

## Technology for Tomorrow Pearls: Automation

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The speaker has no conflict to disclose.



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- Today we'll be discussing:

- Use of automation to process patient specific orders, first doses and cabinet replenishment
- How automation can increase patient safety
- A unique medication delivery system that is nursing friendly and eliminates missing meds
- How automation will enhance throughput and optimize inventory control



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## Automation to Process: Patient Specific Orders, First Doses & Cabinet Replenishment



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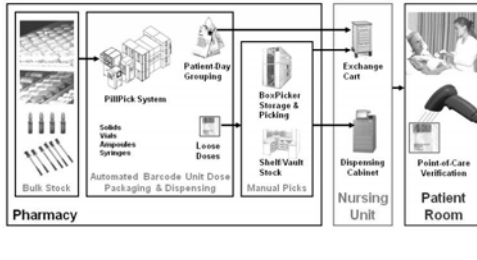
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## PillPick Overview

•Simultaneously packages, picks and dispenses unit doses for distribution to carts, dispensing cabinets, etc.



## • Process

- Orders are sent from HIS system to PillPick Manager
- System fulfills patient specific orders and first doses simultaneously
  - Medications distributed on PickRing to patient floors or to cabinets
    - » PickRings patient or cabinet specific
    - » Tracks inventory, reduces missing meds



## Preparing Pillboxes

- Tech scans barcode of original bulk container
  - Enters quantity
  - Verifies in PillPick Manager
  - Label is printed and applied to Pillbox
  - Sealed shut

## How Automation Increases Patient Safety



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### Loading

Reduces picking errors

- No human touches from bulk to administration



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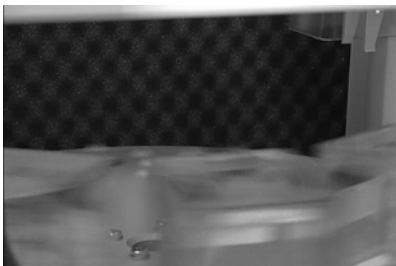
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### Loading

Barcodes all unit doses

- Scan for bedside verification



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**PickRing**

- Holds patient specific meds for 24 hour period
- Scan for bedside verification




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## Unique/Nurses Friendly Delivery System




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**PickRing**

- Holds all patient specific meds for 24 hour period
  - No Mix-up in administration
  - Provides information on when and what order patient med is to be administered
  - Barcoded for bedside verification
- Administration
  - Verify patient information via BCMA
  - Cut package off of ring
- Unused medications stay on ring for easy return to pharmacy stock




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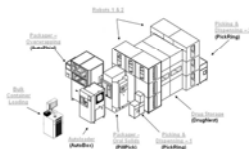
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## Enhancing Throughput & Optimizing Inventory Control with Automation



- PillPick Multitasks
  - Built-in redundancy
    - More tasks at the same time
  - Reduction in labor
  - More time for staff to spend on clinical tasks
  - Less time spent by pharmacists checking



- Fully Automated
  - Fewer steps
  - No human touches between bulk and PickRing
    - More time for other tasks
    - Faster rate of packaging, picking and dispensing



- PickRing
  - Keeps meds together
    - Reduction in missing meds
    - Verify lot number for recall, expiration, etc.
    - Easy return process



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- Automated Returns
  - No need to check returns
    - Barcode checked and restocked automatically
    - Checks for expired lot numbers, recalls, etc.
    - Reduction in labor



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Q&A



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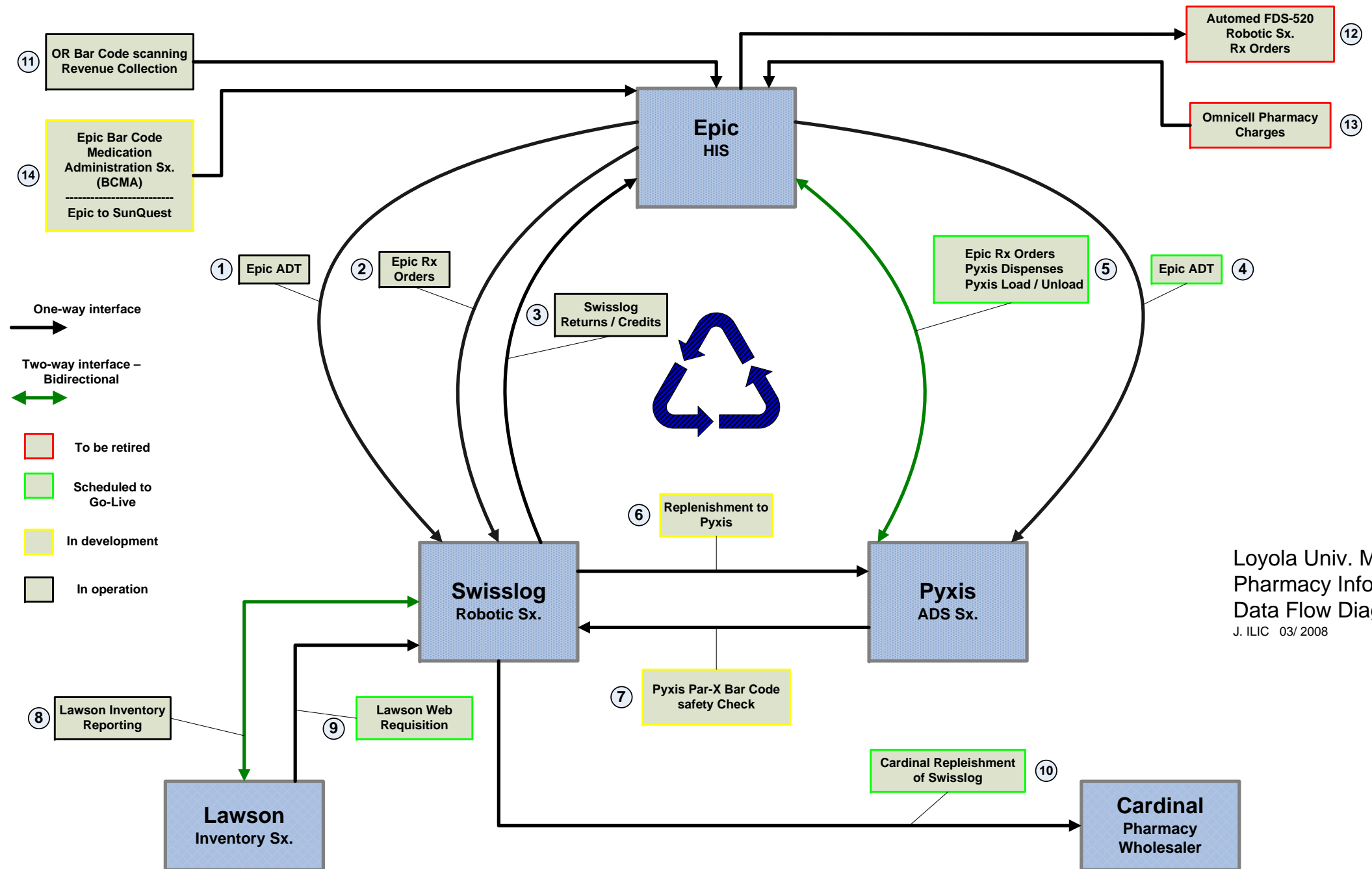
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Post-Test Questions

1. As presented, the robotic system can provide all of the following except:
  - a. packages tablets/capsules, vials, and syringes
  - b. provides 2-D barcode for bedside point of care (BPOC)
  - c. design-specific packaging for automated dispensing cabinets (ADC)
  - d. robotic delivered medication to nursing units
  
2. Which of the following are reasons that the presented robotic system enhances patient safety:
  - a. provides 2-D barcodes on all packaged medication for bedside scanning
  - b. "NDC Association" process eliminates packaging errors
  - c. patient-specific medication orders sent directly to robotic system from hospital information system
  - d. all of the above