Streamlining the medication order process

Pyxis® Connect

“We went from a 2.5 hour order turnaround time to 16 minutes with the help of Pyxis® products.”

Michael Borgmann
Pharmacy Technology Specialist
Avera McKennan

Pyxis®

CareFusion
Streamlining the medication order process

An enterprise-wide solution supporting both decentralized and centralized pharmacy operations, Pyxis Connect simplifies medication order processing and review—creating more time for pharmacists and clinicians to focus attention on patient care. By providing additional access options for medication order management and expanding routing options across multi-facility health systems, Pyxis Connect helps hospitals improve workflow, communication between pharmacy and nursing and, most importantly, patient care.

“After integrating Pyxis Connect with the Pyxis MedStation™ system, Porter Adventist Hospital saw a 62% reduction in medication order turnaround time. Nursing satisfaction with pharmacy services was at the highest level ever.”

Porter Adventist Hospital
CareFusion case study, Porter Adventist

Reducing time to initial dose: Pyxis Connect with Pyxis MedStation profile-enabled system

1:30 a.m. 1:33 a.m. 1:36 a.m. 1:41 a.m. 1:46 a.m.

1. Medication order written or entered into CPOE system.
2. Paper order scanned at nursing unit or electronic submission from CPOE sent to Pyxis Connect.
3. Orders prioritized and processed. CPOE orders are approved and scanned orders are entered into the PIS.
4. During pharmacy review, nursing can monitor order status. Medication approval received at Pyxis MedStation system, ready for nurse to dispense.
5. Patient receives medication.

The time indicated is an example only. Total time to initial dose will vary.

Pyxis Connect medication order management helps:

- Decrease medication order turnaround time
- Reduce medication errors and lost medication orders
- Create more time for pharmacy involvement in clinical care
- Improve workflow by providing real-time reporting capabilities
- Create consistency in medication order review processes during the transition to computerized physician order entry (CPOE)
- Support integration with hospital’s existing IT investments
Enabling remote and enterprise-wide order management

The Joint Commission requires all medication orders to be reviewed for appropriateness. And yet, roughly 69.8% of hospitals do not provide 24-hour coverage—and only 1.6% of hospitals with fewer than 50 staffed beds provide 24-hour inpatient pharmacy services. With remote order processing and review, as well as after-hours routing capabilities across facilities, Pyxis Connect enables staff to quickly access meds when they are needed—during off hours or peak hours.

“We needed a one-stop location, 24 hours a day, 7 days a week. Pyxis Connect completes our pharmaceutical care cycle.”

Deb McArthur, RN
Operations Support Director of Nursing
Wesley Medical Center

- Supports decentralized pharmacies: Pharmacists can easily enter and review medication orders from any computer on the hospital network with a browser, such as on the nursing floor or even at home. The View Station web client supports remote and after-hours order processing and review.

- Supports centralized pharmacies: Medication orders from satellite hospitals and other facilities without a 24-hour pharmacy can be routed to a central location for after-hours pharmacy coverage review. Additionally, it can be used to route orders during peak order times.
Supporting order management needs during transition to CPOE

Hospitals are busier than ever preparing for Meaningful Use, including plans to implement CPOE. In the next two years, 59% of facilities expect to implement CPOE. However, estimates to complete a full rollout across the facility are approximately two to three years after initial implementation. Even after CPOE is fully implemented at a hospital, some complex orders may continue to be submitted on paper.

Pyxis Connect can support hospitals in a mixed, transitioning environment and create consistency in medication workflow for order review during the transition to CPOE.

- Pyxis Connect can be used as a transition and back-up system to create consistency in workflow for medication order review during CPOE implementations.
- For CPOE systems without routing, prioritization and scheduling tools, or those that can’t handle complex orders and order sets (e.g., chemo and pediatric orders), facilities may continue to benefit from Pyxis Connect after CPOE implementation is complete.
Increasing clinical care for the pharmacist

Enabling pharmacists to spend more time with patients can dramatically reduce preventable adverse drug events (PADEs). Studies have shown that pharmacist participation in ICU medical rounds decreases the incidence of PADEs to 3.5 per 1,000 hospital days. By providing flexible options for order management, Pyxis Connect helps enable pharmacists to actively monitor orders throughout the facility—from the pharmacy, directly at the point of care or even from home.

“When pharmacists spend clinical time with patients, we can reduce the occurrence of adverse drug events by as much as 70%.”

Gilbert Romero, RPh
Director of Pharmacy
Tucson Medical Center

- Pyxis Connect can be available in the patient care areas where pharmacists review orders throughout the day.
- It can be deployed as software or accessed via a web browser on any computer connected to the hospital network.
Improving nursing satisfaction

Automating the order management process with Pyxis Connect translates to decreased time to first dose and increased nursing satisfaction. In addition, efficiency is increased by allowing the nursing staff to view the medication order queue directly from the patient care area, freeing up time spent checking order status.

“By saving time with Pyxis Connect, we made more time for our patients.”

Deb McArthur, RN
Operations Support Director of Nursing
Wesley Medical Center

- Nursing can view the medication order queue directly from the Pyxis MedStation system or from any computer on the hospital network.
- Pyxis Connect and Pyxis MedStation system provide a solution that facilitates rapid order turnaround time and may reduce override rates by providing nursing staff with immediate access to medications once the order is reviewed and approved by pharmacy.
Leveraging existing IT investments

Pyxis Connect can be configured to leverage your hospital’s or multi-facility health system’s existing hardware investments, including network scanners, fax servers, CPOE systems and other electronic order sources. Pyxis Connect can also operate in a virtual environment with options to leverage existing database infrastructure, reducing costs and increasing uptime.

To learn more about how Pyxis Connect can help your hospital or health system improve pharmacy and nursing workflow, staff communication and patient care, visit us at carefusion.com.
References
3 CHIME Member Survey on CPOE Adoption, June 2009.