ARRA/Hi Tech Relevance: Coordination of care as evidenced continuous acquisition of patient medical data, alarm communication and medication administration safety throughout the enterprise.

Demonstration focus: The demonstration will use Patient Care Devices’ profiles to provide patient data, alarms and infusion pump medication safety immediately, everywhere needed, to improve patient care, safety, and workflow for caregivers.

High level / main characters: This scenario features clinical event device alarms to caregivers along with the physiologic and device data for a specific encounter in the acute care setting.

Use Case Primary Goal: To demonstrate the ability for nurses and others to acquire and effectively respond to alarms through phones and other devices and to proactively and efficiently manage a patient’s well being through the use of medical devices networked within an acute care HIS.

Key points

- Albert Smith is dropped off at the ED entrance. Patient is admitted and placed on medical devices; data appears on EMR.
- Albert is taken to the OR for surgery on his shattered arm. Anesthesia system data and surgical procedure checks are shown on OR dashboard and patient data is available throughout the enterprise including the ICU on the EMR. This permits efficient and effective care and preparation for the arrival of the patient at the next step of care.
- Ventilator alarms, processed by the alarm manager, are sent to clinician’s phone. Clinician responds. Later, alarms from a pump and bed are demonstrated.
- Improved medication safety using the PCD PIV profile is described. PIV provides electronic support for the five rights.
- Albert’s implanted device is managed during his care

Clinical Workflow:

Albert Smith is an male with known heart disease who presents with a surgical emergency. He is admitted to the ED and then to the OR.

He undergoes surgery and taken from the recovery room to the ICU. Several different alarms are provided to the caregiver’s phone. His pacemaker is checked and managed at various points in his care. Increased patient safety is achieved through use of the Bar Code Medication Administration system communicating with pumps and nursing staff.

Find more information on interoperability for Patient Care Devices at http://www.ihe.net/Technical_Framework/index.cfm#pcd.