Perceptive Mobile Photo Capture
at UCSF Medical Center

Christina Bronsky, Clinical Project Manager
Betty Lieu, ECM Administrator
Erik Wieland, ECM Manager
7/12/16
ECM at UCSF

- **Deployment History**
  - **2008** – Controller’s Office: Accounts Payable
  - **2014** – MedCenter inpatient, ambulatory
  - **2015** – Human Resources, Chancellor’s Office, Executive Vice Chancellor
  - **2016** – 7.1 upgrade, Payroll, Development, University Relations, MedCenter community clinics, CHO

- **ECM Team**
  - Started with 1 FTE, 2-3 contractors
  - Currently 3 FTE, *2 “loaners”*
  - Growing to 5 FTE by 2017

- **Environment**
  - Architecture: Mix of physical, virtual servers
  - Servers: Content, Integration, Business Insight, Forms, Interact for Epic, WebNow, *Enterprise Search*
  - Clients: Full desktop, Interact Desktop (via Citrix), WebNow, Perceptive Experience (iOS, web)
  - Integrations: Epic (via Cloverleaf), DocuSign (via Kryptiq/Enli), RightFax, Oracle, PeopleSoft, *Salesforce*

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Joe Bengfort
CIO

Jane Wong
Executive Director, Enterprise Systems

Erik Wieland
Manager, Document Management Systems

Brett Gerstenberger
ECM Administrator

Guo Wen
ECM Operations Lead

Betty Lieu
ECM Administrator

*Burton Fong
ECM Operations

*Christina Bronsky
Clinical Project Manager
<table>
<thead>
<tr>
<th>Where</th>
<th>What’s wrong with this picture?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epic</td>
<td></td>
</tr>
<tr>
<td>Haiku</td>
<td></td>
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<tr>
<td>Single image capture, limited image tagging, can’t enforce tagging</td>
<td></td>
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<tr>
<td>Flash drives</td>
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<tr>
<td>Mobile devices</td>
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<tr>
<td>Clinic cameras</td>
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<td>Imaging devices</td>
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*Now where did that drive go…?*

*Now where did that SD card go…?*

*We bought this cool camera! You can integrate it with Epic, right?*
What is it?

- iOS app from Lexmark
- Capture of clinical photos
- Available from within the EMR for clinical decision-making
- Indexes photos in the document management system
Who is using it?

Est. September 2015

- **Departments**
  - Dermatology
  - Otolaryngology Head & Neck Surgery
  - Pediatric Hematology
  - Vascular Surgery

- **Users**: ~210
- **Images**: ~7,000
Why is it better?

Why aren’t we using Haiku?

• **IT Advantages**
  - Allows for sophisticated metadata tagging
  - Controlled storage

• **Clinical Advantages**
  - Integrates with Epic
  - Photo sets/series
  - Fewer workflow steps to obtain metadata
  - Sorting/searching in the EMR
Demo
Perceptive Mobile Photo Capture at UCSF Medical Center
**Patient Information**

**Encounter Information**
- **Name:** Zzpmcetipsheet, C...
- **DOB:** 9/2/1995
- **Gender:** F
- **Seller:** Russell J Cucina, MD
- **Address:** 123 Main St, SEATTLE WA 98101

**Admission Information**
- **Provider:** Jack S. Resneck, MD
- **Phone:** 415-353-7800
- **Pager:** 415-505-8520
- **Expected Length of Stay:** None
- **Actual Length of Stay:** None
- **Patient Class:** CSN
- **Outpatient:** 2086819

**Vitals**

**Patient Images**
- Show images for ZZPMCETIPSHEET.
Pulled in automatically
1. Patient MRN
2. Encounter Number (CSN)
3. User ID for the logged in user
4. Document type of “Photo (Encounter)”

Must be manually entered (optional)
5. Body Part (drop down list)
6. Laterality (drop down list)
7. Description (free text)
Epic Integration

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UAT, Training & Rollout

- **UAT**: Demos for department
- **Go-Live**: September 2015
- **Training**
  - At-elbow
  - Tip Sheet
- **Future**
  - Emergency
  - Wound Care
  - Bone Marrow Transplant
Challenges

▪ Device enrollment
▪ Wireless infrastructure (upload times)
▪ App updates/changing behavior
▪ Remote Access
▪ Security
  • Access management (non-clinician use)
▪ Enhancements
  • Exporting photos for teaching
  • Viewing thumbnails from Epic
  • Inserting photos into Progress Notes
  • Only available for iOS
References

▪ Please reach out to our team with questions:
  • Erik Wieland: Erik.Wieland@ucsf.edu
  • Betty Lieu: Betty.Lieu@ucsf.edu
  • Christina Bronsky: Christina.Bronsky@ucsf.edu

▪ Tip Sheet

Microsoft Word
- 2003 Document