

AGENDA

- LEARNING OBJECTIVES
- SHARP HEALTHCARE
- WHY CAREAWARE CONNECT AT SHARP?
- PROJECT GOVERNANCE
- CAREAWARE IMPLEMENTATION
- LESSONS LEARNED
- IMPORTANT CONSIDERATIONS
- USAGE STATISTICS
- END USER FEEDBACK
- QUESTIONS





LEARNING OBJECTIVES

ATTENDEES WILL LEARN:

- 1. Describe how the end user and patient experience can improve workflow with a strong clinical communications platform.
- 2. Define how a clinical communications platform can be utilized within their organization.
- 3. Apply design principles and implementation strategies in the development of their own implementation plan, including in times of a pandemic.

SHARP HEALTHCARE

Treating people, not patients, and transforming the health care experience for our entire community

Initial Cerner deployment between 2008 and 2010

Included: CPOE, Clinical Documentation, Lab, Rad, Rx, ED BCMA (2011- 2012), Infusion Suite (2016 – 2017)

Largest private employer in San Diego:

- 18,000 Employees
- 2,700 affiliated Physician
- 3,000 volunteers

4 Acute-care Hospitals

* 1,822 licensed beds 3 Specialty Hospitals 3 Affiliated Medical Groups

SAN DIEGO
-based-



WHY CAREAWARE CONNECT AT SHARP?

To make our end users lives better



Replace Dolphins for BCMA, Bridge & Smart Pump Programming



Robust Wireless phones



Secure Clinical Communication



Foundation for future Innovation and Delivery

PROJECT GOVERNANCE

LEADERSHIP TEAM

Janet Hanley – Project Sponsor Crissy Basiliere – Project Sponsor Bob Marzullo – IT Oversight

Core Team:

Jonathan Anderson — IT Manager Josh Bayer — IT Project Manager Muhammad Chummun — Cerner PM Rick Lemoine — Physician Champion

ENTERPRISE STEERING COMMITTEE

Clinical

(All Site Representation)

WORKGROUP #1

Technical:
Infrastructure/Device

Device Deployment

 Device Deployment (pre-fielding, work packages, provisioning, etc.)

EDA

 Enterprise Device Architecture (Airwatch build, etc.)

- Application/System Setup
- Integration Testing
- iCommandBuild/Programming

Infrastructure Readiness (Servers, PBX Integration, Wireless Remediation, VoIP, etc.)

Infrastructure:

Server/Tele/NTS

WORKGROUP #2 WORKGROUP #3

Sharp Cerner IT
Application

- Current/Future State Review
- Workflow Evaluation
- Data Collection Workbook (DCW) build & Conduct Meetings
- Determine Necessary
 Device Counts

WORKGROUP #4

Physicians

- Engagement of Onsite Physicians
- Physician Champions
- Sign-up/App access
- Workflow Evaluation

WORKGROUP #5

Metrics & Reporting

 Define KPI's and Measures of Success

WORKGROUP #6

Education & Training

- Operational Strategy Transition
- Training Coordination
- Education Materials
- Communication Distribution as Needed





CAREAWARE IMPLEMENTATION OVERVIEW

CHULA VISTA CAMPUS

October 2019

1,522 active users

56 units/departments

585 Zebra TC52

183 resolved issues

METROPOLITAN CAMPUS

February 2021

3,928 active users

119 units/departments

1,131 Zebra TC52

410 resolved issues

Applications Deployed















CAREAWARE IMPLEMENTATION LESSONS LEARNED

Considerations:

- Training hurdles due to COVID-19 and staff burnout
- Physician engagement & adoption
- Education: Call transfers, 10 digit dialing (staff & patients), call forwarding to CareAware numbers
- Importance of StaffLink and clerk training: Production setup can occur ahead of time
- In-hand equipment available during Design gathering efforts
- Directory/Claimable Role build changed during go-live (COVID impacts)
- Downtime evaluation and standard procedures documentation
- Charging equipment footprint and space constraints

CAREAWARE IMPLEMENTATION LESSONS LEARNED

Successes:

- 1:1 Data Collection Workbook (DCW) breakout sessions, each unit & department was interviewed by
 Clinical Informatics
- Resource binder availability for each unit, including fliers and bulletins
- Camera Capture is a huge incentive and quick win especially for the Wound Team
- System Policy developed for hospital based smart phones and messaging
- Gained system build knowledge and deep understanding of solution
- Ample go-live support and seamless coordination effort

CAREAWARE IMPLEMENTATION: METROPOLITAN CAMPUS

- COVID-19 Required New Approach:
 - Super User & Clerk Training In Person
 - Super users prioritized for in person training
 - Adherence to social distancing guidelines and restrictions (6 feet apart, appropriate PPE, 10person room capacity)
 - End User Training Hybrid Model (Remote/Onsite)
 - Online training modules created and assigned to staff.
 - Onsite skills assessment stations knowledge testing/validation.
 - Go-Live Command Center Hybrid Model (Remote/Onsite)
 - Remote daily debrief huddles vs. In-Person
 - IT & Education staff remote/onsite dual command centers
 - Outside resources on boarded for support (out of staffing support not available due to COVID)



PHYSICIAN ADOPTION/ ENGAGEMENT

- Education Strategy:
 - One page flyer (paper/electronic)
 - Self Service education: 2 minute or less YouTube videos
 - Self Service setup included a website for access code
 - Coupling with PowerChart Touch (another mobile app) is a great strategy as well as marketing key wins such as Care Team visibility.
 - Provide just in time education & training as needed



Connect Messenger for Providers

Connect Messenger allows Providers to exchange PHI securely and quickly.

Key Features:



A SHC Organizational Directory with multi-attribute search



Easily tag and identify favorite contacts

Group chat with optional pre-defined



Send pictures as needed for visual representation



Make voice calls directly from messages and initiate message from PowerChart Touch



Immediate updates from the clinical team

Easily Download to a Personal Cellphone

The application can be downloaded from your local app store by searching "CareAware Connect Messenger"

- or -

scan the appropriate QR Code.

Download the application from your Apple/Google App store:





*Open the Camera app at your smartphone and look for the App Store prompt on your screen.

How to Start on a Sharp Desktop PC

Providers can start messaging today on a Sharp PC by searching for and logging into CareAware Connect Messenger.

Access the Cerner Mobile Application Website from a Sharp computer and recieve:

- one-time access code
- initial setup guide & instructions
 - timesaving tips/tricks

For assistance, contact your Clinical Informatics Team or the Physician Help Desk at 858-627-5202.

"All the information is there. The nurses text me all the info I need before I take an action. This saves me time."



"Some floor calls are merely FYIs that don't require action... and I simply reply "ok" and that saves me time." —Chula Vista Provider

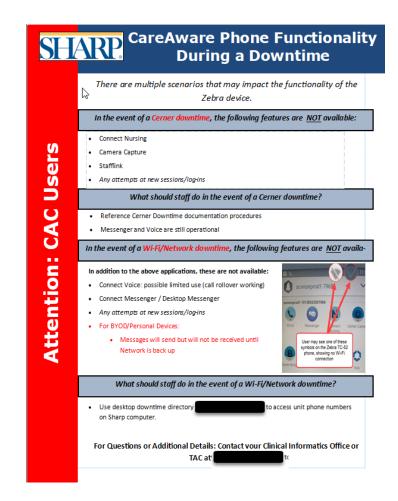
DOWNTIME PROCESS WORKOUT JOURNEY



-Fi	Client IF1 N N N N N N	Client Data IF1 Y Y Y	Site Single SOAD Y Y	Single SOAD Y	Site Dual SOAD	PBX	Cerner	Cloud -					CAMM
	N N N	Y	Y		Y	Y	Y	IF1	Y	IF1	IF1	Y	Y
	N N			Y	Y	Y	Y	Y	Y	Y	N	N	Y
			Y	Y	Y	Y	Y	N	Y	Y	N N	Y	N
		Y	Y Y	Y	Y Y	Y	Y	Y Y	Y	Y	N N	Y	Y
	N	Y	Y	Y	Y	Y	Y	Y Y	Y	Y	N N	Y	Y
-	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y
	N	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	Y
	N	N	Y	Y	N	Y	Y	Y	Y	Y	IF1	Y	Y
	N	N	Y	Y	N	Y	N	N	Y	Y	IF1	Y	Y
	IF1	IF1	Y	Y	Y	Y	IF1	IF1/IF10	Y	IF1	IF1	Y	IF10
	Y	Y	Y	Y	Y	Y	Y	IF1/IF10	Y	N	IF1	Y	IF10
	N	N	Y	Y	N	Y	N	N	Y	IF1	N	Y	Y
	Y	Y	Y	Y	y q	Y	Y	Y	Y	N	N	Y	Y
	IF1	IF1	Y	Y	N	Y	IF1	IF1	Y	N	IF1	Y	Y
	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	IF1	Y	Y
	IF1/IF2	N	Y	Y	N	Y	N	N	Y	N	N	Y	Y
	N	IF1	Y	Y	Y	Y	Y	Y	Y	N	IF1	Y	Y
	N	IF1	Y	Y	Y	Y	Y	Y	Y	N	IF1	Y	Y
	N	IF1	Y	Y	N	Y	Y	Y	Y	Y	IF1	Y	Y
	N	IF1	Y	Y	N	Y	Y	Y	Y	Y	IF1	Y	Y
	Y	Y	Y	Y	Y	Y	N	Y	Y	N	N	Y	Y
	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	IF1	Y	Y
	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	IF1	Y	Y
	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	IF1	Y	Y
	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	IF1	Y	Y
	N	N	IF8	Y	N	Y	IF1	IF1	Y	IF1	IF1	Y	Y
	N	N	IF8	Y	N	N	IF1	IF1	Y	IF1	IF1	Y	Y
	IF3	Y	IF8	Y	N	Y	Y	Y	Y	Y	Y	Y	Y
	IF4	IF4	IF8	Y	N	N	Y	Y	Y	Y	Y	Y	Y
7	IF7	IF7	IF8	Y	IF7	IF9	Y	Y	Y	Y	Y	Y	Y
7	IF7	IF7	IF8	Y	IF7	IF9	Y	Y	Y	Y	Y	Y	Y
	IF7	IF7	IF8	Y	IF7	IF9	Y	Y	Y	Y	Y	Y	Y
	7	IF1											



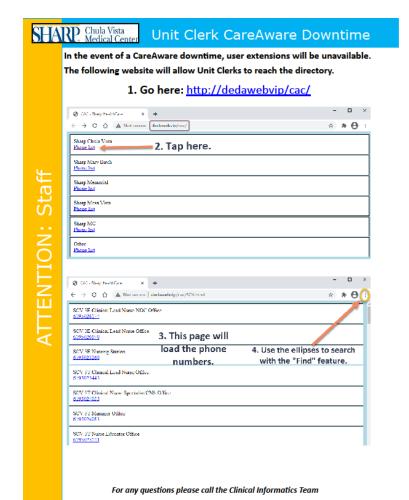
DOWNTIME PROCESS WORKOUT JOURNEY

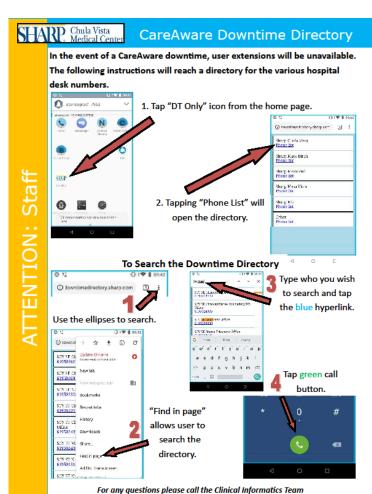




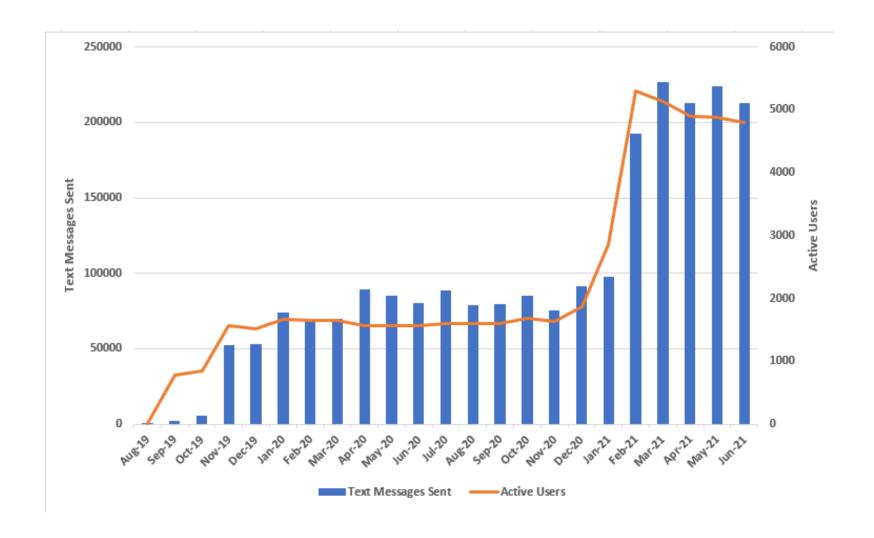


DOWNTIME PROCESS WORKOUT JOURNEY





SECURE MESSAGING ADOPTION





Top 5 by Position Texting Volume:











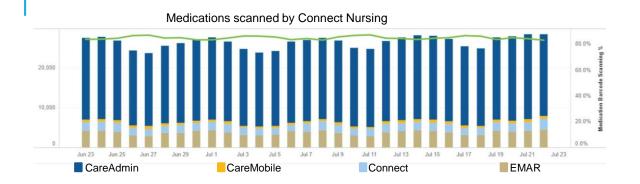
SHARP CHULA VISTA CAMERA CAPTURE

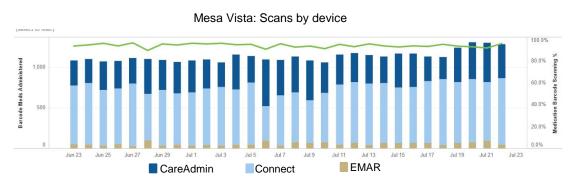
11,185 for 1,460 Total Images

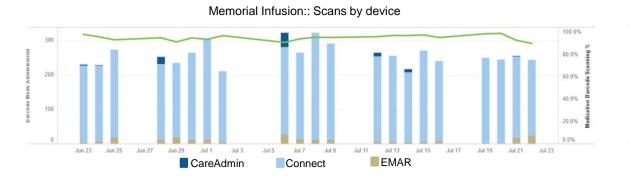
Total Users

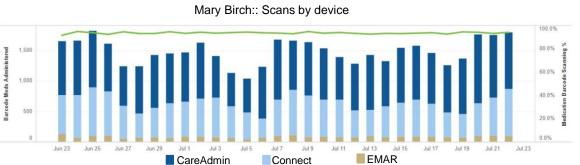


NURSING MOBILITY











ADDITIONAL CONSIDERATIONS

- Informatics Team
 - Pivotal role in implementation efforts. Liaison between IT and Clinical Operations
 - Lead all data gathering efforts for Data Collection Workbook aka Unit/department interviews
 - How many staff members do you have at your busiest time of day? i.e., what does a full staffing board look like?
 - Which staff members currently carry phones?
 - Do your staff need to be easily reachable by an outside phone number
 - Where should phone calls roll over to, how is that staffed?
- Device/app updates what to consider in communication plan
- Operational Steering Committee planning depending on Facility rollout timeline/strategy



OPERATIONAL STEERING COMMITTEE

Purpose:

The purpose of the CareAware Connect Steering Committee is to optimize the CareAware communication (CA) platform, facilitate alignment of system rollouts of the platform and promote adoption of system wide best practices. Further, the Steering Committee will review identified issues, concerns and recommendations and determine appropriate actions to address the issue/concern related to clinical workflows. The purpose is to optimize communication and support Sharp's mission and business plan.

Importance:

This committee is important for strengthening adoption, enhancing standardization of workflows and ensuring maximal performance of the CAC platform to support and improve communication and clinical workflows within the clinical teams.



CLINICAL COMMUNICATION GAME CHANGERS

- Eliminates non-HIPAA compliant personal cellphone use for messaging Providers, Administration and Clinical Staff.
- Combines voice, messaging, barcoding, camera and certain elements of the patient chart for quick access to patient information and rapid communication to staff caring for the patient.
- Camera Capture has nearly eliminated a manual process for uploading Wound photos.
- Can unterher barcoding workflows from the PC (e.g., Smart pump programming workflows where patient's bed is in between the pump and PC).
- Sepsis alerts can route to a Sepsis Nurse providing patient context and critical information
- A message vs a page to On Call MD allows for more information to be relayed and for a direct call back of the user when not urgent.





CLINICAL COMMUNICATION GAME CHANGERS

- Texting allows for fewer phone call interruptions for routine updates and questions. Reduces in room interruptions when providing patient care or in a procedure.
- MD to MD messaging regarding consults can help speed up patient assessment time.
- Less call routing through the Operator or Clerk. A robust directory allows for nearly anyone to be called or messaged if known by Role (e.g., Charge Nurses) or individual name. Specific Care Team members can also be identified and messaged by patient lookup.
- Creates a streamlined and efficient approach to patient care and coordination. Pharmacy, Lab, Case
 Management or Therapists for example can send updates from a desktop or Mobile device reducing
 phone call interruptions.
- A user can quickly transition to a phone call from a message string when needed.



END USER FEEDBACK

"It's so nice that I can send messages to a group of nurses at one time. The ability to see a patient's Care Team and family member's numbers in one screen is awesome. I wouldn't have known how to do any of this without you!"

"I love it on my computer...I can just text away!"

"Personally, I really enjoy the desktop messenger. I've been using it to communicate with the resource and charge when I'm doing audits." "This is going to save so much time and keep us better connected."

"Very user friendly" ... "It's going to help in so many places like L&D. The texting is nice. I don't have to go to the room and interrupt the nurse."

"Camera Capture is a HUGE improvement on our current process for taking wound photos."

"I love being able to text."

"I have been receiving calls from users with positive feedback that they like the new devices."

"Texting between NA and RN has helped cut down on unnecessary phone calls. NA texted an RN earlier that PT XXX was needing something minor. RN found it very helpful and a patient satisfier."

"CareAware Connect has improved the efficiency of what we do because we can communicate easily. We have gone from F to A!"





Questions

