

# Defensible Scorecards: Performance Measurement, Compensation for ACOs/PCMHs, and Finding High Value Providers



## **Physician performance**

**Bottom line** 

Complex

Reputation

Value delivery







Multiple performance measures



### Agenda

### Defensible Composites

- Sources of individual measures
- Why composites are good
- Structuring a composite
- Making composites defensible and fair
- Potential issues
- Composite suitable for payment

## Leveraging High Value Providers

- Identifying high value care providers
- Existing yardsticks for value
- Leveraging national quality/ cost to identify value care
- Identifying and accelerating features of practitioners of high value care



## Large numbers of individual measures available

- Performance measurement need well recognized
- Set of nationally recognized and vetted measures growing
- Diverse set of specialties and wide range of practice require a broad set of measures
- Measurement should encompass the full scope of practice, frequently expressed as domains
  - Satisfaction
  - Quality
    - Screening
    - Preventative care
    - Medication management
    - Outcomes

- Potentially Avoidable
  - Admissions
  - ED use
  - Readmissions
  - Complications
- Cost



## Large library of "compositable" quality measures

### **Healthcare Effectiveness Data and Information Set** (HEDIS)

### 65+ measures

- Effectiveness of Care (EOC)
- Access/Availability of Care
- Utilization
- Relative Resource Use (RRU)
- Health Plan Descriptive Information

For Health Plan **HEDIS** reporting

No physician attribution

### **Process of Care** and Outcomes **Evaluation** (POC)

### 50+ measures

- POC measures with versions optimized for transparency and care gap detection
- Prospective Alerts
- Disease Detectors
- Composite Measures

For transparency and incentive programs

For Primary and **Outpatient Specialty Physicians** 

### Medication **Treatment** Quality (MTQ)

### 50+ measures

- Proportion of Days Covered (PDC)
- Appropriate Medication Use (AMU)
- Medication Safety (HRM & DDI)
- Medication Possession Ratio (MPR)

For MTQ Programs and Medicare 5 star ratings

For Primary and **Outpatient Specialty Physicians** 

### **IMS Potentially** Avoidable Events (I-PAE)

#### 65+ measures

- IMS Potentially Avoidable Complications (I-PAC)
- AHRQ based IMS Potentially Avoidable Admissions (I-PAA)
- IMS Potentially Avoidable Readmissions (I-PAR)

For Inpatient, outpatient, hospital and ambulatory surgery centers

For Surgeons and Hospital Based Specialty Physicians

### **3M™ Potentially Preventable Events** (3M™ - PPE)

#### 40+ measures

- 3M™ APR-DRG Risk Model based
- Potentially Preventable **RE-admissions** (PPR)
- Potentially Preventable Complications (PPC)

For Inpatient surgeries

For Surgeons and **Hospital Based** Specialty Physicians



### Large library of "compositable" cost measures

### **Overall Cost**

- Across population or by disease and/or place of service
- All Episodes / CRGs
- Risk adjusted or stratified
- Provider attribution by specialty
- Applicable to a primary care, specialties, and surgeons

### **Condition, Disease** or Episode

- 220 conditions
- Episode based total condition related cost
- Admission based total cost of admission
- Attribution to primary care, specialties, and facility
- Risk adjusted or stratified
- Applicable to Primary and nonsurgical specialties

### **Surgeries**

- 85 Surgeries
- Episode Based total picture of surgery
- Admission Based total cost of surgical admission
- Inpatient and outpatient surgeries
- Risk adjusted or stratified
- Attribution to surgeon, consultants, and facility
- Admissions applicable to surgeons and facility

### **Procedures, Tests** & Visits

- 160 common procedures
- 200+ test/visits
- Total cost of procedure
- Attributed to ordering physician
- Applicable to a physicians and facility

- Physicians & Facilities are segment into below/at/above peer & benchmark
- Segmentation based on two statistical methods
- Useful for contracting, incentive programs, tiering



## Why composites are a good thing

Simplify managing a program Simplify building a program **Composites or domains** 



### Options for structuring a composite

### Single composite vs multi domain composite

- Single measure that combines individual measures that cross domains
- Composite of composites
  - Composite is made up of component measures
  - Mutually exclusive clusters of related measures grouped into domains
  - Overlapping clusters of related measures

## Options for structuring a composite

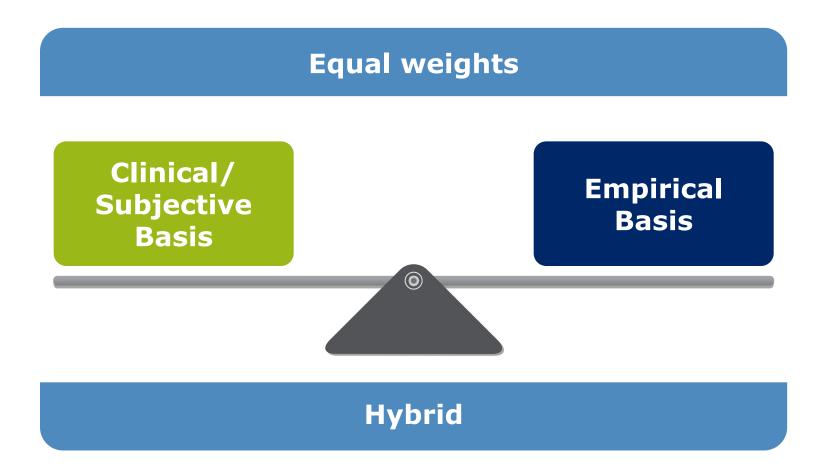
Choosing which measures to include in the composite

**Clinical/business basis Empirical basis Hybrid** 



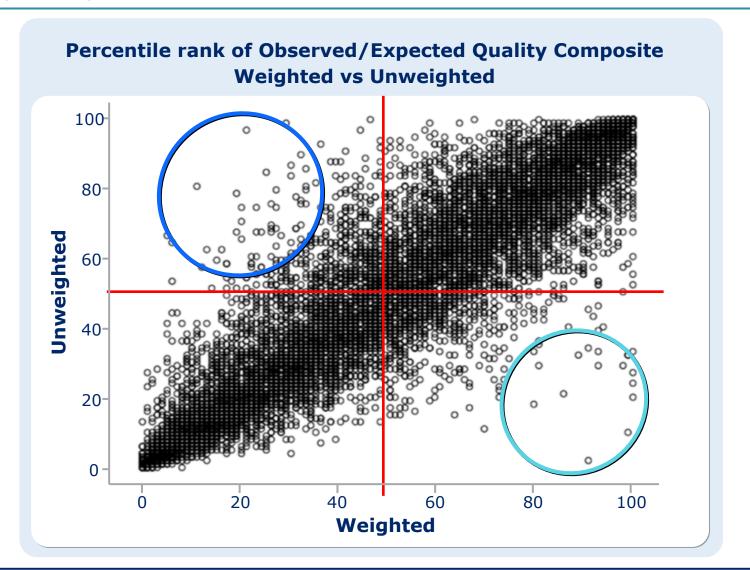
### Options for structuring a composite

Weighting the importance of component measures





## Weighting makes a difference





## Making composites defensible and fair

- Use recognized methods
- Use appropriate composite methods
- Have a statistical basis for segmenting/scoring providers
- Adjust for different mixes of measures/cases and severity of illness
- Choose appropriate thresholds for inclusion



### Composite methods combine and/or score

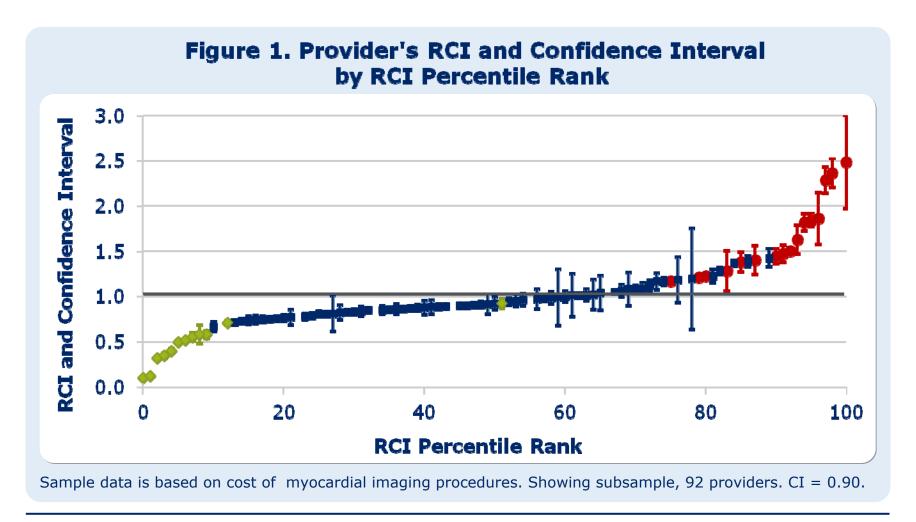
## Use appropriate composite methods for the type of results being combined

| Composite<br>Method                           | Required Input<br>for Component<br>Measures | Provider<br>Composite<br>Calculation          | Basis for Scoring  | Case Mix<br>Adj | Severity<br>Adj |
|---|---|---|--|-----------------|-----------------|
| Simple Composite Measure (SCM)                | Numerators and Denominators                 | SCM=Sum of<br>Num/Sum of Den                  | <ul><li>Peer SCM</li><li>Conf Interval around Provider SCM</li></ul> |                 |                 |
| Mean<br>Standardized<br>Difference (MSD)      | Numerators and Denominators                 | None  | Avg of standardized<br>Prov – Peer<br>component rates                | <b>√</b>        |                 |
| Indirectly Standardized Composite (ISC)       | Numerators and Denominators                 | Standardized<br>Rate                          | Confidence Interval around Obs/Exp ratio                             | <b>√</b>        | <b>√</b>        |
| Standardized<br>Composite<br>Difference (SCD) | Rates                                       | Avg of<br>Components                          | Confidence Interval around<br>Peer Composite                         | <b>√</b>        |                 |
| Percentile Rank<br>(PR)                       | Rates                                       | (Case Mix Adj)<br>SCM or Avg of<br>Components | Percentile Rank grouping of<br>Provider Composite                    | <b>√</b>        |                 |
| Value Based                                   |   |   |  |                 |                 |
| Relative Cost<br>Index (RCI)                  | Cost for cost-<br>homogeneous<br>category   | Average<br>Observed/<br>Expected              | Confidence Interval around<br>Obs/Exp ratio                          | <b>√</b>        | <b>√</b>        |



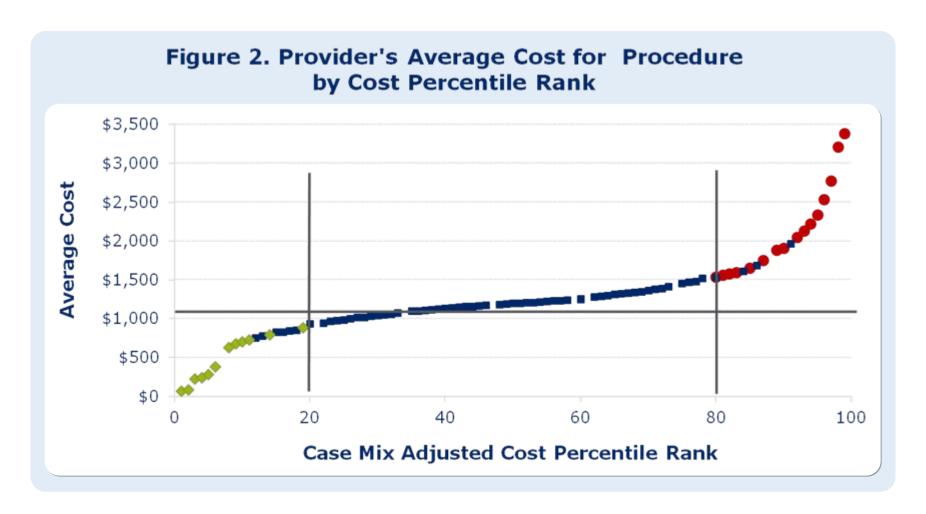
## Statistical basis for segmenting/scoring

Is Confidence Interval around Observed to Expected sufficient?



### Statistical basis for segmenting/scoring

Is Case Mix Adjusted Average Procedure Cost Sufficient?



## Examples of dual scoring

| Measure  | Primary Method   | Secondary Method        |
|--|--|-------------------------|
| CMS Process of Care Measures   | SCM, MSD or ISC  | PR of Case Mix Adj SCM  |
| CMS HCAHPS - Patient Experience  | SCD  | None                    |
| Hospital-Acquired Conditions (HAC)   | SCD  | None                    |
| CMS Mortality (PN, HF and AMI)   | Modified MSD   | PR of Adj Rates         |
| AHRQ Patient Safety Indicators   | Modified MSD   | PR of Adj Rates         |
| Potentially Avoidable Readmissions   | ISC  |                         |
| Physician Cost of Care (Episode based)   | Relative Cost Index (O/E)  | PR of Case Mix Adj Cost |
| Physician Cost of Care<br>(Total cost of care)   | Relative Cost Index (O/E)  | PR of Case Mix Adj Cost |
| Hospital/Facility Cost of Care   | Relative Cost Index (O/E)  | PR of Case Mix Adj Cost |
| SCM - Simple Composite Measure<br>MSD - Mean Standardized Difference<br>PR - Percentile Rank | ISC - Indirectly Standardized<br>CompositeSCD - Standardized<br>Composite Difference |                         |



### Potential issues with composite

1

Each physician will have a different mix of measures

2

Multiple measures could assess the 'same thing'

## Potential issues with composite

3

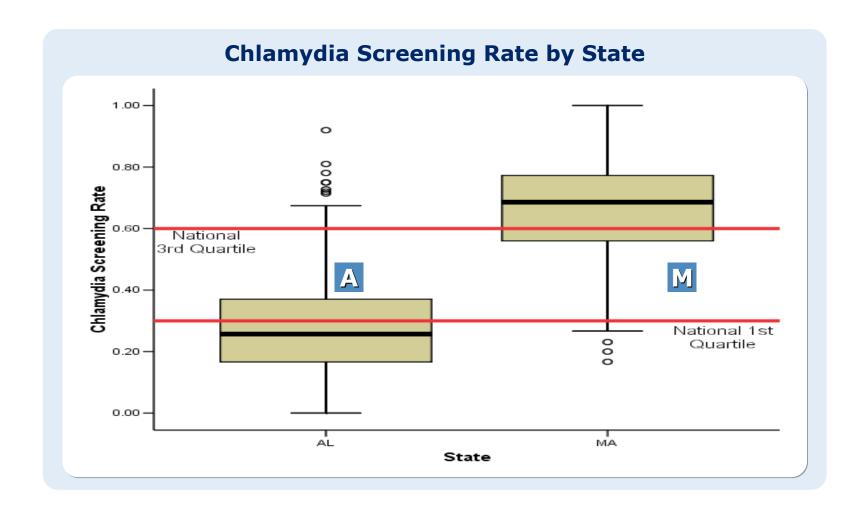
Component domains/measures have different data types

4

PCMH / ACO / small-medium health plan may not have sufficient volume to form a peer group for each measure

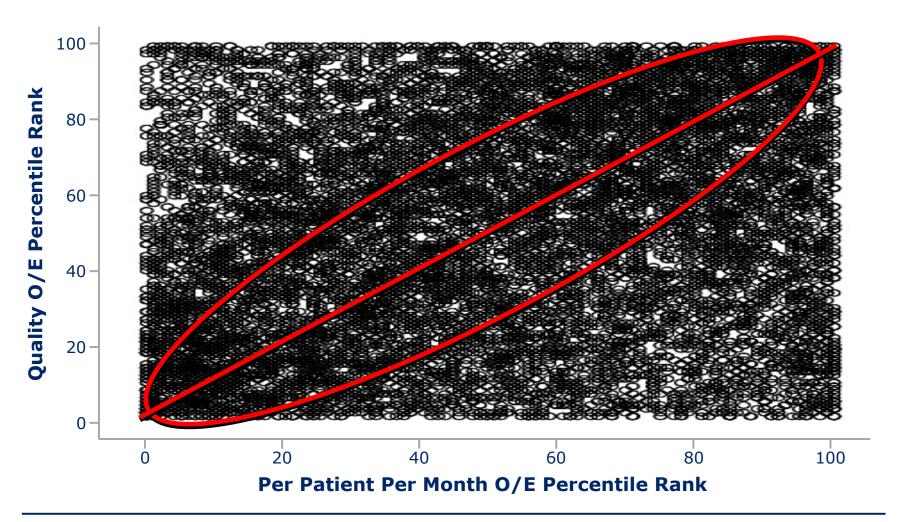


## Benchmarking matters



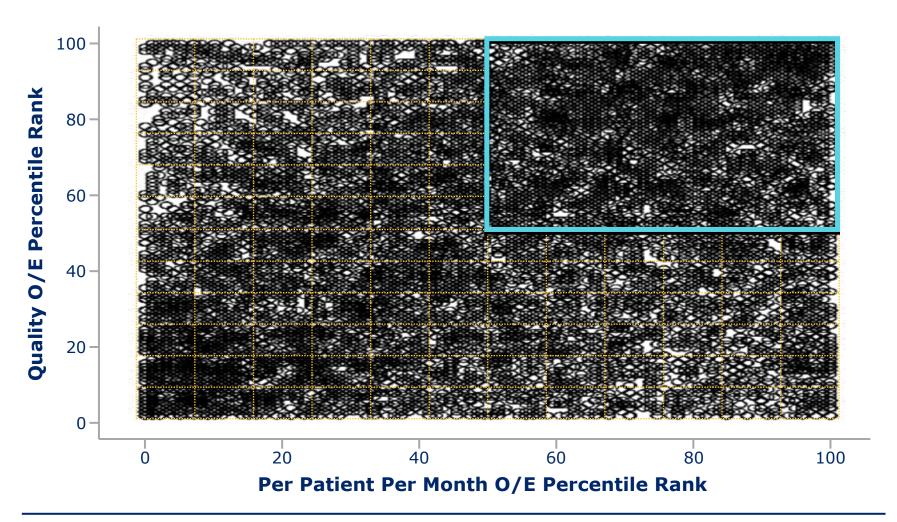


### Quality and Cost are very poorly correlated



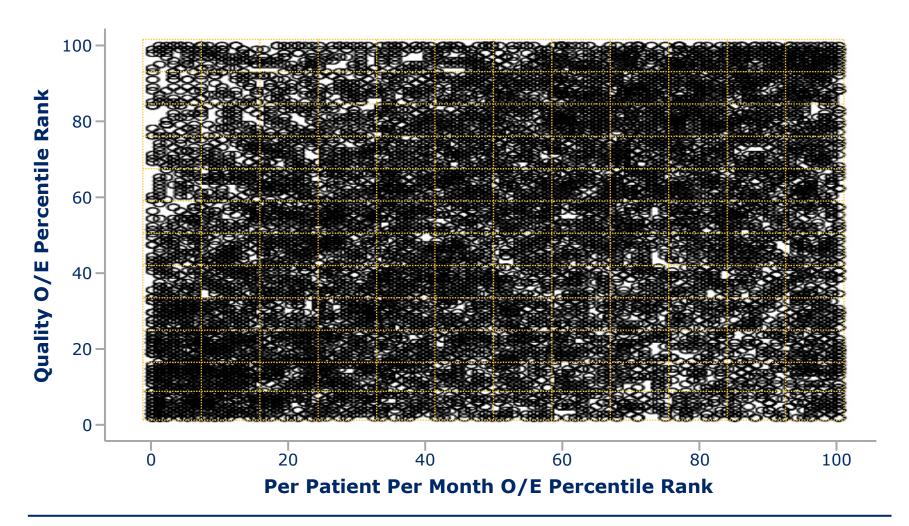


### How to use for tiering



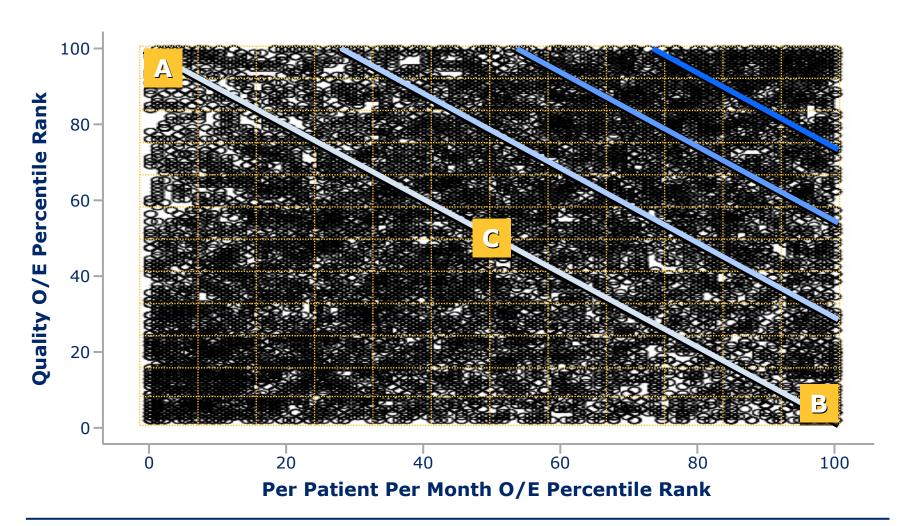


### Cell placement determines compensation



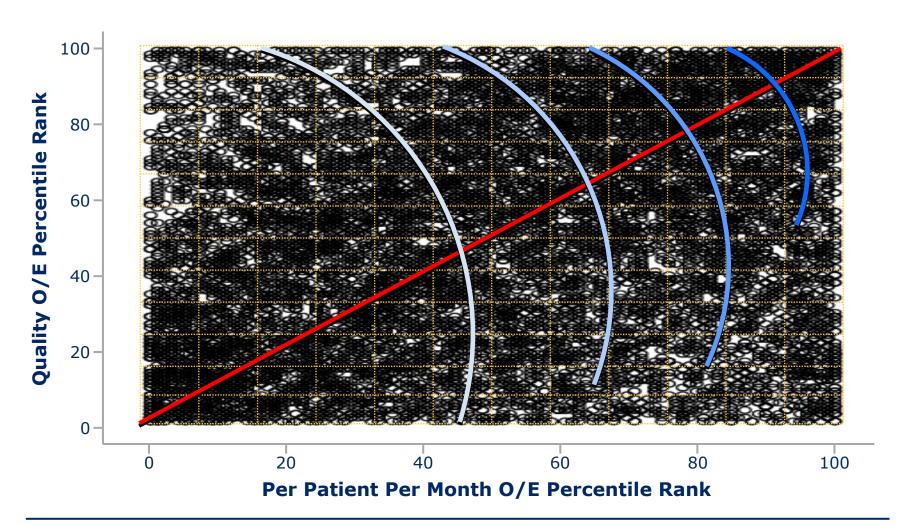


### Result based on Cost + Quality



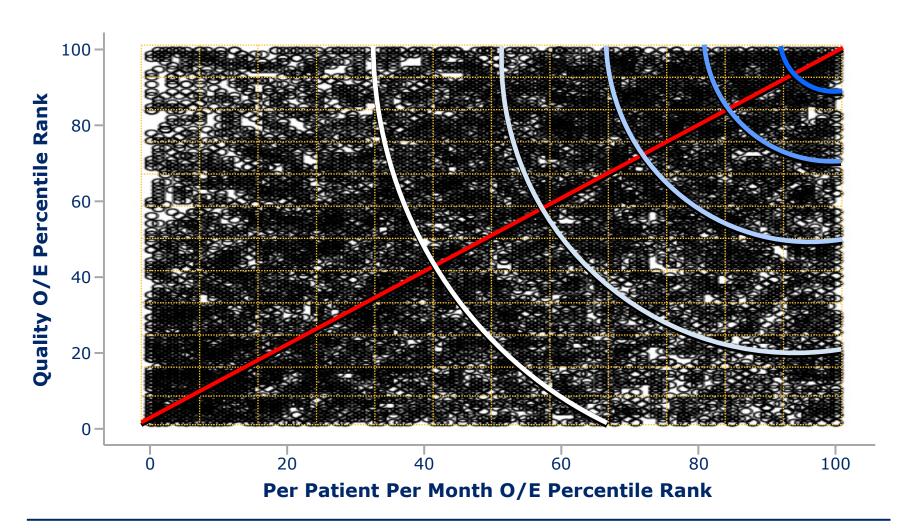


### Results based on value (quality/cost)



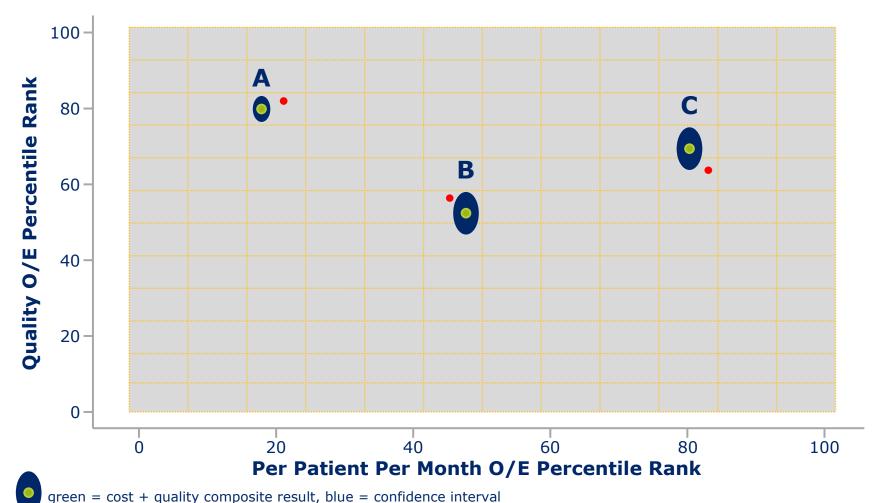


### Results based on the distance from best in Q and C





### Adding a second scoring criteria





## Objectives



Understand quality and cost measures in a single composite



Identify the factors that influence composite measure choices



Learn how a single measure can be fairly and defensibly used



Gain insight into a meaningful difference when physicians have similar composite results



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