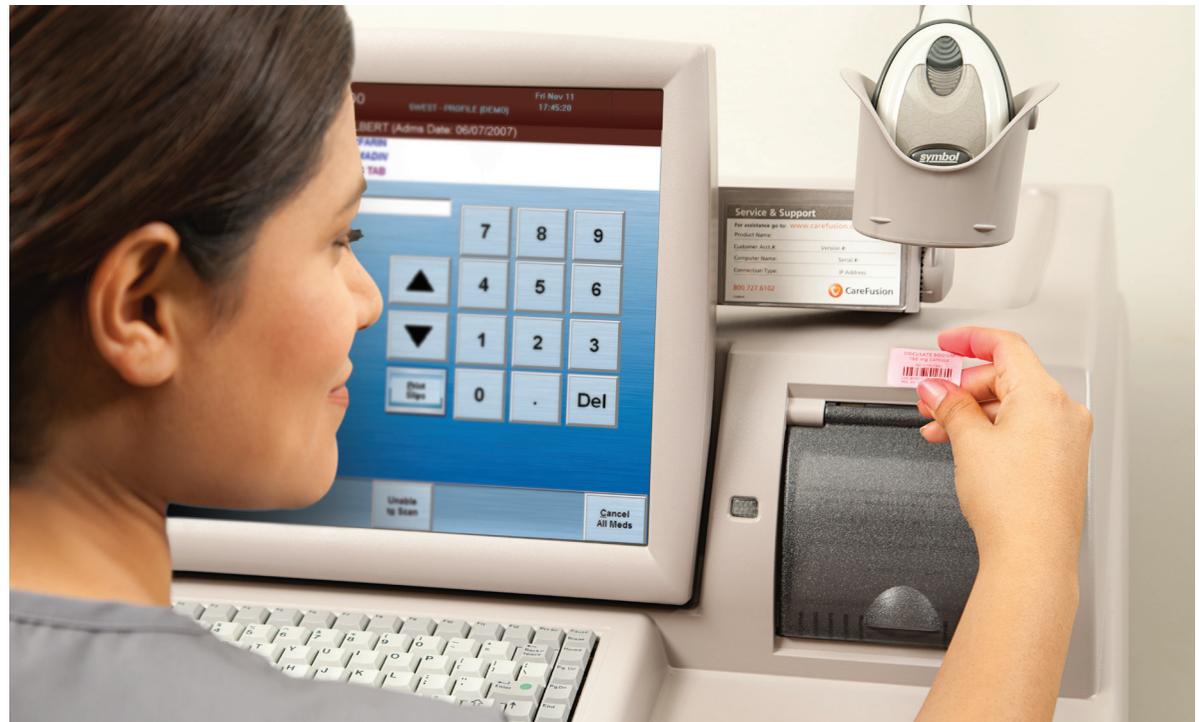


# Measurable improvements in medication management

Pyxis MedStation™ 4000 system



Pyxis®





***“We’re able to get the meds we need quickly and safely, even after hours.”***

Tammy Hill, RN  
Critical Care Coordinator  
Alliance Community Hospital

## Feeling the pain of medication management, hospitals find a prescription that works.

In an effort to improve clinical outcomes, patient satisfaction scores and profitability, hospitals are taking a close look at their medication management system. Studies have found that the path medication takes from the pharmacy to the patient can be error-prone and inefficient. These challenges often increase risks and costs, delay therapies and complicate efforts to meet regulatory requirements.

Consider that today, within a 300-bed hospital, nurses may administer up to 4,000 medication doses daily across all patient care areas.<sup>1</sup> That’s why it’s imperative that pharmacy, nursing and technological processes be synchronized to provide the correct medication, supplies and information for patient care.

From pharmacy to nursing to the patient, there has to be a better way to get medications to the right patient without delay. And there is.

### **Pyxis MedStation™ 4000 system**

CareFusion provides a comprehensive solution to streamline the medication management process. The foundation of our approach is the Pyxis MedStation 4000 system, which safely and efficiently dispenses millions of medications—and benefits—every day.



## Automating the medication management process

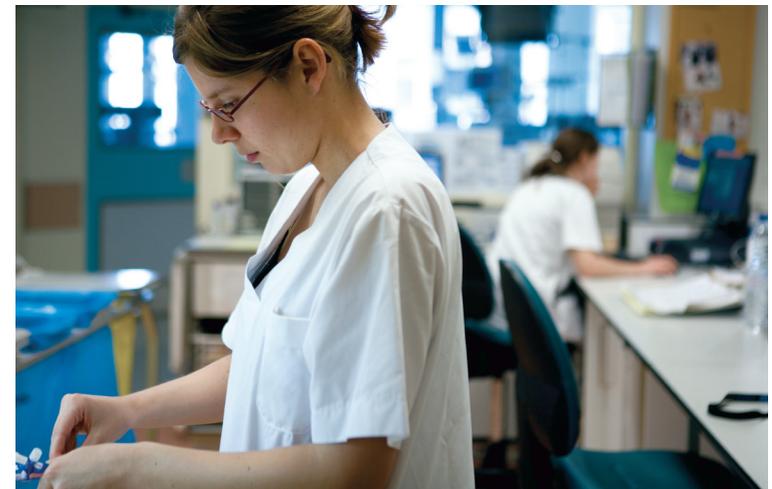
The Pyxis MedStation 4000 system can help you manage medications by automating the process throughout the hospital. This market proven system streamlines medication distribution, improves nursing and pharmacy collaboration and workflow, helps support Joint Commission and regulatory compliance efforts and interoperates with your hospital information system (HIS) to provide information where and when it's needed.

- Helps start patient therapies faster by reducing time to first dose
- Gives nurses fast and easy access to the medications they administer
- Improves the predictability related to where to find medications
- Reduces missing doses and improves workflow efficiencies
- Minimizes risk of harm by alerting clinicians about potential medication errors before they reach the bedside
- Provides ability to pre-select medications and document waste remotely from any hospital computer using Pyxis Nurse Link, resulting in more time for direct patient care

## Delivering results you can count on

By using the Pyxis MedStation 4000 system, some hospitals have reported:

- Time to initial dose decreased to approximately 30 minutes<sup>1</sup>
- The cost was two times less expensive than a unit dose process<sup>1</sup>
- The average time to process routine orders through to the pharmacy back to the nursing station, and ready for nurses to access decreased to 22 minutes<sup>2</sup>
- Turnaround on prioritized stat orders shrank by 5 to 7 minutes<sup>2</sup>
- The average nursing time saved in hospitals with a weekly inventory is 15.1 minutes when only controlled substances accessed since the last inventory are counted<sup>3</sup>
- The cart exchange was eliminated, freeing up two pharmacists to work on the floor<sup>4</sup>





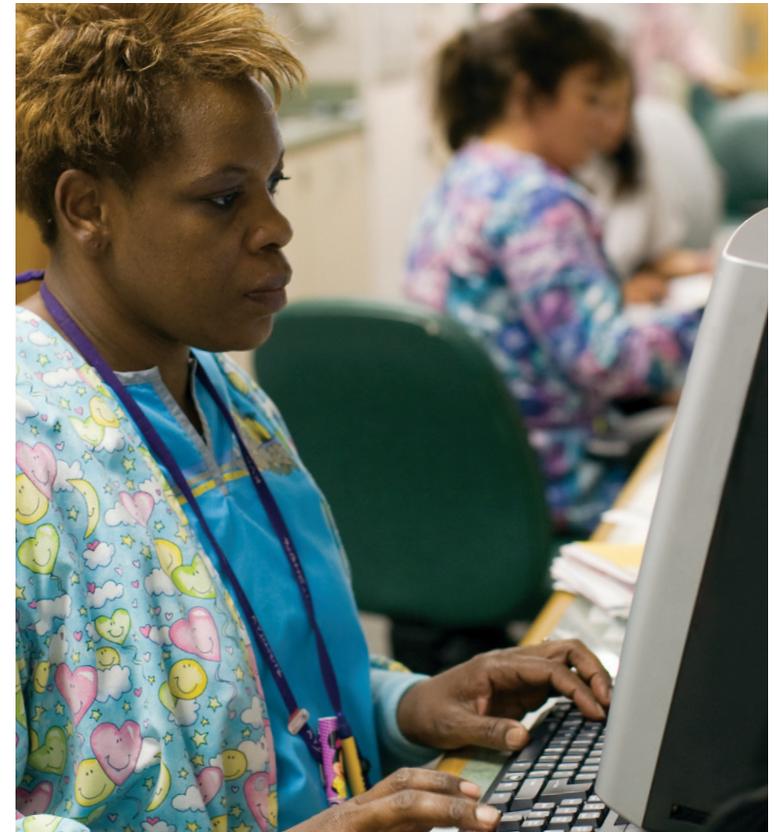
### Streamline the medication administration process with Pyxis Nurse Link:

- Enables pre-selection of scheduled and PRN medications from a hospital PC for removal at the Pyxis MedStation system
- Allows medication waste to be recorded remotely without a trip back to the Pyxis MedStation system
- Centralizes clinical information, including medication orders, labs and vitals

### Enhancing safety and workflow with medication interaction alerts\*

Caregivers need the right information, at the right time, to protect patients and better manage their day. The Pyxis MedStation 4000 system provides new capabilities designed to alert caregivers to the risk of potential harm, while streamlining the medication distribution process.

- **Allergy interactions:** Active checking during the medication removal process to alert the clinician if the patient is allergic to the medication or medication class
- **Drug-to-drug interactions:** Active checking during the medication removal process to alert the clinician if the medication may interact with other medications being removed and previous medication removals
- **Comprehensive decision support database:** Nurses receive actionable alerts at the point of dispensing
- **System flexibility:** Pharmacists can customize alerts for each Pyxis MedStation system to comply with hospital policy and minimize alert fatigue



# The Pyxis MedStation 4000 system—a solution unlike any other

## Analyzing clinical data to help reduce adverse drug events

Built on the foundation of the Patient Event Advisor platform, Pyxis Advisor provides help where it's needed. It analyzes clinical data and informs nurses at the Pyxis MedStation system when their patients may be at risk for a potential adverse drug event.

For example, a Pyxis Advisor alert can notify a nurse that their patient has a critical lab value and causative drug(s), helping them protect the patient from a potential adverse drug event.

## Partnering to ensure interoperability

Clinicians interact with many systems that don't share data. Industry-first interoperability\* between the Pyxis MedStation 4000 system and the *Cerner Millennium*® EMR can help simplify the process of medication administration. By sharing data between the two systems, nursing and pharmacy have the information they need to enhance medication safety and optimize workflow processes.

## Analytics are easier than ever

With just a few clicks, get medication dispensing analytics to help optimize devices and track performance trends. This helps identify potential diversion issues, prevent stock-outs by optimizing storage locations and monitor compliance with controlled substance tracking policies.

<b>Safety</b>	<ul style="list-style-type: none"> <li>• Helps prevent loading of specific medications on specific devices with block loading</li> <li>• Helps nurses verify they are removing the correct medication as intended with barcode scan on remove</li> <li>• Helps reduce chances of the wrong medication in the wrong pocket with barcode scan on refill and load</li> </ul>	<ul style="list-style-type: none"> <li>• Warns a nurse if the wrong dose is about to be removed</li> <li>• Provides expanded patient allergy information to include comprehensive data from ADT and PIS systems</li> <li>• Provides current online Lexicomp drug reference information*</li> <li>• Provides patient education for medications in multiple languages with online Lexicomp access*</li> </ul>
<b>Workflow</b>	<ul style="list-style-type: none"> <li>• Helps nurses reduce time spent on medication inventory counts by counting only accessed inventory</li> <li>• Saves time with a singular medication search list, including both brand and generic drug names</li> </ul>	<ul style="list-style-type: none"> <li>• Saves nurses time in locating medications in other devices with global find</li> <li>• Increases safety of medication removal on other devices by using the patient's profile with global remove</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Alerts nurse of medication removals where the dose removed exceeded the ordered dose with undocumented waste</li> <li>• Improves precision and accuracy of user access with biometric identification using spectral imaging technology</li> </ul>	<ul style="list-style-type: none"> <li>• Streamlines patient billing reconciliation of temporary patients and permanent patients</li> <li>• Enables easy reconciliation of temporary accounts and inpatient accounts</li> </ul>
<b>IT enhancements</b>	<ul style="list-style-type: none"> <li>• Supports IT initiatives for operating system standardization with the ability to migrate to Windows 2008 server and Windows 7*</li> <li>• Reduces IT maintenance through support of DHCP/DNS configurations (<i>stations only</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• Reduces efforts to manage synchronous time across hospital devices and eliminates disruptions from daylight savings changes</li> <li>• Provides easy access to printed reports available on network printers* (<i>console and workstation only</i>)</li> </ul>

\*This feature is in limited commercial release. CareFusion may not make this feature generally available for commercial sale.

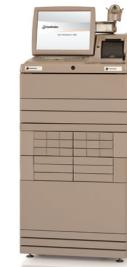
## Pyxis MedStation 4000 system typical configuration



## Pyxis MedStation 4000 mains



Pyxis MedStation 4000  
6-drawer main  
22.8" W x 27" D x 54.3" H



Pyxis MedStation 4000  
4-drawer main plus bin  
22.8" W x 27" D x 55" H



Pyxis MedStation 4000  
2-drawer main  
22.8" W x 27" D x 27.8" H



Pyxis MedStation 4000  
0-drawer main  
22.8" W x 27" D x 11.5" H

## Pyxis MedStation 4000 auxiliaries



Pyxis MedStation 4000  
7-drawer auxiliary  
22.8" W x 27" D x 47" H



Pyxis MedStation 4000  
half-height column auxiliary  
(2 doors)  
31" W x 28" D x 43" H



Pyxis MedStation 4000  
single column auxiliary  
(4 doors)  
31" W x 28" D x 79.5" H



Pyxis MedStation 4000  
double column auxiliary  
(8 doors)  
52" W x 28" D x 79.5" H

## Related products



Pyxis SMART Remote Manager  
Pyxis Remote Manager  
(refrigerator not included)

## Pyxis MedStation 4000 drawers



CUBIE® pockets



Carousel drawer



Matrix drawer with optional  
return bin



MiniDrawer (I-6)



MiniDrawer (I-18)



2D barcode scanner included

## Pyxis MedStation 4000 consoles



Pyxis MedStation 4000  
console and cabinet  
30" W x 24" D x 49" H



Pyxis MedStation 4000  
workstation  
16.25" W x 8.25" D x 17.5" H

- 1 Baker J, Draves M, Ramudhin A. Analysis of the Medication Management System in Seven Hospitals. CareFusion, 2010.
- 2 University Medical Center Testimonial (video). CareFusion, 2003.
- 3 Blackmere J, Crowson K, Danley B, Hanken S, McDow L. Determining the most efficient controlled substance inventory practice that minimizes discrepancies and maximizes security. CareFusion, 2010.
- 4 Alliance Community Hospital Testimonial (brochure and video). CareFusion, 2005.

CareFusion  
San Diego, CA

[carefusion.com](http://carefusion.com)

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