Measurable improvements in medication management

Pyxis MedStation™ 4000 system
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. 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.

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

Tammy Hill, RN
Critical Care Coordinator
Alliance Community Hospital
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 minutes¹
- The cost was two times less expensive than a unit dose process¹
- 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 minutes²
- Turnaround on prioritized stat orders shrank by 5 to 7 minutes²
- 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 counted³
- The cart exchange was eliminated, freeing up two pharmacists to work on the floor⁴
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.

<table>
<thead>
<tr>
<th><strong>Safety</strong></th>
<th><strong>Workflow</strong></th>
<th><strong>Security</strong></th>
<th><strong>IT enhancements</strong></th>
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<tbody>
<tr>
<td>• Helps prevent loading of specific medications on specific devices with block loading</td>
<td>• Helps nurses reduce time spent on medication inventory counts by counting only accessed inventory</td>
<td>• Alerts nurse of medication removals where the dose removed exceeded the ordered dose with undocumented waste</td>
<td>• Supports IT initiatives for operating system standardization with the ability to migrate to Windows 2008 server and Windows 7*</td>
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<td>• Helps nurses verify they are removing the correct medication as intended with barcode scan on remove</td>
<td>• Saves time with a singular medication search list, including both brand and generic drug names</td>
<td>• Improves precision and accuracy of user access with biometric identification using spectral imaging technology</td>
<td>• Reduces IT maintenance through support of DHCP/DNS configurations (stations only)</td>
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<tr>
<td>• Helps reduce chances of the wrong medication in the wrong pocket with barcode scan on refill and load</td>
<td>• Streamlines patient billing reconciliation of temporary patients and permanent patients</td>
<td></td>
<td>• Reduces efforts to manage synchronous time across hospital devices and eliminates disruptions from daylight savings changes</td>
</tr>
<tr>
<td>• Warns a nurse if the wrong dose is about to be removed</td>
<td>• Enables easy reconciliation of temporary accounts and inpatient accounts</td>
<td></td>
<td>• Provides easy access to printed reports available on network printers* (console and workstation only)</td>
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- Provides expanded patient allergy information to include comprehensive data from ADT and PIS systems
- Provides current online Lexicomp drug reference information*
- Provides patient education for medications in multiple languages with online Lexicomp access*
- Reduces IT maintenance through support of DHCP/DNS configurations (stations only)
- Reduces efforts to manage synchronous time across hospital devices and eliminates disruptions from daylight savings changes

*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 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

**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

**Related products**

- **Pyxis SMART Remote Manager**
- **Pyxis Remote Manager**
  - Refrigerator not included
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.


4 Alliance Community Hospital Testimonial (Brochure and video). CareFusion, 2005.