

The logo for HIMSS (Healthcare Information Management Systems Society) is displayed in white on a blue background. It consists of the letters 'HIMSS' in a bold, sans-serif font, with a small dot above the 'i'.

Central & Southern Ohio *Chapter*

A horizontal banner image with a blue background. It features a cyclist in a blue and yellow jersey on the left, a bridge at night in the center, and a classical building with a dome on the right. The text 'transforming healthcare through IT™' is written in white at the bottom right of the banner.

transforming healthcare through IT™

Bar Coded Medication Administration

*Jeff Schou, Sr. Director
Global Healthcare Solutions
Symbol Technologies*

Report Finds a Heavy Toll From Medication Errors

By GARDINER HARRIS
Published: July 21, 2006

WASHINGTON, July 20 — Medication errors harm 1.5 million people and kill several thousand each year in the United States, costing the nation at least \$3.5 billion annually, the [Institute of Medicine](#) concluded in a report released on Thursday.



Wisconsin State Journal



WWW.MADISON.COM/WSJ

SATURDAY, JULY 22, 2006

MADISON, WISCONSIN

State: Nurse error caused death

St. Mary's Hospital could lose contract with Medicare

By **DAVID WAHLBERG**
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Problems at St. Mary's Hospital that led to a 16-year-old girl's death from a medication mix-up during childbirth are so serious they pose "an immediate threat" to patient safety, says a federal warning letter re-

leased Friday.

Jasmine Gant died after a nurse mistakenly gave her an epidural anesthetic intravenously, according to a state inspection report also released Friday.

If the hospital doesn't quickly correct the problems related to the Fitchburg teen's July 5 death, it will lose its contract

with Medicare, the letter states.

Also, the state could ban the hospital from receiving new patients or revoke its license, officials said.

St. Mary's has started taking corrective action to avoid such penalties, hospital officials said.

Medicare, the government health plan for seniors and the disabled, generally accounts for

a third of hospital revenues. A Medicare contract is considered vital to a hospital's livelihood.

"We have determined that the deficiencies are so serious they constitute an immediate threat to patient health and safety," says the letter from

Please see **DEATH**, Page A5

AT A GLANCE

WHAT HAPPENED: Sixteen-year-old Jasmine Gant of Fitchburg died July 5 during childbirth at St. Mary's Hospital.

WHAT'S NEW: A state inspection report released Friday revealed that a nurse mistakenly gave Gant an epidural intravenously instead of penicillin.

WHAT'S NEXT: If St. Mary's doesn't promptly correct problems, the federal government will terminate the hospital's Medicare contract, and the state could revoke its license or ban hospital admissions. Hospital officials say they are complying.

Infant deaths put focus on nurses

Experts: Despite safeguards, complacency is a danger

By Tammy Webber and Staci Hupp

tammy.webber@indystar.com

The deaths of three newborns from drug overdoses at Methodist Hospital highlight nurses' critical role as the last line of defense in treating patients, despite advances in technology designed to prevent medication errors.



1993 - Veterans Administration Rolls Out BCMA



“A study of the Colmery-O'Neil Veterans' Administration Medical Center revealed that implementation at its Topeka, Kansas facility resulted in a 64 percent reduction in the medication error rate between 1993 and 1999.” “By 2001, errors were down by 86 percent from the base year of 1993.”



**Colmery-O'Neil
VA Medical Center**





U.S. Food and Drug Administration



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FDA Issues Bar Code Regulation

February 25, 2004

Today's Action

In an effort to improve patient safety in the hospital setting by reducing medication errors, the Food and Drug Administration (FDA) has published a final rule titled, **Bar Code Label Requirements for Human Drug Products and Biological Products**.

The Final Rule

FDA is issuing a final rule that requires "bar codes" on most prescription drugs and on certain over-the-counter drugs. Bar codes are symbols consisting of horizontal lines and spaces and are commonly seen on most consumer goods. In retail settings, bar codes identify the specific product and allow software to link the product to price and other sales- and inventory-related information. FDA's bar code rule uses bar codes to address an important public health concern -- medication errors associated with drug products.

How Would It Work

The final rule requires linear bar codes on most prescription drugs and on over-the-counter drugs commonly used in hospitals and dispensed pursuant to an order. The bar code must, at a minimum, contain the drug's National Drug Code (NDC) number, which uniquely identifies the drug.

For blood and blood components intended for transfusion, the final rule requires the use of machine-readable information in a format approved for use by FDA. The machine-readable information must include, at a minimum, the facility identifier, the lot number relating to the donor, the product code, and the donor's ABO and Rh.

Code 39



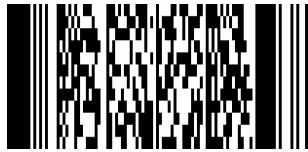
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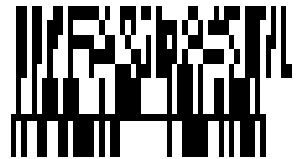
RSS-14



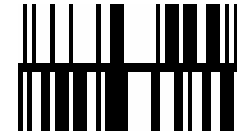
PDF417



RSS Composite



RSS-14 Stacked



Snowflake



Data Matrix



Aztec



Bar-Coding and Medication Administration

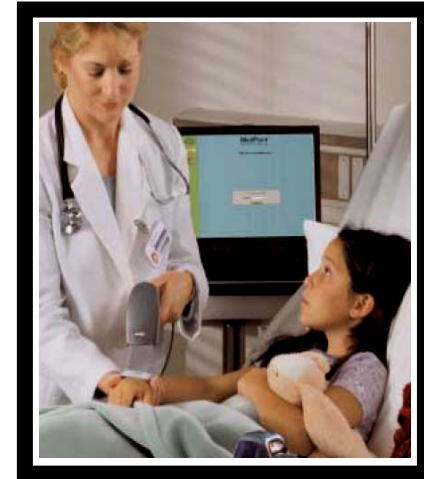


“The **5 RIGHTS**”

Identify the **RIGHT** Patient
Confirm the **RIGHT** Medication
Confirm the **RIGHT** Dosage
Confirm the **RIGHT** Route
And the **RIGHT** Time

Benefits:

- Reduced errors
- Reduced costs associated with errors
- More rapid and accurate documentation



Medication Examples



Implementation Modes



Implementation Modes



Implementation Issues



- Wireless LAN
- 1D or 2D?
- Nursing Acceptance
- Packaging of Bulk Purchased Medications
- RFID for Medication Administration? *Fuhgeddaboutit!*

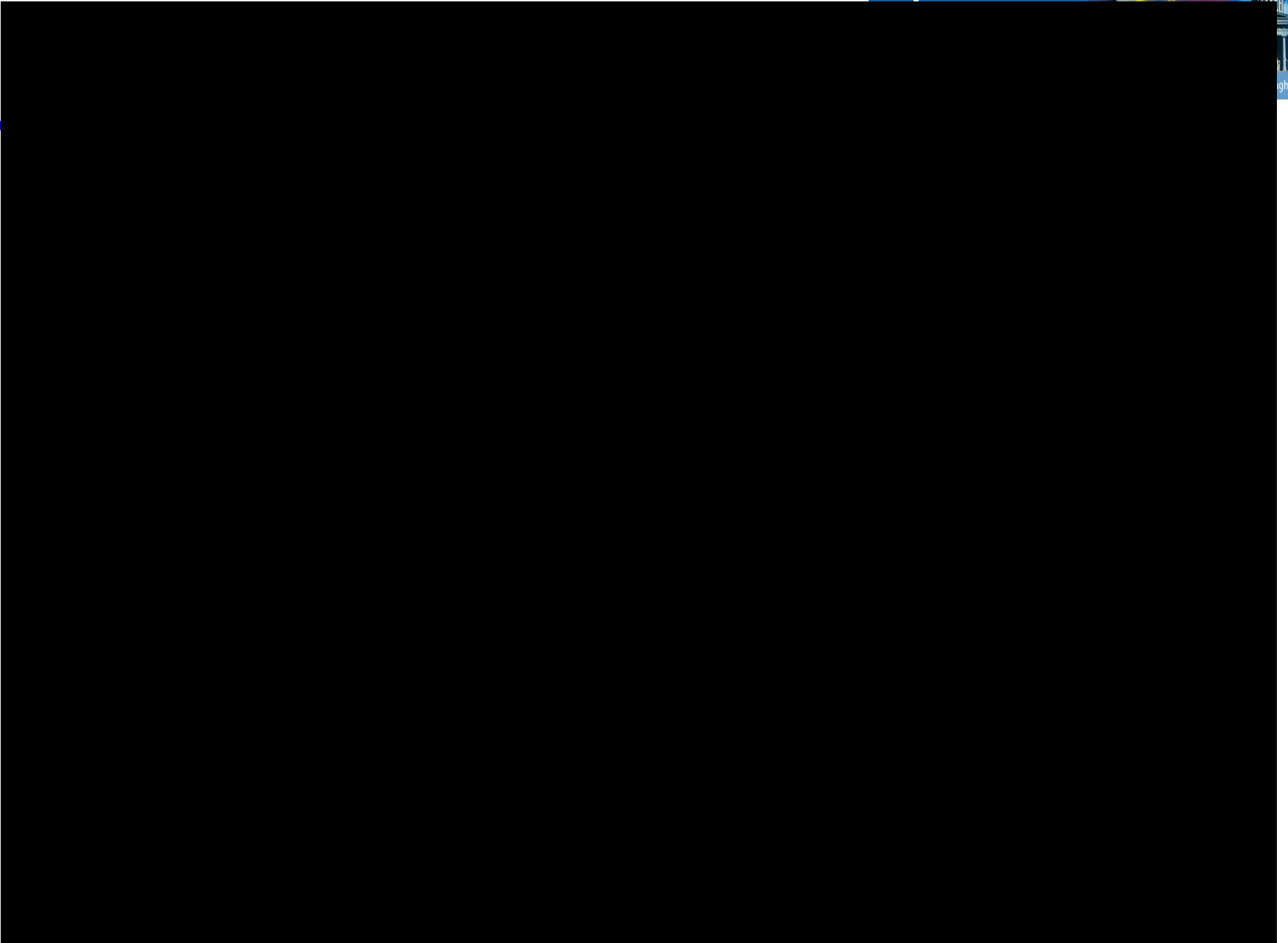


Some Clinical I.T. Vendors with Medication Administration Systems



GE Medical Systems





22 Mobile Hospital Applications



Positive Patient ID

Medication Administration

Laboratory Specimen Collection

Review of lab results

Near/Bedside Patient Testing

Infusion/Syringe Pump Programming

Pharmacy orders by doctors

Review of pharmaceutical profiles

Taking vital signs

Breast Milk Tracking

Nursing Orders



Nurse Call

Wireless VoIP Communications

Charge capture by doctors and nurses

Transfusion Verification

Dietary

Supply Management

Medical Record Tracking

X-ray tracking

Asset Tracking

Patient Tracking

BioMedical Engineering



HIMSS

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The Enterprise Mobility Company™

Questions?



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