

Interruption Fatigue

What is the overall impact?







Today's Agenda



- Introduction
- Saint Joseph Hospital Overview
- Our Interruption Story:
 - The Challenge
 - The Strategy
 - Our Progress
- What's next?
- Questions

Today's Presenter





Kim Velez, BSN, RN

Clinical Informatics
Saint Joseph Hospital

Professional

BS in Psychology ED Nurse for 14 years

- Traveled from Miami to Anchorage
- Incl. Falmouth, Newton-Wellesley, and Beth Israel here in MA
- Over 10 years in Denver
- 6 years in Clinical Informatics

Personal

- Pride and Joy: Daniel, 2, & his sister due in January
- Love to travel, rock climb, hike, and ski
- Self admitted Apple fans

Saint Joseph Hospital



A clinically driven facility utilizing the most efficient technology

New Facility opened 12/13/14

- Denver, CO Hospital Altitude: 5280'
- 7 stories; 831,321 total sq. ft.
- \$623M hospital, intelligent architecture & green design
- 360 private beds
- Technical: 55.3 miles Ethernet; 588 Wireless AP's; 2600 connected clients; 3655 phone numbers; over 600 smart phones; 200 Vocera



Top National Rankings

"We're proud to provide our community quality health care that's ranked nationally in the **top 2 percent** for clinical excellence."

Top National Rankings

- America's 100 Best Hospitals by Healthgrades in 2015
- Distinguished Award for Clinical Excellence, 2013-2015
- Beacon Award for Excellence



Interruption Fatigue at Saint Joseph Hospital

Our Challenge

Saint Joseph.
HOSPITAL | SCL Health

- New Everything: Hospital, devices, workflows, alerts and alarms
- Goal: "Efficient and Safe"
 - New building with departmental neighborhoods
 - Design clinical workflows with new technologies
 - 3. Minimize disruption and interruptions
- When/How do we implement everything?





Enterprise Technologies



Medical Devices:

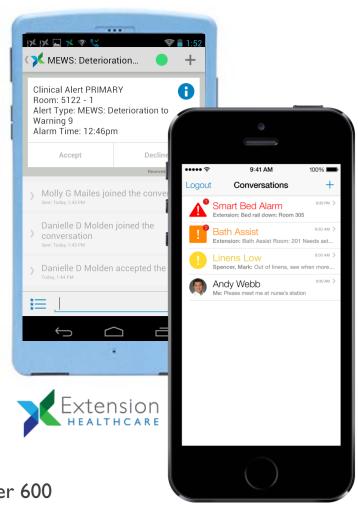
- Philips patient monitoring
- Alaris Pumps

Alerting Systems:

- Hill-Rom (Nurse Call and Assignments)
- Centrak (RTLS)
- EPIC EMR (ADT, Orders, Pharmacy)
- GetWell Networks (interactive Patient Care)
- Philips Guardian MEWS
- Sunquest (Laboratory)

Communication Systems:

- Extension Engage Mobile (Texting and Messaging) over 600
- Vocera (Alerting only) 200 badges



Enterprise Strategy:

Events, Responses and Clinical Communication





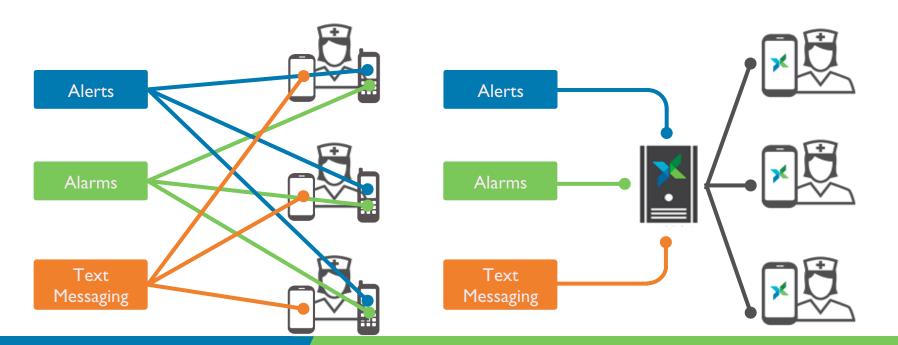


Coordinated Approach to Enterprise Interruptions Our Approach

- Prioritize the challenges
- Identify the Interruptions Alarms, Alerts, Texts, Verbal
- Keep it Simple... don't try to do too much too fast

Today's Situation

Extension's Approach



Implementation



Big Bang vs. Phased Approach

Phase I – Keep it Simple

- Communication Devices: From pagers and Cisco TO Android smart phones
- Simple text messaging: transport notifications

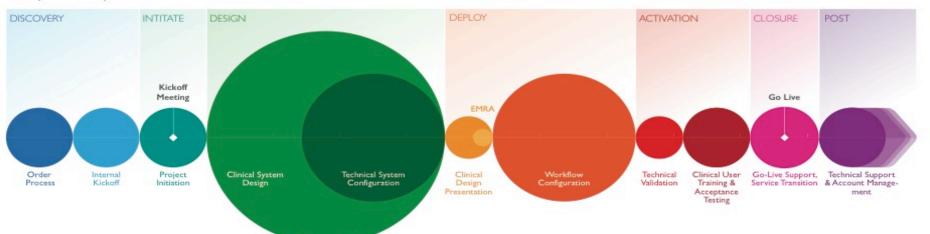
Phase 2 – Alert and Alarm Notification

Monitoring, Nurse Call, RTLS, GetWell, etc.

Phase 3 – Advanced Alerting

Additional Monitoring, Labs, Orders, IV Pumps

Project Implementation



Clinical Workflows



Current Focus: Refinement of Interruptions

- Simple texting
- Patient Monitoring in NICU
- ADT Demographics
- Telemetry messaging
- GetWell Network patient pain
- Philips Guardian MEWS alerts
- Intelligent Nurse Call Notification
 - I. 2-way with Hill-Rom and Extension
 - 2. Intentional delays (60 sec) Patient, Bath, Shower
 - 3. RTLS integration with nurse call upon entering room
 - 4. Physical Integration: Solid light to blinking light
 - 5. Mobile devices: Role based alerts



Overall, helping nurses prioritize the Interruption

Our Progress



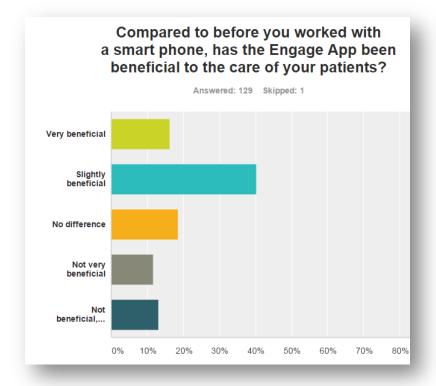
Progress Report



St. Joseph User Feedback

- Nursing survey results
- A story or two
- Overall Clinical Perception:

Making a positive impact!



HCAHPS

- Results vary... so many changes over last year
- Wait and see!

Extension Research



Nursing Interruptions

- Mixed Method Observational Study: Acute Care Focus
 - 5 nurses collecting data over 3 days (2 times)
 - 632 interruptions for all Roles (RN, C-NA, RNA)
- Most Interesting Results:
 - 85% were patient related
 - 63% were other caregivers (37% patient initiated)
 - 41% were verbal communications
 - 27% did not require action





Not every interruption is urgent.... "My Time Data"

Summary



Still much to do?

- New communication workflows:
 - Stat Orders
 - Monitor Technician Workflow
 - IV Pumps
 - Epic Care Team Assignments
 - Critical Lab Results
 - Other messaging options

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Advice

Not Simply Alarm Fatigue...

All Interruptions Require Review

Ongoing Process...

Must Continue to Review Workflow Opportunities







Thank You

Kim Velez, St. Joseph Hospital

www.ExtensionHealthcare.com

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