

# ***Inpatient Quality Reporting In Colorado***

Sept. 2005 HCUP User  
Group Meeting

# ***Background***

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- Demand For Transparency and Accountability
- By 2003 Hospital Quality Reporting Is Becoming Common Place – Most Notably Among Health Plans
- Methodologies Vary Widely - Hospitals Can't Authenticate Results
- Autumn 2003 CHA Board Begins to Consider Voluntary Public Reporting

# ***Principles***

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- Broad Based Effort – Not Just Hospitals
- Reliable – Proven Methodology
- Risk Adjusted
- Open Methodology Available To Hospitals
- Common Data Source Available To Hospitals
- Report Trends Over Time
- Applicable To Both High and Low Volume Hospitals
- Long Term Effort

# ***Performance and Quality Coalition***

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- Colorado Health and Hospital Association
- Colorado Hospitals Quality Managers
- Colorado Business Group on Health
- Colorado Medical Society
- Colorado Department of Public Health and Environment
- Centers for Medicare and Medicaid Services
- Colorado Foundation for Medical Care (QIO)
- Colorado Association of Health Plans
- Business Council on Health Care Competition
- Physician Health Partners
- Colorado Health Institute

# ***What To Report***

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- Patient Experience Measures – No Standardized Data
- Capabilities Measures – Leapfrog
- Process Measures – CMS
- ✓ **Outcomes Measures – AHRQ Tools**

## ***Focus on Higher Volume Indicators for Public Report***

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- **Mortality Rates For Conditions**

- Acute Myocardial Infarction (AMI)
  - AMI Without Transfer
- Congestive Heart Failure (CHF)
- Gastrointestinal Hemorrhage
- Hip Fracture
- Pneumonia
- Stroke

- **Mortality Rates For Procedures**

- Abdominal Aortic Aneurysm Repair (AAA Repair)
- Coronary Artery Bypass Graft (CABG)
- Esophageal Resection
- Hip Replacement
- Pancreatic Resection
- Pediatric Heart Surgery
- Craniotomy
- Percutaneous Transluminal Coronary Angioplasty (PTCA)
- Carotid Endarterectomy (CEA)

- **Hospital-level Procedure Utilization Rates**

- Cesarean Delivery
- Primary Cesarean Delivery
- Vaginal Birth after Cesarean Section (VBAC) – Uncomplicated
- VBAC - All
- Incidental Appendectomy in the Elderly
- Bi-lateral Cardiac Catheterization
- Laparoscopic Cholecystectomy

- **Hospital-level Volumes**

- Esophageal Resection
- Pancreatic Resection
- Pediatric Heart Surgery
- AAA Repair
- CABG
- PTCA
- CEA

## ***Smaller Volume Hospitals***

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- Need At Least 30 Cases For Statistical Validity
- For Hospitals w/ Less Than 30 Cases Combine All Three Years

# ***The Reports***

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- Start w/ Consumer Oriented Formats
- Use Common Language (Heart Attack vs AMI)
- Provide Context
- Included Detail For Those That Need It



# “Consumer Reports” Format

http://www.hospitalquality.org/images/stories/3yrHospTrnd/ami\_hosp\_3yr\_trnd.pdf - Microsoft Internet Explorer

Address: http://www.hospitalquality.org/images/stories/3yrHospTrnd/ami%20hosp%203yr%20trnd.pdf

## Heart Attack Trends In Colorado Hospitals

<b>Metro Denver</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
<b>Colorado Statewide Risk Adjusted Rate</b>	8.74%	8.38%	7.04%
Craig Hospital			
Denver Health Medical Center	○	○	○
Exempla Lutheran Medical Center	○	○	○
Exempla Saint Joseph Hospital	●	○	○
Littleton Adventist Hospital	●	○	○
National Jewish Medical and Research Center			
North Suburban Medical Center	○		○
Porter Adventist Hospital	○	○	○
Presbyterian/St. Luke's Medical Center	○	○	○
Rose Medical Center	●	○	●
St. Anthony Hospital Central	○	○	○
St. Anthony Hospital North	○	○	○
Swedish Medical Center	○	○	○
The Children's Hospital			
The Medical Center of Aurora	○	○	○
University of Colorado Hospital	●	○	○

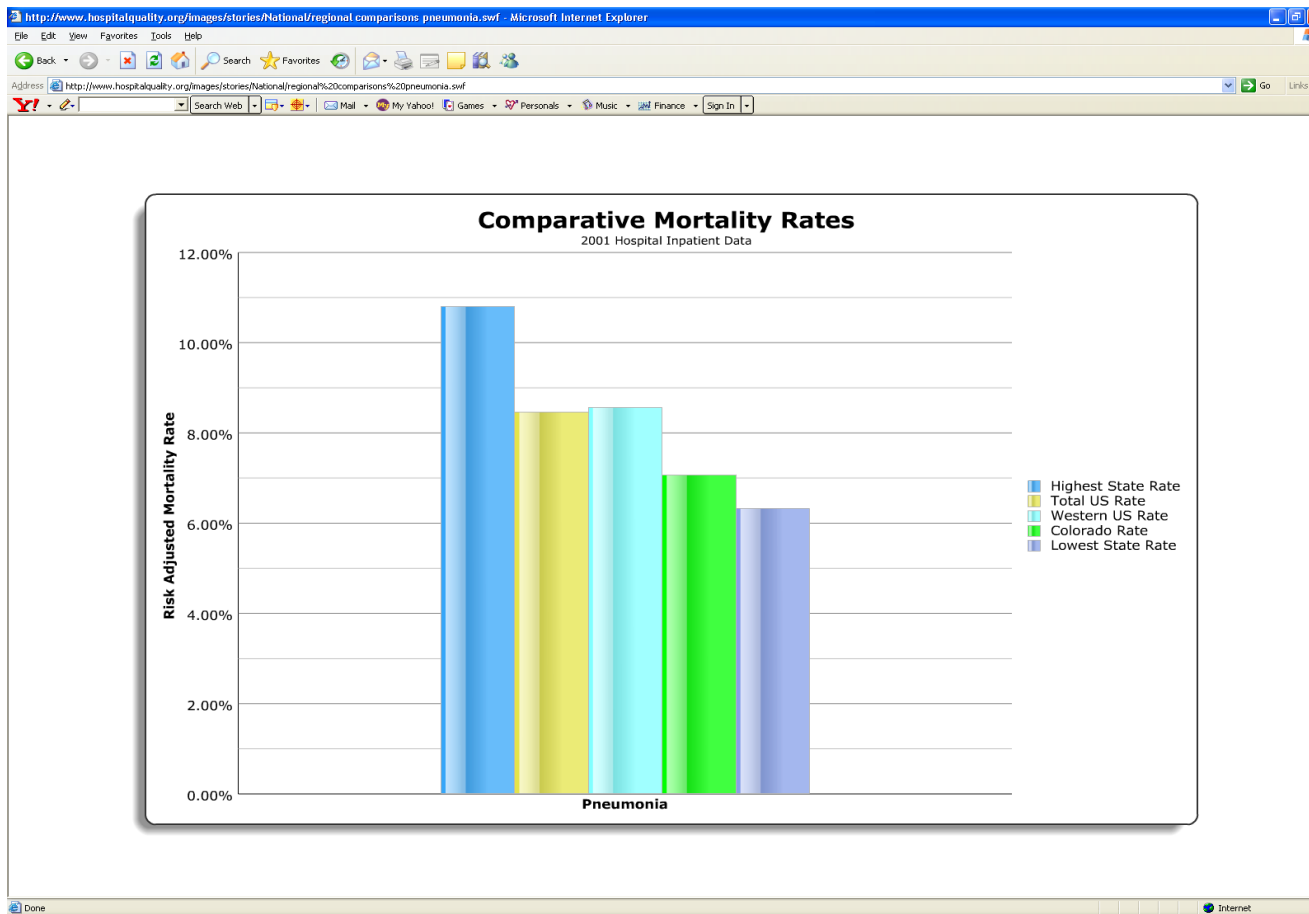
○ = No Statistical Difference  
 ● = Statistically Lower Mortality Rate  
 ○ = Statistically Higher Mortality Rate  
 Blank = Fewer Than 30 Cases

<b>North Central Region</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
<b>Colorado Statewide Risk Adjusted Rate</b>	8.74%	8.38%	7.04%

○ = No Statistical Difference  
 ● = Statistically Lower Mortality Rate

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# Context



# Detail

2001 - 2003 Pneumonia Mortality

Hospital Name	Number of Cases	Number of Deaths	Observed mortality Rate	Risk adjusted mortality rate	Expected Mortality rate	Low Bound Confidence Interval	High Bound Confidence Interval	Stat.Sig.
<b>Statewide Totals</b>	38655	2286	5.91%	6.58%	6.58%	6.32%	6.85%	6.58%
<b>Denver Metro</b>								
Craig Hospital	2	0						
National Jewish Medical and Research Center	4	0						
Hospital Name	Number of Cases	Number of Deaths	Observed mortality Rate	Risk adjusted mortality rate	Expected Mortality rate	Low Bound Confidence Interval	High Bound Confidence Interval	Stat.Sig.
<b>Statewide Totals</b>	38655	2286	5.91%	6.58%	6.58%	6.32%	6.85%	6.58%
<b>Northeast</b>								
East Morgan County Hospital	79	6	7.59%	6.79%	7.36%	0.98%	12.60%	○
Haxtun Hospital District	33	1	3.03%	0.43%	45.90%	0.00%	9.42%	○
Keefe Memorial Hospital	84	5	5.95%	8.25%	4.75%	2.61%	13.88%	○
Melissa Memorial Hospital	67	4	5.97%	7.43%	5.29%	1.12%	13.74%	○
Sedgwick County Memorial Hospital	56	5	8.93%	11.86%	4.96%	4.96%	18.76%	○
Wray Community District Hospital	70	3	4.29%	7.92%	3.56%	1.75%	14.10%	○
Hospital Name	Number of Cases	Number of Deaths	Observed mortality Rate	Risk adjusted mortality rate	Expected Mortality rate	Low Bound Confidence Interval	High Bound Confidence Interval	Stat.Sig.
<b>Statewide Totals</b>	38655	2286	5.91%	6.58%	6.58%	6.32%	6.85%	6.58%
<b>Southeast / South Central</b>								
Weisbrod Memorial County Hospital	41	1	2.44%	4.16%	3.86%	0.00%	12.23%	○
Hospital Name	Number of Cases	Number of Deaths	Observed mortality Rate	Risk adjusted mortality rate	Expected Mortality rate	Low Bound Confidence Interval	High Bound Confidence Interval	Stat.Sig.
<b>Statewide Totals</b>	38655	2286	5.91%	6.58%	6.58%	6.32%	6.85%	6.58%
<b>Western Slope</b>								
Family Health West	33	6	18.18%	11.77%	10.17%	2.78%	20.76%	○
Kremming Memorial Hospital	55	1	1.82%	5.59%	2.14%	0.00%	12.56%	○
Pioneers Hospital	87	2	2.30%	8.26%	1.83%	2.73%	13.80%	○
Rangely District Hospital	8	1						○
Vail Valley Medical Center	84	2	2.38%	4.23%	3.71%	0.00%	9.86%	○

# ***Publication***

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- Hospitals Received Reports 6 mos. In Advance
- Series of Education Programs 2 Weeks Prior to Publication (Hospitals, Physicians, Payers, Press)
- Hospital's Prepared Communication Tools
- Joint Press Conference April 4, 2005 – w/ CMS and QIO
- Coordinated w/ CMS Process Indicators
- Emphasis On Heart Attack, Heart Failure and Pneumonia

# ***Small Splash / Wide Ranging Ripples***

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- Initial Intense State Wide Coverage
- Print As Well As Broadcast Media
- Some National Coverage Including Modern Health Care and Wall Street Journal
- No Fire Storm – Probably Result of Communications Plan
- Continued Interest

## ***Next Steps***

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- Publish 2004 Data In Autumn 2005
- Share Learnings / QI Initiatives Among Hospitals
- Opportunities Related To Best Practices
- Look At Care Prior To Hospitalization (PQIs)