Translating Institutional Goal-Setting and Benchmarking to the Bedside: Dashboards, Clinical Service Groups and Goal Sheets

The Quality Colloquium on the Campus of Harvard University August, 2006



- I. Prioritizing Organizational Goals
- II. Developing a Quality Structure to Achieve Organizational Goals
- III. Translating Organizational Goals into Action: Utilizing Dashboards to Drive Change
- IV. Integrating Performance Improvement into Daily Activities: Daily Goal Sheets

Prioritizing Organizational Goals

- Patient Safety
- Congruent with the mission, vision, values, and strategic plan of the institution
- High-volume diagnoses, procedures, processes
- High-cost diagnoses, procedures, processes
- Problem-prone procedures, processes
- Input from external sources (licensing, regulatory agencies)

Barriers To Effective Integration

Hospital

- Diversity of patient populations
- Diversity of healthcare populations
- Crisis management/Day-to-day imperatives
- Fiscal constraints
- Physician culture
- Academic Medical Center
 - Lack of alignment between School of Medicine and Hospital
 - Clinical service chiefs are academic department heads
 - Hospital physicians are primarily faculty

integration of Performance Improvement

GOALS Performance Improvement Activities & Measurements

PRIORITIZATION

Performance Improvement Priorities

STRATEGY

Strategic Initiatives

 Public Reporting Data/JCAHO & CMS: Heart, Medicine, Emergency Medicine, Obstetrics, Pediatrics
 Internal Reporting/Hospital Dashboards for Clinical Service

Groups and other Services/Departments

- Patient Safety
- IHI's 100,000 Lives Saved Campaign
- Surviving Sepsis Campaign
- Heart/Cancer Services
- Perinatal Services
- Patient Satisfaction
- Required Measures
- CARE effort

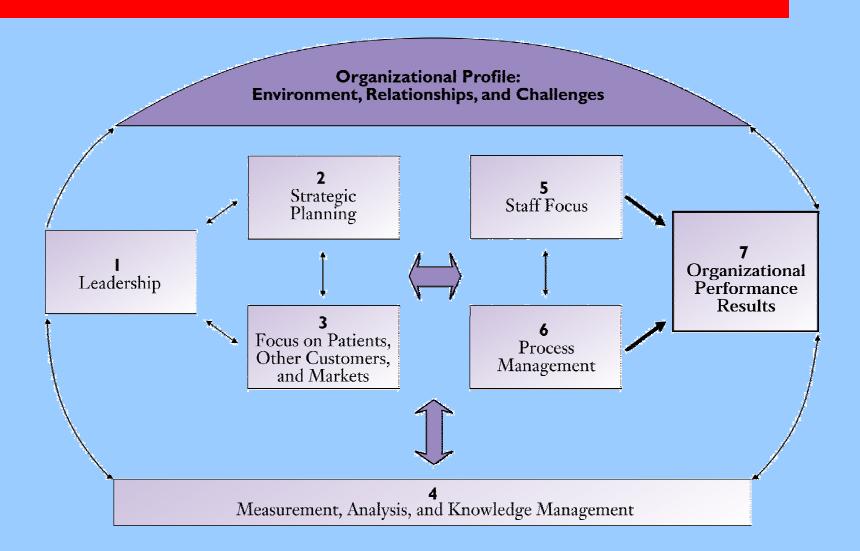
Performance Standards

- Enhance Quality Program
- Implement Electronic Patient Recor
- Implement Strategic Plan
- Improve Satisfaction
- Meet Financial Targets

FOUNDATION

Mission, Vision, Values

Malcolm Baldrige National Quality Award A System Perspective



Developing a Quality Structure to Achieve Organizational Goals

• What didn't work:

- Hospital-Within-Hospital (HWH) Structure
 - Led by administrative triad (Physician, Nurse, Operations Administrator)
 - Quality structure supported HWH Quality Councils led by administrative triad
 - HWH Quality Councils overseen by Executive Quality Council

• Why it didn't work:

- Those closest to operational processes not involved in performance improvement efforts and measurement
- Not enough specificity in terms of indicator development and measurement to identify relevant opportunities for improvement
- Disparate databases not conducive to obtaining readily available data for performance improvement (Solution: Create Decision Support Services Dept)
- Attempting to measure "the universe" for all patient populations rather than using Pareto principle (80/20 rule)

Modalities to Overcome Barriers

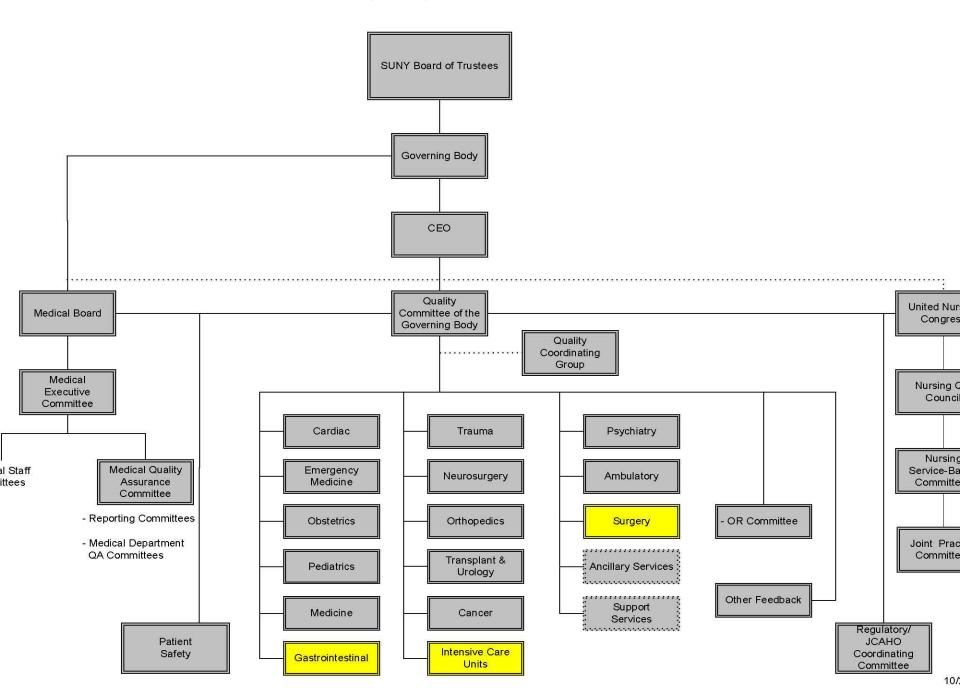
- Structure
- Measurement
- Expression of Measurement
- Dissemination
- Consistency
- Feedback
- Response

Developing a Quality Structure to Achieve Organizational Goals

• Executive Leadership Changes Led to Structural Changes

- Administrative Table of Organization
- Quality Management Structure
 - Formation of Quality Committee of the Governing Body
 - Formation of Quality Coordinating Group
 - Reviews organizational data
 - Identifies opportunities for improvement
 - Delegates responsibility to appropriate quality committee for follow-up and improvement
 - Formation of Clinical Service Groups
 - Development of Institutional and Clinical Service Group Dashboards
 - Evolution to identify relevant indicators for key processes through service groups

Stony Brook University Hospital Quality Management Structure



Measurement: Expectations for Clinical Service Groups

- Ownership
- Derivation
- Iteration
- Feedback
- Response

Clinical Service Groups (CSGs)

- Interdisciplinary service group consisting of physicians, nurses, administrators, ancillary, support staff, clinical educators and additional health care professionals, as necessary
- Focused on quality, operations, service, utilization, and financial improvement
- Performance elements reflect the above areas for improvement

Expression of Measurement: Dashboards

- Elements derived from Clinical Service Groups/Regulatory requirements
- Clarity/Focus (green, yellow, red)
- Explicit trending
- Benchmarks
- Data dictionary
 - Numerator definitions
 - Denominator definitions
 - Target sources

Expression and Dissemination of Measurement Through Quality Dashboards

- JCAHO/ORYX Core Measures
- CMS Public Reporting Project
- Service Group Specific Indicators
- Other Indicators and Opportunities for Improvement Prioritized Using the Following Criteria
 - Quality focus
 - Patient Safety
 - Meets mission and strategic goals of the hospital
 - High-risk
 - Problem-Prone
 - High Volume
 - High-cost

Intranet Access/Direct E-mail

Expression of Measurement Through Quality Dashboards

JCAHO/ORYX Core Measures Sets

- Acute Myocardial Infarction
- Pregnancy and Related Conditions
- Community Acquired Pneumonia

• CMS Public Reporting Project:

- Acute Myocardial Infarction
- Community Acquired Pneumonia
- Congestive Heart Failure
- Future Emphasis
 - Patient Satisfaction
 - Surgical Care Improvement
 - Linkage to Pay for Performance (Pay for Quality)

Translating Organizational Goals Into Action: Utilizing Dashboards to Drive Change

What works:

- Involving those closest to processes that are being improved
- Multiple disciplines involved in key indicator development
- Access to multiple databases using one source (Decision Support Services)
- Collecting "actionable" data
- Demonstrating value to improve organizational performance and gain buy-in
- Recognize and celebrate successes

Translating Organizational Goals Into Action: Utilizing Consistent Dashboards to Drive Change

- Roadmap to Developing Dashboards
 - Utilized "Value Compass" Approach
 - Clinical Outcomes
 - Functional Outcomes
 - Patient/Employee/Customer Satisfaction
 - Administrative/Financial Outcomes
 - Aligned strategic goals with quality goals
 - Identified key metrics associated with strategic quality goals using prioritization mechanism through service group structure
 - Top-down and bottom-up approach for identifying key metrics by service
 - Utilized benchmarking and evidence-based literature to identify key metrics and targets

Translating Organizational Goals Into Action: Utilizing Consistent Dashboards to Drive Change

• How do we populate dashboards?

- Data collected:
 - Manually
 - Electronically
 - Hybrid
- Data submitted to Quality Management Department or Decision Support Services Department as data repository
- Key individuals responsible for dashboard population

How is dashboard information shared?

- Clinical Service Group liaisons (Quality Management representatives) bring updated dashboards to Clinical Service Group meetings
- Participants at Clinical Service Group meetings share and distribute dashboards at Joint Practice meetings, staff meetings, team meetings and other relevant forums
- Distributed electronically to clinical chairs, executive staff and "C" Suite
- Data are posted on performance improvement boards on the units
- Shared at Quality Committee of the Governing Body meetings as well as w the Governing Body itself.

Decision Support Services: "One Stop Shop" for Consistent Data and Analysis

• Access to all relevant databases

- University Healthsystem Consortium (UHC)
- Healthshare 2
- Solucient
- Press Ganey
- Patient Complaints
- Patient Safety Net
- Service-Specific
 - Surgery: National Surgical Quality Improvement Program
 - Trauma Registry
 - Cardiology Databases

Future State

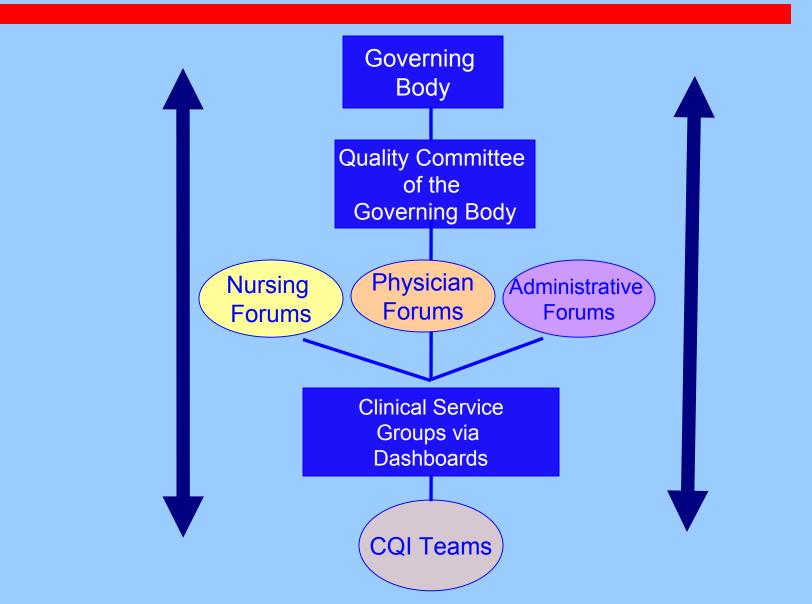
Data warehouse with distributed access

Decision Support Services

Assists to Support Quality-Driven Initiatives

- Performance Standards/Dashboard elements
- Clinical Resource Management
 - Identifying areas for potential improvement
 - Focused "drill downs" for follow-up analyses
- Critical Care
 - SICU, PICU, MICU: IHI Collaborative project
 - MICU: Data collection/analyses; data manager
- Physician Feedback Reports (for quality review and recredentialing
- Ad-hoc analyses for Clinical Service Groups, CQI Teams, Hospital Initiatives

Data/Information Feedback and Communication



Stony Brook University Hospital - Executive Summary Dashboard

"Confidential and required to be collected and maintained pursuant to Public Health Law Sections 2805 - j,k,l and m."

| Stony Drook Chiversuy Hospital - Executive Summary D | านรถบบนใน | | | | | | DEGENERAL REPERTS | | - | | | | | G2018504965-00.2084 |
|--|---------------------------------------|--|---------------|---------------------------------------|---------|---------------|-------------------|---------|---------|---------------------------------------|---------------|---------------|---------------|---------------------|
| Dperations | Target | Jun-05 | Jul-05 | Aug-05 | Sep-05 | Oct-05 | Nov-05 | Dec-05 | Jan-06 | Feb-06 | Mar-06 | Apr-06 | May-06 | Jun-06 |
| Discharges | >=2377 | 2263 | 2283 | 2430 | 2289 | 2256 | 2280 | 2253 | 2291 | 2206 | 2593 | 2271 | 2462 | |
| Decupancy rate | >=87.2% | 85.2% | 87.8% | 85.9% | 88.2% | 85.8% | 86.3% | 81.0% | 86.9% | 96.4% | 92.3% | 85.4% | 88.6% | |
| ALOS - Discharged Days | <=5.54 | 6.19 | 5.97 | 5.77 | 5.98 | 5.69 | 5.59 | 6.04 | 5.57 | 5.56 | 6.09 | 5.45 | 5.65 | |
| Case Mix Index (all patients) | >=1.788 | 1.897 | 1.825 | 1,797 | 1.810 | 1.798 | 1.821 | 1.794 | 1.773 | 1.750 | 1.926 | 1,868 | 1.917 | |
| Case Mix Index (all Medicare patients) | >=1.820 | 1.728 | 1.855 | 1.641 | 1.699 | 1.574 | 1.658 | 1.716 | 1.737 | 1.753 | 1.814 | 1.699 | 1.809 | |
| Case Mix Index (all non-Medicare patients) | >=1.779 | 1.979 | 1.821 | 1.850 | 1.867 | 1.881 | 1.885 | 1.816 | 1.790 | 1.749 | 1.937 | 1.933 | 1.949 | |
| Volume - Surgical Procedures | Target | Jun-05 | Jul-05 | Aug-05 | Sep-05 | Oct-05 | Nov-05 | Dec-05 | Jan-06 | Feb-06 | Mar-06 | Apr-06 | May-06 | Jun-06 |
| Surgical Procedures - Total | >=1475 | 1578 | 1472 | 1594 | 1343 | 1390 | 1412 | 1299 | 1405 | 1434 | 1650 | 1450 | 1602 | |
| Main OR - Total | >=887 | 891 | 912 | 933 | 800 | 838 | 835 | 758 | 823 | 853 | 962 | 828 | 937 | |
| Ambulatory Surgery Center | >=588 | 687 | 560 | 661 | 543 | 552 | 577 | 541 | 582 | 581 | 688 | 622 | 665 | |
| Volume - Cardiac Procedures | Target | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | |
| | | Rate - | Rate - | Rate - | Rate - | Rate - | Rate - | Rate – | Rate - | Rate – | Rate - | Rate – | Rate – | |
| | | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | |
| | | Q2 2003 | Q3 2003 | Q4 2003 | Q1 2004 | Q2 2004 | Q3 2004 | Q4 2004 | Q1 2005 | Q2 2005 | Q3 2005 | Q4 2005 | Q1 2006 | |
| CABG | | | | | 113 | 114 | 120 | 89 | 83 | 88 | 77 | 91 | | |
| Dther Open Heart | | | | | 60 | 43 | 34 | 46 | 44 | 52 | 38 | 34 | | |
| Percutaneous Coronary Intervention | | | | | | | 353 | 396 | 408 | 433 | 470 | 459 | 502 | |
| Diagnostic Catheterization | | | | | | | 722 | 694 | 733 | 699 | 695 | 716 | 940 | |
| Volume - Oncology Discharges | Target | Jun-05 | Jul-05 | Aug-05 | Sep-05 | Oct-05 | Nov-05 | Dec-05 | Jan-06 | Feb-06 | Mar-06 | Apr-06 | May-06 | Jun-06 |
| Adults - Total | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · | | | | A | | · · · · · · · · · · · · · · · · · · · | | A | | |
| Adults - Surgical Oncology | | | | | | | | | | | | | | |
| Adults - Medical Oncology | | | | | | | | | | | | | | |
| Adults - Radiation Oncology | | | | | | | | | | | | | | |
| Pediatrics - Total | | | | | | | | | | | | | | |
| Pediatrics - Surgical Oncology | | | | | | | | | | | | | | |
| Pediatrics - Medical Oncology | | | | | | | | | | | | | | |
| Pediatrics- Radiation Oncology | | | | | | | | | | | | | | |
| Patient Satisfaction - Press Ganey Percentile Rank in UHC Peer Group | Target | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | |
| | | Rate – | Rate – | Rate – | Rate – | Rate - | Rate – | Rate – | Rate - | Rate – | Rate – | Rate – | Rate – | |
| | | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | |
| | | Q2 2003 | Q3 2003 | Q4 2003 | Q1 2004 | Q2 2004 | Q3 2004 | Q4 2004 | Q1 2005 | Q2 2005 | Q3 2005 | Q4 2005 | Q1 2006 | |
| Dverall Hospital Rating | >=75 | 27 | 32 | - 26 | 43 | 22 | 27 | 23 | 31 | 32 | 57 | 27 | - 35 | |
| Emergency Department - Overall Facility Ranking | >=75 | 80 | 52 | 54 | 60 | 54 | 73 | 72 | 29 | 59 | 48 | - 30 | 21 | 8 |
| Ambulatory Surgery Center - Overall Facility Ranking | >=75 | | | | | | | | 97 | 97 | 99 | 99 | 97 | |
| Ambulatory Services - Overall Facility Ranking | >=75 | 15 | 17 | 29 | 29 | 21 | 31 | 13 | 38 | 25 | 41 | 37 | 18 | |
| Iuman Resources - Turnover | Target | Jun-05 | Jul-05 | Aug-05 | Sep-05 | Oct-05 | Nov-05 | Dec-05 | Jan-06 | Feb-06 | Mar-06 | Apr-06 | May-06 | Jun-06 |
| Hospital-wide | <=1.41% | 1.09% | 1.28% | 1.60% | 0.90% | 0.92% | 0.73% | 0.75% | 1.09% | 0.86% | 0.86% | 0.52% | 1.37% | |
| | 1 | and the second | | and a set | | | | 1000 | | | | | 1000 | |
| | | (53) | (55) | (69) | (39) | (39) | (32) | (33) | (48) | (40) | (38) | (23) | (61) | |
| Vursing | <=1.41% | (53) | (55) 1.37% | (69) 1.45% | (39) | (39) 0.88% | (32) 0.65% | (33) | (48) | (40) | (38) 0.64% | (23) 0.52% | (61) 1.38% | |

Stony Brook University Hospital - Executive Summary Dashboard

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| Stony Dioon Chirefsky Hospital Dicentife Swinning Dushooura | | | | | | | | | | | | | | |
|--|--------------|---------|---------|---------|---------|---------|--------------------|---------|---------|---------|---------|---------|---------|--|
| Core Measures - Acute Myocardial Infarction | Target | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | Average | |
| | | Rate – | Rate – | Rate – | Rate – | Rate – | Rate – | Rate – | |
| | | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | SBUH | |
| | | Q2 2003 | Q3 2003 | Q4 2003 | Q1 2004 | Q2 2004 | Q3 2004 | Q4 2004 | Q1 2005 | Q2 2005 | Q3 2005 | Q4 2005 | Q1 2006 | |
| lime to thrombolysis | <30 minutes | N/A | N/A | N/A | N/A | N/A | N/A | 67 | 110 | N/A | N/A | N/A | | |
| Time to PTCA | <120 minutes | 274 | 882 | 109 | 113 | 103 | 110 | - 97 | 109 | 110 | 78.3 | 82.8 | | |
| Adult cessation advice | 100% | 66.7% | 77.2% | 62.3% | 81.6% | 98.8% | 96.4% | 91.8% | 92.5% | 96.3% | 91.0% | 96.3% | | |
| Aspirin at arrival | 100% | 96.3% | 97.7% | 98.9% | 98.1% | 100% | 98.9% | 100% | 97.0% | 97.0% | 98.1% | 97.2% | | |
| Aspirin prescribed at discharge | 100% | 93.4% | 96.0% | 99.5% | 97.9% | 100% | 100% | 99.6% | 99.2% | 99.1% | 99.2% | 99.6% | | |
| ACEI or ARB* for LVSD *ARB's not included in measure prior to $1/1/05$ | 100% | 75.7% | 81.0% | 73.9% | 72.7% | 84.8% | 87.9% | 90.9% | 87.5% | 75.0% | 68.1% | 89.3% | | |
| Beta blocker prescribed at discharge | 100% | 91.8% | 96.1% | 98.4% | 98.3% | 99.6% | 99.5% | 100% | 100% | 97.8% | 97.3% | 97.1% | | |
| npatient mortality | | 9.4% | 8.8% | 7.4% | 6.4% | 5.1% | 7.2% | 9.5% | 10.2% | 5.3% | 5.8% | 7.5% | | |
| Beta blocker at arrival | 100% | 90.4% | 93.2% | 98.7% | 99.0% | 98.9% | 100% | 100% | 100% | 98.9% | 99.0% | 97.0% | | |
| Core Measures - Congestive Heart Failure | | | | | | | | | | | | | | |
| Discharge Instructions | 100% | 5.3% | 14.1% | 13.8% | 4,4% | 21.0% | 33.8% | 32.5% | 26.1% | 33.8% | 24.20% | 17.1% | | |
| LVF Assessment | 100% | 95.7% | 70.0% | 87.9% | 89.0% | 94.7% | 96.7% | 97.8% | 100% | 98.9% | 100% | 97.6% | | |
| $ m ACEI$ or $ m ARB^{*}$ for $ m LVSD$ *ARB's not included in measure prior to 1/1/05 | 100% | 70.4% | 81.3% | 91.7% | 71.7% | 78.9% | <mark>97.0%</mark> | 100% | 95.0% | 97.2% | 97.10% | 100% | | |
| Adult Smoking Cessation Advice / Counseling | 100% | 42.9% | 81.8% | 42.9% | 40.0% | 100% | 93.3% | 92.3% | 90.9% | 70.0% | 61.50% | 58.8% | | |
| Core Measures - Community Acquired Pneumonia | | | | | | | | | | | | | | |
| Antibiotic timing (minutes) | <240 minutes | 255 | 297 | 229 | 248 | 236 | 209 | 284 | 207 | 224 | 292 | 192 | | |
| Dxygenation assessment | 100% | 98.0% | 99.0% | 99.2% | 100% | 100% | 100% | 100% | 100% | 100% | 98.1% | 100% | | |
| Pneumococcal screen/vaccination | 100% | 54.1% | 46.9% | 34.9% | 64.9% | 60.0% | 64.3% | 77.8% | 44.8% | 54.2% | 55.6% | 77.4% | | |
| Blood cultures prior to first antibiotic | 100% | 93.1% | 93.0% | 93.2% | 92.5% | 97.2% | 91.2% | 82.6% | 87.2% | 80.6% | 82.2% | 80.9% | | |
| Blood cultures within 24 hours | 100% | | | | | | | | | | 90.9% | 80.0% | | |
| Adult smoking cessation advice | 100% | 16.7% | 47.6% | 30.0% | 36.0% | 75.0% | 83.3% | 71.4% | 57.1% | 81.8% | 27.3% | 35.3% | | |
| nitial ABX within 8 hours | | | | | | | 95.3% | 85.7% | 97.3% | 87.9% | 85.0% | 93.1% | | |
| nitial ABX within 4 hours | | | | | | | 67.4% | 57.1% | 75.7% | 72.7% | 62.5% | 75.9% | | |
| nitial ABX selection - ICU | | | | | | | 57.1% | 14.3% | 50.0% | 25.0% | 66.7% | 100% | | |
| nitial ABX selection - Non-ICU | | | | | | | 76.7% | 80.6% | 77.8% | 75.0% | 90.9% | 87.9% | | |
| | | | | | | | | | | | | | | |

Consistency

- Measurement expression (dashboards)
- Overlap of measurements on separate dashboards when performance is shared
- Dashboard elements consistent over time
- Data dictionary is explicit
- Ownership

| ratories - TAT Studies - Clinical ology | Target | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Aug-05 | Se |
|--|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|----|
| 1 Stain - Spinal Fluid complete <=60 tes receipt to result | >=95% | 85% | 97% | 96% | 93% | 94% | 97% | 99% | 97% | 98% | 97% 0 | 95% | 99% | 9 |
| n Stain - All Other Specimens plete <=150 minutes receipt to result | >=95% | 97% | 98% | 98% | 98% | 97% | 98% | 98% | 98% | 94% | 96% | 97% | 92% | 9 |
| ient CBC - STAT complete <=60 tes receipt to result | 100% | 97% | 97% | 95% | 97% | 97% | 98% | 98% | 96% | 97% | 97% | 97% | 96% | 9 |
| tient CBC - Routine complete <=240 tes receipt to result | >=95% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 10 |
| tient CHEM 8 - STAT complete) min receipt to result | 100% | 84% | 85% | 82% | 83% | 89% | 89% | 89% | 86% | 85% | 83% | 84% | 83% | 8 |
| ient CHEM 8 - Routine complete 0 min receipt to result | >=95% | | 100% | 100% | 100% | 100% | 100% | 100% | 1.00% | 100% | 99% | 99% | 100% | 1(|
| roponin I complete <=60 minutes pt to result | 100% | 51% | 47% | 41%0 | 47% | 60% | 65% | 64% | 62% | 60% | 56% | 55% | 62% | 5 |
| ology - Inpatients | Target | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Aug-05 | Se |
| - Order to Exam | <=8 hours | 14.6 | 17.6 | 15.8 | 10.0 | 13.1 | 13.6 | 12.1 | 11.9 | 9.6 | 8.7 | 12.9 | 6.0 | 1 |
| - Exam to Dictation | <=8 hours | 18,3 | 19.3 | 15.5 | 15.4 | 17.4 | 14.5 | 15.3 | 16.8 | 14.8 | 14.6 | 20.2 | 16.0 | j. |
| - Dictation to Final Report | <=8 hours | 6.6 | 7.2 | 8.2 | 8.2 | 6.9 | 6.7 | 7.4 | 5.3 | 4.4 | 4.7 | 5.3 | 4.2 | 3 |
| - Order to Final Report | <=24 hours | 44 1 | 53.5 | 42.5 | 37.7 | 38.3 | 39.1 | 36.9 | 38.1 | 32.5 | 31.3 | 40.1 | 35,4 | 4 |
| | Target | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Aug-05 | Se |
| Order to Exam | <=8 hours | 2.3 | 2.1 | 3.0 | 2.3 | 2.7 | 2.9 | .2.5 | 2.1 | 2.6 | 2.8 | 2.6 | 2.4 | |
| Exam to Dictation | <=8 hours | 13.5 | 14.2 | 13.7 | 14.2 | 14,4 | 13.4 | 13.0 | 13.4 | 13.1 | 14.1 | 15.4 | 14.2 | 1 |
| Dictation to Final Report | <=8 hours | 3.7 | 6,8 | 5.3 | 7.4 | 4.6 | 6.1 | 3.3 | 4.1 | 4.6 | 1,5 | 2.7 | 3.2 | 2 |
| Order to Final Report | <=24 hours | 21.2 | 25.9 | 25.4 | 26.5 | 25.6 | 24.9 | 21.2 | 23.0 | 24.8 | 20.6 | 22.74 | 21.1 | 2 |
| | Target | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Aug-05 | Se |
| - Order to Exam | <=8 hours | 19.36 | 6.51 | 9.31 | 0.01 | 4.05 | 2.0 | 1.9 | 1.4 | 1.6 | 2.0 | 1.7. | 1.7 | |
| - Exam to Dictation | <=8 hours | 10.8 | 12.0 | 10.5 | 10.3 | 9.9 | 10.3 | 9.6 | 10.5 | 10.0 | 10.2 | 11.53 | 10.7 | 1 |
| - Dictation to Final Report | <=8 hours | 4.66 | 5.98 | 5.8 | 6.7 | 5.28 | 5.8 | 5.5 | 3.3 | .3.7 | 3.6 | 3.54 | 4.1 | -5 |
| - Order to Final Report | <=24 hours | 18.7 | 21.4 | 19.2 | 17.2 | 18.1 | 19.2 | 18.4 | 16.7 | 17.2 | 16.9 | 18.4 | 18.1 | 1 |

| ort Services - Performance Metrics | Target | Aug-04 | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Au |
|---|---------|---------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----------|----------|------|
| liness of Assessments-for high-risk | >=90% | 98% | N/A | 98% | N/A | 96%a | N/A | 81% | N/A | 98% | N/A | 98% | N/A | 10 |
| in 24 hours) | | (46.47) | | (45/46) | | (55/57) | | (81/100) | | (55/56) | | (55/56) | | (43 |
| n cleaning turnaround time on | <=60 | 61 | .59 | 57 | 56 | 58 | -58 | 57 | 57 | 58 | 56 | 59 | | 1 |
| arge | min | | | | | | | | | | | | | |
| ndonment rate for telephone | <=10% | N/A | 7% | 6.8% | 8.1% | 6.9% | 7% | 7% | 9.54% | 7.12% | 7.43% | 6.53% | 5.21 | 6. |
| ators (total number of calls) | | | (157, 284) | (155, 698) | (155, 158) | (144, 431) | (153,622) | (145,054) | (170, 122) | (151, 998) | (156, 501) | (155,776) | (149,261 | (152 |
| hasing - Commodities | Target | Aug-04 | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Au |
| entage of orders (under \$75,000) pleted within 5 days | >=85% | 90.76% | 93.09% | 90.90% | 87.36% | 91.75% | 92.38% | 92.04% | 91.93% | 88.91% | 89.91% | 86.72% | 87.61% | 90. |
| entage of orders (under \$75,000) | >=20% | 16.85% | 22.96% | 26.9% | 20.98% | 22,52% | 23.46% | 24,40% | 22,98% | 29.69% | 23.24% | 21.24% | 23.38% | 21. |
| oleted same day the requistion went vstem | | | | | | | | | | | | | | |
| entage of orders (under \$75,000) pleted in longer than 5 days | <=10% | 9.24% | 6.91% | 9.91% | 12.64% | 8.25% | 7.62% | 7.96% | 8.07% | 11.09% | 10.09% | 13.28% | 12.39% | 9.1 |
| entage of approved Local Purchase | 100% | 67% | 100% | 100% | 100% | 100% | 83% | 78% | 89% | 91.6% | 100% | 100% | 100% | 9 |
| orizations approved versus number | | (2/3) | (10/10) | (5/5) | (8/8) | (1/1) | (5/6) | (7/9) | (8/9) | (11/12) | (2/2) | (5/5) | (2/2) | (11 |
| ested | | | | | | | 1 | | | No en elez | | | | - X |
| entage of Non-Contract Equipment | >=85% | | | | | | | | | | 75% | 100% | 100% | 10 |
| rs (over \$20,000) that were | | | | | | | | | | | (3/4) | (3/3) | (4/4) | C |
| essed within 7 weeks or less | | | | | | | | | | 2 | | | | |
| mation Technology - Cerner | Target | Aug-04 | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Au |
| ication uptime: percentage of | >=99.0% | 98.79% | 99.86% | 99.87% | 99 72% | 99.87% | 99.82% | 100% | 100% | 99.72% | 98.39% | 100% | 99.19% | 10 |
| ability based on a 24/7 operation | | | | | | | | | | | | | | |
| anned downtime: number of | 0 | 0 | 0 | 1 | 0 | Ø | 0 | 0 | 0 | 1 | | 0 | 2 | |
| anned downtime occurrences | | | | | | | | | | | | | | _ |
| mation Technology - Help Desk | Target | Aug-04 | Sep-04 | Oct-04 | Nov-04 | Dec-04 | Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Au |
| Abandoned Rate: percentage of | <=15% | 13.2% | 11.0% | 14.9% | 15.1% | 10.4% | 14.9% | 13.9% | 9.7% | 10.8% | 8.9% | 8.7% | 8.6% | 11 |
| doned calls to total received calls | | | | | | | | | | | | | | |
| ine (problem) ticket resolution | >=98.0% | 92.3% | 95.0% | 85.8% | 83.1% | 84.2% | Under | 99.4% | 99.5% | 99.8% | 99.7% | 99.8% | 99.8% | -99 |
| round time: percentage of routine | | | | | | | review | | | | | | | |
| ts closed on the same day | | | | | | | | | | | | | | |

Dashboard Development

Clinical Service Group Dashboards

- Heart
- Emergency Medicine
- Obstetrics
- Pediatrics
- Medicine
- Trauma
- Neurosurgery
- Orthopedics
- Transplant & Urology
- Cancer
- Psychiatry
- Operating Room
- Surgery
- GI Medicine/Surgery
- ICU

Departmental Dashboards

- Laboratories
- Radiology
- Physical Therapy/Occupational Therapy
 - Support Sonviooo

Non-Clinical Dashboards

- Admitting
- Patient Accounts
- Time & Attendance
- Cost & budget
- Purchasing
- Labor Relations
- Human Resources
- Facilities
- Information Technology

Miscellaneous

- Medical Quality Assurance
 - Nutrition Committee
 - Pharmacy & Therapeutics Committee
 - Surgical Review Committee
 - Medical Record Committee
 - Infection Control Committee
- Patient Satisfaction

Response: Modalities of Change Management

- Consensus building
- Dashboard expression
- CQI efforts
- Benchmarking/collaborative projects
- Regulatory initiatives

Response: CQI Activities

Facilitation

- Clinical Service Groups
 - Dashboard development/maintenance
 - Coordinate performance improvement activities

CQI Teams

- IHI Collaborative: Reducing Complications in the SICU, PICU, MICU, and NICU
- Code H Team
- Rapid Response Team
- Mislabeled/Unlabeled Specimens Team
- Deep Vein Thrombosis Prophylaxis Team
- ED Patient Satisfaction Steering Committee
- UHC Surgical Services Initiative
 - Supply expenses
 - Facility utilization

Root Cause Analyses/Failure Mode and Effects Analyses

Resident to Resident Communication: Patient Handoffs on Medicine Service

Response: CQI Activities

 Institute for Healthcare Improvement's 100,000 Lives Saved Campaign

- Deployment of rapid response teams (RRTs)
- Delivery of reliable, evidence-based care for acute myocardial infarction (AMI)
- Prevention of adverse drug events
- Prevention of central line infections
- Prevention of ventilator associated pneumonia
- Prevention of surgical site infections

Response: CQI Team Efforts For AMI Care

- AMI: ED Door to Balloon Team
 - ACS guideline development/implementation
 - Developed/implemented Code "H" process

| Acute Myocardial Infarction | Target | Average | Avera |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | | Rate – | Rate |
| | | SBUH | SBUI |
| | | O2 2003 | O3 2003 | O4 2003 | O1 2004 | O2 2004 | O3 2004 | O4 2004 | O1 2005 | O2 2005 | O3 2005 | O4 20 |
| Time to PTCA | <120 | 274 | 882 | 109 | 113 | 103 | 110 | 97 | 109 | 110 | 78.3 | 82.8 |
| | minutes | | | | | | | | | | | |

Response: Benchmarking/Collaborative Projects

- Institute for Healthcare Improvement's Reducing Complications in the ICU Collaborative
- Institute for Healthcare Improvement's Saving 100,000 Lives Campaign
- Institute for Healthcare Improvement's Critical Care Collaborative

CQI Team Efforts: Benchmarking/ Collaborative Projects

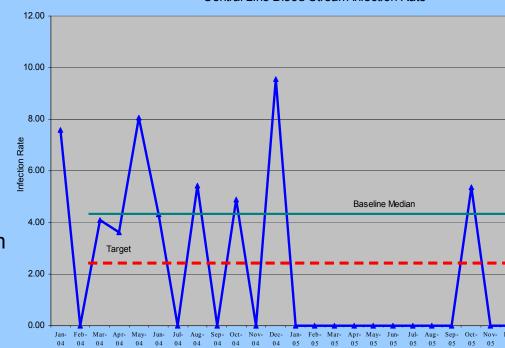
Implementing an Idealized Model for Critical Care: Preventing Harm and Promoting Healing – November 2005 Collaborative

- Communication and Collaboration of a Multi-disciplinary team (continued)
- Reducing Complications from Ventilators (continued)
- Reducing Complications from Central Lines (continued)
- Improved Glucose Control
- Reducing Mortality due to Severe Sepsis in collaboration with the Surviving Sepsis Campaign

Prevent Central Line Infections

Hospital-wide standardized central line kit includes:

- Gown
- Cap
- Mask
- Full Body Drape 55" x 77" w/ 4" Fenestration
- CHG Prep
- Biopatch Dressing
- Tegaderm Dressing 10cm x 12cm
- Central Line Audit Tool
- Description of the Bundle
- Early removal
- Daily review of necessity
- Insertion audits
- Feedback regarding compliance



Central Line Blood Stream Infection Rate

Integrating Performance Improvement Into Bedside Activities: Daily Goal Sheets

- Change Management at the Bedside: IHI Reducing Complications in the ICU – Collaborative September 2004
 - Daily Goal Sheets (at bedside)
 - Multidisciplinary Rounding (at bedside)
 - Team Meetings

Establish Daily Goals

- Establish appropriate, explicit daily goals for patients
 - DVT/PUD prophylaxis
 - Head of bed $\geq 30^{\circ}$
 - Nutritional goals
- Use daily goal sheet to document and communicate
 - Used in conjunction with rounding
- Use daily goal sheet to evaluate patient safety risks
 - Assessment to wean
 - Assessment of need for central line (early removal)
 - Sedation vacation
 - Sepsis screen

Modified from 2004 Institute for Healthcare Improvement

Daily Goals

- Daily goals and plan of care form utilization:
 - SICU
 - MICU
 - PICU
 - NICU
 - Neurosurgical Service
 - Orthopedic Service
- Plan for spread of forms to non-critical care units

Daily Goal Sheet Completion

- Status Section (left column) is completed by the night RN, reporting on the patient's medical status over the past 24 hours
- Patient is presented by the bedside RN to the team at IHI lightning rounds the following morning using the daily goal sheet as a rounding tool
- Team members identify the goals for the patient for that day
- Bedside RN writes the goals identified by the team for their patient in the goal section (right column)
- Multi-disciplinary team members sign the bottom of the form

| Date of NICU Ad | Imission: | Admission | n Weight: | G | A at Birth PMA | |
|---|--|--|-----------|--------|---|--|
| Day of Life: Current Problem | |)iagnosis: | | | | |
| | | | | | | |
| SYSTEM STA Date/Time: | rus | DAILY GOALS & PLAN Date/Time: | | | | |
| Respiratory Status: Vented: Yes No Ventilator Days: | | | | | □ Cont. Current Management □ Vitamin A protocol □ NICU O₂ saturation goals | |
| Intubated | | Nasal Cannula | 🗆 Ot | ther: | initiated □ SAO ₂ Saturation: (range) □ Ventilator Weaning Protocol | |
| Date: | Date: | Date: | Date | e: | | |
| | extubation within | Initiated: Yes / No N/A | | | | |
| Reintubatio | n within 24 hrs? | | | | | |
| Chest Tube | s:Yes/No Da | | | | | |
| | | | | | | |
| Retinopathy of Prematurity: • FIO2: High Low • SaO2: High Low | | | | | Cont. Current Management ROP Screening guidelines initiated | |
| FIO2: High | JhLo | w | | | ROP Screening guidelines | |
| FIO2: Hig SaO₂: Hig | JhLo | 4 hrs): | | | ROP Screening guidelines initiated Cont. Current Management | |
| FIO2: Hig SaO₂: Hig Hemodynamic Vasoactive | gh Lo gh Lo Status (prior 2 infusions? Yes | 4 hrs): / No | Low | | ROP Screening guidelines initiated Cont. Current Management | |
| FIO2: Hig SaO₂: Hig Hemodynamic Vasoactive | gh Lo gh Lo Status (prior 2 infusions? Yes sure (MAP range | 4 hrs): | Low | | ROP Screening guidelines initiated Cont. Current Management Wean blood pressure medicine | |
| FIO2: Hig SaO₂: Hig Hemodynamic Vasoactive Blood Press Invasive Li | gh Lo gh Lo Status (prior 2 infusions? Yes sure (MAP range | 4 hrs): / No :): High | Low | | ROP Screening guidelines initiated Cont. Current Management Wean blood pressure medicine | |
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| FIO2: Hig SaO ₂ : Hig Hemodynamic Vasoactive Blood Press Invasive Li Site Date Dressing Blood produ GI/Nutritional/ | h Lo Status (prior 2 infusions? Yes sure (MAP range nes: UAC UVC Locs given in pas GU Status: | 4 hrs): / No :): High Broviac t 24 hrs: | PICC | Other: | ROP Screening guidelines initiated Cont. Current Management Wean blood pressure medicine to keep at Cont. Current Management | |
| FIO2: Hig SaO ₂ : Hig SaO ₂ : Hig Hemodynamic Vasoactive Blood Press Invasive Li Site Date Dressing Blood produ GI/Nutritional/ Blood glucce | h Lo Status (prior 2 infusions? Yes sure (MAP range nes: UAC UVC Lots given in pas GU Status: se range for las | W 4 hrs): / No): High : Broviac t 24 hrs: : 24 hrs: High | | Other: | ROP Screening guidelines initiated Cont. Current Management Wean blood pressure medicine to keep at Cont. Current Management Initiate NICU Nutritional | |
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NICU Daily Goals and Plan of Care Form

Goal: To optimize respiratory parameters to decrease retinopathy, broncopulmonary dysplasia; and to optimize nutritional growth



NICU DAILY GOALS AND PLAN OF CARE

| SYSTEM STATUS CONT. Date/Time: | DAILY GOALS & PLAN Date/Time: | | | |
|---|----------------------------------|-------------------------------------|-------------------|--|
| Infectious Disease/Medication | Cont. Current Management | | | |
| Antibiotic/Antifungel | Medication levels checked | | | |
| Antibiotic/Antifungal | Day # | Site/organism | IV changed to PO: | |
| | | | | |
| | | | | |
| Medication Issues: | | | | |
| Comfort | Cont. Current Management | | | |
| Pain score range: | □ Initiate NICU pain protocol | | | |
| Patient pain goals met? | | | | |
| Number of PRNs over the Psychosocial Status/Issues | Cont. Current Management | | | |
| Date of social work screet | | | | |
| Primary language: CPS referral: Yes/No I | SW consulted | | | |
| CPS referral: Yes/No I Mother/Father attended I | Schedule Family meeting | | | |
| Mother/Father attended i Mother/Father updated o | Refer to Parent Support | | | |
| | Group | | | |
| Barriers to parent learning: | | | | |
| Parental concerns: | | | | |
| Discharge Plan: | □ Refer Parent to Classes: | | | |
| Parent Teaching sheet review | | | | |
| | Discharge | | | |
| Sustam Status | | Daily Cools and Di | Infant message | |
| System Status: RN Signature: | ID#: | Daily Goals and Pl RN Signature: | ID# | |
| KN Signature. | 10#. | Kiv Signature. | 10# | |
| Interdisciplinary Team Mer | | | | |
| RN | | MD RT | | |
| NP Pharmacist | | | | |
| Psych Liaison | | | | |
| РТ/ОТ | | | | |
| | | Pain, Agitation and Sedation | n Score | |
| Scale Deminitoris. NFA | ioo. Neonalai | r am, Agitation and Sedation | 1 00016 | |
| | | | | |

NICU Daily Goals and Plan of Care Form

Goal: To optimize respiratory parameters to decrease retinopathy, broncopulmonary dysplasia; and to optimize nutritional growth

SIDE 2 OF 2

(4/15/06)

Institute Multi-Disciplinary Rounds

- Include physicians in multi-disciplinary rounds
- Include family in rounds as appropriate
- Include representatives from palliative care, pharmacy, respiratory, nutrition, case management, social work, chaplaincy and other key care team members as needed
- Use rounding sheet and prep sheets for clinical services
- Reflect on patients' progress of attainment of daily goals

Modified from 2004 Institute for Healthcare Improvement

Multi-disciplinary Rounding

- Multi-disciplinary rounds occurring in critical care units:
 - MICU
 - PICU
 - SICU
 - NICU
 - Neurosurgery
 - Orthopedics
- Plan for spread of multi-disciplinary rounding to non-critical care units

Multi-disciplinary Rounding

- Multi-disciplinary team meets to identify patients' goals for the day
- Disciplines involved in the rounds:
 - Bedside RN
 - Attending
 - Respiratory Care
 - Pharmacist
 - Nutritionist
 - Social Worker
 - Care Coordinator
 - Chaplain

Lessons Learned

- Timely, credible data acquisition is required to provide continual feedback to teams
- Make bundle elements the "default" in the process
- Cultivate champions on the unit to keep the "ball rolling"
- Change is hard, but small tests of change are the key to success
- "Perfect" is the enemy of "good", but good is better than nothing

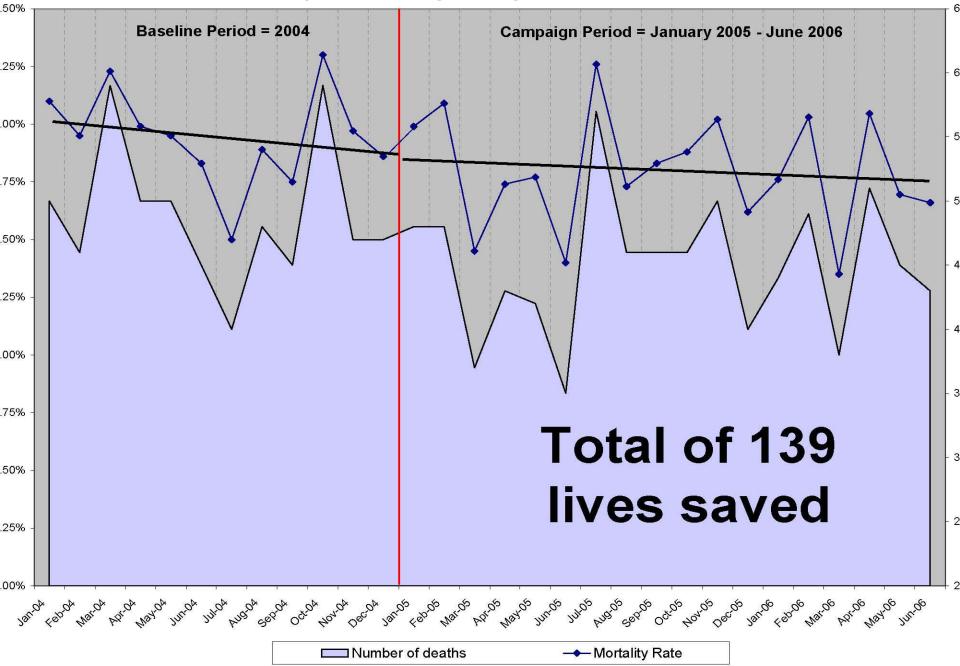
Lessons Learned

- Institutional goals for change can be translated into bedside behavior change
- Quality goals must be actionable
- Measurement of actions must be fed back in close to "real" time
- Physicians can be driven by data

Achievements

- Code H Team
 - 2005 HANYS Pinnacle Award, Honorable Mention, for Improving ED Door-To-Balloon Times
 - Institute for Healthcare Improvement Poster Presentation at "Redesigning Healthcare" conference in San Diego, June 2005
 - Published article in July/August 2005 issue of Patient Safety & Quality Healthcare "Faster Time to PTCA: Improving Safety, Communication, and Satisfaction".
 - Poster submitted to GNYHA for IHI Best Practices
- Institute for Healthcare Improvement's Reducing Complications in Ventilator-Associated Pneumonia and Central Line Infections
 - Poster presentations at the University Healthsystem Consortium's 2005 Fall Form Institute for Healthcare Improvement's Annual Conference in December 2005
 - Submitted poster to GNYHA for IHI Best Practices; awaiting approval
- Conducting study to determine CQI team effectiveness; Collaborative effort with Harvard and Stony Brook University
- SBUH ranked in the 96th percentile nationally for core measure indicator performance (outperforming other well-known institutions such as New York Presbyterian and UCLA).

Inpatient Mortality January 2004 - June 2006



Data Source = University HealthSystem Consortium (UHC) Clinical Database

Prepared by the CQI Department 7/06

Conclusion

- Baldrige framework is applicable to quality and safety
- Strategic plan translates into institutional goals
- Institutional goals translate into quality structure, process and function
- Quality structure is built on:
 - Quality Committee of the Governing Body
 - Quality Coordinating Group
 - Clinical Service Groups
 - CQI teams
 - Decision Support Services

Conclusion

- Quality outcomes are derived from measurement and expression of measurement
- Local ownership of data and outcomes drives the value of feedback
- Quality outcomes translate into behavior change
 - Consensus building
 - Team meetings
 - Daily goal sheets
 - Consistent feedback
- Consistent behavior changes results in culture change