

Perceptive Mobile Photo Capture *at UCSF Medical Center*

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7/12/16



ECM at UCSF

Deployment History

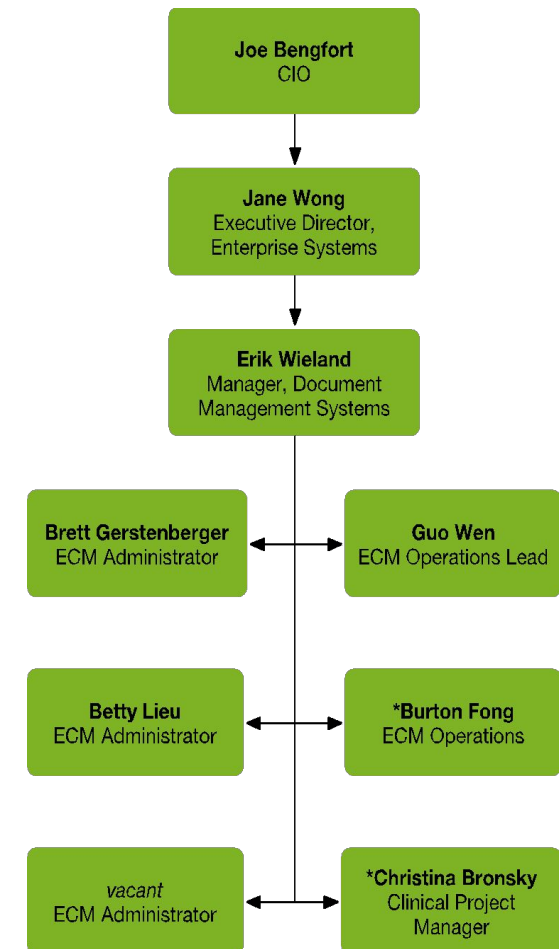
- **2008** – Controller’s Office: Accounts Payable
- **2014** – MedCenter inpatient, ambulatory
- **2015** – Human Resources, Chancellor’s Office, Executive Vice Chancellor
- **2016** – 7.1 upgrade, Payroll, Development, University Relations, MedCenter community clinics, CHO

ECM Team

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

Environment

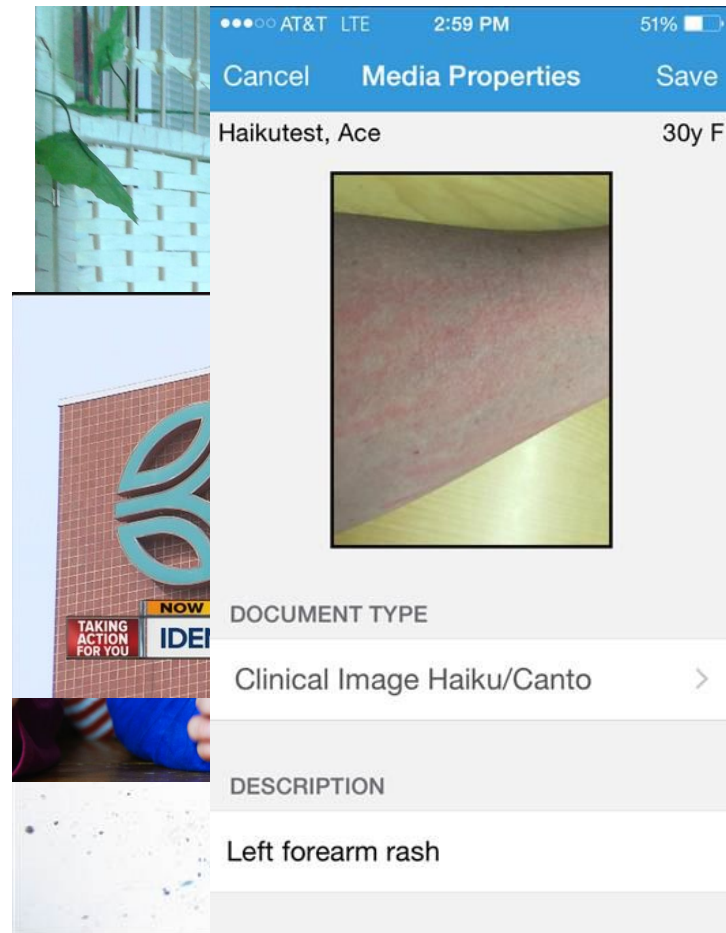
- Architecture: Mix of physical, virtual servers
- Servers: Content, Integration, Business Insight, Forms, Interact for Epic, WebNow, *Enterprise Search*
- Clients: Full desktop, Interact Desktop (via Citrix), WebNow, Perceptive Experience (iOS, web)
- Integrations: Epic (via Cloverleaf), DocuSign (via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



Where Are Your Clinical Images?

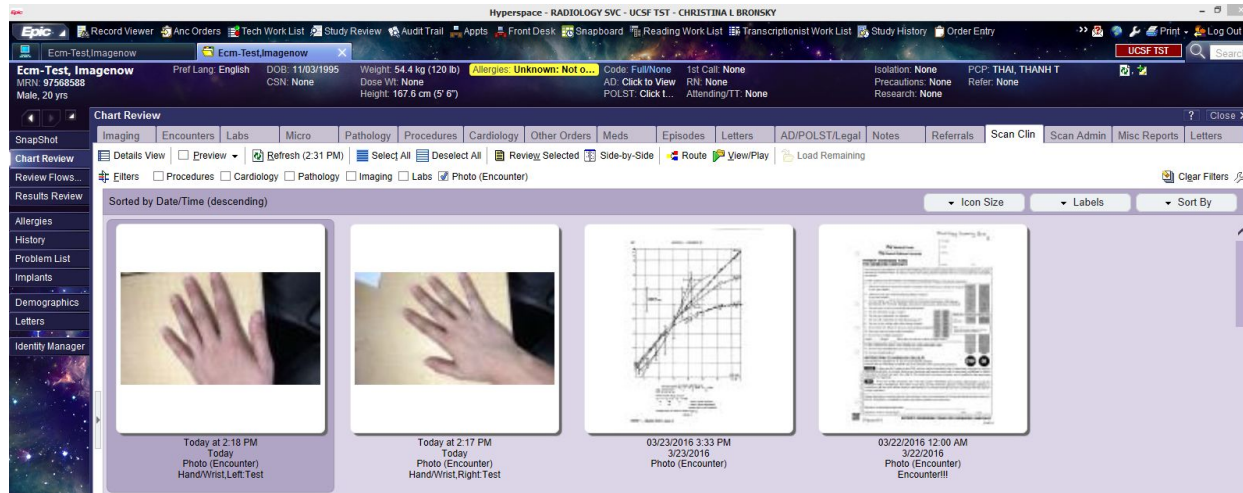
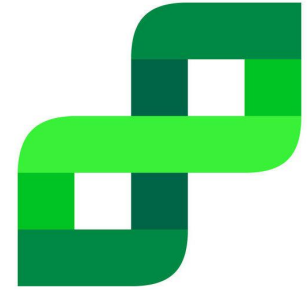
Where

What's wrong with this picture?



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?

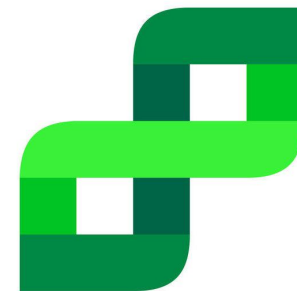
Est. September 2015

- **Departments**

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

- **Users:** ~210

- **Images:** ~7,000



Why is it better?

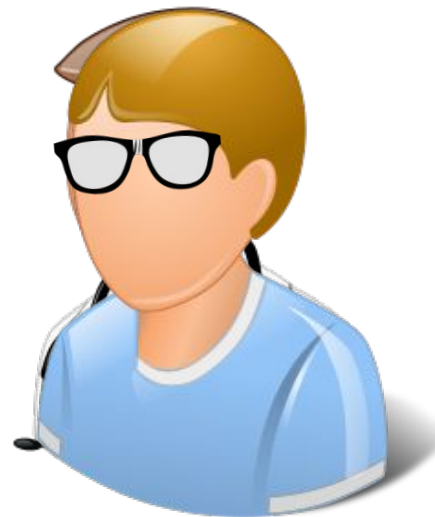
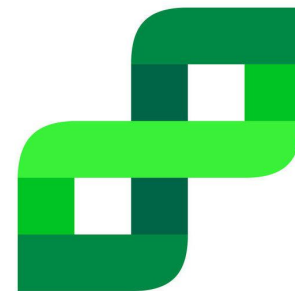
Why aren't we using Haiku?

- **IT Advantages**

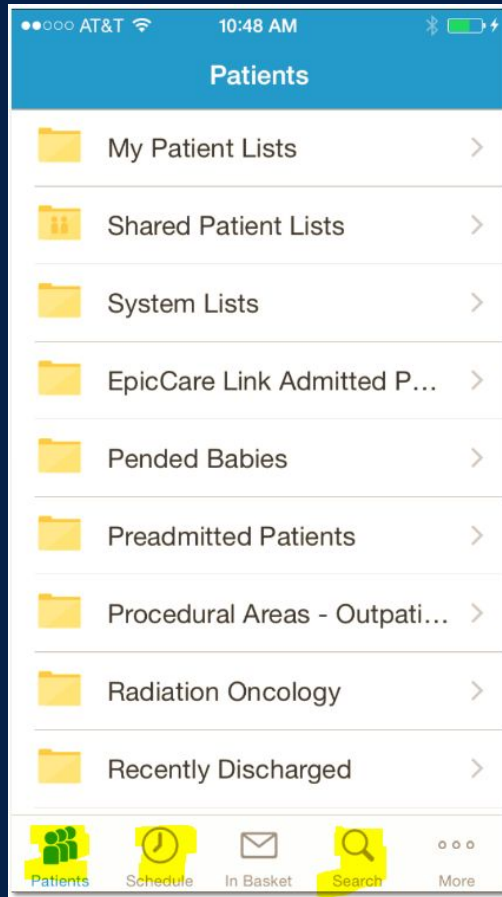
- Allows for sophisticated metadata tagging
- Controlled storage

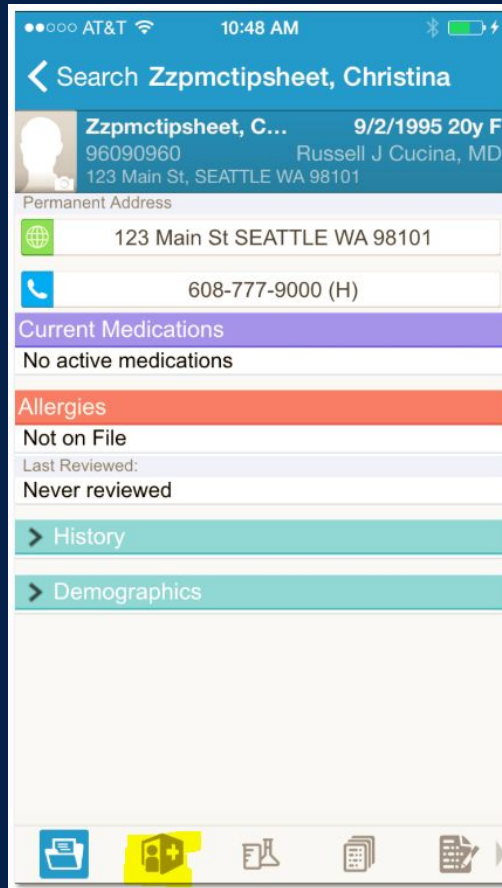
- **Clinical Advantages**

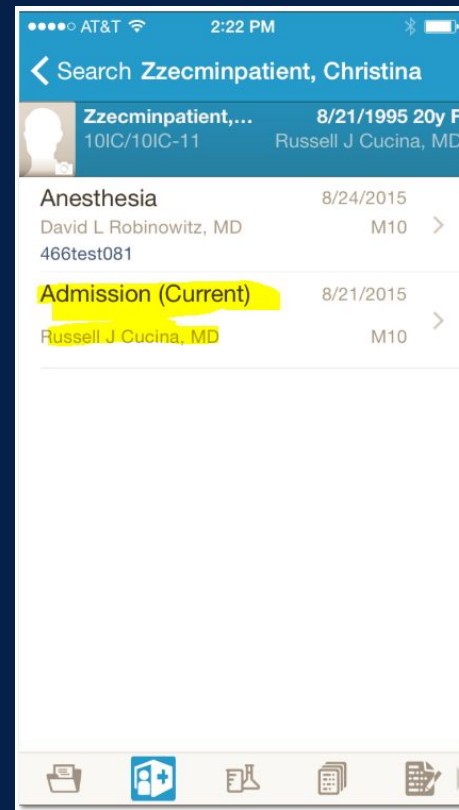
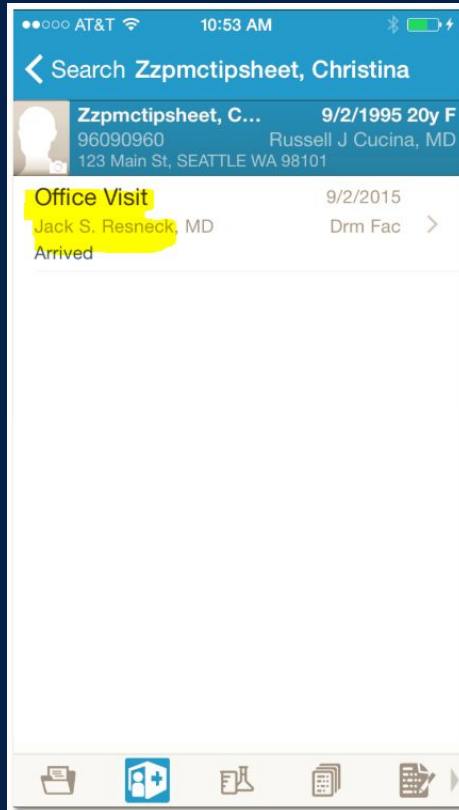
- Integrates with Epic
- Photo sets/series
- Fewer workflow steps to obtain metadata
- Sorting/searching in the EMR

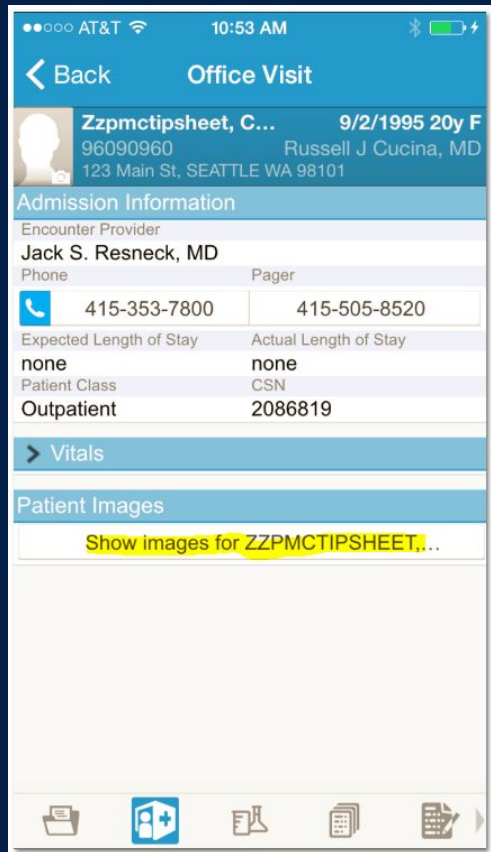


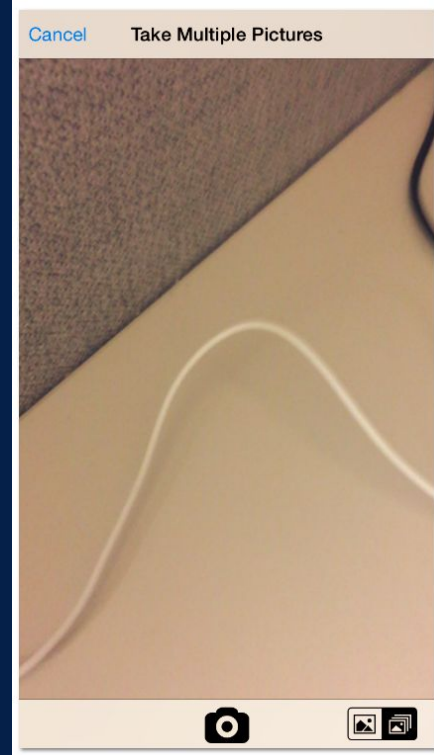
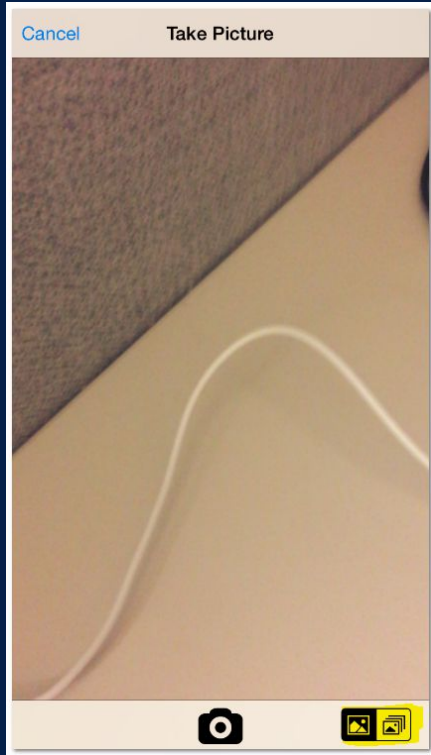
Demo

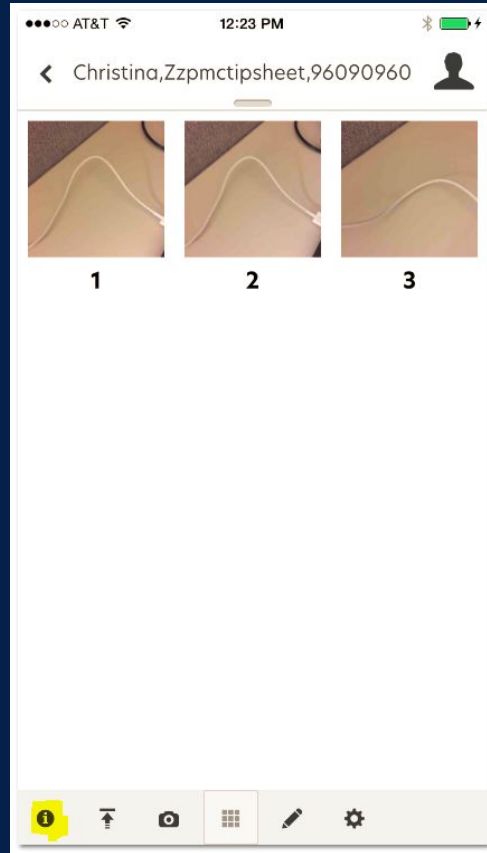












Pulled in automatically

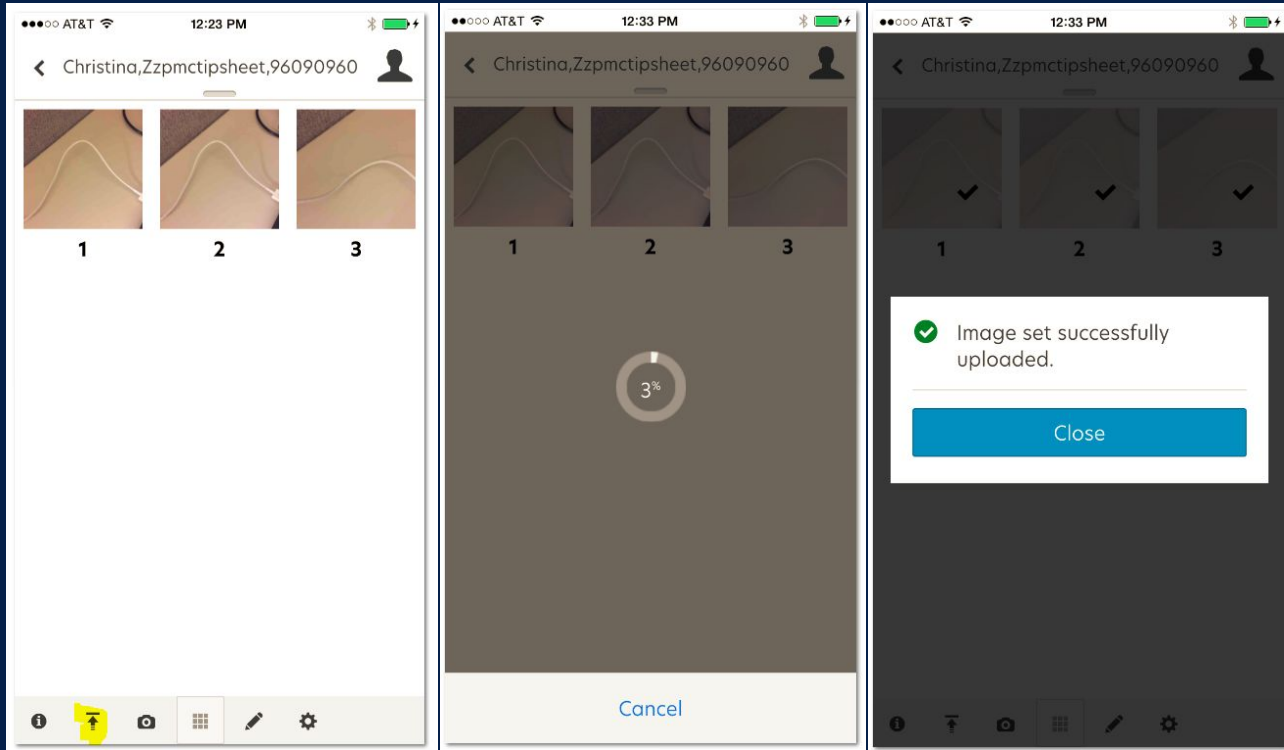
1. Patient MRN
2. Encounter Number (CSN)
3. User ID for the logged in user
4. Document type of “Photo (Encounter)”

Must be manually entered (optional)

5. Body Part (drop down list)
6. Laterality (drop down list)
7. Description (free text)

The screenshot shows a mobile application interface titled 'Properties' with a 'Done' button in the top right. The form contains several fields, some of which are annotated with numbers 1 through 7. The fields and their values are as follows:

- Document Name***: 321YZ92_0392S8MVL000029
- MRN**: 96090960 (Annotated with 1)
- HAR**: (Empty field)
- CSN**: 2086819 (Annotated with 2)
- Field4**: BRONSKYC (Annotated with 3)
- Unique Id***: 321YZ92_0392S8MVL00002B
- Document Type***: Clinical Photo Capture (Annotated with 4)
- Body Part**: (Dropdown menu, highlighted in yellow, Annotated with 5)
- Laterality**: (Dropdown menu, highlighted in yellow, Annotated with 6)
- Description**: (Free text field, highlighted in yellow, Annotated with 7)



Epic Integration



Zzpmctipsheet, Ch... Pref Lang, Interp: English, No DOB: 09/02/1995 Weight: None Allergies: **Unknown: Not on ...** Code: Full/None 1st Call: None Isolation: None PCP: CUCINA, RUSSELL J
 MRN: 96090960 MZ - MEDICAL BLD... Dose Wt: None AD: No RN: None Precautions: None Refer: None
 Female, 20 yrs CSN: None Height: None POLST: No Attending/TT: None Research: None

Chart Review (Last refresh: 12:36:12 PM)

Thumbnail View Filters Preview Refresh Select All Deselect All Review Selected Side-by-Side Route View/Play

Imaging Encounters Labs Micro Pathology Procedures Cardiology Other Orders Meds Episodes Letters AD/POLST/Legal Notes Referrals Scan Clin Doc Scan Admin Doc Misc Reports Letters

1 record loaded, all records loaded Procedures Cardiology Pathology Imaging Labs Photo (Encounter) Clear All

No filters applied

Date/Time	Document Date	Document Type	Description	Enc Date	File Attached to
09/02/2015 12:00 AM	9/2/2015	Photo (Encounter)	Other,Bilateral,Tip sheet	09/02/2015	Office Visit on 9/2/2015 with Resneck, ...

Media Information File: 321YZ92_0392SSMVL000017

File Link
[Scan on 9/2/2015 12:00 AM by Christina L Bronsky](#)
[Other,Bilateral,Tip sheet](#)

Key Information

Document ID	File Type	Document Type	Description
321YZ92_0392SSMVL000017	Image	Photo	Other,Bilateral,Tip (Encounter) sheet

Import Information

Attached At	Date	Time	User	Dept
Encounter Level	9/2/2015	12:00 AM	Christina L Bronsky	

Encounter
[Office Visit on 9/2/15 with Jack S. Resneck, MD](#)

UAT, Training & Rollout

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

Our go-live!



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 Docume



UCSF