Achieving Success with New XR2 Automated Central Pharmacy System

Are you looking to further automate your central pharmacy so you can spend more time on clinical initiatives? Are your automated systems no longer state-of-the-art?

Our new Omnicell® XR2 Automated Central Pharmacy System could be the answer. We are sharing initial experiences of customers using this highly flexible robotic technology.

Cartless and Cartfill Versatility

The XR2 system works with cartless and cartfill distribution models, which provides valuable flexibility and allows XR2 to assume a greater portion of the workload than was previously possible with a single automation system.

One of the first hospitals to install XR2, having moved from a cartfill to cartless model using carousel technology, was eager to add XR2 to the mix to increase efficiency and reduce the pharmacist labor required to check dispensed medications.

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More time for clinical programs:
Without adding FTEs, pharmacies using XR2 expect to spend more time on clinical activities such as renal dose adjustment, IV to PO conversion, rounding with physicians, patient education, code coverage, and teaching, as well as establishing new programs such as antibiotic stewardship, antibiotic dose monitoring, and aminoglycoside dosing programs.

“This is a game changer—we’re just scratching the surface of what this system can do—and at less than three weeks in, the XR2 is already putting us in a better place than our previous automation ever had!”*

Continued

Another initial XR2 site—Sentara RMH Medical Center—uses a cartfill model to support delivery to patient rooms using a nurse server model. Since they are part of a larger health system in which the majority of the hospitals are cartless, XR2 provides the flexibility to change the distribution model in the future if desired, without obsoleting the system or reducing the efficiency of central pharmacy workflows.

**XR2 Impact**

**Pharmacy verification time savings:** In one pharmacy facility, the XR2 replaced the Omnicell ROBOT-Rx* system. During the transition to XR2, pharmacists checked 100% of medications dispensed from the XR2 and found no errors attributable to the system. They are now working toward securing a 0% pharmacy verification exemption for medications dispensed from XR2 through their State Board of Pharmacy.

At another facility where nearly 5,000 daily cabinet replenishment doses were processed through an Omnicell carousel, pharmacy had been performing a 100% check that took approximately 4 hours of pharmacist time each day. Since implementing XR2, they have shifted more than half of the carousel cabinet replenishment volume to the XR2 system where they will use a 10% random pharmacist check, saving substantial time.

**Changing roles for carousel and packager:** Compared with ROBOT-Rx, XR2 offers up to three times more line item and dose storage capacity, and does not require medications to be repackaged. The greater capacity of XR2 is allowing pharmacies to free up space in their carousels for items such as IV solutions, albumin, chemotherapy medications, oral liquids, and inhalers, providing greater control over more of the pharmacy inventory.

Packaging can now be focused on medications not available from manufacturers in unit dose packaging, medications with a significant cost advantage when purchased in bulk, and medications that need to be repackaged ad hoc due to drug shortages.

Contact your Omnicell representative to learn how the XR2 Automated Central Pharmacy System can revolutionize your pharmacy operations.

* Bill Thomas, CPhT, Pharmacy Team Coordinator, Sentara RMH Medical Center
5 Ways to Strengthen Controlled Substance Accountability

While diversion prevention is led by pharmacy, it requires vigilance throughout the healthcare system. Omnicell offers a range of integrated solutions that create a comprehensive closed-loop system covering each leg of the controlled substance journey.

1. Central Pharmacy
To assure chain of custody is maintained throughout your facility, XT Controlled Substance Manager tracks controlled substance inventory—from the warehouse to the pharmacy and patient care areas. Learn More

2. Operating Rooms
XT Anesthesia Workstation is an automated cabinet for the OR that securely stores medications and supplies needed for a full day of cases in one convenient place and automatically tracks inventory used. Learn More

3. Patient Care Areas
To discourage diversion, XT Automated Dispensing Cabinets feature drawers with metal locking lids and an optional single-dose dispensing solution. Our cabinets share the same server as Controlled Substance Manager and Anesthesia Workstation, providing efficient system maintenance. Learn More

4. Cabinet-EHR Reconciliation
To create a more effective process, Closed Loop Dose Accountability automatically reconciles automated dispensing cabinet removals* with Cerner, Epic, and Siemens EHR administration records. Learn More

5. Diversion Monitoring
Omnicell Analytics is a real-time diversion analytics tool that streamlines the process of managing potential drug diversion across a health system. Learn More

*Not available with Anesthesia Workstation

Join Our Drug Diversion Webinar
ASHP Diversion Prevention Guidelines Simplified
This webinar will cover how to develop a controlled substance diversion prevention program according to recommendations by the ASHP. It will be led by a co-author of the ASHP Guidelines on Preventing Diversion of Controlled Substances, Toni Fera, PharmD. Joining her will be pharmacy and nursing leaders from Orange Regional Medical Center in New York.

Thursday, September 20, 2018
9:00 a.m. PDT / 12:00 noon EDT
For more information and to register, click here.
CHLA Recognized for Making Headway in IV Automation

The Omnicell IV Solutions team recognizes customers who have achieved increasing success with our IV compounding robots by presenting them with an IV Solutions Excellence Award. Our latest recipient, Children’s Hospital of Los Angeles (CHLA), was selected based on their significant production increases and other criteria, which was weighted to adjust for different hospital sizes.

CHLA operates two i.v.STATION™ Non-hazardous Compounding Robots, and they increased production by 755% between 2016 and 2018. Other improvements include:

- Increase in throughput by 27%
- Decreased cost per prep based on volume by 139%

They anticipate another 88% increase in production by year’s end based on their 2018 projections.

What Led to Improvements?
Sterile Compounding Supervisor Lucy Nguyen led the charge this year using Omnicell’s IV planning tool, which allows customers to model production increases or changes based on changes to protocols or production schedules. By coordinating the scheduling of operator technicians and drug production, she achieved the increased production. She also developed an IV Station Training List to ensure her users were operating at optimal levels.

Celebration
Brad Devine, Omnicell’s new Senior Director of IV Operations, presented CHLA with the IV Solutions Excellence Award in May along with cake for the department and a gift bag for each technician.

Carol Taketomo, CHLA’s Director of Pharmacy, was very pleased with the award as a reflection of the tremendous achievement of the team. She said, “We consider the Omnicell i.v.STATION robot to be a part of our healthcare team, making drug preparation, packaging, and labeling safer for all members—especially our anesthesiologists.”
A randomized clinical trial called STOMPP (Study to Measure the Impact of Pharmacists and Pharmacy Services on Medication Non-Adherence) tested the impact of the pharmacist and pharmacy services provided independently or in combination, on medication non-adherence and health outcomes. The results support the use of Omnicell’s *multimed blister cards* as most influential in improving adherence among study patients.

In the STOMPP study, patients were randomly assigned to one of four groups:
1. Received medications dispensed in vials (pill bottles)
2. Received medications in multimed blister packaging
3. Received pill bottles + medication therapy management (MTM)
4. Received blister packaging + MTM

**Key Takeaways**

Study participants who received multimed blister cards (with or without MTM services) had the most marked change in adherence scores when compared to pill bottle groups, achieving adherence scores greater than 45% above baseline.

- Patients assigned to the two multimed packaging groups reached medication adherence rates of 80% almost immediately upon enrollment and continued to increase, reaching 90% by the end of the one-year study period.
- By contrast, patients assigned to the pill bottle-only group reached a maximum of 56% adherence, had the poorest health outcomes, incurred higher costs, and utilized more healthcare resources than in other groups.
- Patients whose blood pressure was not at goal at baseline and who received multimed packaging reached goal sooner than those who did not receive multimed packaging.
- Average systolic blood pressure at 12 months was lower for patients who received multimed packaging and MTM, compared to other patients.
- Patients who received multimed packaging and MTM had the lowest average HbA1c values at the end of the year when compared to the other groups.

**Study Subject Details**

Enrolled in the study were 61 patients within a regional integrated delivery network (IDN), diagnosed with type 2 diabetes, and/or hypertension and hyperlipidemia, who were followed for one year.

At baseline, most patients were on approximately 10 prescription medications, had a BMI >30, and uncontrolled diabetes with HbA1c >7%.

*Omicell’s OnDemand 400 multimed automation technology and precursors to the SureMed® by Omnicell Multimed Blister Cards were used in this study.

**Study Author**

Sharrel Pinto, BS Pharm, DMM, MS, PhD, served as the study’s Principal Investigator and lead researcher. The results were presented at the American Pharmacists Association Annual Meeting and published in *Innovations in Pharmacy*.

Dr. Pinto is the Hoch Family Endowed Professor for Community Pharmacy Practice at the South Dakota State University School of Pharmacy. Previously she was the Division Head and Associate Professor of Health Outcomes and Socioeconomic Sciences of the University of Toledo College of Pharmacy and Pharmaceutical Sciences.

“STOMPP reinforces the adherence pharmacy model, and affirms the value of the pharmacist as a key member of the care team in not only improving the experience and health of these patients, but also reducing the overall costs associated with their care,” said Pinto.
Are Your Older Omnicell Cabinet Systems Exposing You to Security Risks?

Earlier-generation Omnicell medication and supply dispensing systems (G4 and older) use the Microsoft Windows 7 operating system, which has been replaced by Windows 10. Windows 10 has sophisticated security capabilities to help protect against increasingly complex and malicious cyberattacks, viruses, and malware.

Your facility can get these latest security protections by upgrading to the Omnicell® XT Automated Dispensing Cabinet, which runs on Windows 10.

Keep in mind that HIPAA rules mandate that systems must be guarded against malicious software. After Microsoft ends support for Windows 7, security patches and updates will no longer be released to help prevent malicious software infections and possible data breaches.

Other XT Cabinet Benefits

In addition to making your IT department happier with a Windows 10 system, XT cabinets have advantages that will appeal to your nurses, such as:

- Faster processing and more responsive touch screen to speed transactions
- Brighter Guiding Lights that are easier to see in all lighting conditions
- 50% more capacity compared with similar units on the market, including AcuDose-Rx® cabinets, to help prevent stockouts and missing doses
- New drawer configurations that make it easier to optimally organize medications
- Integrated Medication Label Printer included to support patient safety

Learn more about Omnicell XT Automated Dispensing Cabinets and all the benefits they offer in addition to Windows 10.
New App for Your Omnicell Service Requests

To make it easier for you to initiate or follow up on service requests and track parts deliveries, Omnicell now has a mobile app called OC-Care. Simply download the free OC-Care app on your phone or tablet, and you’ll have quick, convenient access to information you need.*

- Convenient alternative to logging into myOmnicell.com customer portal or calling Omnicell’s Technical Assistance Center
- Provides FedEx delivery status—not currently available on myOmnicell
- Enables you to follow up on existing service requests and open new ones
- Ideal for pharmacy system administrators and biomedical technicians who service Omnicell equipment

Try the OC-Care app today

- Download the OC-Care app from the Apple App or Google Play store.
- Register with your name, email, healthcare facility name, and Omnicell CSN (customer service number).
- Create a password (minimum 8 characters and 1 number).

That’s all it takes to get started!

For more information about the OC-Care app, download our information sheet.

*OC-Care is for customers who have new and legacy Omnicell equipment. Legacy Aesynt equipment will be included in a future release.
Training

Omnicell offers a variety of practical, interactive training opportunities—virtual, online, and classroom—to help you derive the maximum benefits from your Omnicell systems. A comprehensive list of training resources is available on myomnicell.com, our customer portal.

New Online Training Course

Enterprise Medication Manager – Overview Training

This course is intended for systems pharmacy directors, operations managers, and systems buyers. It provides an overview of the EMM application, walks users through various purchase orders, and provides steps on how to search for medications within EMM. Duration: 30 minutes

Conferences

Omnicell participates in many conferences throughout the year. Some key meetings are listed below. We hope you can join us at an upcoming event!

Acute Care Events

Epic Users Group Meeting
August 27–30, 2018 / Verona, WI

American Association of Nurse Anesthetists (AANA) Annual Congress
September 21–25, 2018 / Boston, MA

National Association of Drug Diversion Investigators (NADDI) Annual Drug Abuse Conference
October 2–5, 2018 / Norfolk, VA

Cerner Health Conference
October 8–11, 2018 / Kansas City, MO

Non-Acute Care Events

National Association of Chain Drug Stores (NACDS) Total Store Expo
August 25–27 / Denver, CO

National Community Pharmacists Association (NCPA) Annual Convention
October 6–9, 2018 / Boston, MA

MTM and Medication Adherence Innovations Summit
October 11–12, 2018 / Philadelphia, PA

America’s Health Insurance Plans (AHIP) National Conferences on Medicare, Medicaid & Duals
October 14–18, 2018 / Washington, DC