





## **Catheter-Associated Urinary Tract Infections**

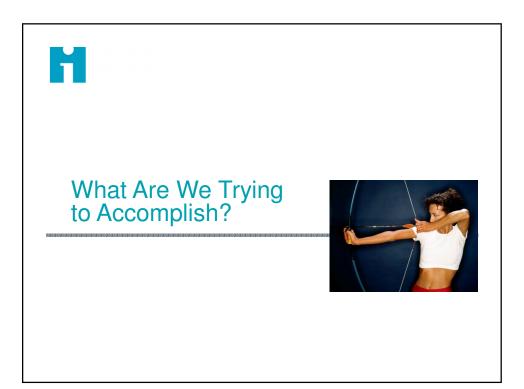
A medium sized acute care hospital has noticed that there has been an increasing occurrence of catheter associated urinary tract infections (CAUTIs) over the past year. Not only has the occurrence of CAUTIs been gradually going up but also the severity of the infections has been increasing.

Indwelling urinary catheters are commonly used medical devices within acute and non-acute settings. But their use does increase the risk of CAUTIs by:

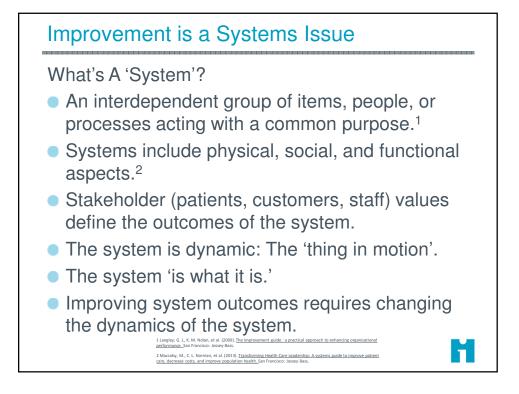
- Enabling organisms to gain entry to the bladder via external surface or opened connections
- · Reducing the body's defense of flushing out organisms during urination
- · Facilitating biofilm formation

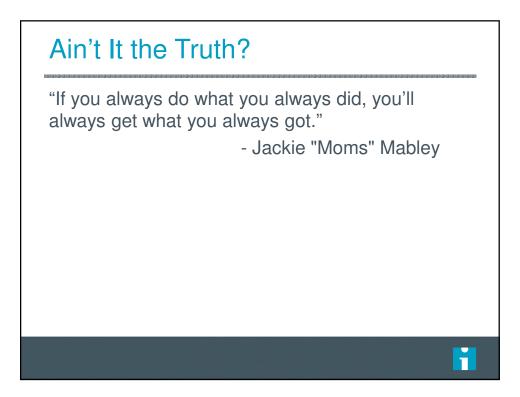
Reducing CAUTIs would contribute to:

- Improving the patient experience
- Reducing the cost of antibiotic prescribing
- Reducing inpatient length of stay
- · Reducing readmissions
- Improving patient outcomes



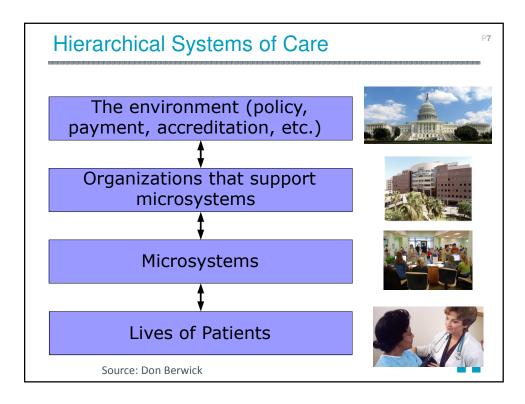


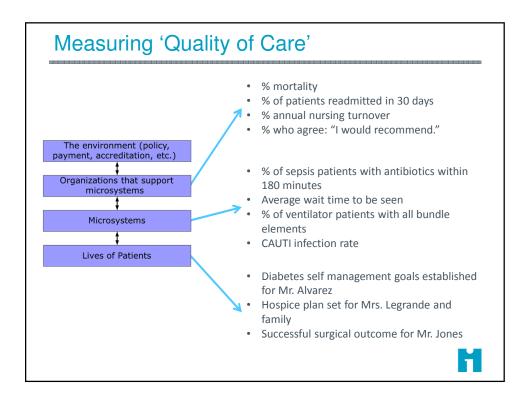






## Advanced Measurement for Improvement Cambridge, MA • March 26-27, 2015









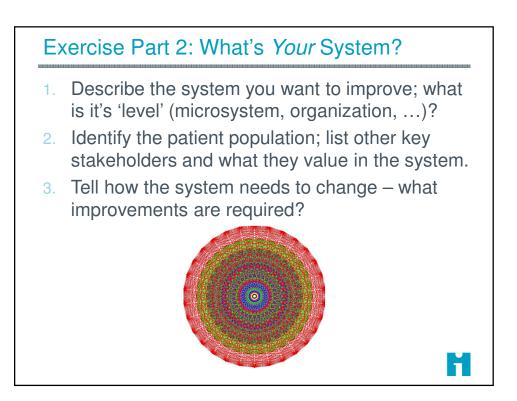
How would your patients describe the purpose of your system of care?

What do your patients value in your system of care?

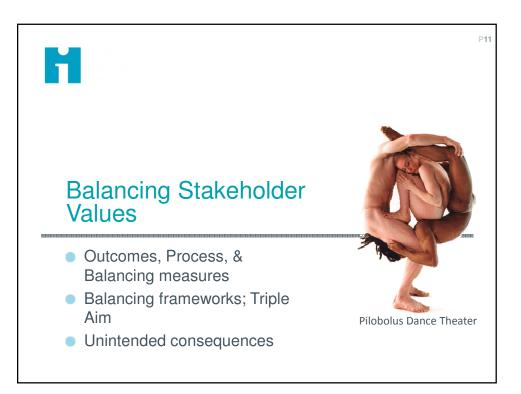
"I want your pharmacy to provide me with the right medications at the right time, in the correct dosages, to help me heal."

"While I am in your care, I want you to provide me with compassionate, respectful care. I want to be free from pain and have a dignified death."

i

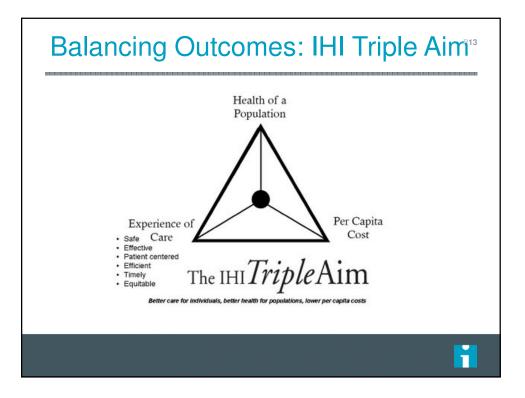




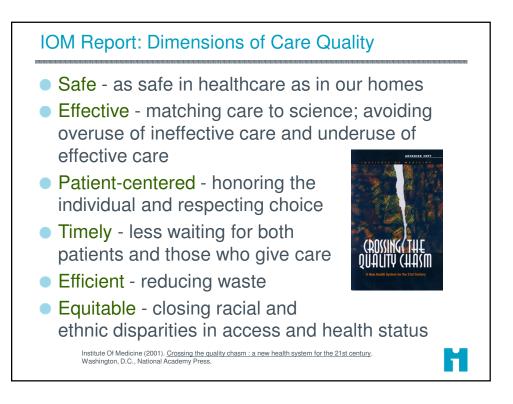


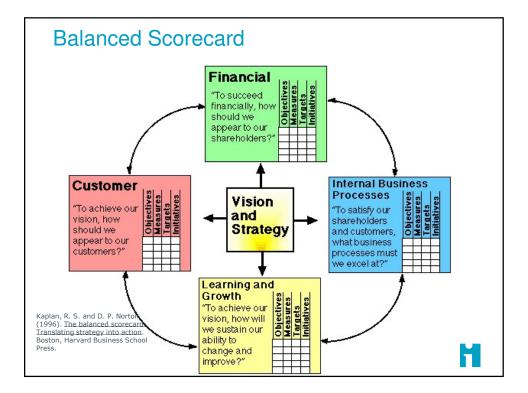
## <section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

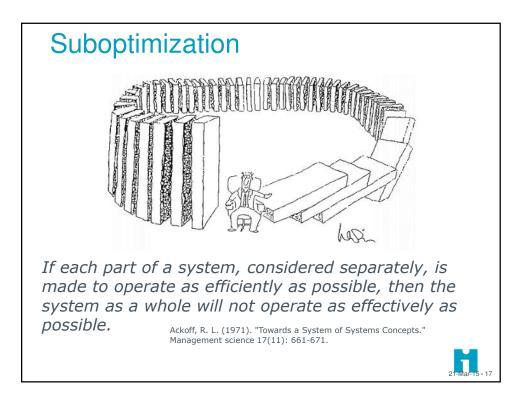


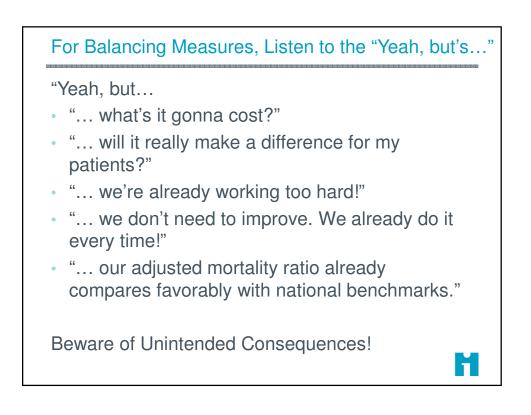


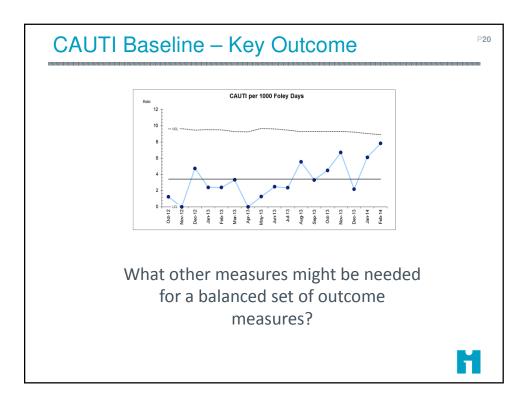
Dimension	Measure			
Population Health	1. Health/Functional Status: single-question (e.g. from CDC HRQOL-4) or multi- domain (e.g. SF-12, EuroQol)			
	2. Risk Status: composite health risk appraisal (HRA) score			
	3. Disease Burden: Incidence (yearly rate of onset, avg. age of onset) and/or prevalence of major chronic conditions; summary of predictive model scores			
	4. Mortality: life expectancy; years of potential life lost; standardized mortality rates. <u>Note</u> : Healthy Life Expectancy (HLE) combines life expectancy and health status into a single measure, reflecting remaining years of life in good health. See <u>http://reves.site.ined.fr/en/DFLE/definition/</u>			
Patient Experience	<ol> <li>Standard questions from patient surveys, for example:         <ul> <li>Global questions from US CAHPS or How's Your Health surveys</li> <li>Experience questions from NHS World Class Commissioning or CareQuality Commission</li> <li>Likelihood to recommend</li> </ul> </li> </ol>			
	2. Set of measures based on key dimensions (e.g., US IOM Quality Chasm aims: Safe, Effective, Timely, Efficient, Equitable and Patient-centered)			
Per Capita Cost	1. Total cost per member of the population per month			
	2. Hospital and ED utilization rate			

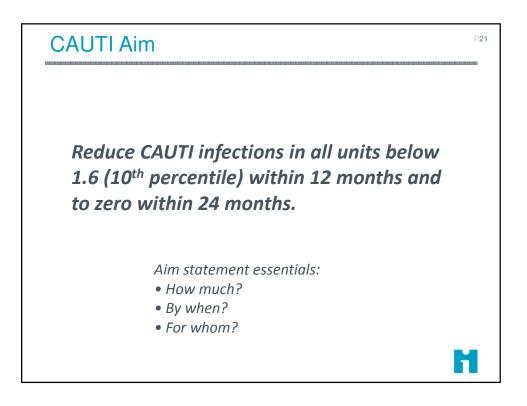




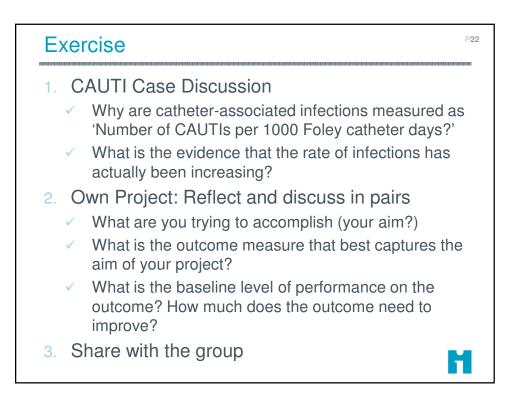


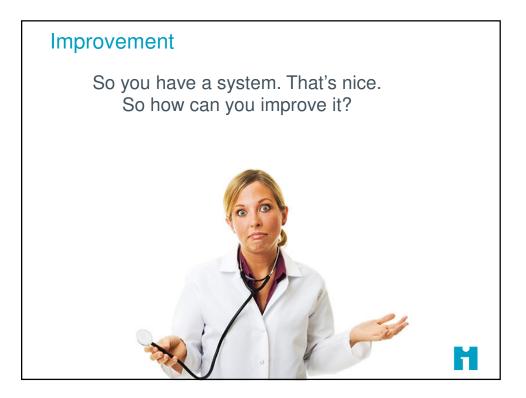


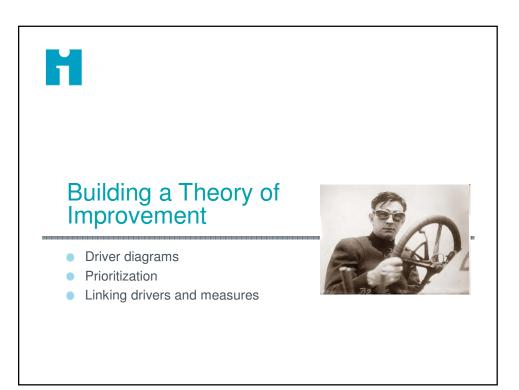


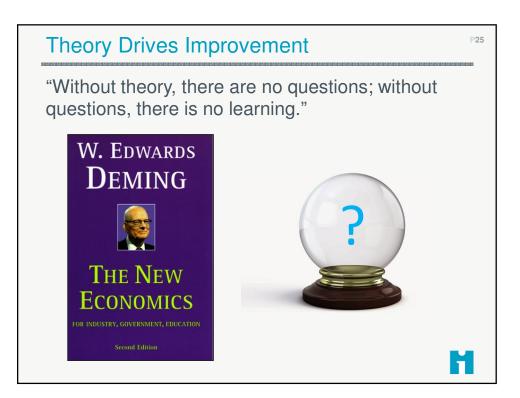


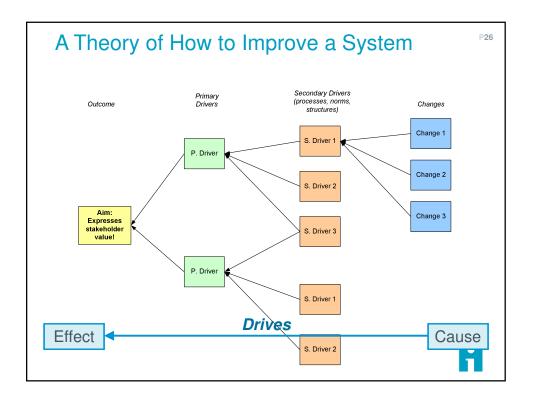


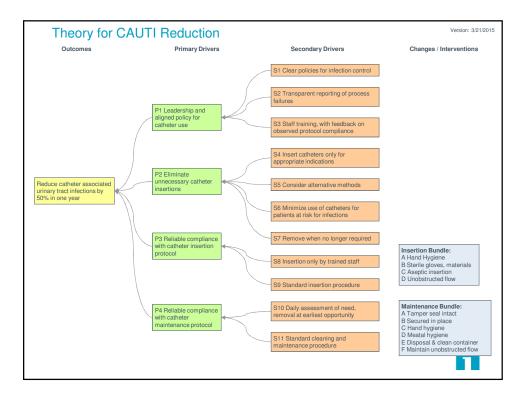




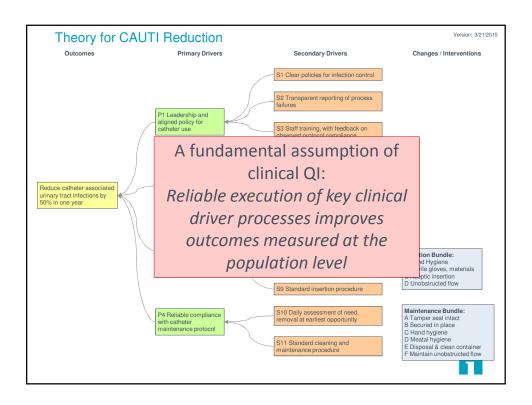


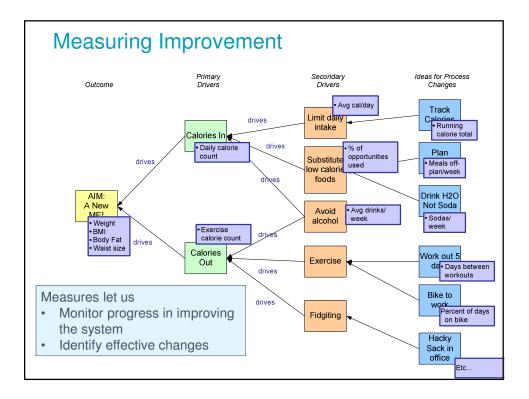


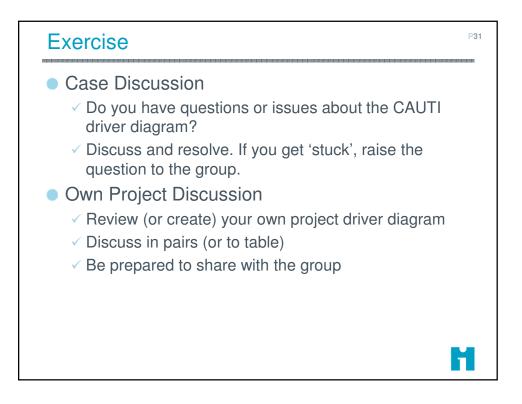


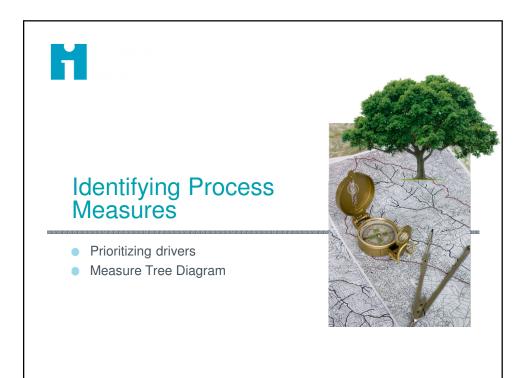


## Advanced Measurement for Improvement Cambridge, MA • March 26-27, 2015

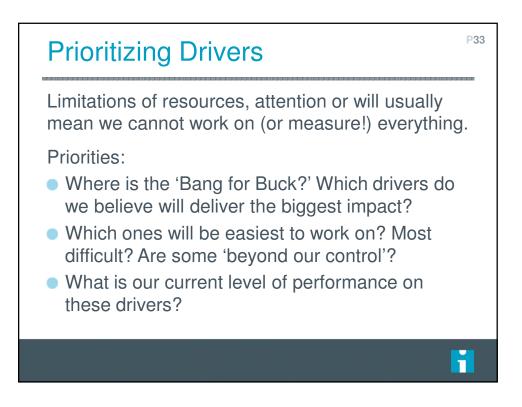


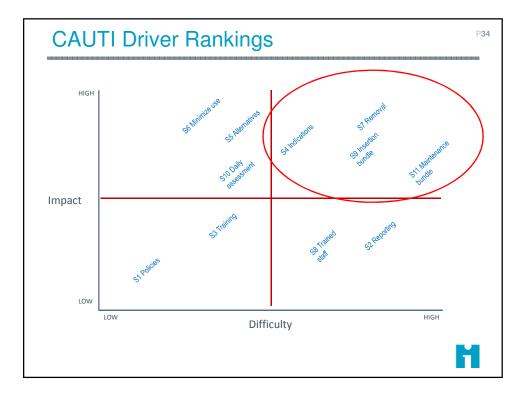


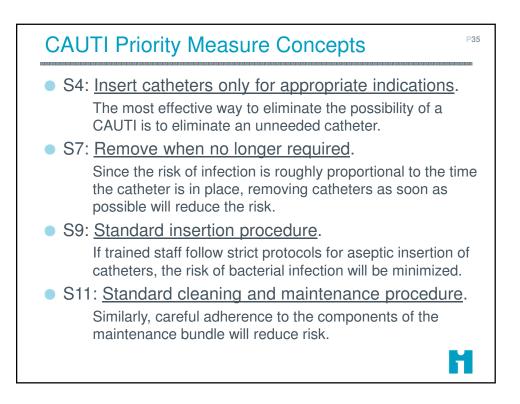


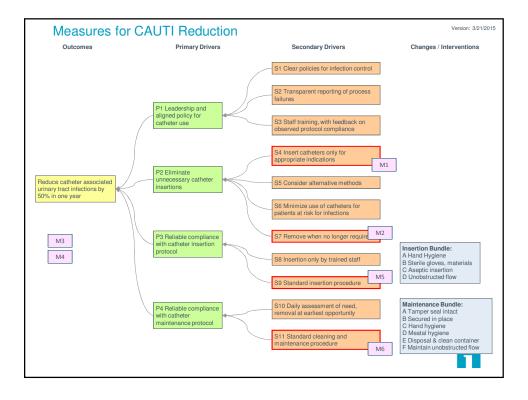












Measure	Туре	Driver S4 Insert catheters only for appropriate indications	Desired Direction of Change
M1 Percent of patients with appropriate catheter placements	Process		
M2 Average catheter duration	Process	S7 Remove when no longer required	Decrease
M4 CAUTIs per 1000 patient days	Outcome	N/A	Decrease
M3 Count of CAUTIs	Outcome	N/A	Decrease
M4 (alternate) Catheter days between CAUTI events	Outcome	N/A	Increase
M5 Percent of catheter insertions with all insertion bundle elements in compliance	Process	S9 Standard insertion procedure	Increase
M6 Percent of catheter placements with all maintenance bundle elements in compliance	Process	S11Standard cleaning and maintenance procedure	Increase

