# YOU CAN'T EAT AN ELEPHANT IN ONE BITE – BENDING THE COST CURVE IN A MULTISPECIALTY PRACTICE

Jonathan Nasser, MD
Scott Hines, MD
Clinical Transformation Officers
Crystal Run Healthcare
October 4, 2012



### About Crystal Run Healthcare

- Physician owned MSGP in NY State, founded 1996
- 300 providers, 15 locations
- JV ASC, Urgent Care, Diagnostic Imaging, Sleep Center, High Complexity Lab
- Early adopter EHR (NextGen®) 1999
- Accredited by Joint Commission 2006
- NCQA-designated Level III PCMH 2009
- Crystal Run-CDPHP Focused EPO 2010





### About our Region

- Small group practices
- Predominantly Fee for Service
- Multiple Payors
- Improved local quality of care, less outmigration to NYC
- Dartmouth atlas designation as high expenditure



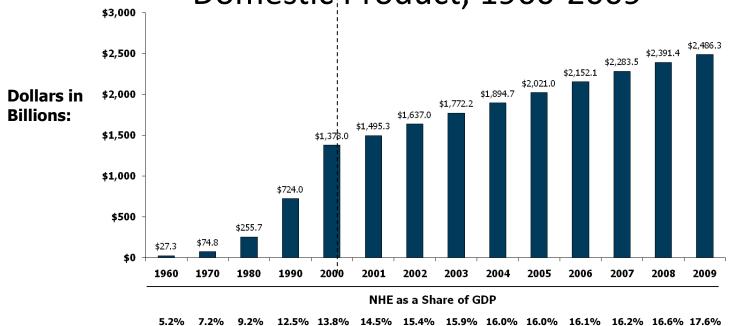
## About Crystal Run Healthcare ACO

- Single entity ACO
- Pioneer ACO finalist
- Pursuing NCQA ACO accreditation
- April 2012: MSSP participant
  - 9762 attributed beneficiaries
  - 82% primary care services within ACO



### MANDATE FOR CHANGE: COST/ACCESS

National Health Expenditures and Their Share of Gross Domestic Product, 1960-2009



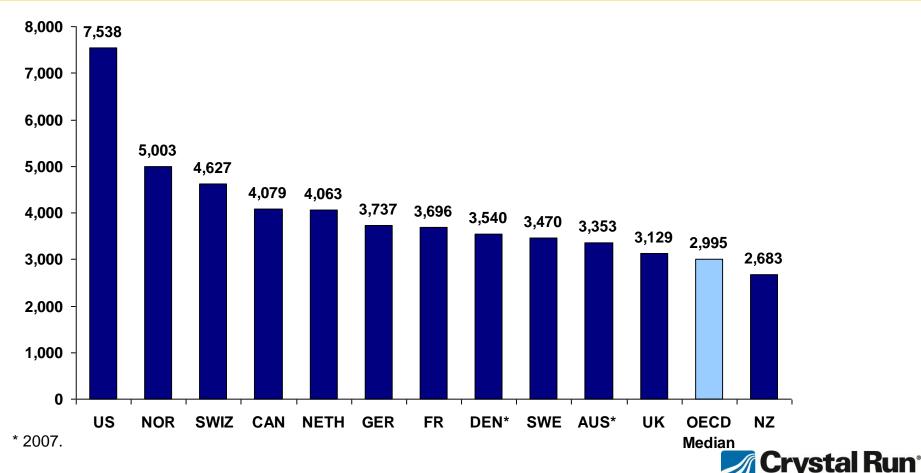
Source: Centers for Medicare and Medicaid Services, Office of the Actuary, National Health Statistics Group, at <a href="http://www.cms.hhs.gov/NationalHealthExpendData/">http://www.cms.hhs.gov/NationalHealthExpendData/</a> (see Historical; NHE summary including share of GDP, CY 1960-2009; file nhegdp09.zip).





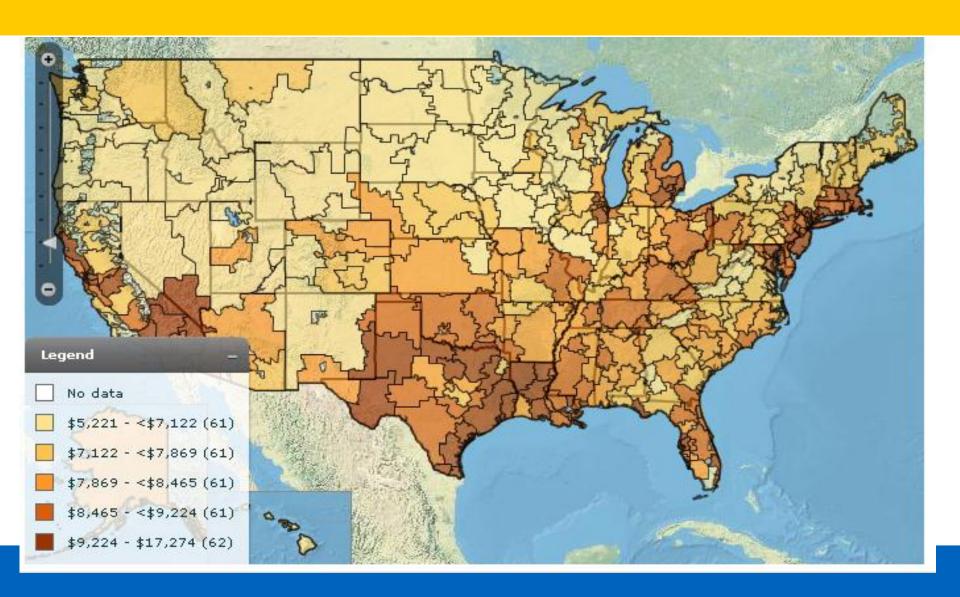
# Health Care Spending per Capita, 2008 Adjusted for Differences in Cost of Living

#### **Dollars**



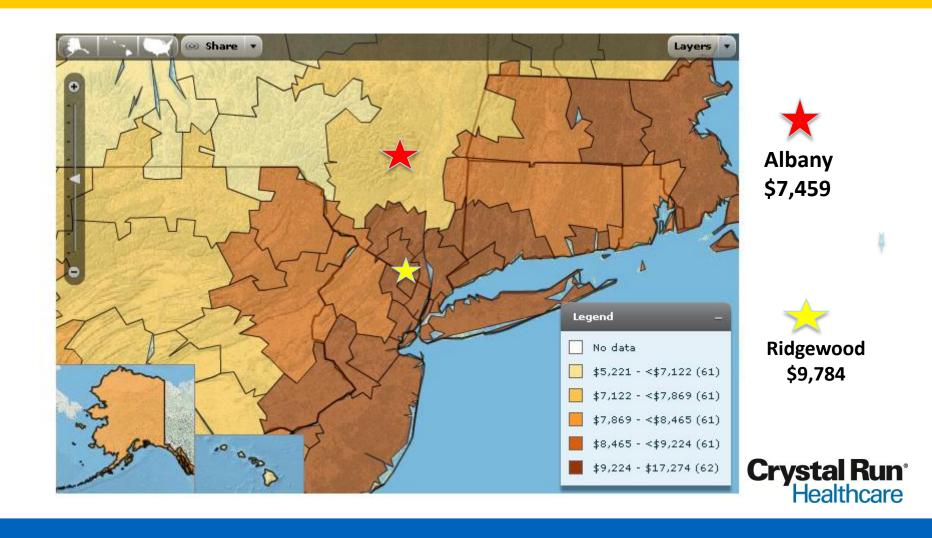
Source: OECD Health Data 2010 (Oct. 2010).

### Dartmouth Atlas



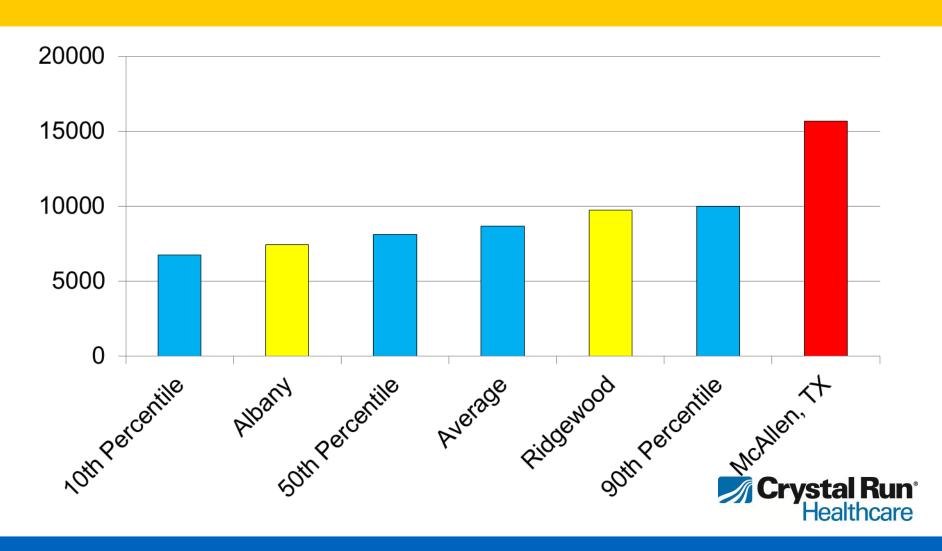
### Crystal Run Healthcare ACO

Regional Data



### Regional Medicare Cost Comparison

Souce: Dartmouth Atlas, Year 2007



# Crystal Run Healthcare ACO

Internal Measures of Cost

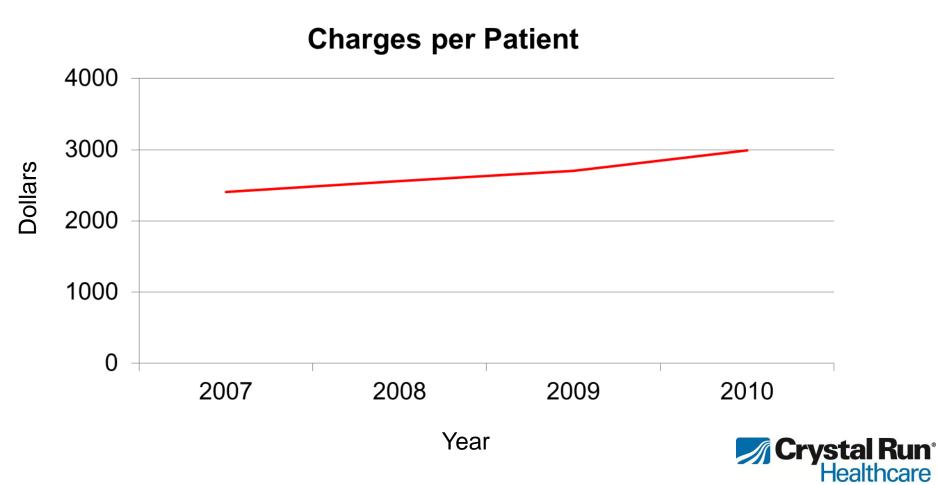
Cost per specialty (department level)

Cost per patient (provider level)

Variation reduction (diagnosis level)



# Crystal Run Healthcare ACO Internal Cost Trend



# Crystal Run Healthcare ACO: Bending the cost curve

### Cultural Change

Specialty Consultations

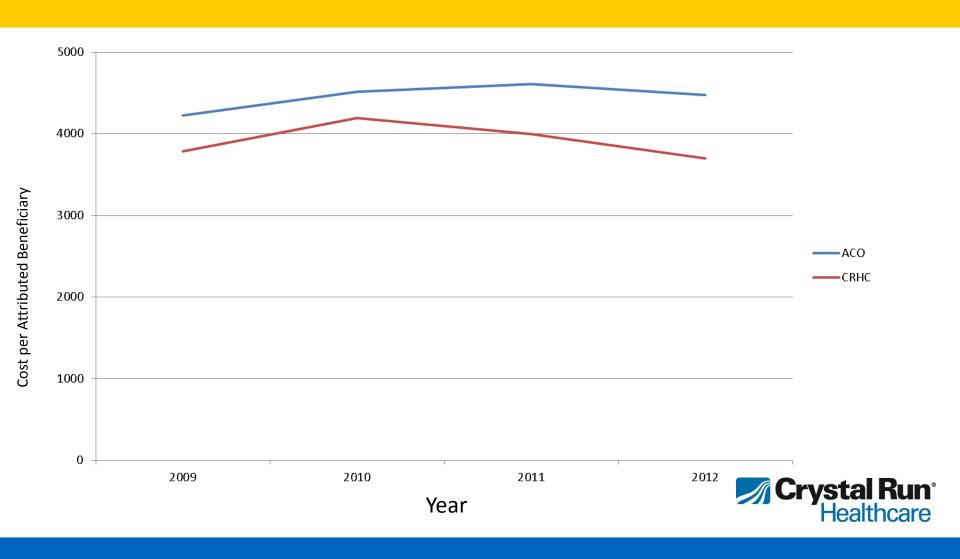
- Infrastructural Change
  - CARETEAM

- Behavioral Change
  - Variation Reduction

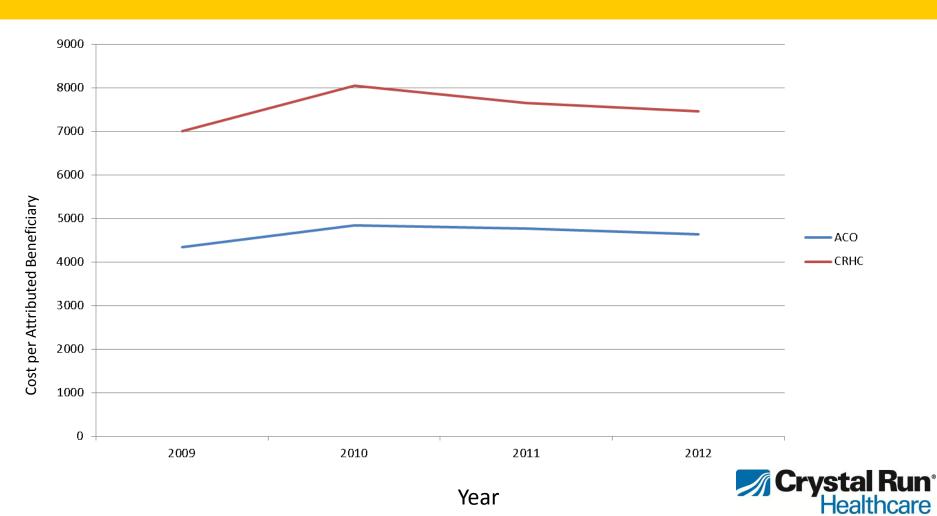


# **ACO Comparison**

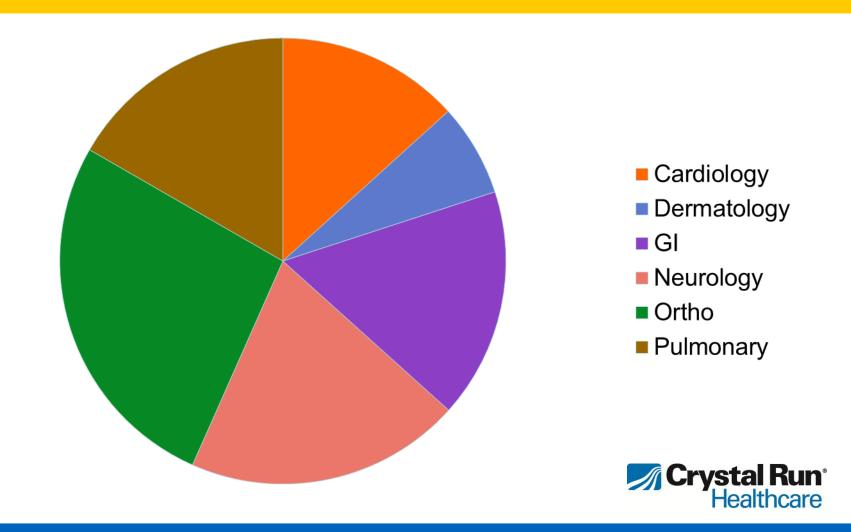
PCP Utilization



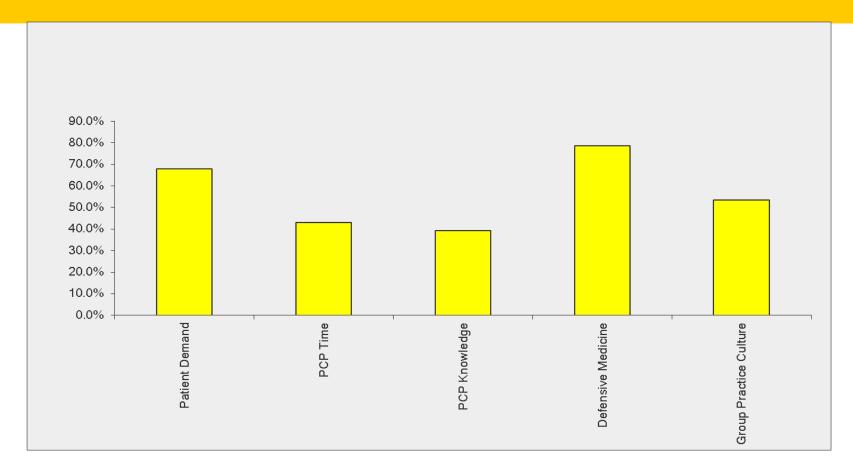
# ACO Comparison Specialist Utilization



# Specialist Survey Improving Value of Consults

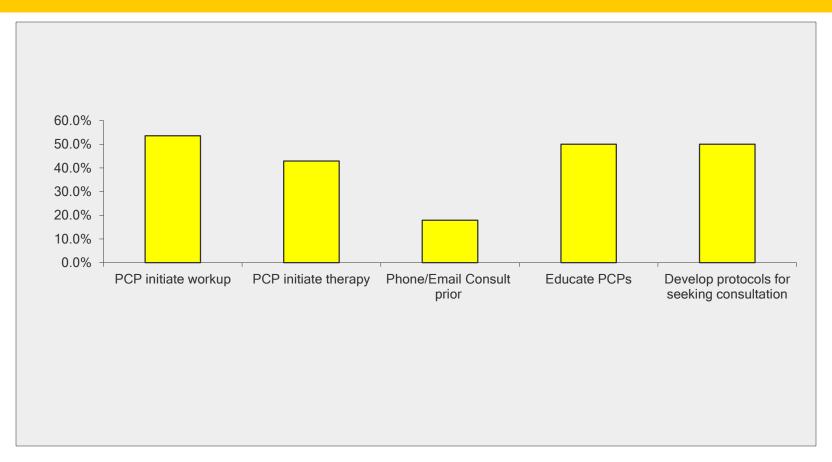


# Specialist Survey Reasons Unnecessary Consults



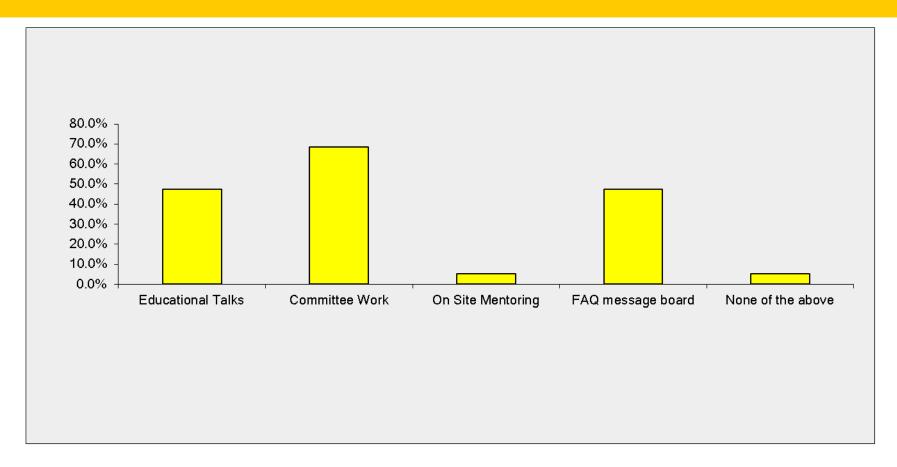


# Specialist Survey Improving Quality of Consults





# Specialist Survey How would you help?





# Improving Value of Consultations FLOG

Home

The Page

Buzzwords

**Clinical Guidelines** 

Flog

#### Flog

#### What is the Flog?

The FLOG is a venue for communication where providers can post a question to a specific specialty. Once a question is posted, the specialist designated to maintain the FLOG for his/her specialty will enter a response in a timely fashion. All providers who are signed up for the service will then receive an e-mail notification that a new post has been created. Obviously, urgent issues need to be discussed by phone in the usual manner.

flog@crystalrunhealthcare.com



#### CRYSTALRUNImperry

9/12/2012 2:32 PM

#### secondary erythrocytosis due to cyanotic heart disease

Rather than solely using a target hematocrit, phlebotomy should be performed only in patients with intrusive symptoms of hyperviscosity, and then only with caution in the setting of iron deficiency. Some experts also recommend preoperative phlebotomy to improve hemostasis.

- The 2008 ACC/AHA guidelines recommend therapeutic phlebotomy for hemoglobin greater than 20 g/dL and hematocrit >65 percent, associated with headache, increasing fatigue, or other symptoms of hyperviscosity in the absence of dehydration or anemia.
- Repeated routine phlebotomies are not recommended because of the risk of iron depletion, decreased oxygen-carrying
  capacity, and stroke.

#### Manage

My Subcriptions

#### **Archive**

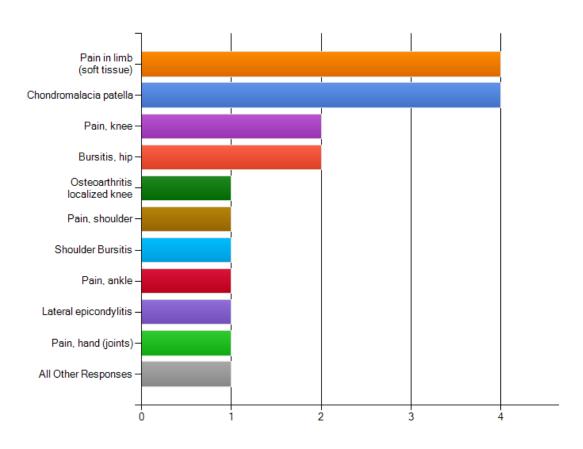
#### September

secondary erythrocytosis due to cyanotic heart disease

#### August

Antibiotic Prophylaxis for patient with joint replacments
Tick bite
DM2 or not DM2, that is th question

# Unnecessary Consults – Orthopedics





# Improving Value of Consultations PCP90x Series

- Endocrinology, Cardiology, Pulmonology, Orthopedics
- Orthopedics:
  - Define Indications for Orthopedics Consultation and actions to be taken prior to consultation
  - 2. Understand the diagnosis and management of common orthopedic conditions and discuss the role of injections in primary care
  - 3. Understand the physical examination of the knee and the basic initial management of common disorders of the knee



### Improving the Value of Consultations

- Advantages of multispecialty practice
  - avoiding duplication of medical services
  - specialty neighborhood
  - managing over-utilization



# Cultural Change: Consultations outcomes

Primary Care / Specialty Care expenditure

Specialist Measure:

Number of total visits / Number of total pts

Primary Care Measure:

Number of PCP visits / Number of total visits



# **Cultural Change: Consultations**

before and after







# Crystal Run Healthcare ACO: Bending the cost curve

- Cultural Change
  - Specialty Consultations

- Infrastructural Change
  - CARETEAM

- Behavioral Change
  - Variation Reduction



# Infrastructural Change: CARETEAM

 Community and Residential Extenders for Transitions, Evaluation and Management

 Goal: 10% reduction in admissions, readmissions and length of stay

Focus: Medicare, High Risk Conditions



# CARETEAM

### criteria for initial home visit

- Medicare, PCP in ACO
- COPD, CHF
  - All hospitalization and urgent care visits
- Pneumonia with co-morbidities
  - All hospitalization and urgent care visits
- Diabetes
  - Hospitalizations for DKA, new onset or multiple admissions
  - Urgent Care visits for hyperglycemia



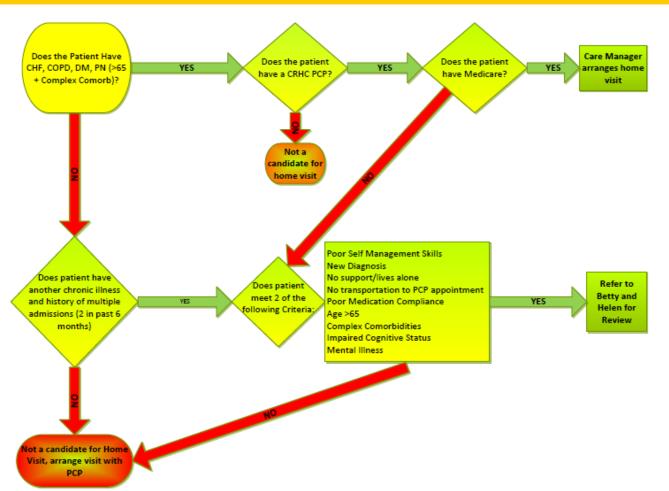
### CARETEAM

#### criteria for second home visit

- Two of the following:
  - Poor self management skills
  - New diagnosis
  - Poor support / lives alone
  - Poor medication compliance
  - Age > 65
  - Mental Illness or Poor Cognitive status
  - Clinically unstable during home visit
  - Complex co-morbidities



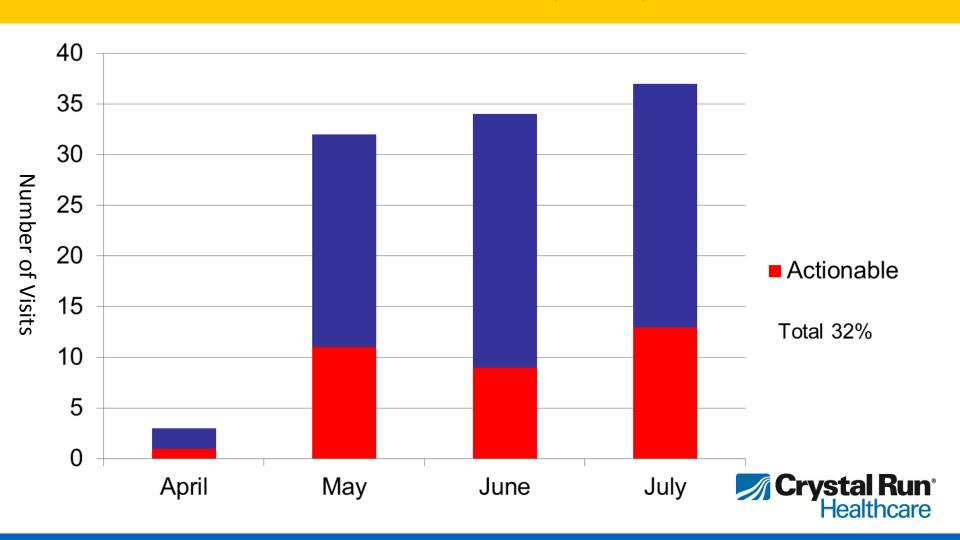
# CARETEAM process map





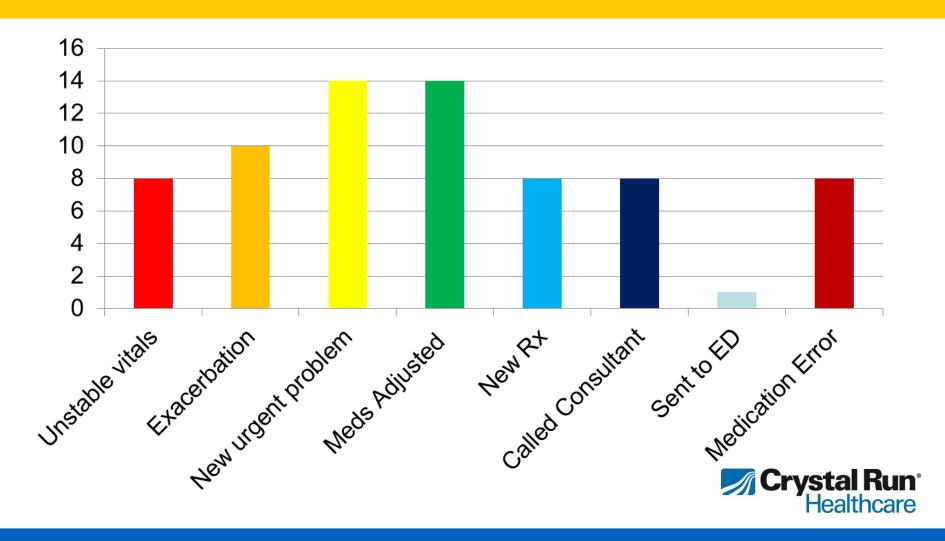
### CARETEAM

outcome of visits (n=106)



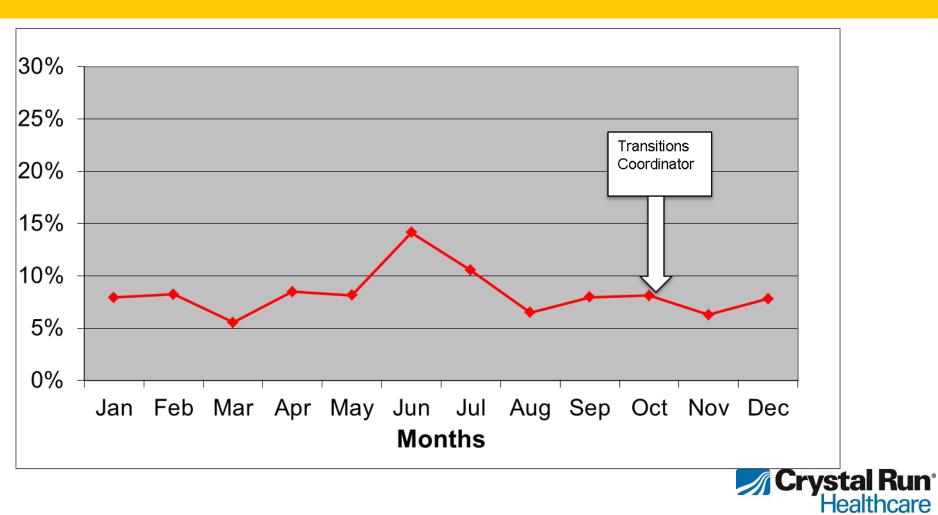
### **CARETEAM**

outcome of actionable visits (n=34)



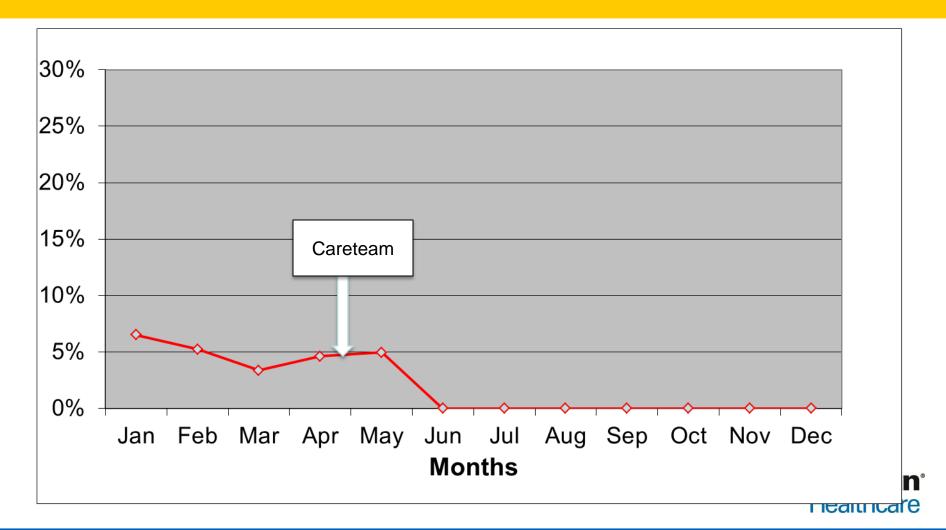
### 30 Day Readmission Rate 2011

age >65



# 30 Day Readmission Rate 2012

age > 65



### CARETEAM

- Next Steps
  - Transitions Coaching
  - Telehealth
  - Expansion to other payors
  - Focus on admissions and LOS



# Crystal Run Healthcare ACO: Bending the cost curve

- Cultural Change
  - Specialty Consultations

- Infrastructural Change
  - CARETEAM

- Behavioral Change
  - Variation Reduction



### **Variation Reduction**

■ Pilot – diabetes

■ Version 1.0 – division leader projects

■ Version 2.0 – automated tool

■ Version 3.0 – to infinity and beyond



### Variation Reduction Definition

A cost control measure which seeks to standardize care according to clinical guidelines and eliminate waste amongst those not adhering to national or local practice standards.



#### Variation Reduction Process

■ Step 1: Analyze Utilization

■ Step 2: Compare cost between physicians

Step 3: Analyze the data



- Step 1: Analyze Utilization
  - Determine total cost per diabetic per physician
  - Cost includes professional, lab, imaging and procedure charges

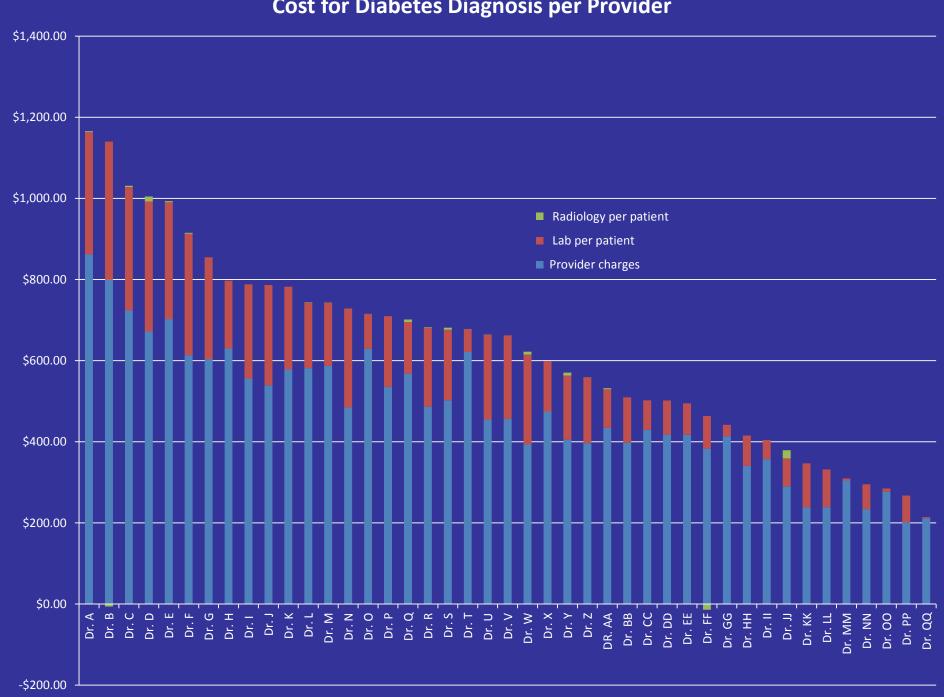


■ Step 1: Analyze Utilization

Step 2: Compare cost between physicians



#### **Cost for Diabetes Diagnosis per Provider**



■ Step 1: Analyze Utilization

Step 2: Compare cost between physicians

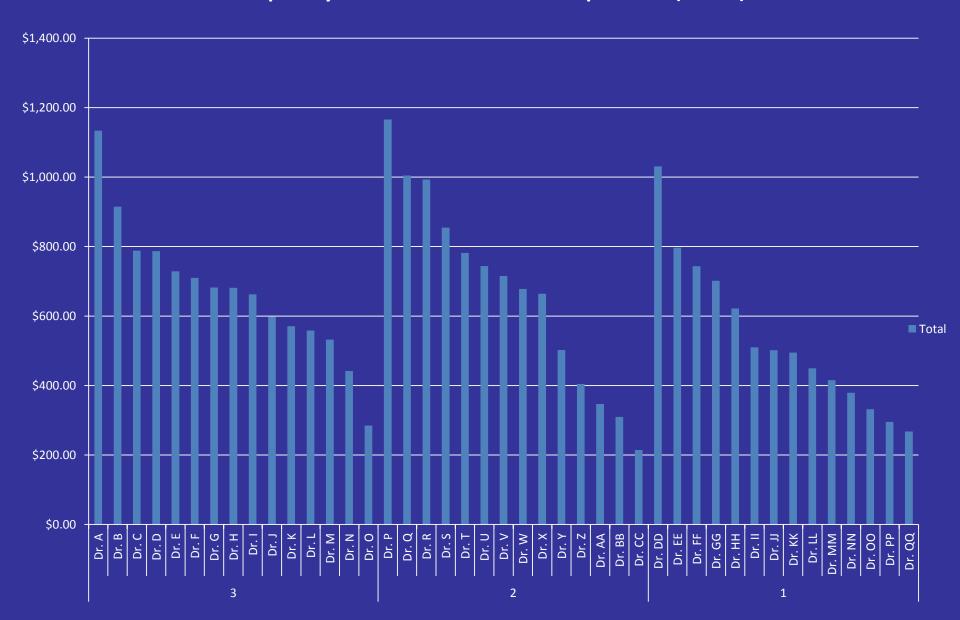
- Step 3: Analyze the data
  - What is the source of variation?



- What is the source of variation?
  - My patients are sicker



#### Cost per Patient Grouped by Number of Assessments per Visit (thirds)



- What is the source of variation?
  - "My patients are sicker"
  - "My quality is better"





- What is the source of variation?
  - "My patients are sicker"
  - "My quality is better"
  - Are best practice guidelines being followed?

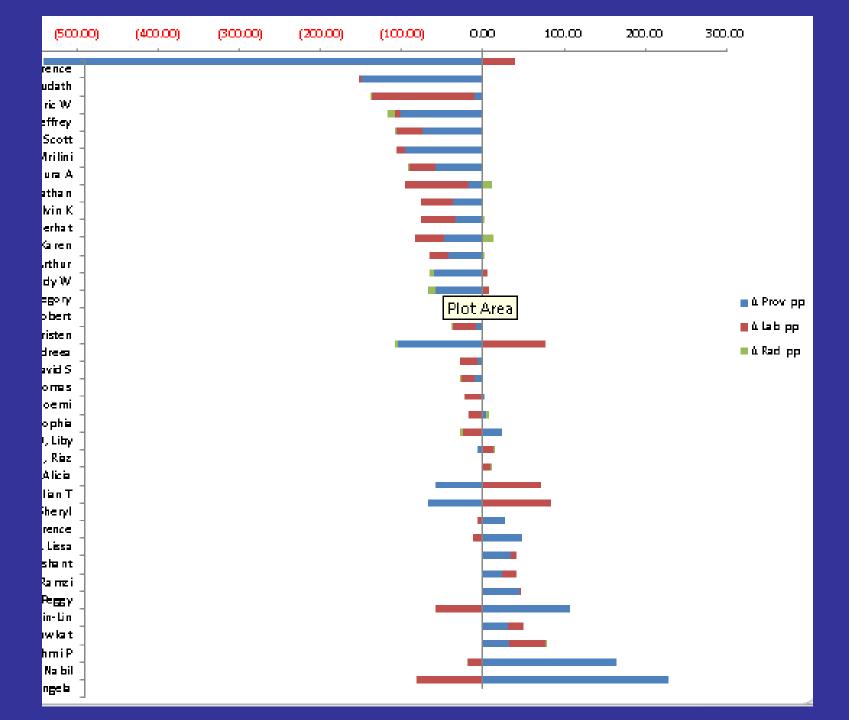


- ADA guidelines for diabetes
- Lessons learned
  - Frequency of lab tests
  - Accuracy of coding for labs
  - Frequency of office visits
  - Accuracy of coding for office visits
  - Use of consultants
  - Brief discussion on medications



- Fast forward 6 months
- Compare Q3-Q4 2010 vs. Q3-Q4 2011





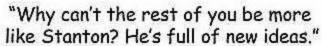
- Compare Q3-Q4 2010 vs. Q3-Q4 2011
  - Provider cost reduction: 7%
  - Lab cost reduction: 15%
  - Radiology cost reduction: 53%
  - Total cost reduction: 9%



#### **Variation Reduction**

■ This really works!!! We should apply to more diagnoses!!!







### Variation Reduction Version 1.0

- Division leader project
  - Provided with top 10 diagnoses
  - Choose a diagnosis that lends itself to best practice guidelines
  - Provided with graphs
  - Present to division
  - Develop best practice standards
  - Develop actionable items to standardize utilization

### Variation Reduction Version 1.0

■ Cardiology: CHF

Endocrinology: Thyroid nodules

■ ENT: Otitis externa

Gastroenterology: GERD

General surgery: Cholelithiasis

Hospitalists: COPD

IM/FP: Hypertension, Hyperlipidemia

Neurology: Migraine/Headache

Oncology: Breast cancer

Orthopedics: Lateral epicondylitis

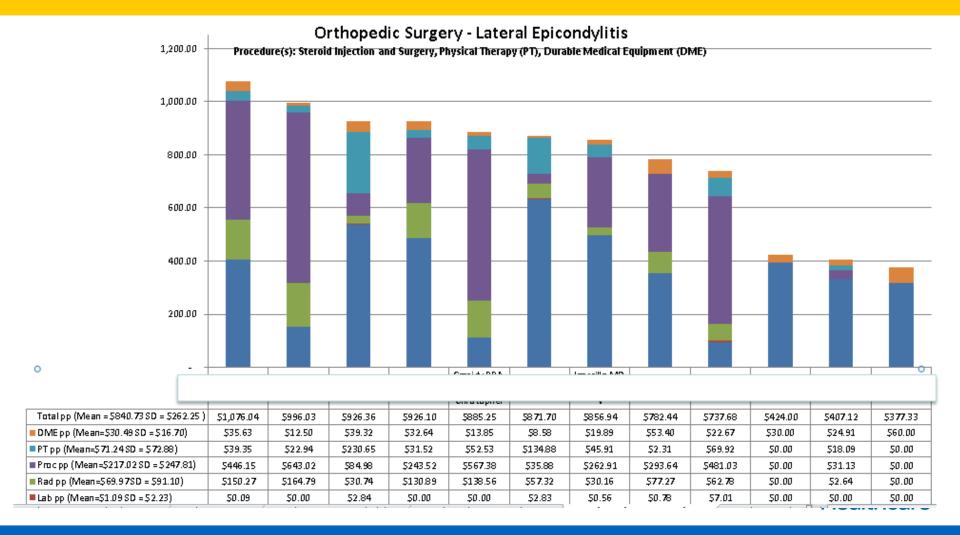
■ Pediatrics: Asthma

Pulmonology: Asthma

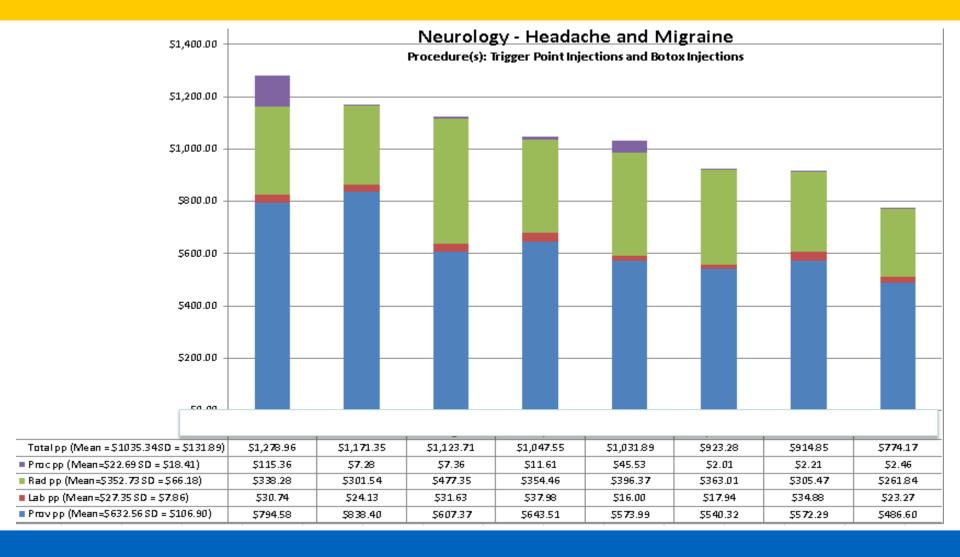
Urology: Renal mass



## Variation Reduction Version 1.0



## Variation Reduction Version 1.0



## Variation Reduction Version 1.0

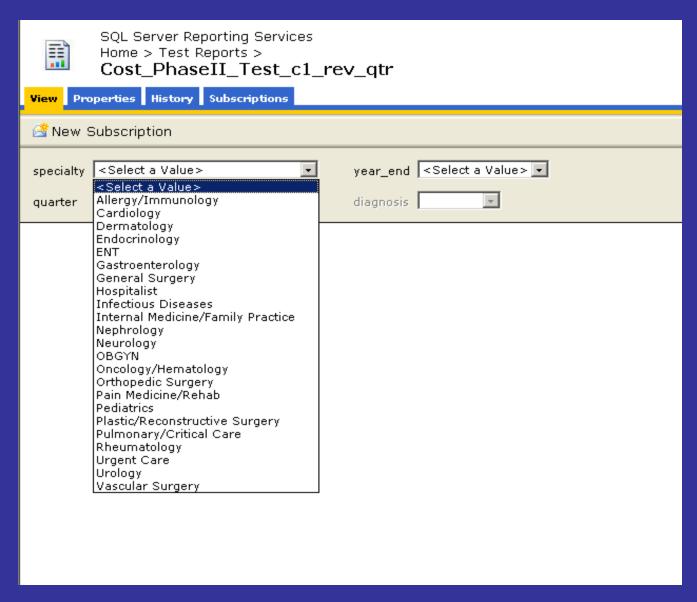
DIAGNOSIS	DEPARTMENT	TOTAL % CHANGE IN COST
CHF	Cardiology	1%
Thyroid Nodule	Endocrinology	-14%
Otitis Externa	ENT	<b>-7</b> %
GERD	GI	0%
Cholelithiasis	<b>General Surgery</b>	-9%
COPD	Hospitalists	-3%
HTN	FP/IM	4%
Hyperlipidemia	FP/IM	-6%
HA/Migraine	Neurology	-3%
Breast Cancer	Oncology	15%
Lateral Epicondylitis	Orthopedics	2%
Asthma	Pediatrics	-1%
Asthma	Pulmonology	-3%
Renal Mass	Urology	-10%

#### Variation Reduction Version 2.0

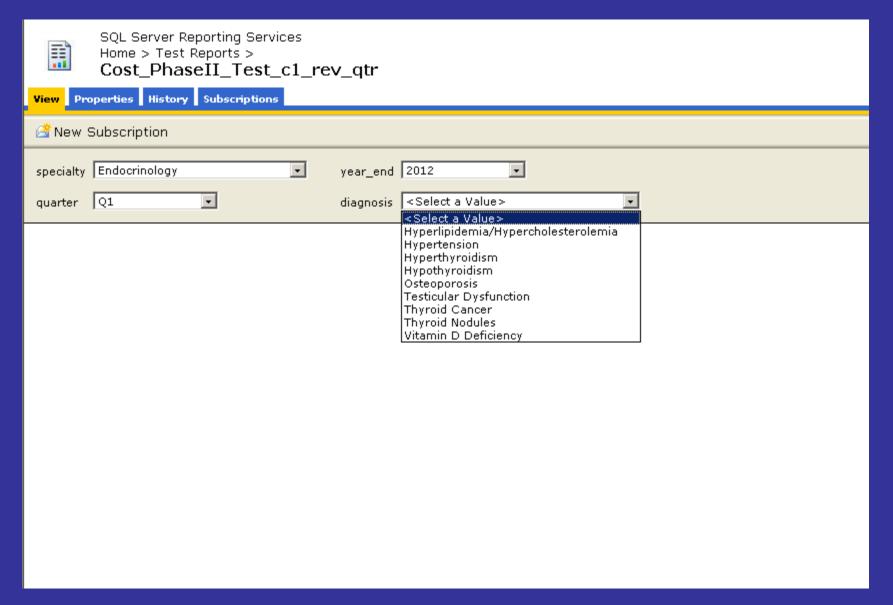
- Automated tool
- Quarterly variation reduction meetings with each department
- Used for physician engagement
- Creation of best practice guideline library
- Reduction in cost/utilization is a nice "side effect"

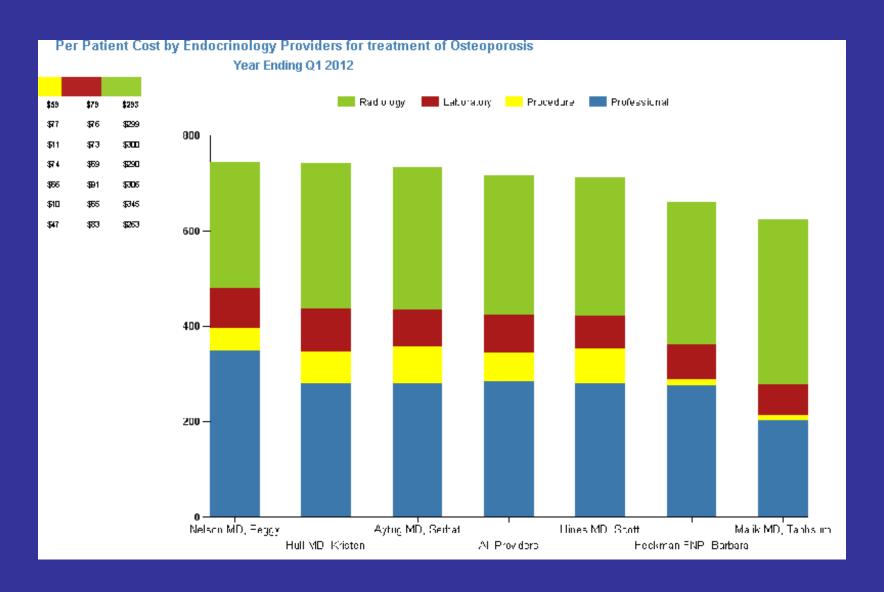


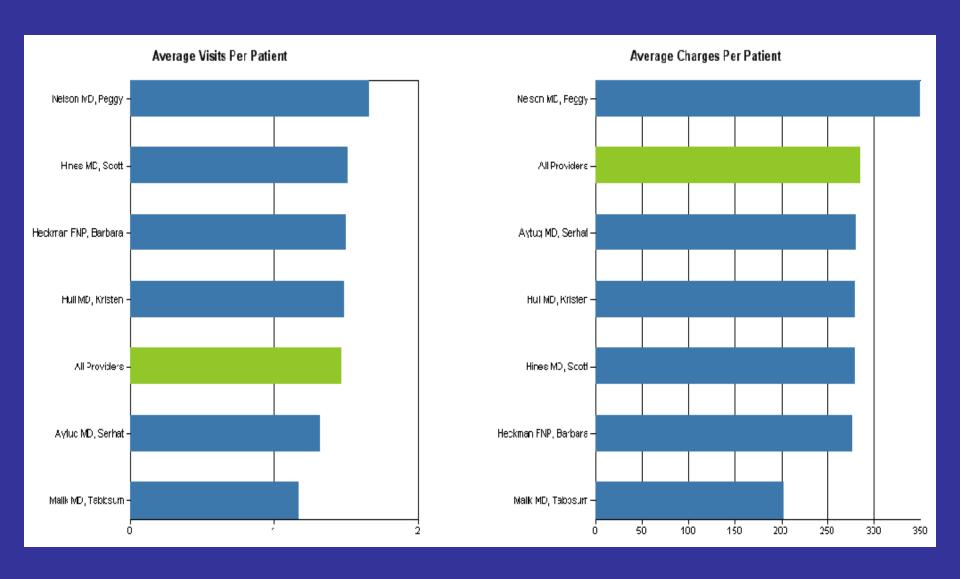
## Variation Reduction Version 2.0

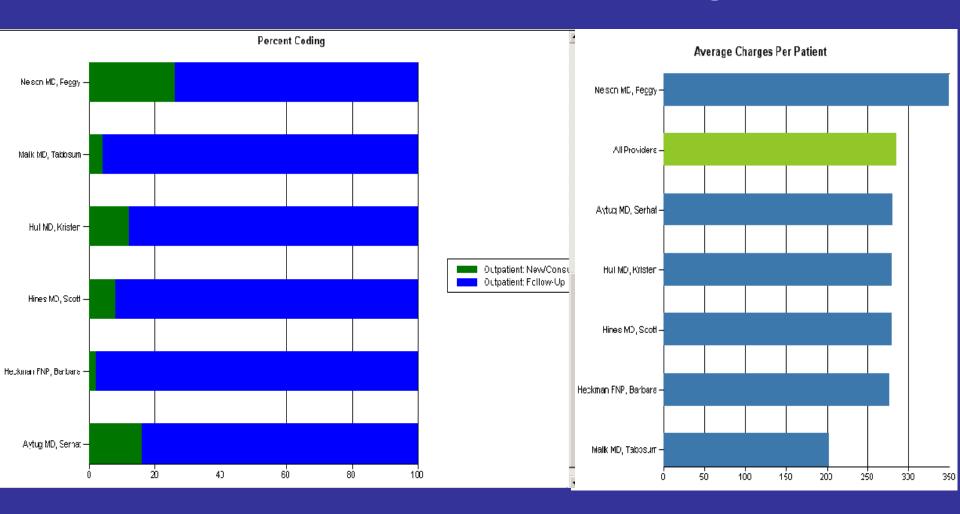


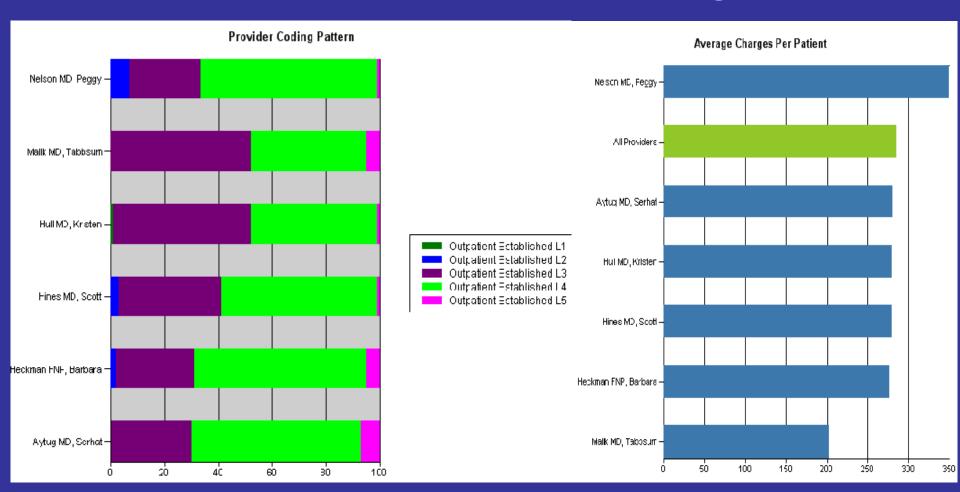
## Variation Reduction Version 2.0

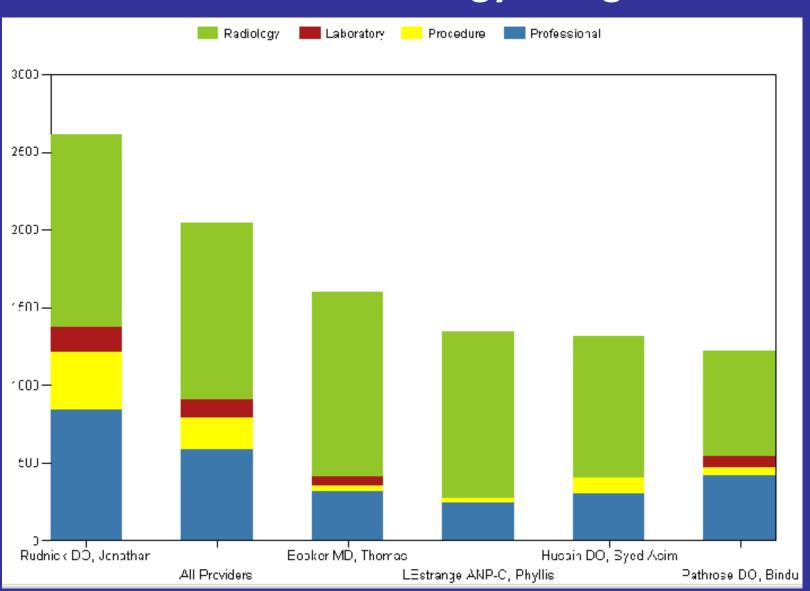




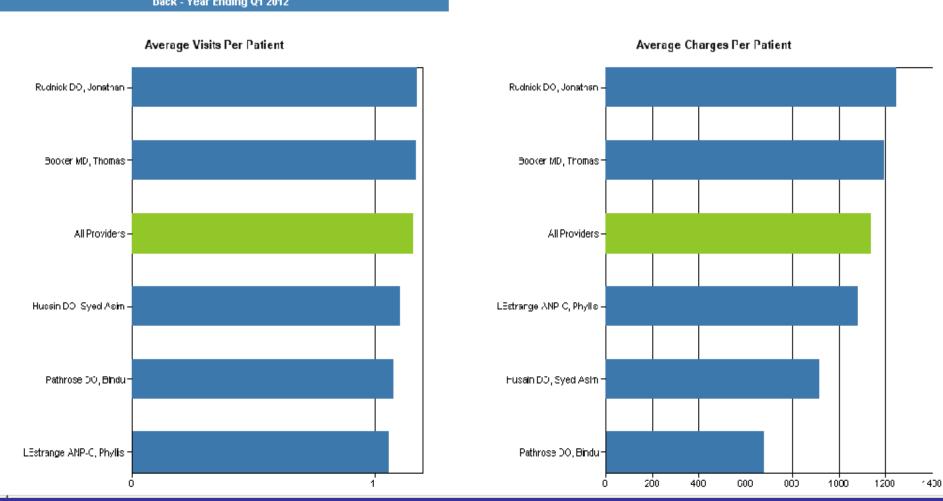


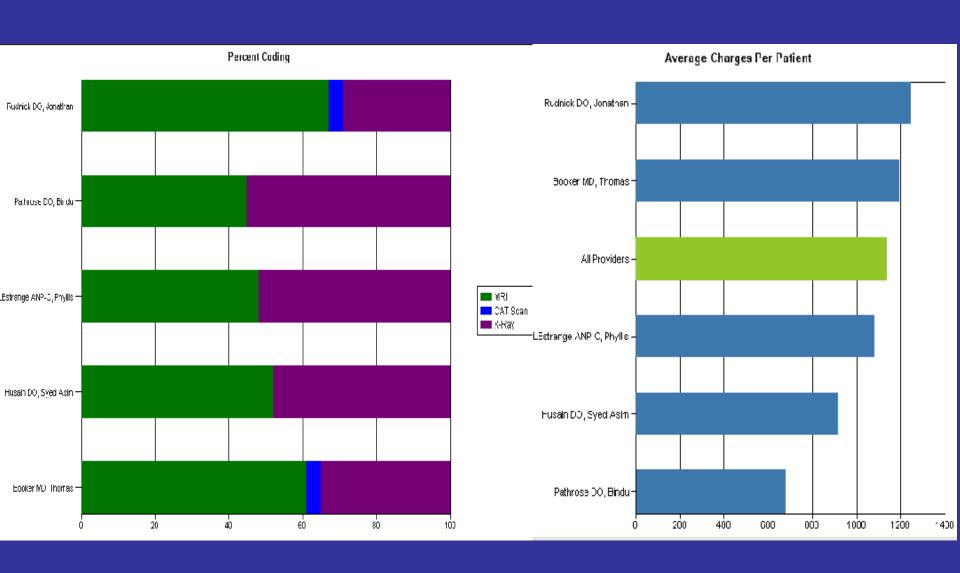




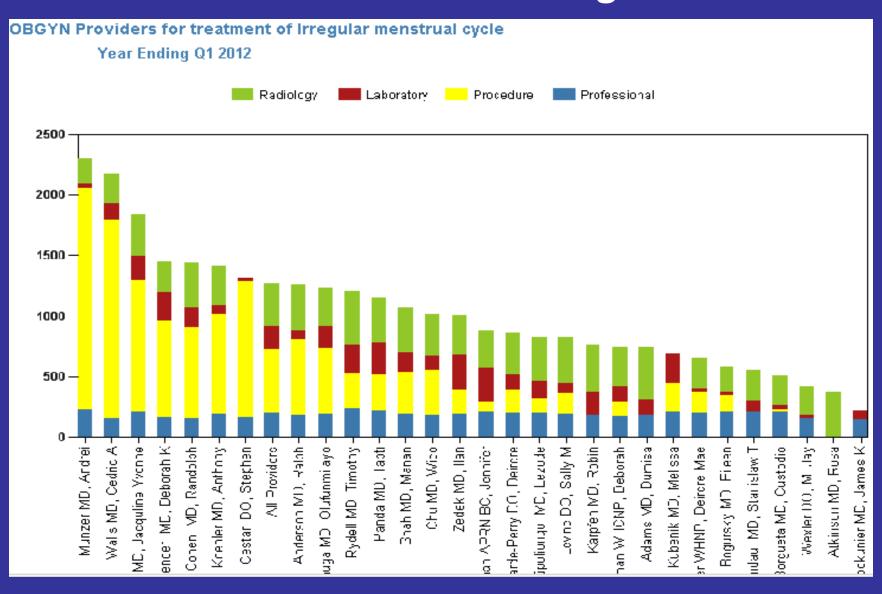


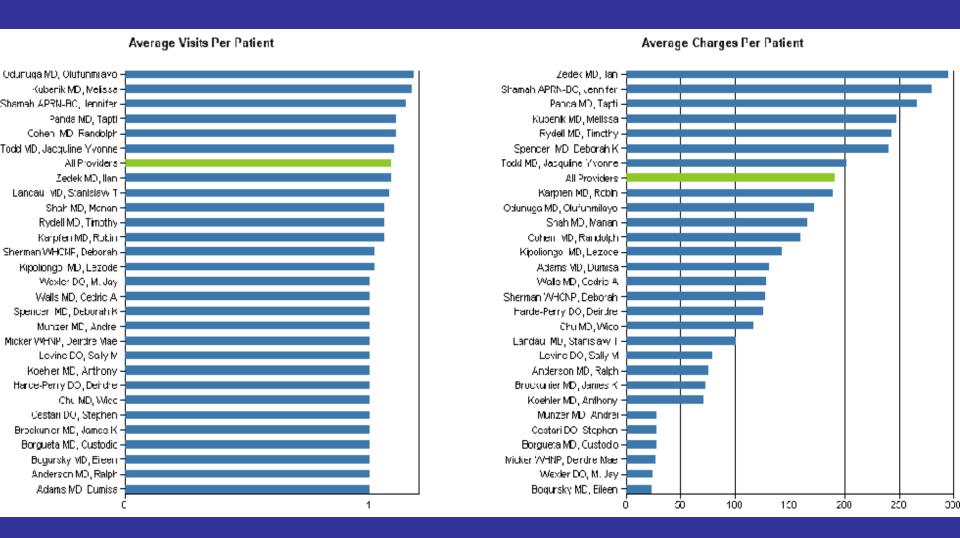
Radiology Per Patient Cost by Pain Medicine/Rehab Providers for treatment of Pain, back - Year Ending Q1 2012

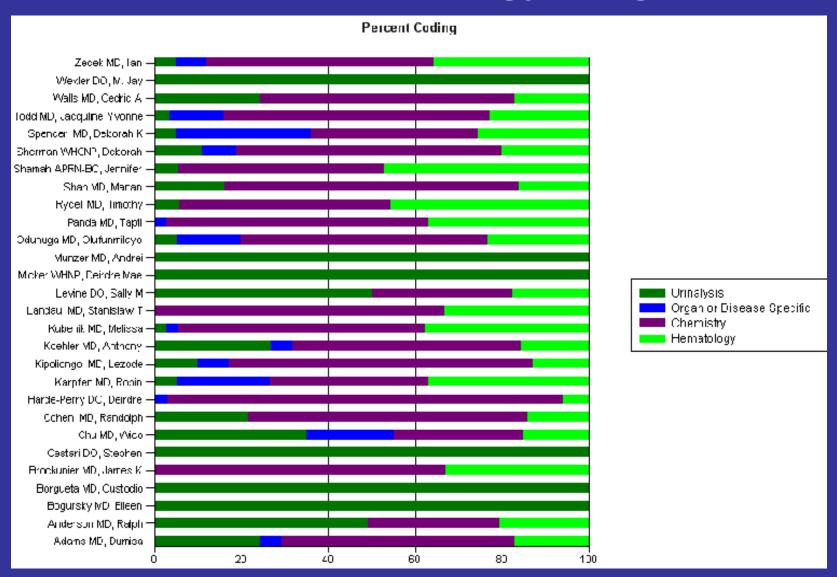




## Variation Reduction Variation in Lab Charges







### Variation Reduction Version 3.0

- Use claims level data
- Will allow for inpatient charges, leakage and medications
- Empower division leaders to run VR meetings



#### **How Are We Doing?**

- Cost per patient (provider level)
  - Cost per patient reduced by 5.4%
  - 123/250 providers reduced cost
- Cost per specialty (specialty level)
  - 20/34 specialties reduced cost
- Variation reduction (diagnosis level)
  - 9/13 variation reduction diagnoses reduced cost



#### **How To Make VBC Sustainable**

Success through expansion

Cost/patient	-5.4%
# patients	+18.3%
Total charges	+11.9%



#### **Summary**

- In order to effect change it requires cultural change, infrastructure change and behavioral change
- Any cost reduction strategy must address inpatient services
- Closing the gap between primary care and specialty visits is necessary to be a successful ACO
- Variation reduction is an important tool for engaging physicians, developing best practice standards and addressing cost

  Crystal Run\*