Welcome

We will begin shortly at 4:00pm MT
Lisa Spruce, DNP RN ACNP CNOR CNS-CP ACNS FAAN

Director of Evidence-Based Perioperative Practice
Association of periOperative Registered Nurses (AORN)
Hot Topic Virtual Forum: Agenda

**MT Time Zone**

4:00pm – 4:05pm – Opening with Lisa Spruce
4:45pm – 4:50pm – Introduce Owens & Minor Representatives
4:50pm – 5:10pm – Owens & Minor Presentation
5:10pm - 5:30pm – Audience Q&A
Earning Contact Hours
Only for Live Attendees on 12/9

To earn contact hours, you need to attend the entire session. You will receive an email after the event (within 24-48 hrs.) with a link to evaluate and receive credit.

Note: Contact Hours offered to live attendees on December 9th. Contact Hours are not offered to OnDemand viewers after the live event.
Submit your Questions
Open the Chat box and ask our speakers your questions
We will have Q&A time at the end
Erin Kyle, DNP RN CNOR NEA-BC

Editor in Chief, Guidelines for Perioperative Practice
Association of periOperative Registered Nurses (AORN)
OR Efficiency – Less Waste, More Green

The relationship with patient safety
Objectives

Discuss the relationship between OR efficiency, waste reduction, and patient safety

Discuss the relationship between OR efficiency, waste reduction, and environmental responsibility
What is Efficiency?

- Not rushing
- Not doing more with less
Efficiency is

• Being *prepared* and *well-coordinated*

• Doing *better* with *more* because of *less waste*
### How is efficiency measured?

<table>
<thead>
<tr>
<th>Metric</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum budget variance</td>
<td></td>
</tr>
<tr>
<td>On time starts</td>
<td></td>
</tr>
<tr>
<td>Rapid turnovers</td>
<td></td>
</tr>
<tr>
<td>Few cancellations</td>
<td></td>
</tr>
<tr>
<td>No delays</td>
<td></td>
</tr>
<tr>
<td>No surprises for the patient</td>
<td></td>
</tr>
<tr>
<td>Smooth-flowing workday</td>
<td></td>
</tr>
<tr>
<td>Safe environment</td>
<td></td>
</tr>
<tr>
<td>Optimal patient outcomes</td>
<td></td>
</tr>
</tbody>
</table>
Efficiency Metrics

First case on time

Preference card accuracy

OR turnover

Patient Safety

Wasted supplies

Supply cost per case

Block utilization

Supply cost per case
The Perfect Day in the OR
Efficiency is

• Being prepared and well-coordinated

• Doing better with more because of less waste
What do efficiency & waste reduction have to do with patient safety & environmental responsibility?
Keeping safety at the center

Patient Safety

- First case on time
- OR turnover
- Wasted supplies
- Supply cost per case
- Preference card accuracy
- Block utilization

Supply cost per case

Preference card accuracy

Wasted supplies

Block utilization

OR turnover

First case on time
• Eliminate waste related to broken and fragmented processes

• Power to improve the process
Common delay causes

- Instrument set problems
- Preference card inaccuracy
- Scheduling (ie, case booking) errors
- Ineffective team communication
- Lost implants
- Equipment unavailable, not working
- Loaner sets are late
- “We can’t find the ___________”
Yes, but I can’t control all those things
• Focus on what you *can* do
• Handle the situation in the moment
• Use your influence to inform improvements when the dust settles
• Collaborative interdisciplinary teamwork – use the *5 Why’s*
Common delay causes

- Instrument set problems
- Preference card inaccuracy
- Scheduling (ie, case booking) errors
- Ineffective team communication
- Lost implants
- Equipment unavailable, not working
- “We can’t find the ___________”
- Loaner sets are late
OR Setup

Resources needed – the basics

• The right room
• Case cart with all the needed instruments and supplies
• The right (and functional) equipment
• The right personnel/team
• Effective communication processes
Preference Cards & Case Pulling

- Missing items
  - Takes a team member out of the OR to retrieve
  - OR door openings – increased SSI risk
  - What if it’s not there?

- Excess items
  - In the OR and exposed to potential contaminants
  - Packaging damage could lead to contamination with repeated handling
Environmental Cleaning

- Patient
- Every patient, if used
- Enhanced
- If soiled
Reusable Surgical Instruments

- Too many
- Not enough
- Just right

Every step is essential for effective instrument processing
- Point of use treatment
- Transport
- Decontamination
- Inspection & testing
- Packaging
- Sterilization
Figure 1. Outcome space showing the categories that perioperative nurses identified when describing their understanding of perioperative nursing expertise.
What do efficiency and waste reduction have to do with environmental responsibility?
Patient Safety into the Future

- Cannot separate the environment from patient outcomes
- Resource conservation
- Environmental Responsibility means healthier environments for all people
AORN Position Statement on Environmental Responsibility

- Ethical and professional responsibility
- Interdisciplinary team
- Align with United Nations Sustainable Development Goals
- Education for health care professionals
- Align with regulations and support optimal clinical outcomes
How can perioperative teams engage in environmental responsibility?

• Conserve natural resources
• Reduce waste
• Reduce hazardous material exposure
Conserve Natural Resources

- LCA when evaluating products for purchase
- Select reusable options
- Advocate for energy-efficient equipment
- Participate in recycling programs
- Consider telehealth for preoperative and pre-anesthesia visits when no other testing is needed
Reduce Waste

• Advocate for environmentally preferable purchasing
• Open only necessary supplies, devices, medications, and implants to the sterile field
• Regularly review packs, instrument sets, preference cards
• Avoid supply overages
• Recycle or return unused items to the vendor
Reduce hazardous material exposure

- Purchase items that do not contain toxins
- Select least toxic cleaning agents, sterilization processes
- Educate about global warming potential of anesthesia gasses
Key Takeaways

Make patient safety a prominent improvement metric

Reframe how you think about efficiency and waste reduction

Use your power as a perioperative RN to improve processes

Make waste reduction a priority

Measure what matters!

Do better with more because of less waste – safely!

Ask “why?” to get to the root cause

Environmental responsibility cannot be separated from health outcomes
Amid the efforts to contain costs and improve efficiency, it is important for the team to know and understand that patient safety is the number one priority, and critical thinking and good judgment must prevail.

PATRICIA VASSELL, DNP, MBA, BSN, RN, CNOR
References & Resources

- Guideline for Team Communication
- Guideline for Environmental Cleaning
- Guideline for Product Evaluation
- Guideline for Cleaning and Care of Surgical Instruments
- Guideline for Sterilization Packaging Systems
- Guideline for Sterilization
Lisa Spruce, DNP RN ACNP CNOR CNS-CP ACNS FAAN
Director of Evidence-Based Perioperative Practice
Association of periOperative Registered Nurses (AORN)
Welcome

John Raab
National Director, Perioperative Service (S.E.A.L. Team Leader)

Vicky Lyle
Vice President, Industry Associations
AORN Hot Topic

December 9, 2020
**Global Solutions**

**OM Distribution**
- Distribution of medical and surgical supplies, including branded products purchased from manufacturers and proprietary products, to healthcare providers

**Byram Healthcare**
- Direct to patient and home health agency delivery of disposable medical supplies supporting chronic conditions in the fast-growing home healthcare market. Byram is third party insurer reimbursed
- Real-time inventory management dashboard

**Qsight**
- End-to-end perpetual inventory management system

**Surgitrack**
- Unitized delivery system

**PandacSM**
- O.R. inventory management system

**Global Products**

**Halyard**
- Medical supplies and solutions for the prevention of healthcare-associated infections (including PPE) across the acute and alternate site channels
- Custom surgical procedure trays and kits

**Medichoice**
- Brand of medical and surgical products and equipment
- Custom procedure trays & minor procedure kits

**How We Go to Market -- Publicly Traded Company OMI**
North American Manufacturing Footprint a Key Differentiator

Unique ability to quickly deliver critical product to the frontlines

Our value chain delivers benefits to our customers:

✓ We control the materials, design, strict quality standards, and product specifications in our own facilities, with our own Teammates
✓ We self-manufacture most of our proprietary branded products, many in the Americas
✓ We have strategically-located distribution centers in North America for rapid deployment
✓ We enable our customers to continue the critical work of caring for patients!
SURGI TRACK®
Improving Business Processes Involved to Support Surgery
SurgiTrack Is Distinguished by Four Core Traits

01 Procedure Management
02 Product Management
03 Productivity Management
04 Information Management

AORN HOT TOPIC VIRTUAL FORUM
OR Efficiency: Less Waste, More Green
### Case Study

#### Facility A
**18,555 Annual Case Volume**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Week Study</td>
<td>Targeted</td>
</tr>
<tr>
<td>6 Service Lines</td>
<td>5,674 Study Vol</td>
</tr>
<tr>
<td>19 Procedure types</td>
<td>30% percent of total</td>
</tr>
<tr>
<td>144 Case observed</td>
<td>$7.72 - $24.23</td>
</tr>
</tbody>
</table>

#### Facility B
**7,500 Annual Case Volume**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Week Study</td>
<td>Full Schedule</td>
</tr>
<tr>
<td>8 Service Lines</td>
<td>1,905 Study Vol</td>
</tr>
<tr>
<td>28 Procedure types</td>
<td>26% percent of total</td>
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<tr>
<td>130 Case observed</td>
<td>$29.21</td>
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The Approach

- A Specific Procedure
- A Specific Service Line
- A Specific Product /Group
- A Specific Surgeon
The Key Factors

Quantify the type & volume & frequency
  • Operational Waste
  • Process, Technique  Surgical Waste

Calculate the Impact
  • Financial
  • Productivity
  • Patient Safety

Identify the source
  • Procedure
  • CPT / Single Sterile
The Findings

Consumption Breakdown
- Total Products
- 53% Consumed
- 35% Returned
- 12% Wasted

Division of Labor
- 58% Non-Clinical
- 42% Clinical
The Results

Product Wasted
- Product ID
- Frequency of waste
- $ value

<table>
<thead>
<tr>
<th>MOST FREQUENTLY WASTED SUPPLIES</th>
<th># OF CASES IN WHICH PRODUCT WAS WASTED</th>
<th>TOTAL COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Back Table Drape</td>
<td>24</td>
<td>$300.00</td>
</tr>
<tr>
<td>Proximate Skin Staples</td>
<td>21</td>
<td>$95.16</td>
</tr>
<tr>
<td>Back Table Drape</td>
<td>20</td>
<td>$19.53</td>
</tr>
<tr>
<td>Glove 7.5</td>
<td>19</td>
<td>$20.86</td>
</tr>
<tr>
<td>0 Vicryl J&amp;13D</td>
<td>15</td>
<td>$144.00</td>
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## Case Study Results

### Facility A

**18,555 Annual Case Volume**

<table>
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<td>35%</td>
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<tr>
<td>Product Waste</td>
<td>12%</td>
</tr>
<tr>
<td>Annual Waste</td>
<td>$467,635</td>
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### Facility B

**7,500 Annual Case Volume**

<table>
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<tr>
<th>FULL SCHEDULE STUDY</th>
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<td>55.5%</td>
</tr>
<tr>
<td>Product Returned</td>
<td>34.5%</td>
</tr>
<tr>
<td>Product Waste</td>
<td>10%</td>
</tr>
<tr>
<td>Annual Waste</td>
<td>$219,100</td>
</tr>
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</table>
How Do I Learn More?

• To learn how Owens & Minor can partner with you to solve your unique challenges and take your supply chain to new levels of efficiency, contact us at omlearnmore@owens-minor.com or 1-866-935-0798.

• To contact our speakers:

  John Raab  
  National Director, Perioperative Service (S.E.A.L. Team Leader)  
  john.raab@owens-minor.com

  Vicky Lyle  
  Vice President, Industry Associations  
  vicky.lyle@owens-minor.com
Thank you to

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National Director, Perioperative Service (S.E.A.L. Team Leader)

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Lisa Spruce, DNP RN ACNP CNOR CNS-CP ACNS FAAN
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Submit your Questions

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Request a copy of today’s presentations by contacting meetingsdept@aorn.org
Thank you for attending today!

Contact our Hot Topic Presenters:
- Erin Kyle, DNP, RN, CNOR, NEA-BC
  Editor in Chief, Guidelines for AORN ekyle@aorn.org
- John Raab
  National Director, Perioperative Service (S.E.A.L. Team Leader) John.Raab@owens-minor.com
- Vicky Lyle
  Vice President, Industry Associations Vicky.Lyle@owens-minor.com

More Scheduled Hot Topic Webinars here: https://www.aorn.org/events/hot-topics
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