Bridging the gap:
How Nebraska Medical joined clinical and supply chain forces to drive business success.

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Welcome

- Challenges faced cross-functionally and the direct impact to clinical and supply chain teams
- Benefits of evolving the supply chain to a patient-driven supply network
- Leveraging automation and data to achieve stakeholder alignment
About Cardinal Health

- LOGISTICS
- PRODUCT
- BUSINESS
- PATIENT

We're in over three-quarters of U.S. hospitals.

#1

Recognized by Gartner as #1 for supply chain innovation
About Nebraska Medicine

- 100 Great Hospitals in America
- Top 10 quality academic health systems
- Nearly 150 years of experience
- 665 beds
- 1000 physicians
- 40 specialty and primary care clinics

Data from Nebraskamed.com
Health systems in transition

Quality of Care

Nursing shortage

Satisfaction & Safety

Across the continuum of care
Clinicians are spending less time with patients

Nearly 20% of physician & nurses’ workweek is spent on supply chain management.

Sources
1. About SERMO/Cardinal Health Supply Chain Survey
   This study was fielded Oct. 19 - Nov. 4, 2016, using an online survey methodology. The samples were drawn from SERMO’s Online Respondent Panel of Health Care Providers, which includes over 600,000 medical professionals in the United States. The study included 403 respondents total, including frontline HCPs in hospitals (n=201), service line leaders in hospitals (n=100), and hospital/supply chain administrators (n=102). All survey data on file at Cardinal Health.
Nebraska’s Inventory management challenges

1. Current automated solution was not delivering key insights and reporting

2. Too many touch points in clinical workflow resulted in compliance issues

3. Difficulty managing par levels and expired products
"When you have a patient on the table, it’s very hard to provide quality care when you don’t have your product, don’t know if it’s on the shelf or where it is."

- Morgan Shradar, BSN, RN
Nebraska Medicine
Polling question

What interferes with your ability to provide quality patient care?

A. Staffing shortages
B. Fluctuating supply levels
C. Inefficient workflows
D. Communication gaps between key stakeholders
Tools for success

- Build internal alignment
- Empower clinicians to make decisions
- Identify strong partner
Steps to reduce clinicians time on supply chain
## Best practices for managing inventory

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<th>Method</th>
<th>Reason</th>
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| **Kanban** | • Best for low-cost commodity products where unit tracking unnecessary  
• Increases service levels with general par optimization; reduces labor |
| **Barcode** | • Best for low-cost products and vendor stock where unit tracking is required  
• Acceptable when only minimal touch-points are required |
| **RFID** | • Best for medium-to-high cost or critically managed products  
• Enables automated real-time cycle-counts and can track lot, serial, expiration data |

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<th>Enablers</th>
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| **Point-of-Use** | • Capturing product utilization tied to patients, procedures and staff  
• Must seamlessly adapt to workflow in surgical and procedural areas |
| **Interfaces** | • MMIS enables product sync, cost intelligence, ordering and tracking improvements  
• EMR enables ADT synch, charge capture automation, and cost-per-case intelligence |
| **Dashboards & Analytics** | • Provides real-time actionable alerts for expiration, recall, ordering needs, etc.  
• Analytics can automate par optimization, contract and purchasing optimization, standardization opportunities, etc. |
Polling question

What is your biggest concern to adding technology to clinical and supply chain workflows?

A. Investment
B. Lack of stakeholder support
C. Teams not adapting and embracing new processes
D. Uncertainty of outcome and benefits
RFID was a game changer

1. Visibility at a global level
2. Grab and go workflow
3. Eliminated cycle counting
4. Data and insights at your fingertips
The results

100% savings in

Consistency with clinical workflows
Elimination of manual counting
Removal of expired products on shelves
Elimination of rush shipping from stockouts
Dashboards with real-time alerts

Clinical Alerts

**Attention! You have clinical alerts**
- 5 Expired Items

Products At Risk
- 34 Missing more than 1 day
- 0 Expiring in 7 days
- 36 Significantly above Par

Product Unavailability
- 0 Orders older than 3 Days
- 0 Orders without PO
- 166 Out of stock products
- 15 Items that have been in transit for more than 1 business day

Orders
- 126 Suggested items from 7 suppliers
- 23 Orders to place for used products

Find Items
- 128 Received but not read into inventory

My Catalog Setup
- 5 Products on hand that need to be added to My Catalog
- 5 Products on hand that need to be added to My Catalog
- 37 Products in My Catalog without a Dept Par
- 823 Products in My Catalog without a Cost

Implant Registration
- 1 Received items without an Implant Registration Card
Advanced analytics enable strategic decisions
A complete inventory management system

Store
RFID-enabled products are stored in Smart Cabinets or other convenient locations

Use
Clinicians retrieve products and wave them at the EMR interfaced point of use stations to link items to procedures

Replenish
Interfaces with MMIS systems to gathering consumption data while triggering reorders

Analyze and optimize
Users get powerful real-time analytics for full visibility and improved decision-making
Wins for Nebraska Medicine

• Confidence in supply visibility and levels
• Removed alignment struggles among stakeholders
• Strengthened communication
• Data available 24/7

Simplified workflows resulting in more time spent on patient care.
Q&A

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