

# Consequences of Public Reporting and P4P on Quality of Healthcare: Two Decades of U.S. Experience



Ashish K. Jha, MD, MPH

Harvard School of Public Health  
Brigham and Women's Hospital  
VA Boston Healthcare System



# Overview

- Suboptimal Care
- Response
- Cardiac Surgery in NYS
- Short and long-term impacts
- Other efforts
- P4P
- Where we are

# Suboptimal Care

- Institute of Medicine's *To Err is Human (1999)*
  - 100,000 Americans die each year from medical errors
- *Crossing the Quality Chasm (2001)*
  - US system often fails to provide optimal care
- Rand healthcare quality study
  - Americans get the right care 55% of the time
  - Wealth and education level matter very little

# The Response

- **Performance Measurement: where to focus?**
  - Evidence-based interventions (processes)
  - How patients fared (outcomes)
- **Public reporting of quality data**
- **More recently: financial incentives for quality**

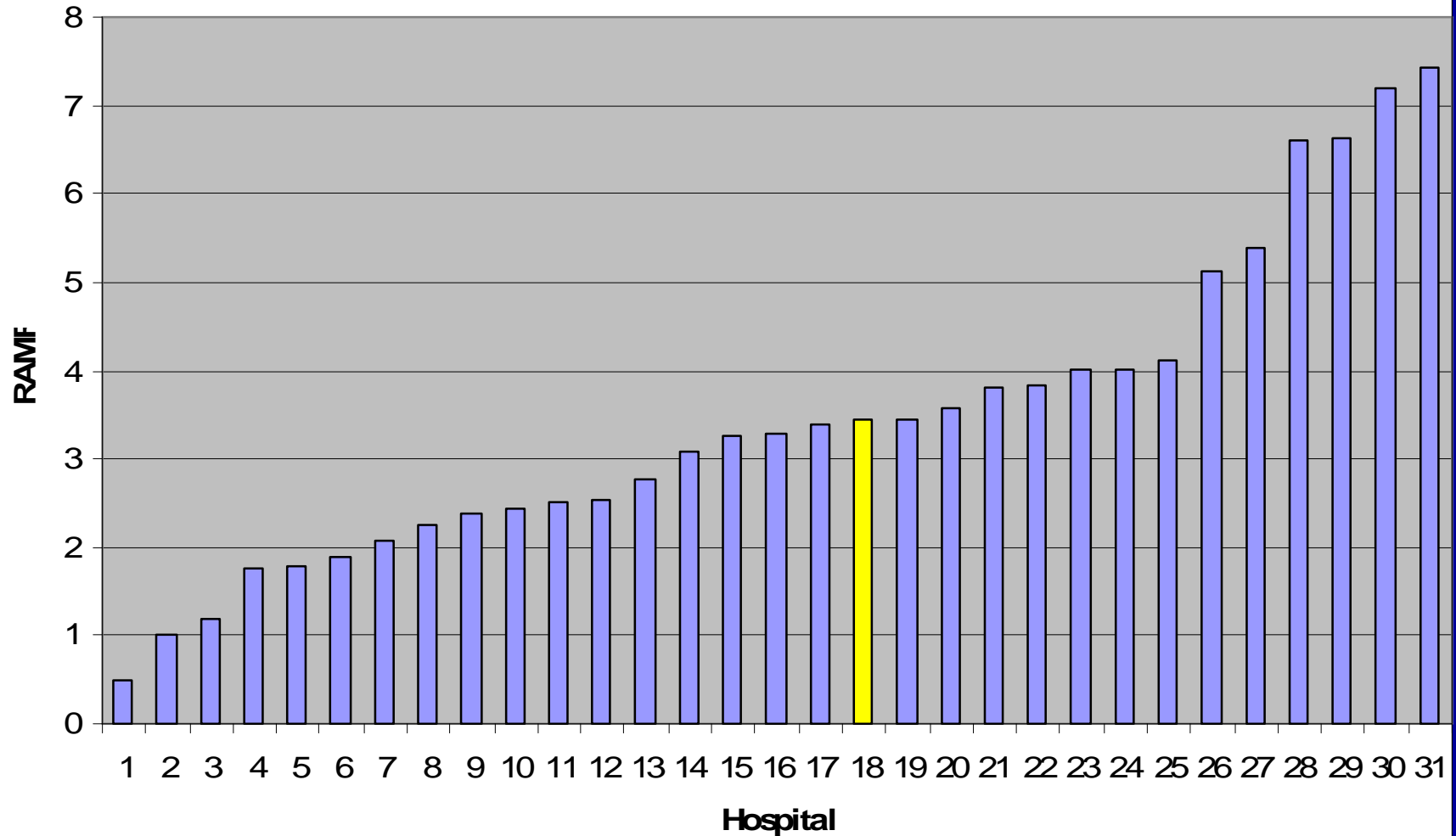
# Quality Improvement Efforts

- **Cardiac Surgery Reporting System (CSRS)**
  - Started by NYS Department of Health in 1990
  - Provided feedback to *hospitals* and *surgeons* on cardiac surgery mortality rates
- **Heavy emphasis on risk-adjustment**
  - Risk-adjustment based on detailed clinical data
  - Made comparisons more reliable
  - C-statistic of 0.80

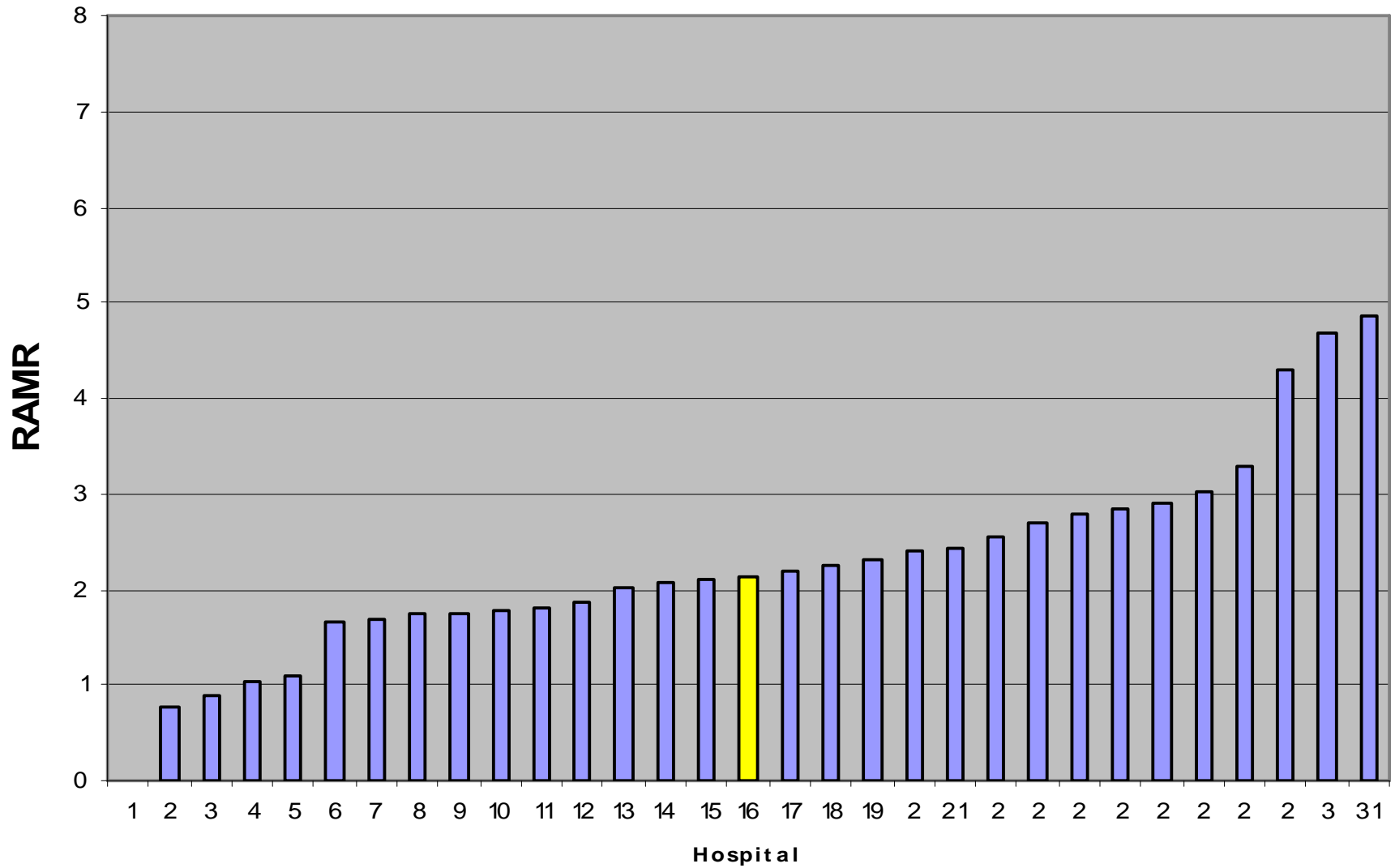
# Features of CSRS

- **First began with hospital-level performance**
  - Individual surgeon-level data soon followed
- **National trend-setter:**
  - Pennsylvania (1992)
  - NJ (1997), CA (2001), and MA (2004).
  - Others have projects under development.
- **Widespread media attention**
  - Cover of NYT, etc

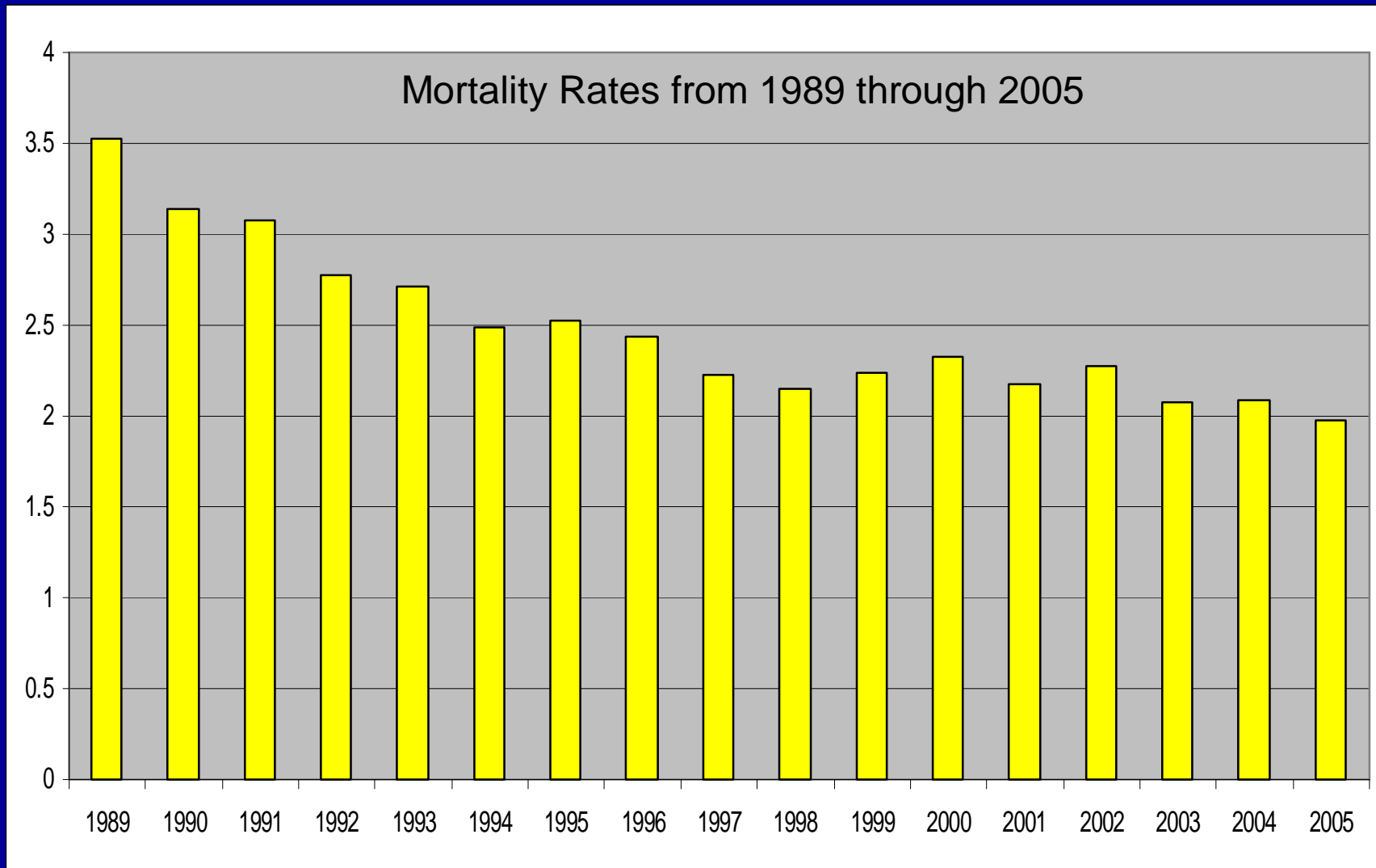
# Cardiac Surgery Mortality 1990



# Cardiac Surgery Mortality 2003



# New York State CABG Surgery



# Not quite as conclusive...

- Lower RAMR due to better documentation?
  - # of co-morbid conditions increased
- Surgical mortality rates fell in other states
  - Were the results part of a trend?
    - Improvements in NY were larger

# How did it work?

- Market Share?
- Surgeon Practice?

# Did performance drive market share?

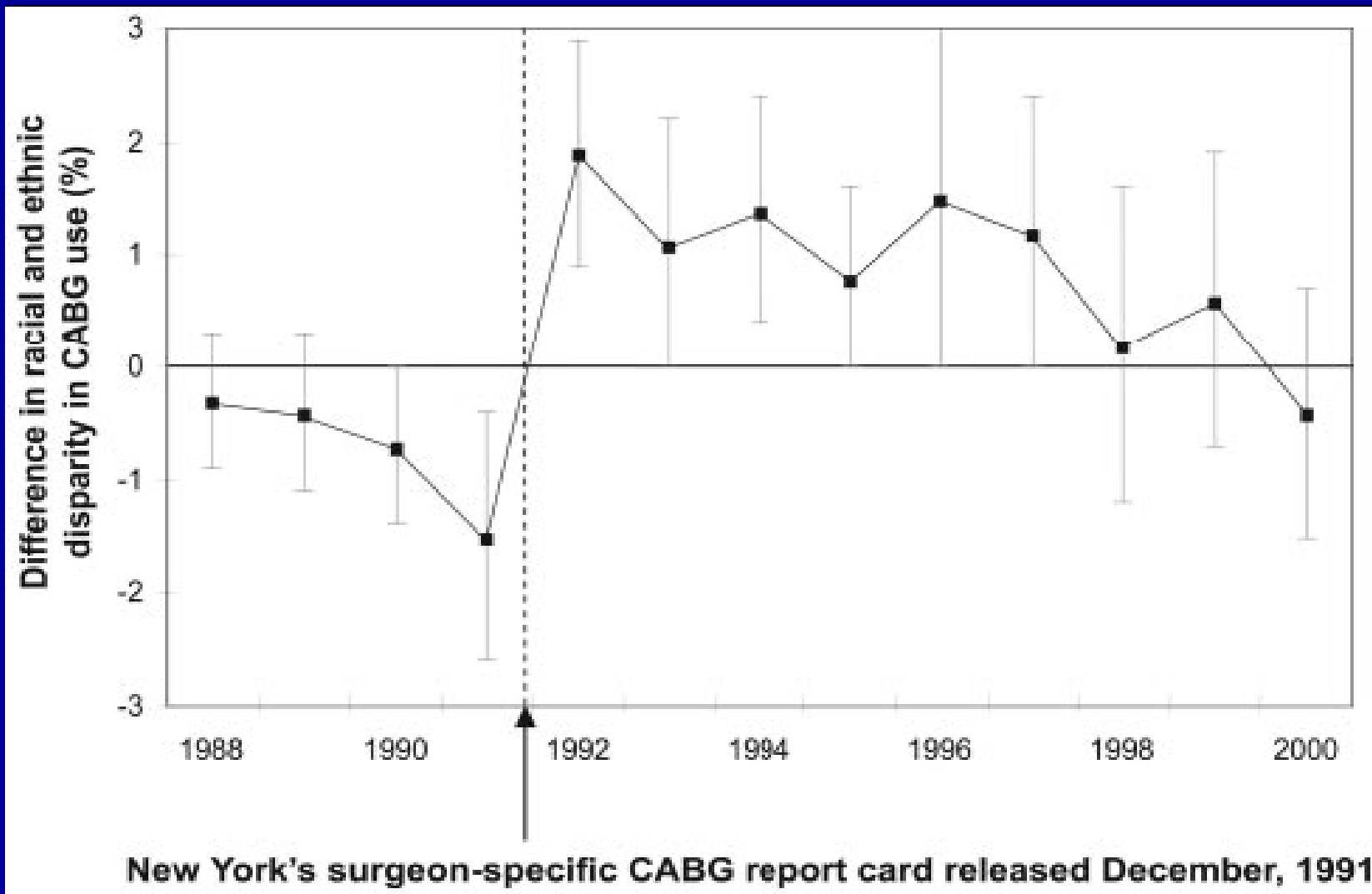
<b>Hospital Performance</b>	Market Share Prior	<b>Market Share Post</b>	% Change
<b>Top 10%</b>	10.9%	<b>10.5%</b>	-0.4%
<b>Top Quartile</b>	28.1%	<b>27.9%</b>	-0.2%
<b>Bottom Quartile</b>	21.8%	<b>21.9%</b>	0.1%
<b>Bottom 10%</b>	8.0%	<b>8.1%</b>	0.1%

# Providers paid attention

Surgeon performance in Baseline Report	Left during subsequent 2 years
Top Quartile	3.0%
Second Quartile	4.4%
Third Quartile	4.4%
Fourth Quartile	19.1%
Adjusted Odds Ratio (4 <sup>th</sup> vs. rest)	3.2 P=0.008

# Unintended Consequences

- **Would providers shun high-risk patients?**
  - At least four studies have examined the issue
    - » No convincing evidence one way or the other
- **Reduced access for minority patients?**



**Racial/ethnic disparity in NYS versus other states before & after public reporting**

# Hospital Quality Alliance (HQA)

- **New national public reporting programs**
  - Public-private partnership
- **Financial incentives for participation**
- **Nearly all hospitals participate**
  - 24 process measures across 4 conditions
  - 3 outcomes measures
  - 9 measures of patient experience
- **Early data suggests rapid improvement**
  - Those who care for the poor improve more slowly

# Pay for Performance (P4P)

- **Currently: fee-for-service rewards volume**
  - Payment detached from results
- **P4P encourages better care**
  - Increasingly ubiquitous
  - > 50% of health plans (80% of patients) use P4P
- **P4P experiments target hospitals, groups**
  - Only 13.3% of plans focused on individual MDs

# P4P Results....

- **Early results are mixed**
  - Few studies show modest impact, others none
- **Reward for improvement or achievement?**
  - Achievement awards current high performers
  - Still provides impetus for others to improve
- **Impact on underserved populations unclear**
  - Unpublished data on hospitals that serve the poor
  - No data on disparities

# Where are we in 2008?

- **Measuring, publicly reporting performance:**
  - Probably helpful in driving improvements
    - Likely leads to some unintended consequences
    - Reduction in access to care for very ill
    - Racial and ethnic disparities
  - While hospitals and surgeons pay attention to reports, patients and consumers do not

# Where are we in 2008?

- **Beginning of a long term process**
  - Ambulatory care measures coming
  - Expansion of hospital measures
  - More physician/surgeon-specific data
- **P4P is likely to expand, become ingrained**
  - Standard part of future payment formulae
- **Long-term effects critical to understand**