

HIMSS[®] 16

Conference & Exhibition

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TRANSFORMING
HEALTH THROUGH IT



The Path to Infusion Device Connectivity to the EMR

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DISCLAIMER: The views and opinions expressed in this presentation are those of the author and do not necessarily represent official policy or position of HIMSS.

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Agenda

- + Introduction
- + Project Overview
- + Benefits Review
- + Q&A

Introduction

+ SCL Health

+ St. Vincent Healthcare

SCL Health System

- SCL Health is a faith-based, nonprofit healthcare organization
 - Providing comprehensive, coordinated care in Colorado, Kansas, and Montana
- SCL Health was founded by the Sisters of Charity of Leavenworth, who opened their first hospital in 1864.
- **SCL Health includes:**
 - 9 hospitals
 - 190+ clinics
 - Home health care
 - Hospice
 - Mental Health Care
 - Safety Net Services

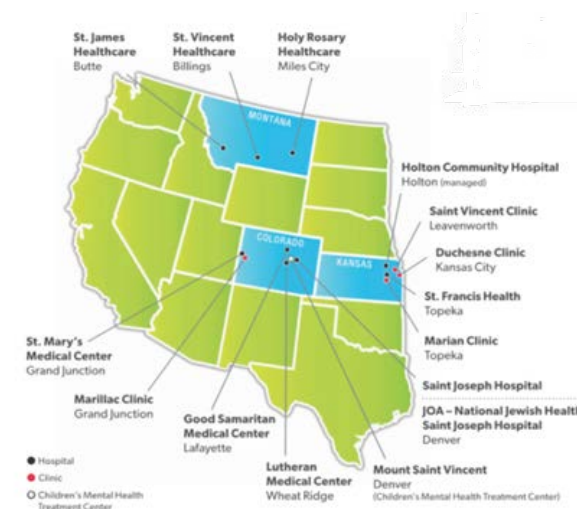
Stats*

Full-time Equivalents	12,205
Medical Staff	5116
Total Inpatient Admissions	84,773
Emergency Visits	283,199
Available Beds**	1,758
Non-acute Care Beds***	204
Births	14,388
Total Community Benefit	\$226.7 million

*Statistics based on year-end December 2013 results.

**Available beds are beds in service and available for all hospital nursing units (excluding bassinets).

***Non-acute beds include beds used for nursing home care, mental health treatment, and other such services.



St. Vincent Healthcare

- **Not-for-profit founded in 1898 in Billings, Montana**
 - Licensed for 286 inpatient beds
 - 30 clinics led by the local community
- **Over 2,100 employees (>550 medical staff)**
- **Serves 400,000+ patients from a four state area**
 - Inpatient – 12,240 admissions
 - Outpatient – 80,686 hospital visits and 311,454 clinic visits
- **Nationally recognized Cardiology, Neurosciences, Stroke Care, Pediatrics, and Orthopedics**
 - Level II Trauma Center
 - Level III NICU and PICU



St. Vincent Healthcare's Background

- **Infusion Devices**

- Alaris customer since 2009
- 361 PCUs - Model 8015, 497 LVPs and 55 Syringes
- Project required software upgrade to all devices

- **HIT Vendor**

- Epic customer since November 2011 at SVH; system since 2003
- Will be on Epic 2014; live with 2012 at go-live of interop

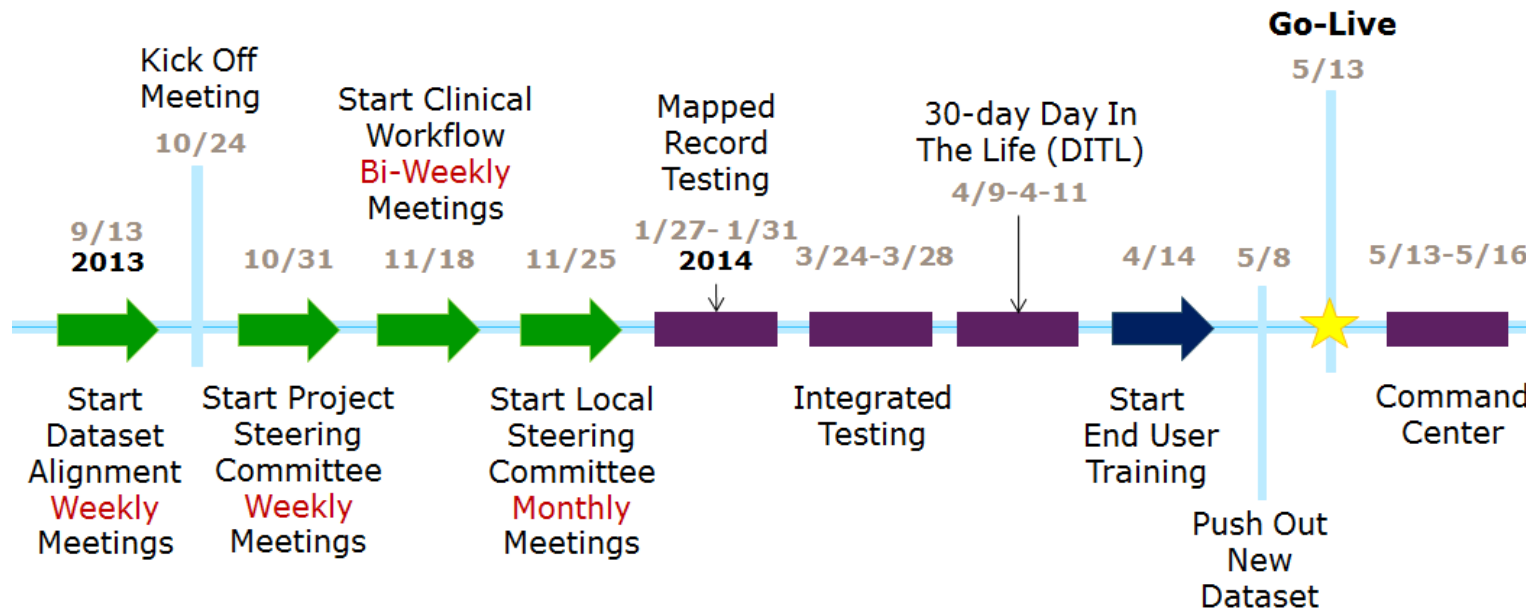
- **Entered into a “Limited Commercial Release” agreement with vendors (early adopter partner site)**

- 2nd hospital in US to achieve bi-directional interoperability between Epic and Alaris
- 1st hospital in US to go house-wide with Epic and Alaris (“Big Bang” approach)

Project Overview

- + Timeline
- + Project Objectives and Scope
- + Project Resources
- + Key Lessons Learned

Project Timeline



201 Days from Project Kick-Off to Go-Live

Project Objectives and Scope

- **Objectives:**
 - Improve patient safety
 - Improve medication administration documentation accuracy, timeliness, and efficiency
 - Increase revenue in outpatient areas
- **In-Scope Units:**
 - Whole-house deployment: Infusion Unit, Med/Surg, Neuro, ICU, Peds/PICU, Maternity, ED and Oncology
- **Out-of-Scope Units:**
 - Clinics and Procedural Areas
 - NICU in the interim due to nursing workflows
- **Project Timeline**
 - Project kickoff: October 2013
 - Project go-live: May 2014

Project Resources

- **Clinical Informatics Team**
- **Pharmacy Team (Local & System)**
 - Recommend dedicated resource, if possible
- **Clinical Education/Training (Local & System)**
- **Quality/Clinical Innovation (Local & System)**
- **Nurse Managers from each department**
- **Super User from each department**
 - Many departments provided two
- **IT team (Local & System)**
 - System Admins, EUA's, Network Engineers
 - Interfaces, Willow and Clin Doc
- **BioMed**
- **Project Manager**

Key Lessons Learned

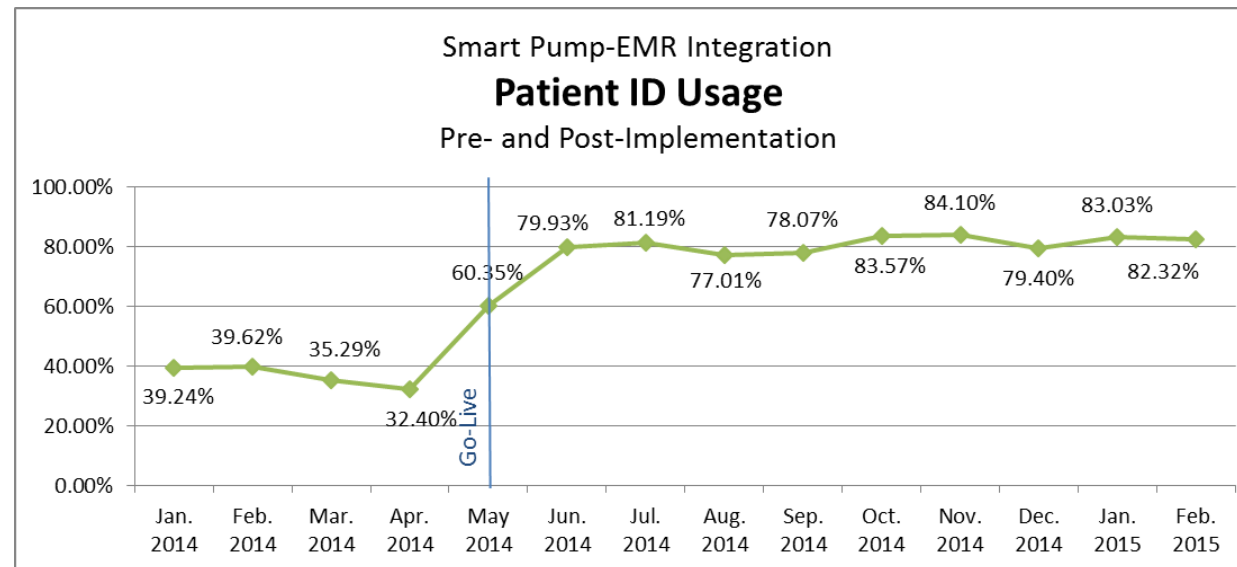
- **Data Set Build**
 - Profile consolidation
 - Single library for all sites
- **Patient Room Setup**
- **Nurse Workflow Variability**
 - Bolus doses/fluids
 - IV pump use
 - Intermittent antibiotics
- **Testing**
 - Drugs, ordering methods, and clinical scenarios
- **Education**
 - Resources for training (staff and Alaris equipment)

Benefits Review

+ Recently Observed Metrics

Recently Observed Metrics

- Named one of ASHP's **2015 Best Practice Award** winners this December 2015
- Patient ID compliance = **>80%**
 - Increase from 30-40% range

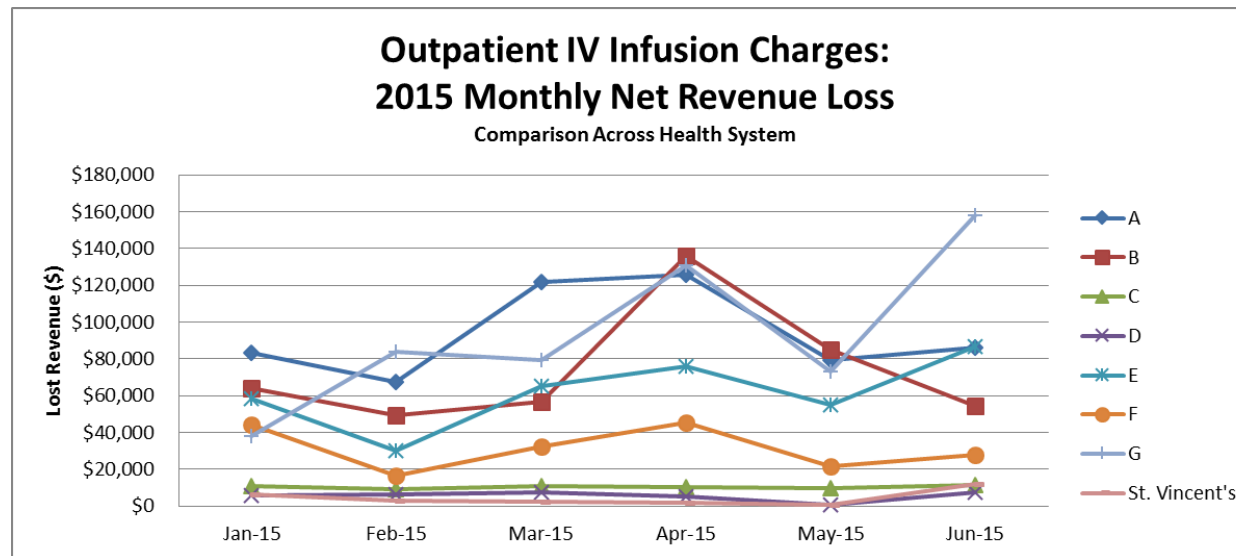


Recently Observed Metrics

- Overall adoption rate = **>70%**
 - Units most engaged in the 85-90% range
- Decrease in 'Basic' infusion programs
- Decrease in overall alerts
 - **22% decrease** in total monthly pump alerts
 - **33% decrease** in cancelled infusions
 - **19% decrease** in infusions requiring reprogramming
- Total Guardrails Suite usage **>93%**

Recently Observed Metrics

- Increase in outpatient IV start/stop time documentation compliance (40%)
 - Equates to **\$370k** in incremental revenue



Questions?

Thank You!