

Interoperability Scenarios

Care Theme: Device Connectivity Throughout the Healthcare Spectrum

Act 11 - Device Interoperability for Patient Safety

Scenario Primary Goal: To demonstrate the benefits of device connectivity to reduce medical errors and to improve the clinician's ability to prioritize and address alarms sent to specific user(s).

Key Points

This scenario demonstrates the following key characteristics/feature/benefits:

- Caregiver effectiveness is increased with more, more accurate, and more available data
- Automating the delivery of alarms and alerts to caregivers makes a significant increase in efficiency and safety.
- Waveform communications supplement the alarm with important clinical information. Medical equipment alerts help prevent avoidable device failure and prevent use of defective / questionable devices / systems.
- Standards-based messages between devices and systems help avoid medical errors.

Meaningful Use Relevance

MU Objective 1: Improving Quality, Safety, Efficiency and Reducing Health Disparities.

MU Objective 3: Improving Care Coordination.

Clinical Workflow:

This scenario demonstrates care coordination as evidenced by movement of patient data from home to the physician office to the hospital and then to the physicians and specialists after discharge. Data is immediately available to all who need it. This benefit is demonstrated, for example, in patient transfers within the hospital as well as providing faster and safer care for a patient that presents in the ED.

Care Scenario Steps	Care Setting	IHE Profiles	Title
<p>11-1: 5 Rights Medication Safety</p> <p>Clinician selects order in EMR or other IOP, scans drug, scans device, scans patient; order is sent from IOP to IOC and then to pump; nurse confirms pump parameters, starts infusion. Additional sixth right: the right pump.</p>	Most care settings	<p>DEC (PCD)</p> <p>PIV (PCD)</p> <p>RTM (PCD)</p>	<p>Device Enterprise Communication</p> <p>Point-of-care Infusion Verification</p> <p>Rosetta Terminology Mapping</p>
<p>11-2: Workflow Event (Patient workflow system – demonstrates alert issued when documentation in preparation for surgery is not completed at the appropriate time.</p> <p>Includes description/demonstration of New Directions alarm/alert capability.</p>	Most care settings	<p>ACM (PCD)</p> <p>RTM (PCD)</p>	<p>Alarm Communication Management</p> <p>Rosetta Terminology Mapping</p>
<p>11-3: Device Operation Alarm</p> <p>IV Pump Door Open, Occlusion, Bed Rail or Other</p>	Most care settings	<p>ACM (PCD)</p> <p>RTM (PCD)</p>	<p>Alarm Communication Management</p> <p>Rosetta Terminology Mapping</p>
<p>11.4: Physiologic Parameter Alarm</p>	Most care settings	<p>ACM (PCD)</p> <p>DEC (PCD)</p> <p>RTM (PCD)</p>	<p>Alarm Communication Management</p> <p>Device Enterprise Communication</p> <p>Rosetta Terminology Mapping</p>
<p>11-5: Additional PCD Patient Safety Initiatives:</p> <ol style="list-style-type: none"> Waveform Communication Management Medical Equipment Management 	Most care settings	<p>WCM (PCD)</p> <p>MEM (PCD)</p> <p>RTM (PCD)</p>	<p>Waveform Communication Management</p> <p>Medical Equipment Management</p> <p>Rosetta Terminology Mapping</p>