

For Immediate Release

October 18, 2012

Jefferson City, MO

Reaping Rewards: Missouri's Participation in National Infection Prevention Projects Pays Off for Patients

Missouri continues to be a leader in the prevention of healthcare acquired infections (HAIs) that affect patients receiving treatment for other conditions in a healthcare setting. HAIs are a common complication of hospital care, affecting one in 20 patients in hospitals at any point in time.

HAIs are estimated to cause more than 99,000 deaths and add up to \$40 billion in excess costs each year. Two types of HAIs have been a focus for Missouri's infection prevention efforts since 2009: Central line-associated bloodstream infections (BSIs) and Catheter-associated urinary tract infections (CAUTIs).

Missouri's efforts, led by the Center for Patient Safety in collaboration with the Missouri Hospital Association, involved 20 hospitals (26 units) in the prevention of BSIs and 19 hospitals (30 units) in the prevention of CAUTIs.

On the CUSP: Stop HAI

The *On the CUSP: Stop BSI* project in Missouri has led to a 69 percent reduction in BSIs, exceeding the national reduction of 45 percent. Using the Johns Hopkins CLABSI Opportunity Estimator, Missouri efforts are estimated to have saved seven lives, prevented more than 60 BSIs, eliminated 500 hospital days and saved \$4 million in healthcare costs.

Initial efforts focused on BSI prevention at 15 hospitals in the metropolitan Kansas City area with grant funding from the Blue Cross and Blue Shield of Kansas City, an effort that spread to an additional seven hospitals statewide in 2011 as part of the national [On the CUSP: Stop BSI](#) initiative. At that time, Missouri joined 43 other states and more than 1,000 hospitals in preventing BSIs with funding from the American Hospital Association's Healthcare Research and Education Trust (HRET).

- A BSI is an infection that can occur as a result of tubes placed into a patient's large vein with a needle to administer intravenous medications. An estimated 250,000 BSIs occur in hospitals each year, resulting in 62,000 deaths at an estimated cost of \$36,666 to \$97,234 for each infection. This harm and cost can be eliminated with a culture of teamwork, good communication and proven clinical interventions.

Missouri's *On the CUSP: Stop CAUTI* project, aimed to reach the [national project](#) goal of reducing CAUTIs by 25 percent during the project. Again, Missouri's hospitals exceeded the national goal by reducing CAUTIs by 30 percent throughout the project period.

- CAUTIs are the most common HAI, accounting for about 40% of all HAIs. As many as a quarter of hospital inpatients have urinary catheters in place during a hospital stay, some unnecessarily, potentially leading to complications. These can include a longer hospital stay, patient discomfort, excess healthcare costs, and sometimes death. About 13,000 deaths are associated with CAUTIs each year. Most cases of CAUTI are preventable.

What is CUSP?

In conjunction with the clinical interventions to prevent BSIs and CAUTIs, participating hospitals improved their unit-based teamwork and communication skills by participating in the [Comprehensive Unit-based Safety Program \(CUSP\)](#), a program developed by Johns Hopkins University to proactively identify and eliminate potential harm at the patient's bedside. The Center's CUSP education and training has now reached nearly 100 providers to improve their safety culture, a necessity for successful safety improvement, and an achievement recently [recognized](#) by the Johns Hopkins Armstrong Institute for Patient Safety and Quality.

Congratulations

Congratulations to the following hospitals that actively participated in the *On the CUSP: Stop HAI* initiatives, contributing toward the elimination of BSIs and CLABSIs:

On the CUSP: Stop BSI Participants

- Cass Regional Medical Center
- Citizens Memorial Hospital
- Cox Medical Center
- Cushing Memorial Hospital
- Heartland Health
- Hedrick Medical Center
- Jefferson Regional Medical Center
- John Fitzgibbon Memorial Hospital
- Mercy – Washington
- Ozarks Medical Center
- Saint Joseph Medical Center
- Saint Mary's Medical Center
- St. Louis University Hospital
- Saint Luke's Hospital – East Lees Summit
- Saint Luke's Hospital of Kansas City
- Saint Luke's – Northland Hospital
- Saint Luke's – South
- Truman Medical Center – Hospital Hill
- Truman Medical Center – Lakewood

- The University of Kansas Hospital

The following hospitals were recently recognized for their full participation in the *On the CUSP: Stop CAUTI* project, in addition to maintaining a zero CAUTI rate or achieving at least a 25 percent reduction in CAUTI rates throughout the initiative:

- Bothwell Regional Medical Center
- Callaway Community Hospital
- Citizens Memorial Hospital
- Cooper County Memorial Hospital
- Cox Medical Center
- Cushing Memorial Hospital
- Jefferson Regional Medical Center
- Liberty Hospital
- Mercy - Washington
- Missouri Southern Healthcare
- Ozarks Medical Center
- Saint Joseph Medical Center
- Saint Luke's Hospital of Kansas City
- Truman Medical Center – Hospital Hill
- The University of Kansas Hospital

HAI prevention efforts continue

The Missouri Hospital Engagement Network (HEN), a component of the CMS Partnership for Patients initiative, is continuing HAI prevention efforts in Missouri. Through the HEN, an additional 11 Missouri hospitals are joining the effort to prevent BSI and an additional 30 hospitals are striving to reduce CAUTIs.

The Missouri HEN is led by the Missouri Hospital Association in collaboration with the Center for Patient Safety and is engaging 96 Missouri hospitals in the reduction of patient harm and hospital readmissions with funding from the HRET.

More About MOCPS – The Missouri Center for Patient Safety is an independent not for profit corporation founded by the Missouri Hospital Association, Missouri State Medical Association and Primaris as a private to serve as a leader to fulfill its vision of a health care environment safe for all patients and healthcare providers, in all processes, all the time.

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