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Building a Communications Network to Meet the Demands of the New Healthcare Landscape

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Communication Challenges in Hospitals



Market Forces Driving Real-Time Communication

Healthcare Reform

Population Health & Rise of ACOs Value-Based Pricing

Consumer Driven
Shifting Care Delivery



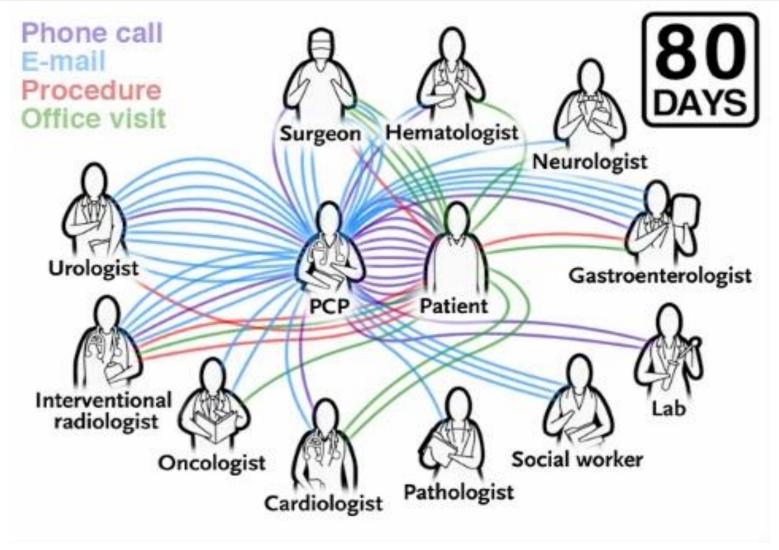
Provider Consolidation Vertical Integration

Real-Time Care Coordination

Technology Forces
Smartphones, EHR, Cloud, Security



The Provider-Patient Journey Today



Patient initially diagnosed with kidney stone, turned out to be a cholangiocarcinoma. Treatment required 11 other clinicians, 5 procedures, 11 office visits, and more than 40 communications over 80 days to achieve a positive outcome. (Source: NEJM 2014)

Current State of Healthcare Communication

Needed: Secure, Point of Care Communication for Nurses

Market Demand for Mobile

Of hospitals interviewed:

- 97% report nurses lack appropriate tools to determine care team member availability and status
- Over 90% have made no or only limited departmental investment in mobile communications

Smartphone Use in Hospitals

Of hospitals interviewed:

- 89% expressed concerns that consumer-grade smartphones are not suitable: durability, sterility and usability
- 53% allow BYOD, but only 11% allow it for nurses.





The Risk of Unsecure Smartphone Use



Smartphone Use in Healthcare

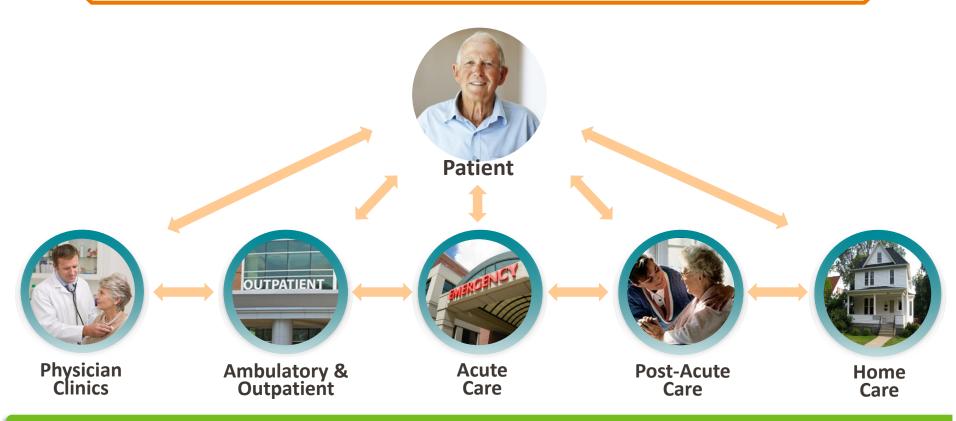
- 96% of physicians with smartphones use unsecure SMS for patient care
 - Risk HIPAA violations, data breaches, and system hacking
 - Fines up to \$1.5M per incident
- 89% of hospitals do not allow nurses to use their personal smartphones
 - > 67% do so anyway





Vision for The New Provider-Patient Journey

Enterprise-grade Communications Platform seamlessly ties together locations, people and clinical systems



Communication and Collaboration Layer

Data Layer (EHR & Clinical Systems)

Enterprise-grade Communications Platform



Voice Communication



Secure Text Messaging





Clinical Integration



Patient Engagement



Right Devices for Real-time Communication

Devices of Choice











Integrated Clinical Systems











End-to-End Clinical Workflow Engine

Enhance Patient Safety

Increase Patient Satisfaction

Improve Nurse Responsiveness

Decrease Length of Stay

Platform integration delivers critical information to the right user, at the right time and place, on the device of choice

EHR Integration

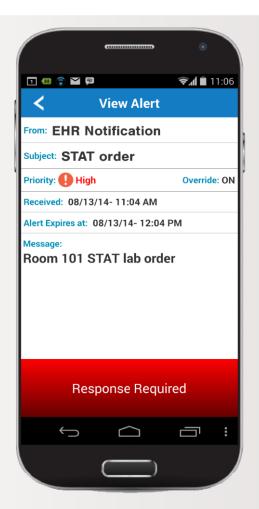
Automate

Deliver notifications for urgent items, such as:

- Stat orders, critical test results
- High-risk admissions
- Patient discharges
- Housekeeping, dietary, and transport requests

Improve

- Patient care and safety
- Team coordination and efficiency
- Physician and staff satisfaction







Patient Voice and Network Design

"If I can't rest,
I can't heal."

July 2014 WEGO patient survey



Addressing Hospital Alarm Fatigue



- Alarm fatigue is a critical and growing issue facing hospital workers
 especially nurses
- A caregiver may get as many as 700 physiological alarms per patient, per day⁽¹⁾
- The Joint Commission estimates 85%-99% of alarms do not require clinical intervention⁽²⁾
- Since 2007, and again for 2014,
 Alarm Hazards are identified as the #1 health technology hazard⁽³⁾



⁽¹⁾ Johns Hopkins Hospital Quality Improvement Alarm Data

⁽²⁾ Joint Commission, Sentinel Event Alert, Medical Device Alarm Safety in Hospitals

Alarm Management and Analytics





Customer Voice

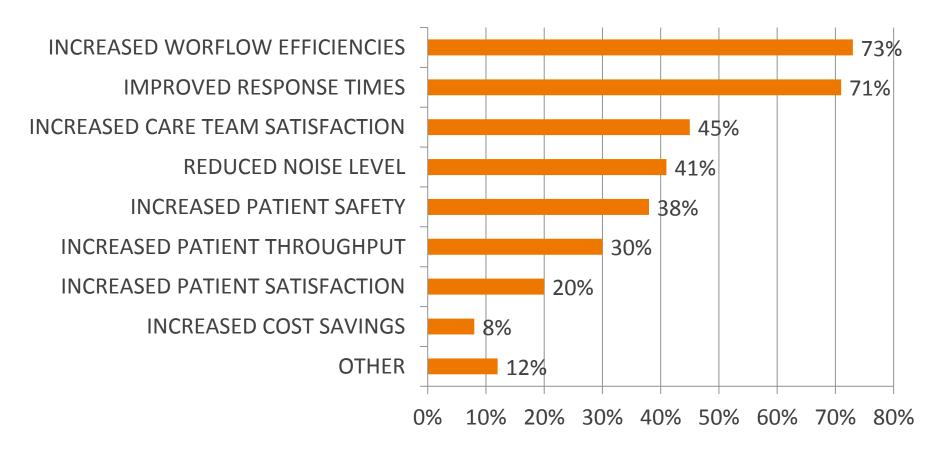
"Enabling better communication and collaboration across the entire continuum of care is critically important in making the transition to value-based care."

Bill Shickolovich, CIO of Tufts Medical Center



Customer and Patient Impact

What benefits did you see within the first six months after deployment?





Quantifiable ROI

Increase OR Throughput

Midwest Medical Center

- 5% improvement in OR throughput
- 1 more surgery per day
- Estimated increase in revenue of more than \$2M per year
- Labor expense decreased5.6% per case

Prevent Patient Falls

University Medical Center

- 11% reduction in falls, 60% reduction in fall-related injuries
- 88% improvement in ability to respond when integrated with fall alarm system
- Estimated savings in fall related injuries of \$1.27M

Reduce Time Locating Staff

West Coast IDN

- Locate staff faster using Vocera vs. traditional methods
- 2% increase in productivity
- \$5.4M in annual operational savings

Increase Patient Satisfaction

Army Hospital

- 20% improvement of inpatient satisfaction = \$600,000/year
- Nurse response time from 4 minutes to 1
- PCPs gaining 2 appointments per day

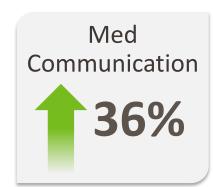


Patient Experience Transformed

Published Results

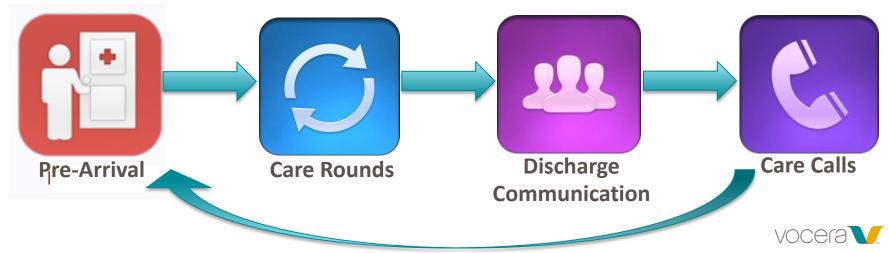








Delivering Differentiation Throughout the Patient Journey





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