



Pyxis[®] Medication Communication System

Technology. Intelligence. Support.



The Pyxis® Medication Communication System from CareFusion simplifies the complex care environment, better enabling clinicians to deliver **the right care** to their patients.



The Pyxis® Medication Communication System combines proven technology with actionable intelligence to measurably improve the quality of care.

Proven technology

- Automated dispensing
- Controlled substance management
- Packaging and unit-dose barcode labeling
- Medication order management
- Automated replenishment
- Medication administration verification
- Transfusion, specimen collection and infant care verification
- Centralized systems management

Actionable intelligence

- Integrated Analytics Solutions to help monitor key performance indicators
- Real-time evidence based rules to help identify potential patient harm
- Active alerts to help prevent medication errors
- Clinical experts to help hospitals improve performance and meet patient safety goals
- Best practice guidelines and support from industry leaders

Safer patients



Increased efficiency



Regulatory compliance



Improved cost savings



Safer patients:

Reduce medication errors by 82%¹

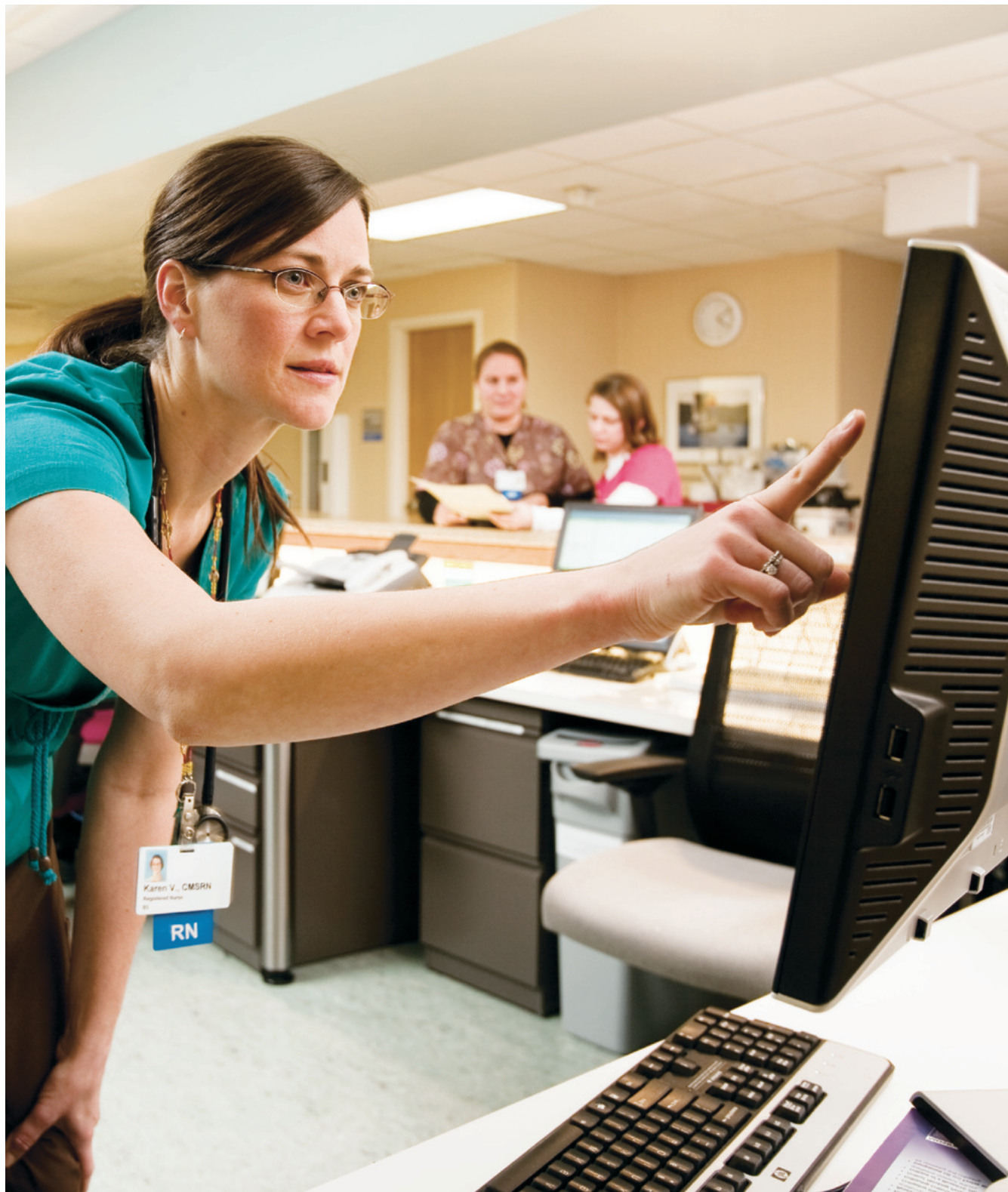
In the complex hospital environment, errors are not a rare occurrence:

- One in five medication doses results in error²
- Serious adverse drug events reported to the FDA increased by 25% in recent years³
- Blood is transfused to the wrong patient at a rate of one in 400 units⁴

Errors occur daily across multiple care areas, oftentimes with tragic results. The Pyxis® Medication Communication System can help protect your patients throughout the continuum of care.

Adverse events. Identified.

Your care team can more easily identify patients who may be at risk for an adverse event using Patient Event Advisor, an automated clinical surveillance service that monitors your patient's therapy against lab results and sends alerts to multiple technology access points.





Right
pick



Right
deliver



Right
remove



Right
patient



Right
administer

Safety. At every step.

Pyxis® technologies provide safeguards at every hand off to help verify:

1. Right meds are picked and that 100% of meds leaving the pharmacy are checked
2. Right meds are delivered to the patient care area and loaded in the right Pyxis CUBIE® pocket
3. Right meds are removed from the Pyxis® MedStation® system
4. Right patients are matched to meds, specimens, transfusions and breast milk
5. Right meds are administered to the patient

Increased efficiency:

Decrease pharmacists order processing time by 35%⁵

The complex hospital environment itself can be a barrier to improving quality. Communication breakdowns and system failures can lead to medication errors.

- Complex processes can lead to workarounds, compromising patient care
- Most healthcare workers have seen colleagues take “shortcuts” that could ultimately harm patients⁶
- Nurses and pharmacists spend much of their time searching for information; only 15% of nursing time⁶ and 16% of pharmacy time⁷ is spent on direct patient care and consultation

Automating the medication management process from order submission to patient administration helps reduce complexity, so your staff can focus on delivering patient-centric care.



Medication. Delivered without delay.

With the Pyxis® MedStation® system, you can manage over 95% of your medications, reducing time to first dose. And by integrating with the Pyxis® Connect system, you can reduce your order turnaround time from hours to minutes.

Less calls to Pharmacy. More time for patient care.

Pyxis® automation technology takes the hassle out of workflow processes, giving pharmacists more time for direct patient care. Medication order processing times can be dramatically reduced, along with time spent on documentation.

Nursing information. When and where it's needed.

With Pyxis® technologies, information flows smoothly, simplifying communication and helping improve collaboration across the patient care team. Nurses can easily access information they need for safe medication administration at various touch points and multiple lines of communication to the pharmacy make getting answers easier.

Optimization. Made easy.

Our Integrated Analytics Solutions portfolio delivers information from your Pyxis® MedStation® system in two ways: the Knowledge Portal, a web-based tool you can access from anywhere; and Analytics Services, a complete service offering provided by CareFusion analysts. This unique approach helps you detect diversion, improve inventory and compare key performance metrics across a network of hospitals.



Regulatory compliance:
Diminish specimen
collection errors by
up to 67%⁸

Now more than ever, hospitals and caregivers are being held accountable to improve quality and patient safety. With more regulatory scrutiny, at the state and federal level, hospitals are feeling the pressure from all sides.

Pyxis® technologies help simplify compliance with National Patient Safety Goals and accreditation requirements.





Controlled substances. Managed.

Secure storage, automated audit trails and a Diversion Watch List to monitor risk.

Transfusion errors. Reduced.

Barcode verification at the point of care to help you support National Patient Safety goals.¹⁰

Pharmacist review. Achieved.

Integrated technologies allow pharmacists to review medication orders without delaying patient therapies.

Critical lab values. Communicated.

Lab results are easily accessible and clinicians receive alerts when the results suggest potential patient harm.



Improved cost savings:
Redeploy 4.5 FTEs in
the pharmacy¹¹

The healthcare financial landscape has become increasingly challenging. Rising costs, shrinking budgets and decreased reimbursement for healthcare-associated infections and never events have made cost management a top priority.

By leveraging your investment in Pyxis® technologies, you can manage inventory costs more effectively and better address the financial impact of adverse events.



Inventory management. Efficient.

Identify opportunities for operational improvement and monitor performance with Integrated Analytics Solutions.

Charges. Captured.

Medication orders are accurately tied to patient information and administration is captured at the point of care.

Meaningful use. Justified.

A closed loop medication administration process will bring you one step closer to meeting objectives for EMR adoption.

Reimbursement. Increased.

Generate greater reimbursement by reducing patient harm associated with medication and transfusion errors.



World-class customer support

Our world-class customer support team is with you every step of the way to help you get the most out of your investment. With the largest support team in the industry, we have the staff and experience to provide you with the assistance you need, when you need it.

- **Premiere customer service**
 - #1 by independent ranking, *MD Buyline*
- **Ongoing professional optimization services**, education and clinical expertise to help you achieve maximum productivity
- **24/7/365 technical support** including five call centers and online self service
- **Award-winning Remote Support Services** with more than 50,000 active device connections



Your patient care team. Satisfied.

With the Pyxis® Medication Communication System, your caregivers can feel more confident that they are delivering the right care for their patients, better connected to get the right information when it's needed and more in control of their day.

Your hospital. Optimized.

From helping to close the medication management loop, to tracking key performance indicators for compliance and workflow, to guiding you through implementation and best practice adoption, we're committed to helping your hospital see results.



Less **time** with meds.
More **time** with patients.





1. Beloit Memorial case study. CareFusion, 2006.
2. Institute of Medicine, Report Brief: "Preventing Medication Errors"; July 2006.
3. Serious adverse drug event reports increase last quarter, 2008, ISMP QuarterWatch, October 2009
4. Discussion Paper of the American Association of Blood Banks for the 2nd National Summit on Patient Safety Research. Retrieved on November 9, 2009 from: www.aabb.org/Content/Members_Area/Members_Area_Regulatory/Patient_Safety/pss101003.htm.
5. Taming Turnover. *Pharmacy Practice News*, July 2009.
6. Produced by ECRI and ISMP under contract to the Pennsylvania Patient Safety Authority, Patient Safety, A sign of opportunity knocking, 2005.
7. Hendrich, A., Chow, M., Skierczynski, B., Zhenqiang, L. A 36-Hospital Time and Motion Study: How Do Medical-Surgical Nurses Spend Their Time? *The Permanente Journal* 2008, 12 (3): 25-34.
8. American Pharmacists Association's annual meeting, U.S. Pharmacist Shortage Looms: Survey, Pharmacy Manpower Project Inc, 2006.
9. CareFusion data, 2009.
10. The Joint Commission. 2009 National Patient Safety Goal 01.03.01: Eliminate transfusion errors related to patient misidentification.
11. Hospital of St. Raphael whitepaper. CareFusion, 2008.

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CareFusion
San Diego, CA

carefusion.com

