

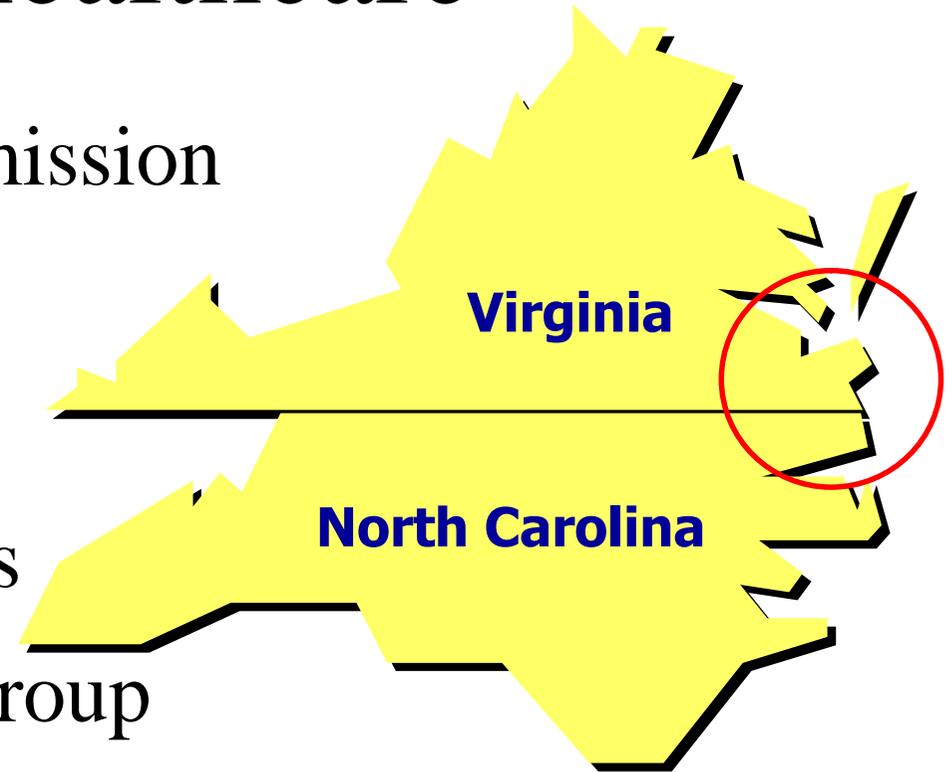
Sentara Healthcare: A Case Study

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Sentara Healthcare

- 117-year not-for-profit mission
- 6 hospitals
- 7 nursing homes
- 3 assisted living facilities
- 225-physician medical group
- 319,000-member health plan
- Over 2500 community physicians



Overview

- Sentara's strategy
- A model for improving results
- Examples of initiatives that improve quality, efficiency, and/or access
 - Introducing new technology (eICU)
 - Creating reliable processes (VAP reduction)
 - Creating a culture of safety
 - Improving care for the chronically ill
 - Improving information availability (eCare)

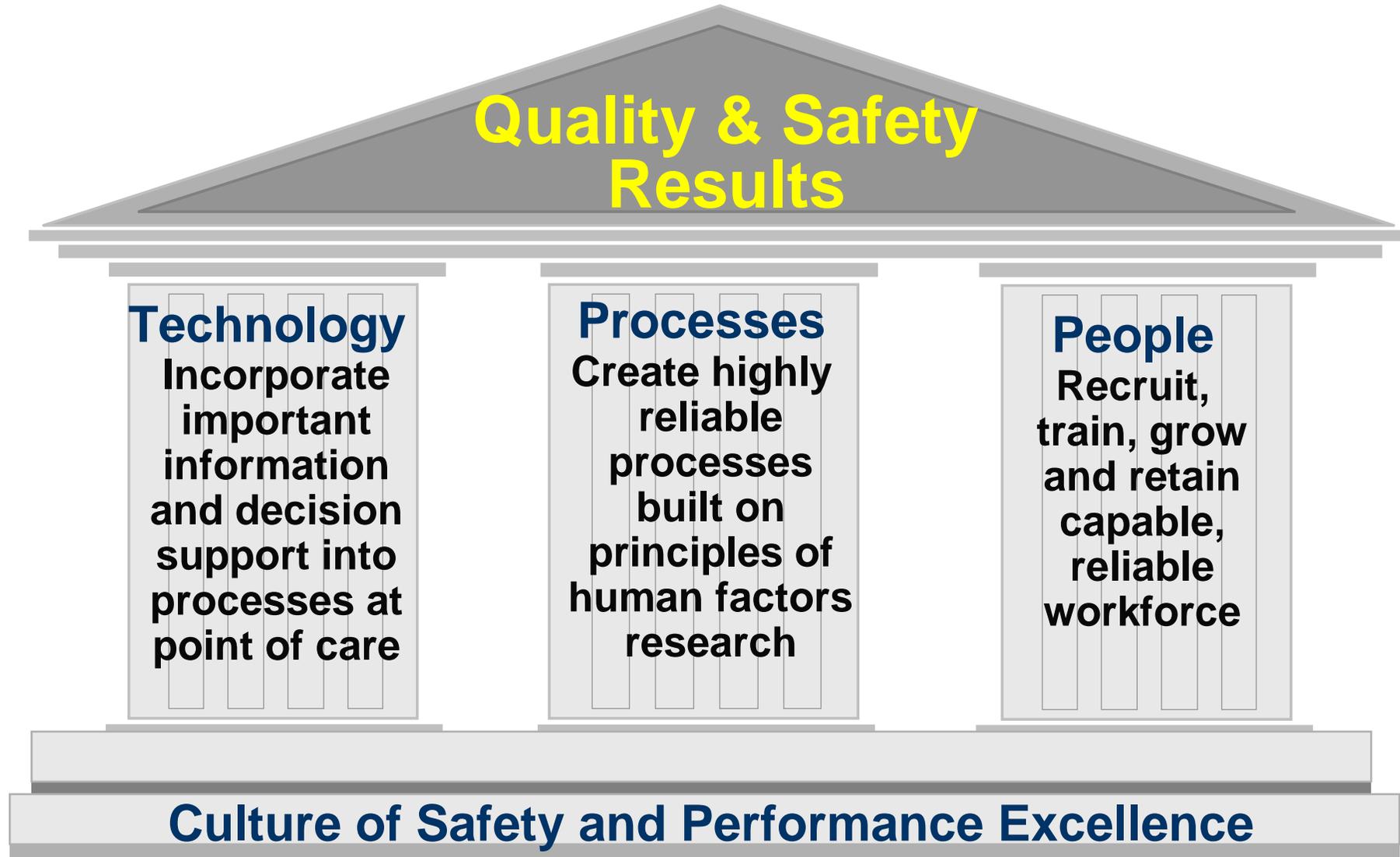


Overall Strategy

- Focus on quality and patient safety as strategic aims
 - Use quality as differentiation
 - View quality as key to long-term success
 - Align the organization
- Embrace the IOM's six dimensions for improvement



Framework for Improvement

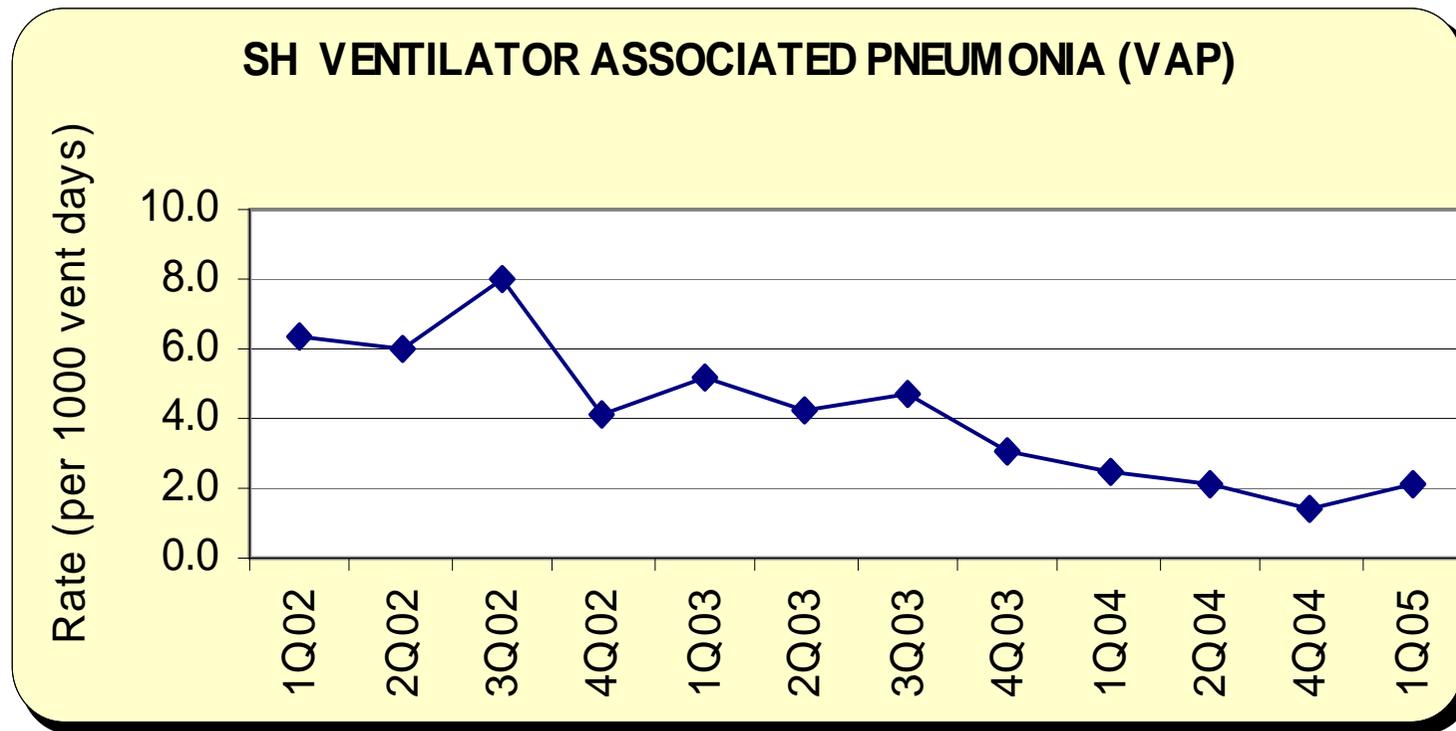


New Technology: e-ICU

- First in nation
- Remote monitoring by Intensivists
- 95 ICU patients, 5 different hospitals
- Teleconferencing, data feeds, EMR, and “Smart Alerts”
- Sustained 20% decrease in mortality
- 155% ROI: Cap Gemini study
(Crit Care Med 2004; 32:31-38)
- No third-party reimbursement



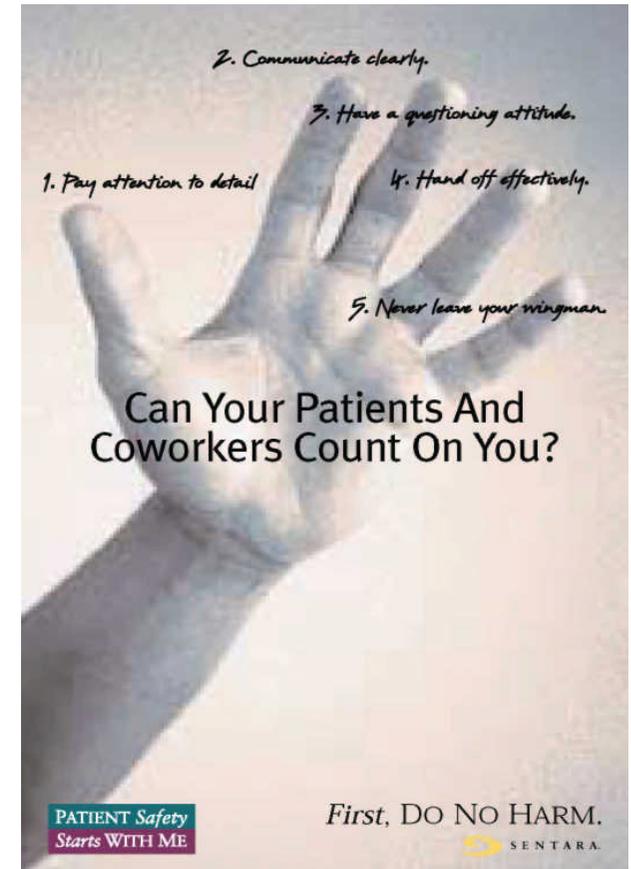
Improving Reliability: VAP Reduction



- 13 ICUs with 161 beds across 6 hospitals
- 63.7% Reduction in VAP rate (CY 02- CY 04)
- 80 Fewer VAPs CY 02 vs. CY 04
- 3 ICUs: > 17 consecutive months w/o a VAP & counting
- \$650K bottom line impact & helps relieve delays in ED

Creating a Culture of Safety

- Adapting successful strategies from nuclear power to healthcare
- Key components
 - implement behaviors for error prevention (create safe habits)
 - Focus and simplify
 - More effective event investigation
- 47.4% reduction in serious events over 2 years



Improving Chronic Care

- Disease Management
 - Asthma: 35% total cost reduction
 - Diabetes: 21% improvement in HgbA1C<7
 - Sickle Cell: 65% decrease in ED visits
- Palliative care
 - Consult service in all 6 hospitals
 - Reduction of \$2,713 in direct costs & 2.5 days ALOS/case
 - Improved patient/family satisfaction



Improving Information Availability

- “eCare” Initiative
- Offering:
 - office-based EMR to all community physicians
 - personal health record for patients/consumers
 - hospital EMR linked to physicians offices
 - order-entry with decision support for physicians
- Enabling true “patient-centered” care

