# Medicare Hospital Value-Based Purchasing Plan

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March 6, 2008

### Overview of the Presentation

- CMS' VBP Goals
- Hospital VBP Plan Development Process
- Performance Assessment Model
- Measures

### CMS' VBP Goals

- Improve clinical quality
- Reduce adverse events and improve patient safety
- Encourage patient-centered care
- Avoid unnecessary costs
- Stimulate investments in effective systems
- Make performance results transparent
  - To empower consumers to make value-based healthcare decisions
  - To encourage hospitals and clinicians to improve performance

### What Does VBP Mean to CMS?

- Transforming Medicare from a passive payer to an active purchaser of higher quality, more efficient health care
- Tools and initiatives for promoting better quality, while avoiding unnecessary costs
  - Tools: measurement, payment incentives, public reporting, conditions of participation, coverage policy, QIO program
  - Initiatives: pay for reporting, pay for performance, gainsharing, competitive bidding, coverage decisions, direct provider support

## Legislative Background

- Deficit Reduction Act (DRA) Section 5001(b) authorized CMS to develop a Medicare Hospital VBP Plan
  - IPPS hospitals
  - Assumption of FY 2009 start date
  - Must consider
    - Measures
    - Data infrastructure and validation
    - Incentive structure
    - Public reporting
  - Must consult stakeholders and consider experience with relevant demonstrations and private-sector programs

## Hospital VBP Plan Development Process

- Hospital VBP Workgroup with Subgroups to address
  - Incentive Structure
  - Measures
  - Data Infrastructure and Validation
  - Public Reporting
- Contractor Support
  - RAND for overall project
  - Brandeis, Booz|Allen|Hamilton, and Boston University for in-depth measures issues

## Hospital VBP Workgroup Tasks & Timeline

2006		
Oct	•	Environmental Scan
Dec	•	Issues Paper
<u>2007</u> Jan 17	•	Listening Session #1 for Stakeholder Input on Issues Paper
	•	Options Paper
Apr 12		Listening Session #2 for Input on Hospital VBP Options Paper
May	•	Final Design
June	•	Final Report, Including Design, Process, and Environmental Scan
Nov 21	•	Report Submitted to Congress

### Performance Model Overview

- Hospitals submit data for all VBP measures that apply
- CMS determines each hospital's performance score on each measure: higher of 0 - 10 points on attainment or improvement
- For each hospital, CMS aggregates scores across all measures within a domain (e.g., clinical process-of-care measures, HCAHPS)
- CMS weights and combines each hospital's domain scores to determine the hospital's Total Performance Score
- CMS translates each hospital's Total Performance Score into an incentive payment using an exchange function

## Scoring Performance

- Scoring Based on <u>Attainment</u>
  - 0 to 10 points scored relative to the attainment threshold and the benchmark
  - Thresholds and benchmarks determined from national hospital performance in prior year
- Scoring Based on <u>Improvement</u>
  - 0 to 9 points for improvement based on hospital improving its score on the measure from its prior year performance.

## Performance Assessment Model Terminology

**Benchmark**: Reference point defining high level of performance

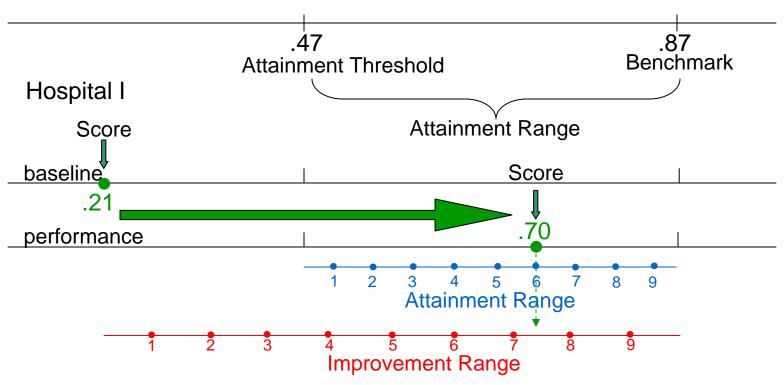
Attainment threshold: Minimum level of performance required to receive attainment points

**Attainment range**: Scale between the attainment threshold and benchmark

Improvement range: Scale between the hospital's prior year score (baseline) on the measure and the benchmark

# Earning Clinical Process of Care Points: Example

Measure: PN Pneumococcal Vaccination



Hospital I Earns: 6 points for attainment

7 points for improvement

Hospital I Score: maximum of attainment or improvement

= 7 points on this measure

# Calculation of Clinical Process of Care Performance Score

### Total Earned Points =

Sum of points earned across all reported measures

### Total Possible Points =

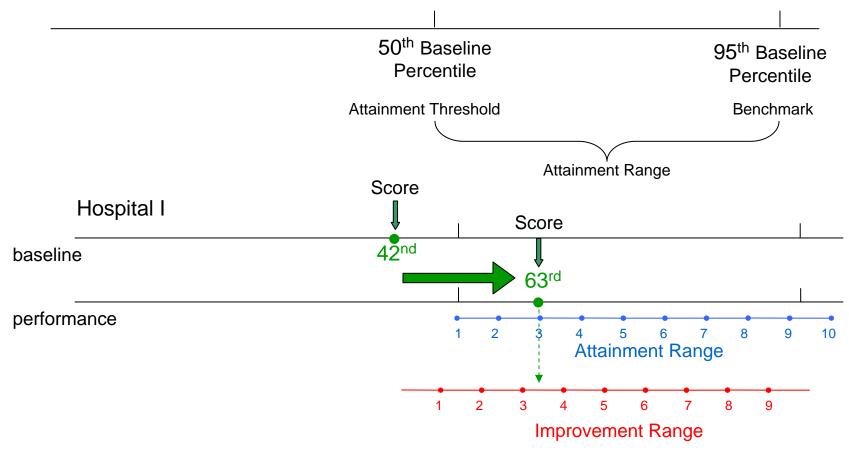
Number of measures reported by hospital x 10

<u>Clinical Process of Care Performance Score</u> =

Total Earned Points / Total Possible Points x 100

## Earning HCAHPS Points: Example

**Dimension: Doctor Communication** 



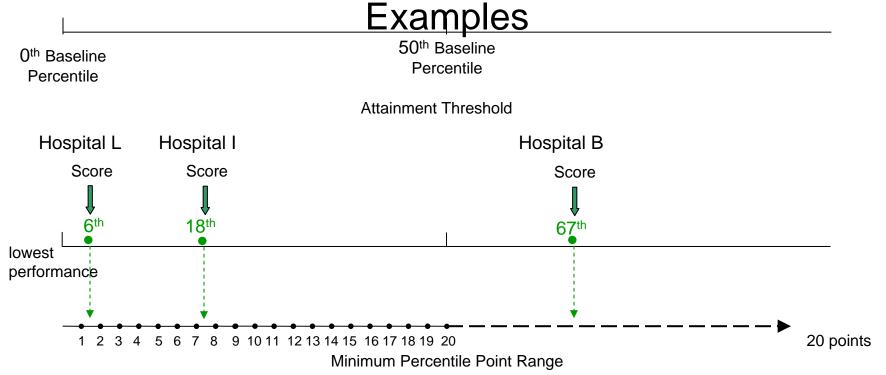
Hospital I Earns: 3 points for attainment

4 points for improvement

Hospital I Score: maximum of attainment or improvement

= 4 points on this measure

# Hospitals Earning Points Based on Minimum Performance Across All Eight HCAHPS Dimensions:



Hospital L's Lowest Percentile: 6th

Hospital L Earns: 2 minimum percentile points

Hospital I's Lowest Percentile: 18th

Hospital I Earns: 8 minimum percentile points

Hospital B's Lowest Percentile: 67th

Hospital B Earns: 20 minimum percentile points

# Calculation of HCAHPS Performance Score

<u>Total Earned Points</u> = Sum of points earned across all dimensions

Total Possible Points = 100

<u>HCAHPS Performance Score</u> =

Total Earned Points / 100 Total Possible Points x 100

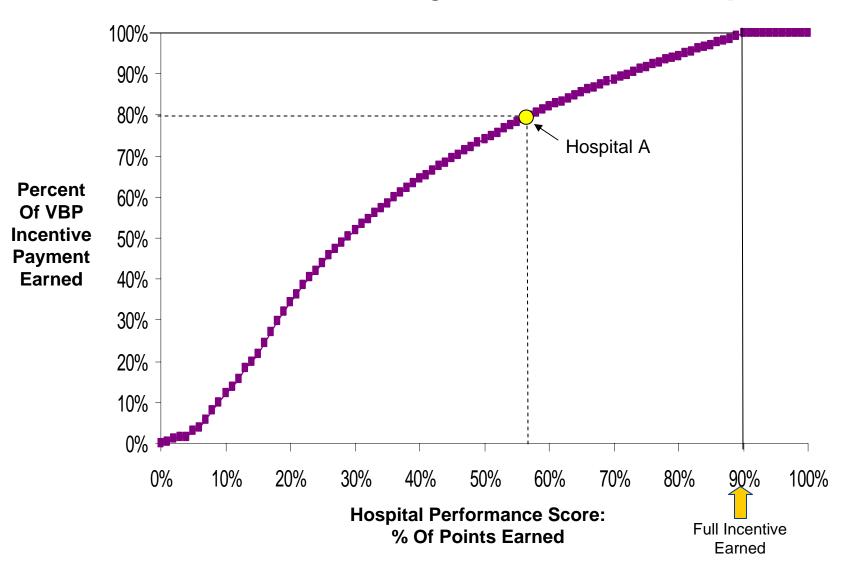
### Calculation of VBP Total Performance Score

- Each domain of measures is initially scored separately, weighting each measure within that domain equally
- All domain scores are then combined, with the potential for different weighting by domain
- Possible weighting to combine clinical process measures and HCAHPS:
  - 70% clinical process + 30% HCAHPS
- As new domains are added (e.g., outcomes), weights will be adjusted

# Combining Clinical Process and HCAHPS Scores for Total Performance Score: Example

	Hospital A	Hospital B	Hospital I	Hospital L
Performance Score on Process Measures (PSPM)	58%	100%	75%	6%
Performance Score on HCAHPS (PSH)	54%	79%	30%	24%
Total Performance Score (TPS) (.7*PSPM) + (.3*PSH)	57%	98%	62%	11%

# Translating Performance Score into Incentive Payment: Example



### Source of Incentive Payments

- VBP incentive proposed to be a percent of base operating DRG payment
  - Base payment would include geographic and DRG relative weight adjustments
  - Approach links incentive payment most directly to clinical services provided
  - Would apply to all DRGs, not just clinical areas measured

# Allocation of Unearned Incentive Payments

- Not all hospitals would earn the full VBP incentive payment
- Pool of unearned incentive dollars could be the source of additional quality incentive distributed to hospitals and/or Medicare savings
- Additional quality incentive would be distributed to hospitals in proportion to their VBP Total Performance Scores

### **VBP** Measures Overview

- Measure selection considerations
- Proposed process for introducing and managing measures in VBP
- FY 2009 candidate measures for VBP financial incentive
- Additional measures for FY 2010 and beyond
- Small numbers issue

# Proposed Measure Selection Criteria for VBP Incentive

#### NQF

- Importance
- Scientific acceptability
- Feasibility
- Usability

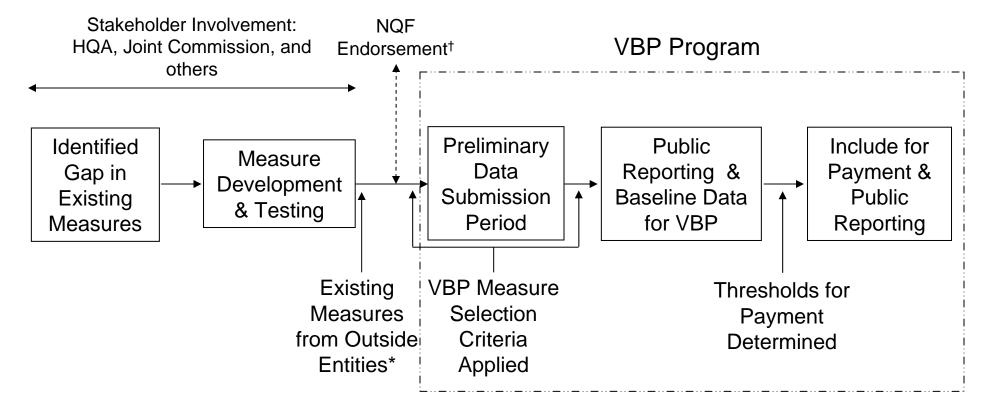
### Additional CMS

- Improvability
- Controllability
- Potential for unintended consequences
- Contribution to comprehensiveness

# Proposed Process for Introducing Newly Developed Measures into VBP Program

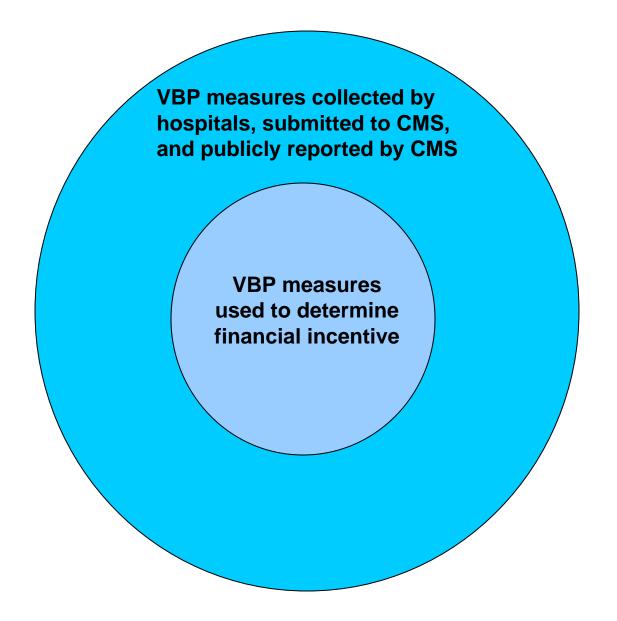
Measure Development, Testing, Endorsement

Measure Introduction



<sup>\*</sup>Measures without substantial field experience will be tested as needed

### Universe of VBP Measures



	uality Process-of-Care Measures – Acute al Infarction (AMI)	Entered Public Reporting on Hospital Compare
AMI-1	Aspirin at arrival	4/2005
AMI-2	Aspirin prescribed at discharge	4/2005
AMI-3	ACE inhibitor (ACE-I)/Angiotensin receptor blocker (ARB) for left ventricular systolic dysfunction	4/2005
AMI-4	Adult smoking cessation advice/counseling	4/2005
AMI-5	Beta blocker at discharge	4/2005
AMI-7a	Thrombolytic agent received within 30 minutes of hospital arrival	4/2005
AMI-8a	Primary percutaneous coronary intervention (PCI) received within 90 minutes of hospital arrival	4/2005

Clinical Quality Process-of-Care Measures – Heart Failure (HF)		Entered Public Reporting on Hospital Compare
HF-1	Discharge instructions	4/2005
HF-3	ACE inhibitor (ACE-I)/Angiotensin receptor blocker (ARB) for left ventricular systolic dysfunction	4/2005
HF-4	Adult smoking cessation advice/counseling	4/2005

Clinical Quality Process-of-Care Measures – Pneumonia (PN)		Entered Public Reporting on Hospital Compare
PN-2	Pneumococcal vaccination status	4/2005
PN-3b	Blood culture performed in emergency department before first antibiotic received in hospital	4/2005
PN-4	Adult smoking cessation counseling	4/2005
PN-6	Appropriate antibiotic selection	9/2005
PN-7	Influenza vaccination status	12/2006

Surgical Care Improvement/Surgical Infection Prevention (SCIP/SIP)		Entered Public Reporting on Hospital Compare
SCIP- Inf-1	Prophylactic antibiotic selection received within 1 hour prior to surgical incision	9/2005
SCIP- Inf-3	Prophylactic antibiotics discontinued within 24 hours after surgery end time	9/2005

Clinical Q	uality – Outcome Measures	Scheduled to Enter Public Reporting on Hospital Compare
	30-day AMI mortality	6/2007
	30-day HF mortality	6/2007
Patient-Centered Care Measures		
	HCAHPS	3/2008

### **HCAHPS** Dimensions

- Communication with Doctors
- Communication with Nurses
- Responsiveness of Hospital Staff
- Cleanliness and Quiet of Hospital Environment
- Pain Management
- Communication about Medicines
- Discharge Information
- Overall Rating