

# (Management Case Study) Formulary Development for an Off-Site Freestanding Emergency Department (FSED)

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#### **Disclosures**

All planners, presenters, reviewers, and ASHP staff of this session report no financial relationships relevant to this activity.



# **Learning Objectives**

- Describe the freestanding emergency department model at OhioHealth.
- Discuss our comprehensive approach to formulary development.
- Explain lessons learned through this project that could be applied to other facilities.



- (True or False) In OhioHealth's 8-bed freestanding emergency departments, pharmacy support is virtual
- 2. Which of the following strategies were included in the comprehensive approach to formulary development?
  - a. Leveraging 503B outsourcing facilities
  - b. Review of emergency medicine physician preference lists in the EHR
  - c. Examination of drug strength and dosage form
  - d. All of the above
- 3. (True or False) Utilizing a thoughtful multidisciplinary approach to remote facility formulary creation can lead to safe and cost effective care

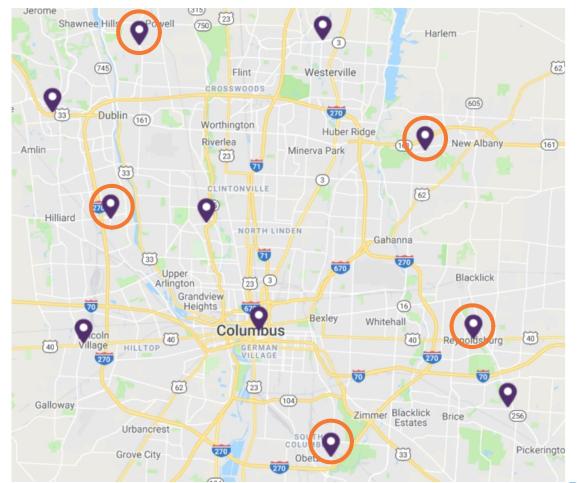


# **Background**

- 8-bed emergency departments
- On-site staff:
  - 1 provider
  - 2 registered nurses
  - 1 radiology technician
  - 1 registration/patient safety personnel
- Remainder of services are virtual

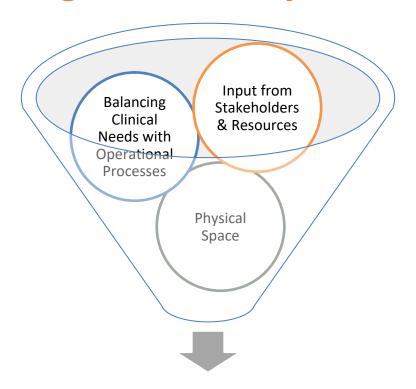








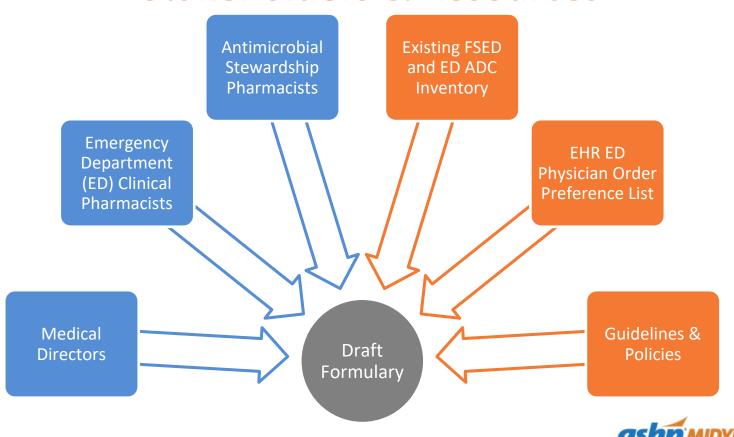
# **Determining a Formulary for Five FSEDs**



A Finalized Formulary



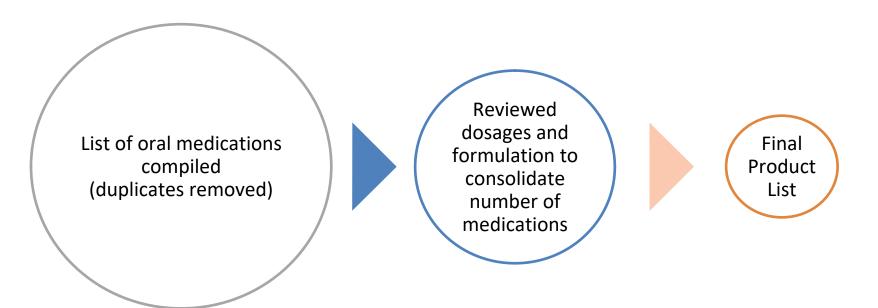
### **Stakeholders & Resources**



# **Example - Medical Director Prioritization**

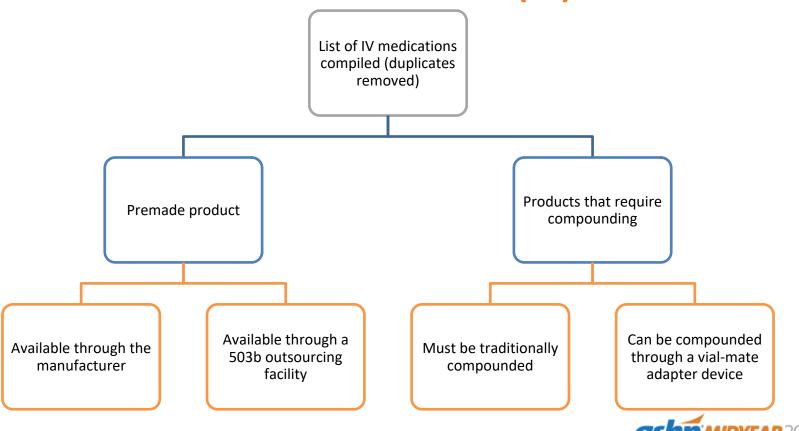


#### **Product Selection – Oral Medications**





## **Product Selection – Intravenous (IV) Medications**



# **Physical Storage Space Considerations**

- All medications stored in automated dispensing cabinet (ADC)
- Utilized projected volumes for initial PAR development
- 2 deliveries/site/week
  - Minimal FTE support in LEAN environment





# **Challenges to Overcome: Extended Dating**

- Low volume facilities can lead to increased waste from short dated products
- Vial-mate assembly on-site
  - Individually packed IV solution bags
  - Vial and IV bag stored separately in ADC
- Concerns:
  - How does a provider order in the EHR to support operation?
  - Ability for ADC to dispense multiple components per order?



piperacillin-tazobactam (ZOSYN) 4.5 g in sodium chloride (NS) 0.9% 100 mL IVPB (vialmate) (FSED)



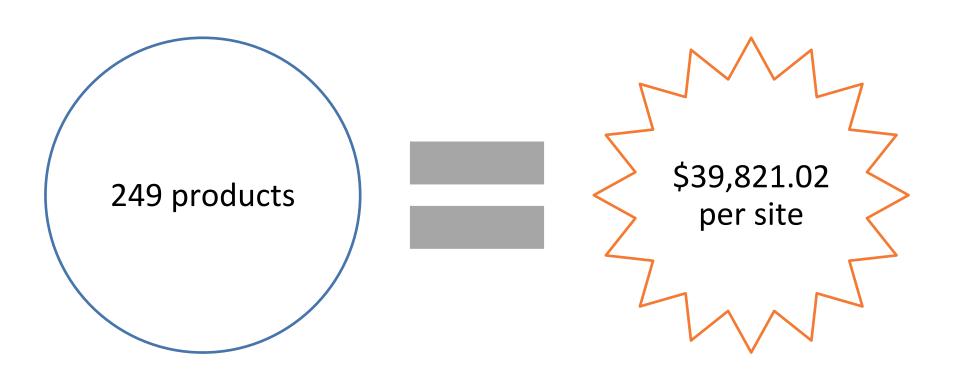
# **Challenges to Overcome: Nurse Compounding**

- Limited number of medications that require compounding
- Pharmacy-led on-site training during each golive
- Virtual health technology for high risk high alert (HRHA) compounds





# **End Result of Initial Formulary**





#### Where are we now?

- The drug inventory at each site is assessed at minimum every
   90 days for additions and removals
  - In Summer 2018, our PAR assessment led to \$8,757.27 in one time savings
- Living formulary
  - Pharmacy holds a lot of autonomy in the decision making
  - Controversial items come to medical directors for approval
    - Example: Prothrombin complex concentrate and idarucizumab



(True or False)

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(True or False)

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**TRUE** 



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(True or False)

Utilizing a thoughtful multidisciplinary approach to remote facility formulary creation can lead to safe and cost effective care.



(True or False)

Utilizing a thoughtful multidisciplinary approach to remote facility formulary creation can lead to safe and cost effective care.

**TRUE** 



#### **KEY TAKEAWAYS**

#### 1) ENGAGE ALL MEMBERS OF THE HEALTHCARE TEAM

A comprehensive approach to formulary management can lead to cost containment while maintaining high quality patient care

#### 2) LEVERAGE INNOVATIVE STRATEGIES

Challenge your technology to go outside of existing processes and build something new

#### 3) COST IS NOT THE ONLY DECISION POINT

High dollar medications often have an appropriate clinical use even in a low acuity setting

