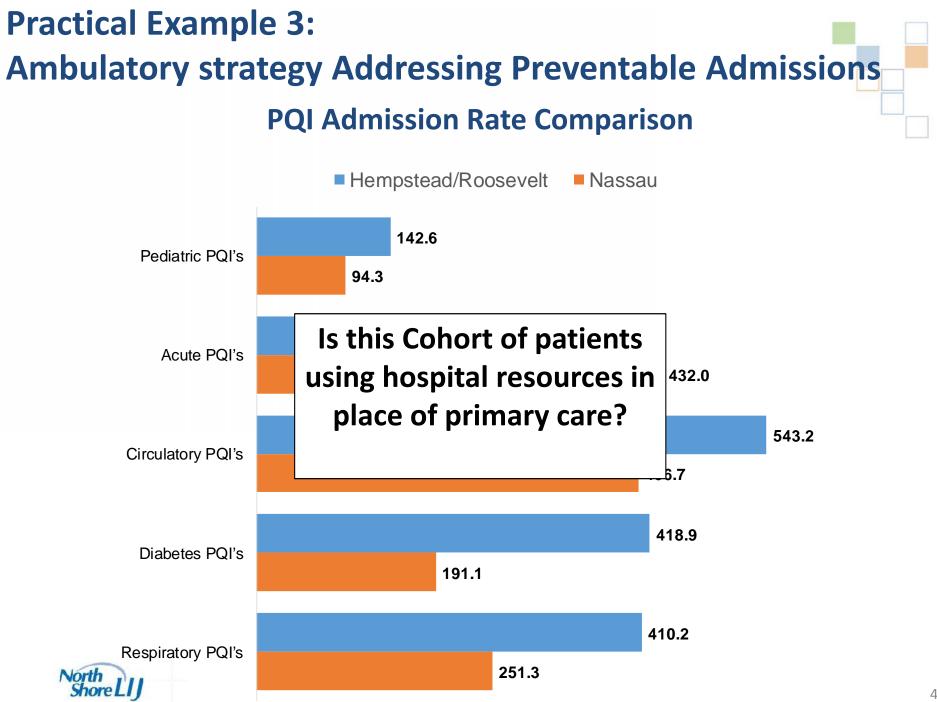




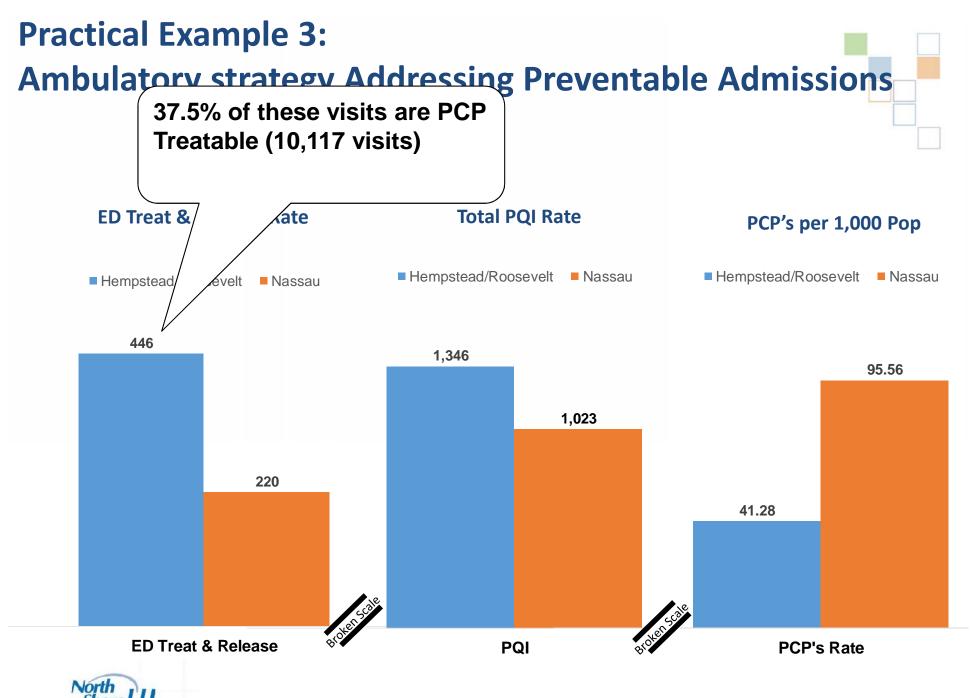
Shore LIJ

Source: US Department of Health and Human Services; Health & Services Administration; MUA/P by State & County (accessed 9-29-2014)



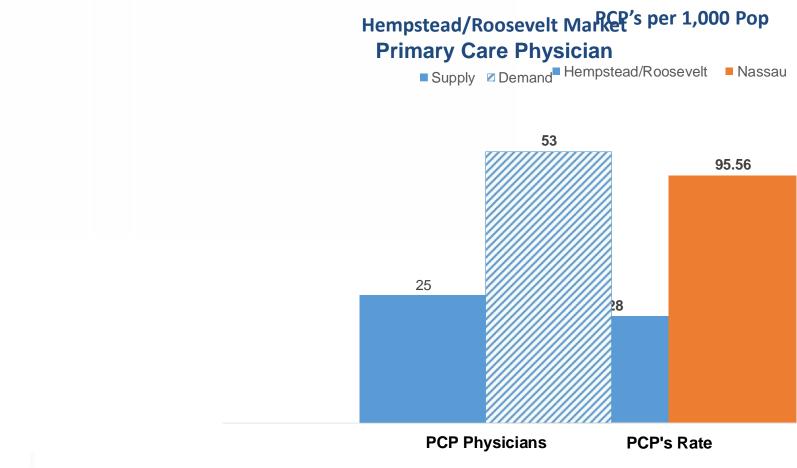


Source: SPARCSS2014.08.26;Third party population vendor



#### **Practical Example 3:**

Am The data suggest that this market is using the hospital inpatient services and Emergency Department as it's primary Care.

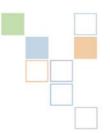














## The Most Important Data Collection Tool Costs ~ \$1.50



North Shore LIJ