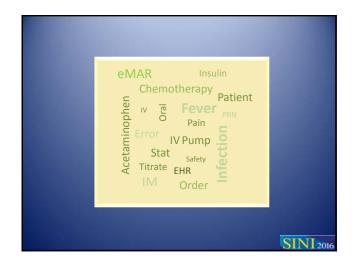
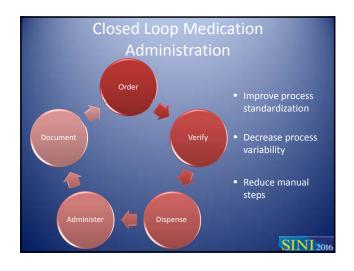


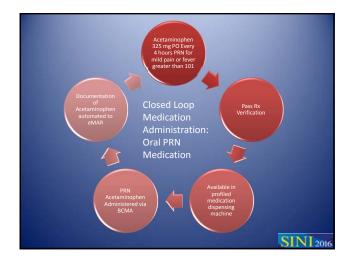
# Objectives Define closed loop medication delivery system and specific technological components currently being used Acquire a general overview of smart pump interoperability Identify proposed benefits of smart pump interoperability Explore potential risks associated with smart pump interoperability

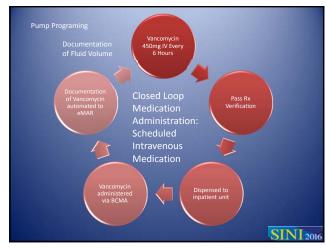














# Errors Associated with Smart Infusion Pumps

- Selecting the wrong library
- Overriding soft alerts
- Non-intercepted errors
- Administering the drug to the incorrect patient
- Infusing the incorrect drug

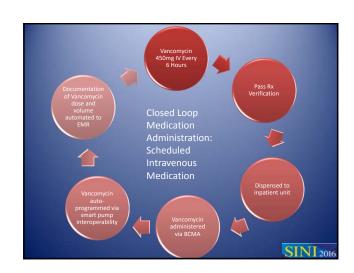
SINI 2016

# ? Smart Pump Interoperability ?

Communication between the smart intravenous pump and the hospitals information system which allows for auto-programming of infusion parameters from the corresponding EMR to the smart pump using the health information system's BCMA system

Carefusion





## **Potential Benefits**

- Decrease the number of intravenous preventable medication errors
- Increase healthcare quality
- Increase RN productivity





### Potential Risks

- System failure
- Design flaws
- Bypassing system
- Introduction of new errors



## Pearls of Success

- Reliable and secure wireless connectivity
- CPOE orders containing all of the necessary infusion parameters
- BCMA adherence
- Use of eMAR
- Reliable way for the pump to associate to the patient and medication order

AAMIs Healthcare and Safety Institute , 2012



