

# Indian Health Service

## VistA Views

### VistA Imaging Updates for our Health IT (HIT)

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LESLIE R. WHITE

IT INFORMATICS SUPERVISOR

AUGUST 2023



# Presented By:

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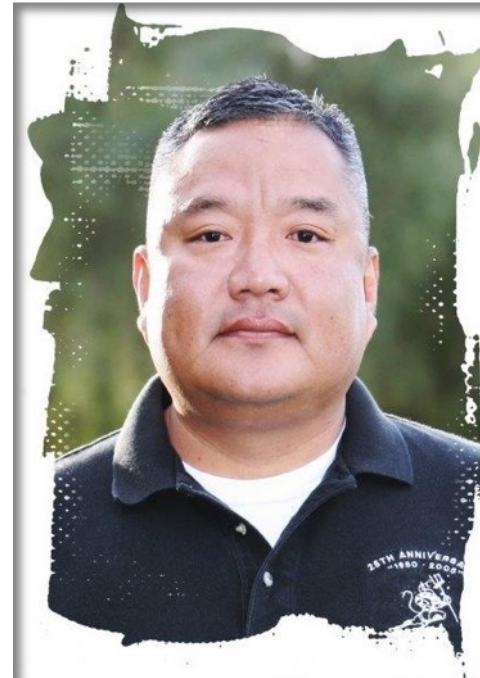
Leslie R. White



- IHS HQ OIT/DIT
- IT Informatics Supervisor -Clinical

Lee Redlegs

- IHS HQ OIT/DIT
- RPMS IMAGING Support – Fed Lead



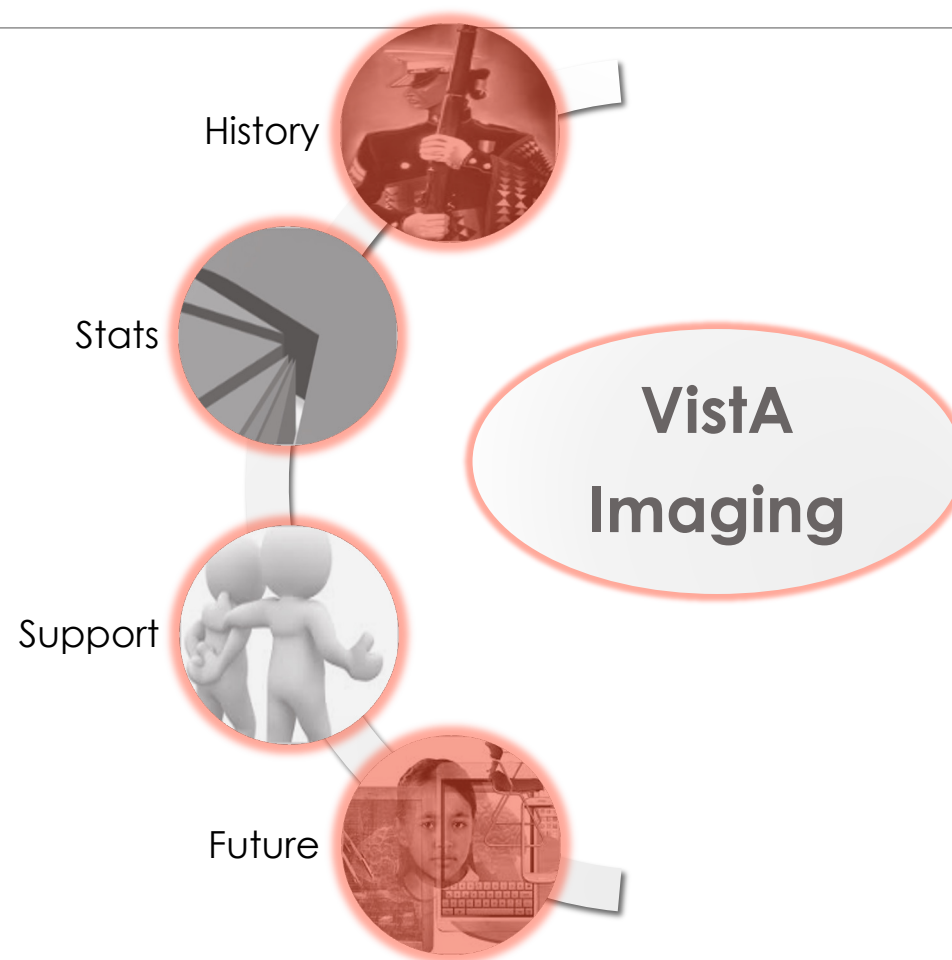
# This Session is suitable for the following Health IT Roles

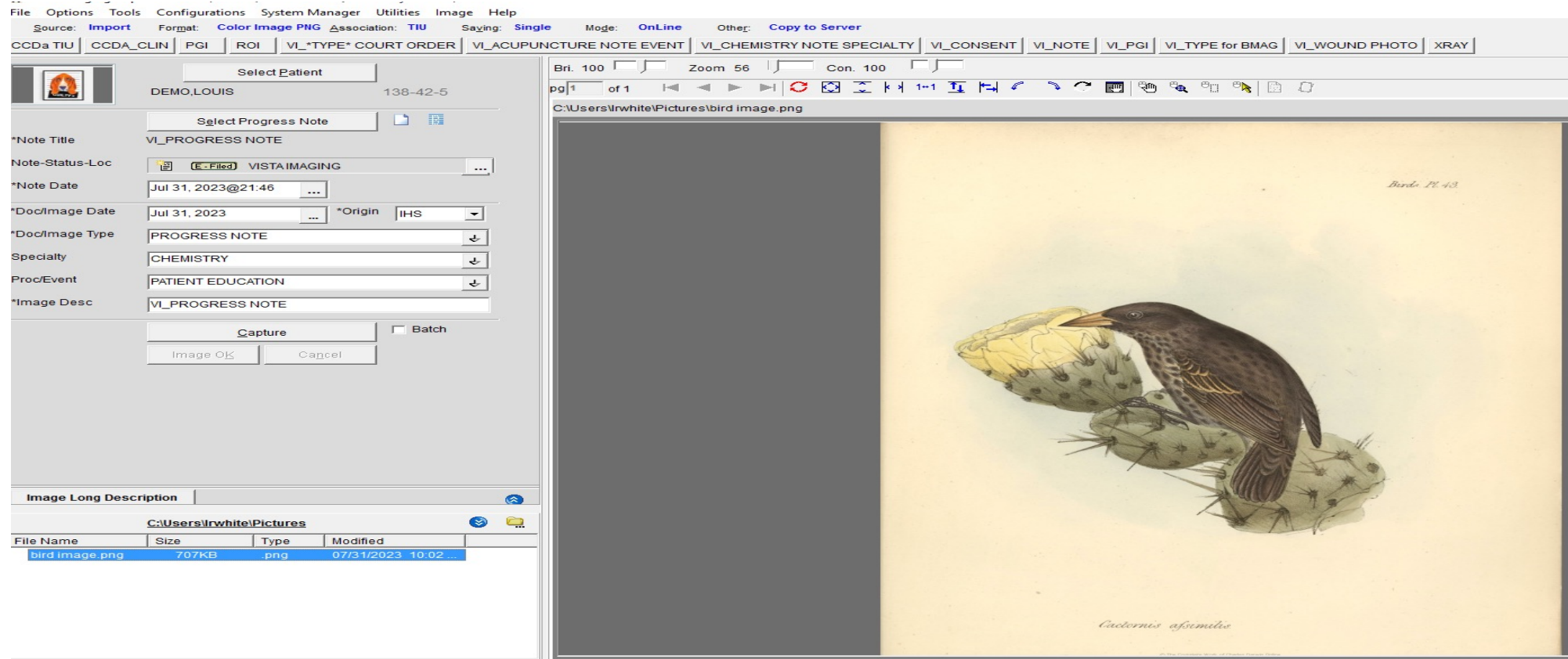
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- Clinical Applications Coordinator/IT Informatics
- Radiology Information System (RIS) owner
- VistA Imaging/PACS Coordinator
- Health Information Management
- HIM and Imaging personnel

# VistA Imaging Topics for HIT Discussion

- The Bird's Eye View
  - Introduction to VistA Imaging
  - Reasons to Use VistA Imaging
  - VistA Imaging Requirements
- Behind the Scenes – How to Make a View
- Capture and Display Clients
- Photographs in VistA Imaging and EHR
- VistA Imaging Display vs EHR Image Viewers
- Software & Client Updates
- Future - HITMOD





# THE BIRD'S EYE VIEW



# Tres Vistas...



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**Clinical** – Patient Care Centered. *“It just needs to work.”*

**Health Information Management** – Policy Centered. Ensuring the Medical Record is accurate, up-to-date, and legal.

**Information Technology** – Operations Centered. Ensuring that the system and all of its components are operational.

*“And that’s not counting Radiology...”*

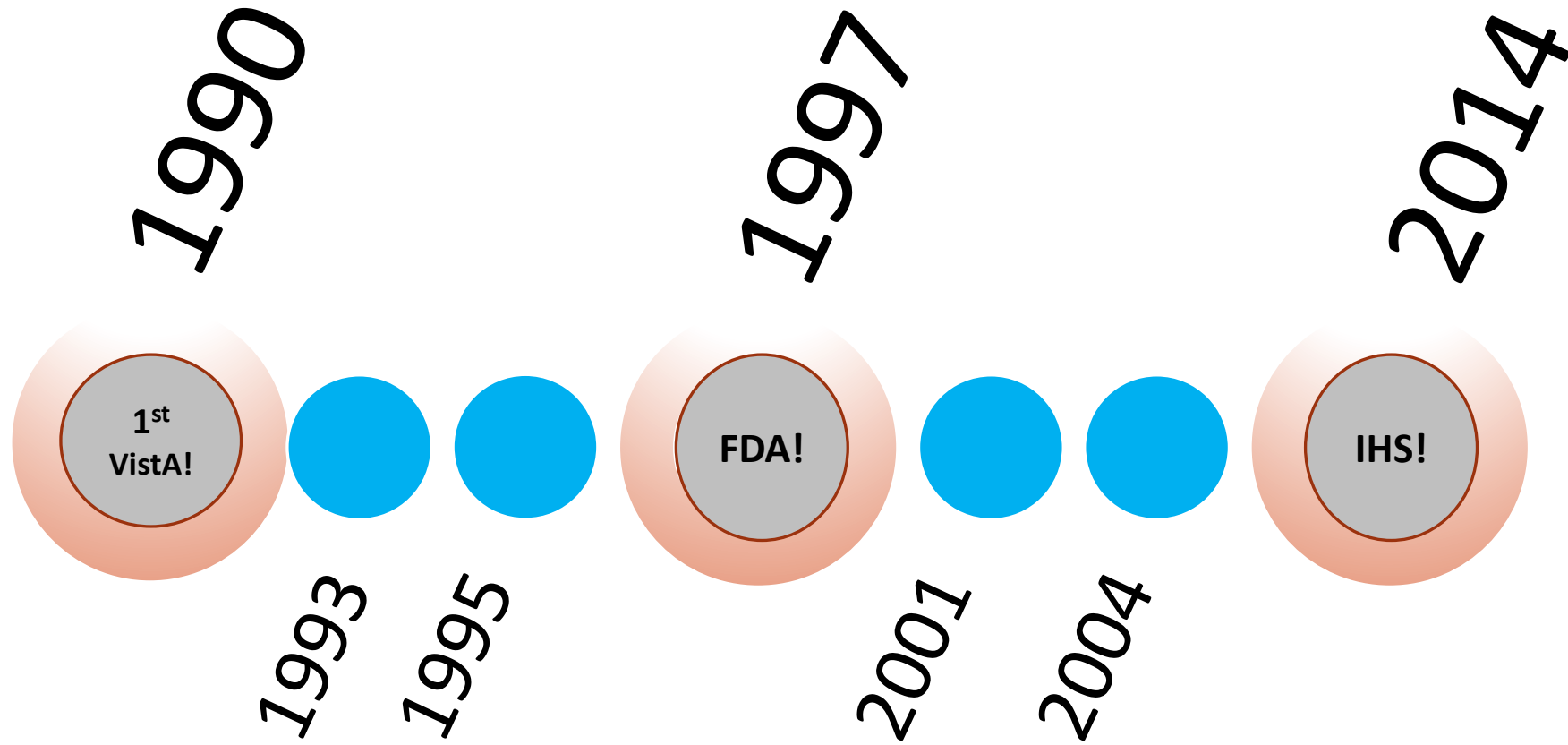
# VistA Imaging Is...

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1. A system for capturing scanned documents and radiology images
2. A digital radiology PACS (picture archiving and communication system)
3. Developed by the Department of Veteran's Affairs
4. A medical device certified by the FDA
5. Separate BUT fully integrated with RPMS and EHR
6. Part of the meaningful-use certified RPMS EHR
7. VistA Imaging (VI)

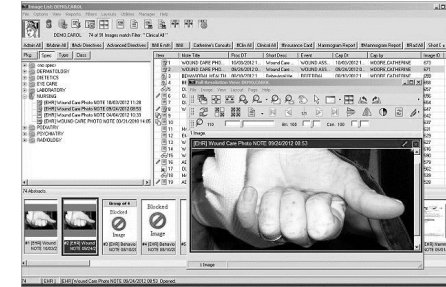


# History of VistA Imaging





# VistA Imaging is...



1. A system for capturing scanned documents and importing radiology images
2. A digital radiology PACS (picture archiving and communication system) - VistARad
3. **Developed by the Department of Veteran's Affairs**
4. **A medical device certified by the FDA**
5. Separate BUT fully integrated with RPMS and EHR
6. Part of the meaningful-use certified RPMS EHR

# VistA Imaging in Practice



- VistA captured images are combined with text data to facilitate a clinician's task of correlating information and making timely and accurate patient care decisions
- Consultant physicians have access to the image and text data, whether in the same department, different medical services, or different divisional sites
- VistA Imaging capture (scanning or import) is managed by the hospital/site Health Information Management department. This allows for integration of multimedia data with the patient's traditional medical record
- VistA Display installations are ideal for clinics, hospital wards, emergency rooms, intensive/progressive care units and clinic conference areas

# VistA Imaging Functionality

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VistA Imaging provides a means of capturing patient information. Clinical information is displayed in the electronic health record while Administrative documents are displayed in VistA Imaging

**Clinical** images are attached to TIU (Progress Notes) or Radiology Reports  
Clinical (Advance Directive, CCD, Imaging, EKG, Laboratory Results)

- Administrative (HIPAA Notice, CIB, Birth Certificate, Power of Attorney)
- Scanned Motion
- Other non-textual

**Administrative** documents are NOT attached to progress notes but simply scanned into VistA Imaging

# Did you know VistA Imaging's value?

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VistA Imaging can serve as a backup/ contingency system

- In the VA: 5.4 million images were recovered at the New Orleans VA hospital after Hurricane Katrina in 2006 – 99.996% recovery rate
- 13.1 million images were recovered at a VA facility in Tennessee after a computer room flood in 2008

# Why Use VistA Imaging?

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- VistA makes a patient's complete medical record available electronically
- Scanned or imported documents in a patient record can be viewed using the IHS Electronic Health Record (EHR) and VistA Capture and Display software
- Simultaneous viewing of images eliminates the need for a paper chart

# VistA Imaging Requirements

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**Site Agreement:** The VistA Imaging Site Agreement is written to ensure mutual understanding of the terms of the software used by each proposed imaging facility (Site or IHS Area) and the IHS VistA Imaging Program Office

NOTE: VistA Imaging is a medical device certified by the Food and Drug Administration (FDA). Compliance with certification requirements is mandatory

Approved policy and procedure with a list of approved documents to be scanned locally into the Electronic Health Record

Documented training for all scanning staff with ongoing or annual competency assessments


# Hardware and Software

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## Hardware

- DICOM Gateways (for radiology and other DICOM images)
- Background Processor(s)
- Tier 1 Storage Clustered RAID
- Tier 2 Storage Optical Archive

## Software

- VistA Imaging **Capture**
  - VistA Imaging **Display**
  - VistARad – if using VistA Imaging as a PACs
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# Accessibility, Security, and Quality

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## **Accessibility**

- Software VistA Capture and Display in EHR template and/or desktop

## **Security**

- RPMS Access/Verify Codes are mandatory
- RPMS Security Keys
- RPMS \*MAG\* Secondary Menu

## **Quality Review**

- Rubber stamps for each scanning workstation
  - Plan for ongoing review of captured images
- 



# Workstation Requirements

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## Workstations

- Workstations with Microsoft OS Licenses, Anti Virus SW & Backup EXEC SW& PCAnywhere
- Sufficient storage capacity
  - **More information on next slide**
- Daily maintenance and documentation of hardware (i.e. Hardware is on/running; Storage is sufficient)

# Workstation RQMTS continued... improving speed!

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- 1.) Try scanning documents at a resolution of 300 DPI. Higher resolutions can slow / freeze the process.
- 2.) Make sure to save the multi-page scans in a PDF format in black/white and color.
- 3.) Best practice for scanning in documents of 50 pages or more (regardless if the source is in-house or outside) is to scan and save as PDF's which MAG Patch 140 provided. Development for 140 was done to eliminate the issue of the previously described 8-bit grayscale large files.
- 4.) For Clinical Display, the minimum monitor requirements are: 1024 x 768 resolution and 24 bit color
- 5.) **Workstations be on a Fast (100 MB/s) Ethernet or Gigabit Ethernet connection**

# Capture Devices

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Use **ONLY** approved capture devices:

- Compatible document scanners, cameras, interfaces
- Cellular or Smart Phones are **NOT** approved capture devices
- Approved DICOM and Radiology Modalities

# VistA Imaging Lingo



- MAG is the RPMS software namespace, Version 3.0
- Redundant Array of Independent Discs (RAID) = Tier 1 server
- DICOM Gateways (Digital Imaging and Communication in Medicine) – 2012r2 server EOS October 2023
- Tier 2 is Long-term Archive/Jukebox/Plasmon/Archive Appliance
  - NetApp Storage Grid approved long-term storage

File Options Tools Configurations System Manager Utilities Image Help  
 Source: Import Format: Full Color JPG Association: TIU Saying: Single Mode: OnLine Other: Copy to Server  
 CCDa TIU | CCDA\_CLIN | PGI | ROI | VI\_\*TYPE\* COURT ORDER | VI\_ACUPUNCTURE NOTE EVENT | VI\_CHEMISTRY NOTE SPECIALTY | VI\_CONSENT | VI\_NOTE | VI\_PGI | VI\_TYPE for BMAG | VI\_WOUND PHOTO | XRAY

Select Patient  
 DEMO, LOUIS 138425

Select Progress Note  
 VI\_PROGRESS NOTE

\*Note Title  
 VI\_PROGRESS NOTE

Note-Status-Loc  
 (E-Filed) VISTA IMAGING

\*Note Date  
 ...

\*Doc/Image Date  
 Jul 31, 2023 \*Origin IHS

\*Doc/Image Type  
 PROGRESS NOTE

Specialty  
 CRITICAL CARE, MED

Proc/Event  
 HOME VISIT

\*Image Desc  
 VI\_PROGRESS NOTE

Capture  Batch  
 Image OK Cancel

Image Long Description

C:\Users\lrwhite\Pictures

File Name	Size	Type	Modified
views download.j	13KB	.jpg	07/31/2023 10:19

Bri. 100 Zoom 113 Con. 100  
 pg 1 of 1  
 C:\Users\lrwhite\Pictures\views download.jpg 275W x 183H 24 bit JF

HOW DO WE MAKE A  
 'VIEW 'IN VI?



# Making a View

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1. Clinical Capture writes the images to a Tier 1 Storage RAID. The same image storage flow process occurs with the images captured via DICOM Gateways
2. Clinical Capture sets VistA Imaging RPMS queue for files to be copied to a Tier 2 Archive Image Storage
3. The Background Processor continuously monitors and processes the queue
4. The Background Processor copies images from the Tier 1 to the Tier 2 Archive Appliance
5. The Archive Appliance moves files from an AA cache to WORM media

# Step 1 – Capture Image Scan or DICOM



Scanner and VI  
Clinical Capture



Image Primary  
Storage Cluster  
or Tier 1 RAID



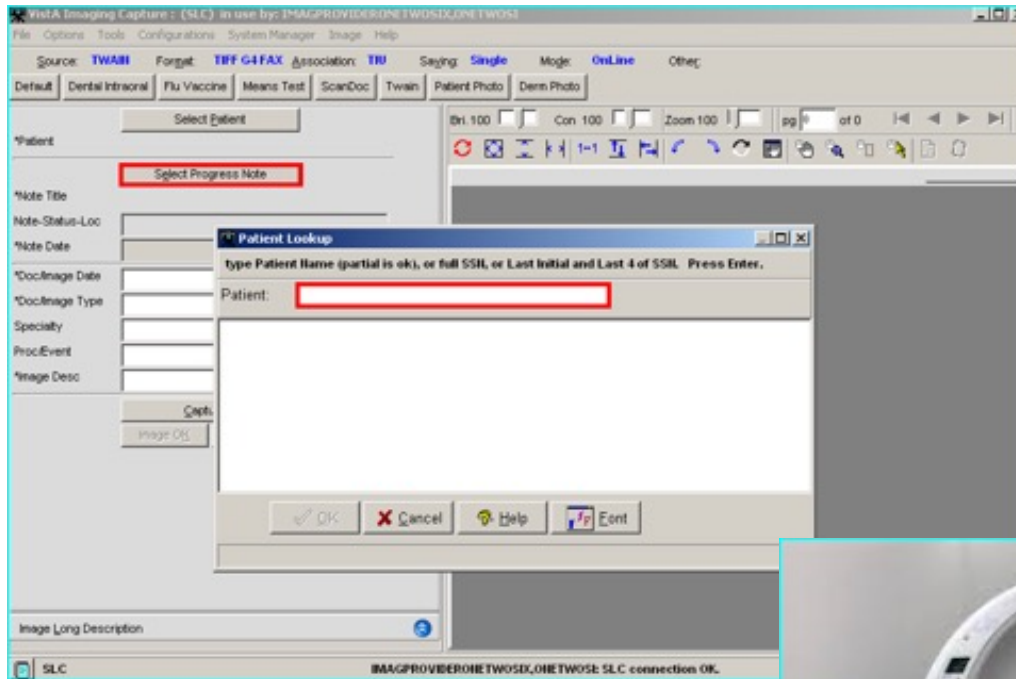
DICOM  
Modality  
CT Scanner



DICOM  
Gateway



# Step 2 – Send Image to Queue



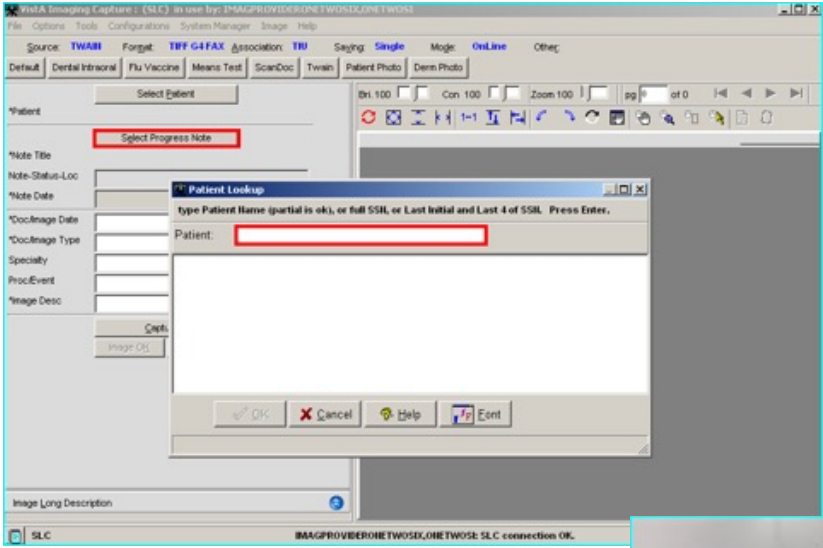
VistA Imaging  
Images



IHS RPMS Server  
VA FM file  
Number



# Step 3 – BGP Monitors and Processes



VistA Imaging Image Files



RPMS Server



Background Processor

# Step 4 – BGP copies images to Tier 2



Cache for  
Archive  
Appliance



Tier 2 Archive  
Image Archive Storage

Image Primary  
Storage Cluster  
or Tier 1 RAID

Background  
Processor



# Step 5 – Archive Appliance Stores Files

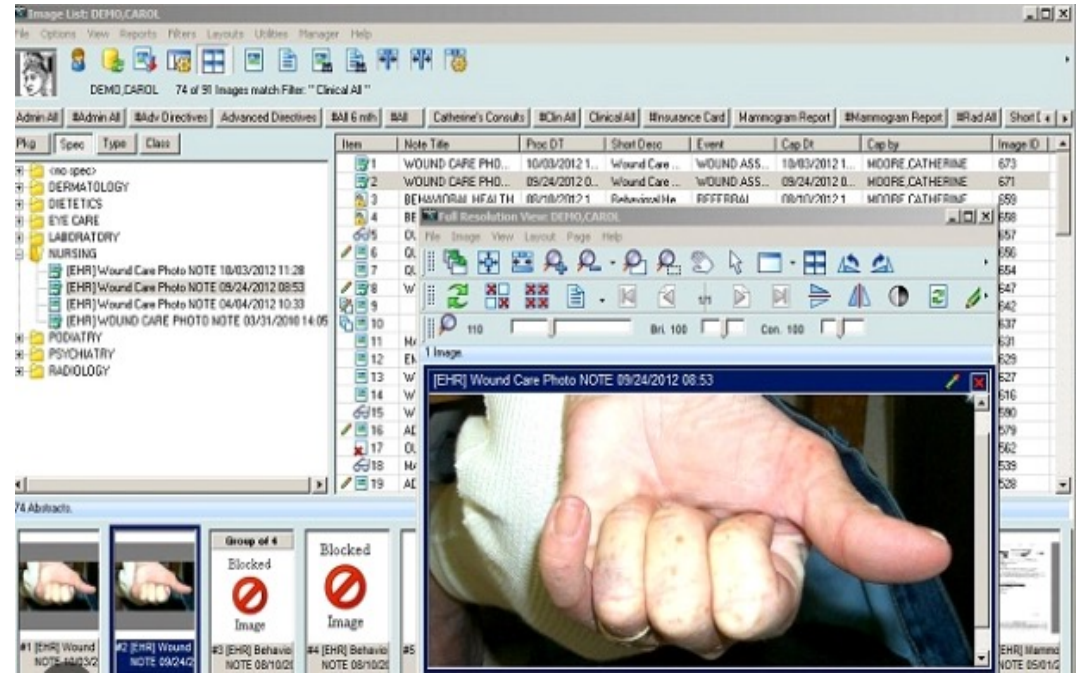
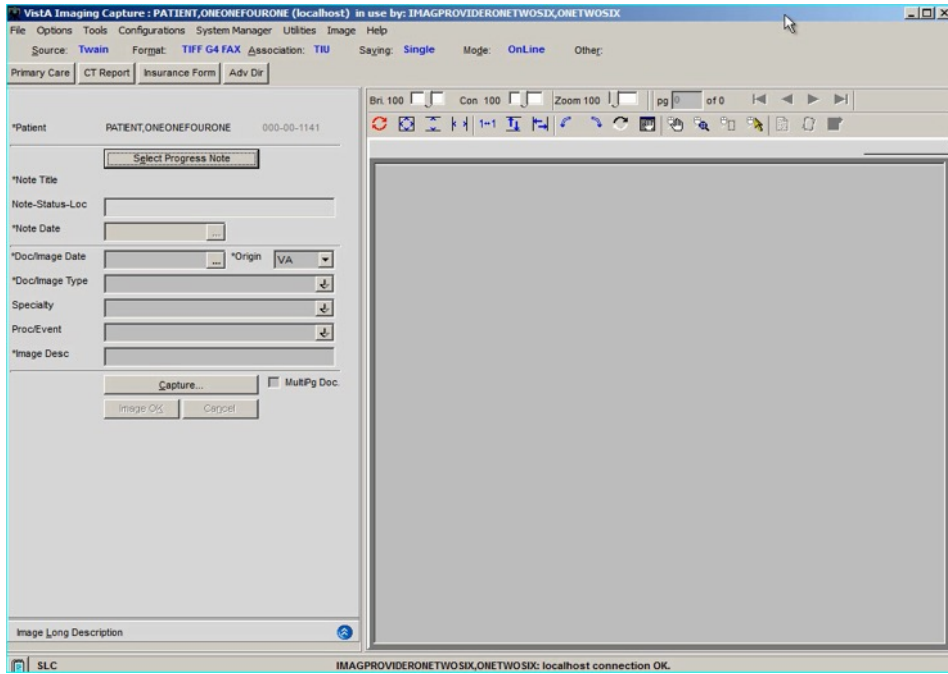


Cache for  
Archive  
Appliance



Tier 2 Archive  
Image Archive  
Storage

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# VISTA IMAGING CAPTURE AND DISPLAY



# Capture and Display

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- VistA Imaging is certified by the Food and Drug Administration as a medical device and MAY NOT be modified
- VI Capture and Display are currently FDA certified for Windows 10 OS Workstations
- VistA Imaging Capture and Display can be used from within the RPMS EHR or as standalone desktop software applications on Windows 10 OS Workstations

# VistA Capture Software

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An RPMS MAG SYSTEM security key must be assigned to the person who will configure the VI Capture workstation

- This key should only be assigned to the VistA Imaging Coordinator, I.T. support staff, and/or the Clinical Application Coordinator,(CAC)

VI Capture software is highly configurable giving flexibility to each site

- Capture workstation settings are saved in the **mag.ini** file
- A backup copy of the mag.ini should be saved to a network drive for easy accessibility when workstations are added or replaced

# Scan or Import

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The VI Capture Source/Format options for capture:

- TWAIN Device – Scanner (resolution 300 dots per inch, performance of 25 pages/minute) and/ or Camera ( 4 megapixels)
- Importing is used to capture images in electronic format (PDF, digital photographs, etc.
- Import - pdf file(s) for multiple page color documents, or a combination of color and black-and-white pages
- Images can be imported from a local workstation, a network folder, a digital camera, CD or DVD
- Import Directory options can be specified for the workstation by clicking Tools and Import Options. If the Source has been set to Import, the Import Directory Options can be selected
- The default import directory is C:\Program Files (x86)\vista\imaging\import

# Scan/Import Settings

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VI Capture Index fields are specifically configured for the Capture Associations and may be tied to specific RPMS Packages:

- Clinical Procedure, Laboratory, Progress Note, Consult, Surgery, Radiology, Medicine
- Patient Clinical, Administrative and Photo ID
- Updated Index Terms are distributed as VistA Imaging software patches

Requests for additional Index Terms or modifications should be sent to the IHS VistA Imaging Coordinator



# Configuration Buttons

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It is suggested that Configuration Buttons be created for the workstation, to ensure accuracy, consistency, and efficiency in the document scanning/import process

Only TIU (Text Integration Utility) progress notes will be associated with an RPMS note title

A new note (title) can be selected by the end user to match the document

The new note can be filed as signed, unsigned, or electronically filed based on the scanner's security key(s)

**NOTE:** Unsigned notes are blocked from view until signed

Index fields can be set to 'HOLD' when appropriate and supervisor-approved

# Scanning Clinical Documents

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- An EHR visit does not need to be created to capture/scan internal or external patient documents
- Progress notes created in VI Capture are historical visits, meaning the visit is not used for workload credit
- Recommend that maintenance and storage of all outside source documents be separate from the paper chart copy
- Patient data that can be entered directly into the IHS EHR should NOT be scanned

# Scanning Administrative Documents

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- Configuration buttons should be created for consistency in scanning
- Administrative documents are typically scanned while patient is present and returned immediately
- Documents are NOT attached to Progress Notes
- Administrative documents are available for viewing in VistA Imaging but NOT in EHR

# Image Quality Control

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1. Correct Patient Identifiers – two of three positive identifiers?
2. Correct Progress Note title
3. Document Legibility
4. Signatures as applicable
5. Rubberstamp blank pages
6. Verify Index fields match the Scanned Document
7. QA that image was saved to the RPMS VistA File
8. Stamp with date, time and initials

**Important:** Supervisor QA review should be defined in the local policy/procedure and followed

# Disposition of Source Documents

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Before destroying the document the HIM Supervisor/designee must ensure:

- QA control processes are in place
- Imaged document is stored, accessible, and retained according to the retention requirement
- Minimum resolution requirement

# When can you destroy the source document?

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Source documents may be destroyed:

- Immediately after scanning if **100%** QA is performed **or**
- After 60 - 90 days if **less than 100%** of QA is performed

**Note:** Destruction of these documents must be done in accordance with HIPAA 45 CFR 164.310(d)(2)(i) and (ii) and all applicable federal and state regulations.

# PROPER DESTRUCTION OF SOURCE DOCUMENT

- Documents pending destruction must be stored in a secure area.
- Cross cut shredding
- Burning, pulping, or pulverizing
- If using a vendor to destroy documents the following privacy guidelines will be included in the *business associate agreement* 45 CFR 164.308(b), 164.314(a), 164.502(e), and 164.504(e).
  - Documents placed in locked dumpsters/receptacle that is designated for destruction must be secured and accessed by authorized personnel.

# Policy and procedure

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- Standardize operations
- Explain required practice
- Reduce re-work
- Communicate desired outcomes
- Promote compliance.



# Policy and procedure - template

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- A. Purpose
- B. Background
- C. Definitions
- D. Scope
- E. Responsibilities
- F. Procedure
- G. References
- H. Attachments



Policy QA  
Scanned Images

# VistA Display Software

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- VI Display is for Clinical & Administrative staff responsible for providing patient care and maintaining the patient's IHS Electronic Health Record
- VI Display is intended for viewing of scanned/imported documents, photos, and certain additional images
- VI Display is NOT designed for interpretation of Radiology exams or EKG Wave forms
- The Main VistA Imaging Display window has menus with file drop down selections
- The imaging software also provides shortcut key combinations for 508 compliance



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# VISTA RAD FOR RADIOLOGY IMAGING



# Radiology Workflow

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1. Provider orders Exam or Rad Tech Orders Exam
  - Status in EHR is “Pending”
2. Rad Tech Registers Exam
  - RA Modality worklist populated
  - Status in EHR is “Active”
  - Status in Radiology Package is “Waiting for Exam”

# Radiology Workflow - Continued

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3. Rad Tech queries the modality worklist from the modality, takes picture, reviews images using VI, edits exam to Examined
  - Status in EHR is “Scheduled”
  - Status in radiology Package is “Examined”
  - Entry taken off of Modality worklist
4. Report is entered in Radiology Package
  - Status in EHR is “Complete”; notification sent to provider
  - Status in Radiology Package is “Complete” and Report is “Verified”.  
Releases case #

# VistA RAD Quality Assurance

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1. Ensures that all images are stored in VI
2. Alerts Rad Tech to complete DICOM corrections
3. Ensures Radiologist or provider is viewing all images

# Use of VistA Rad for QA Review

RA confirms image and patient information is correct before updating case status to 'Examined'

Manager - In Use by MOORE,CATHERINE on 127.0.0.1

File View Dictation Help

Exam List Refresh Exams Patient Lookup Route Exams

Patient Exams Unread Exams Custom Exam History

DEMO,CAROL DEMO,ALICE JANENE

28 Radiology Exams for: DEMO,ALICE JANENE (109629) -- ALL exams are listed.

Day/Case	Lock	Procedure	Modifier	Image Date/Time	Status	# Img	Onl	RC	Site	Mod
092910-71		SPINE CERVICAL MIN 2 VIEWS		09/29/2010@10:31	WAITING FOR EXAM	4	Y		EHR	CR
042110-54		CT HEAD W/O CONT		05/27/2010@12:49:45	EXAMINED	141	Y		EHR	CT
041310-55		CHEST 2 VIEWS PA&LAT		04/13/2010@14:56:59	EXAMINED	2	Y		EHR	CR
031710-50		FOOT 3 OR MORE VIEWS	RIGHT	03/17/2010@16:40:09	EXAMINED	3	Y		EHR	CR
031710-49		KNEE 4 OR MORE VIEWS	LEFT	03/17/2010@15:00:49	EXAMINED	3	Y		EHR	CR
031610-48		CT THORAX W/CONT		03/16/2010@09:33	WAITING FOR EXAM		n/a			
031110-46		OB U/S		03/11/2010@16:05	WAITING FOR EXAM		n/a			
030910-44		CHEST 2 VIEWS PA&LAT		03/17/2010@15:04:40	EXAMINED	2	Y		EHR	CR
030810-43		SPINE THORACIC 4 OR MORE V		03/08/2010@17:12:26	COMPLETE	4	Y		EHR	CR
030310-40		CT ABDOMEN W/O CONT		03/03/2010@14:52	EXAMINED		n/a			
030310-39		ELBOW 3 OR MORE VIEWS	RIGHT	03/03/2010@11:54	EXAMINED		n/a			
030210-37		CHEST 2 VIEWS PA&LAT		03/02/2010@15:02	EXAMINED		n/a			
100109-38		ELBOW 3 OR MORE VIEWS	RIGHT	10/01/2009@15:29	EXAMINED		n/a			
071709-38		FOREARM 2 VIEWS	RIGHT	07/17/2009@08:21	COMPLETE		n/a			
011609-36		ANKLE 3 OR MORE VIEWS		01/16/2009@09:50	EXAMINED		n/a			

Open With  T: MON1\_SYS\_INT Open Open/No Prior ReadList Close Exams

Report Requisition Health Summary Patient Profile Next Stop Load

Open/Reserved Exams

Case #	Lock	Patient	Procedure	Load Status	HP Selected
092810-69		DEMO,CAROL	ANKLE 3 OR MORE VIEWS	Loaded\Displayed	GenRad_1-hd_SYS_INT_HP



# PHOTOGRAPHS IN THE LEGAL HEALTH RECORD



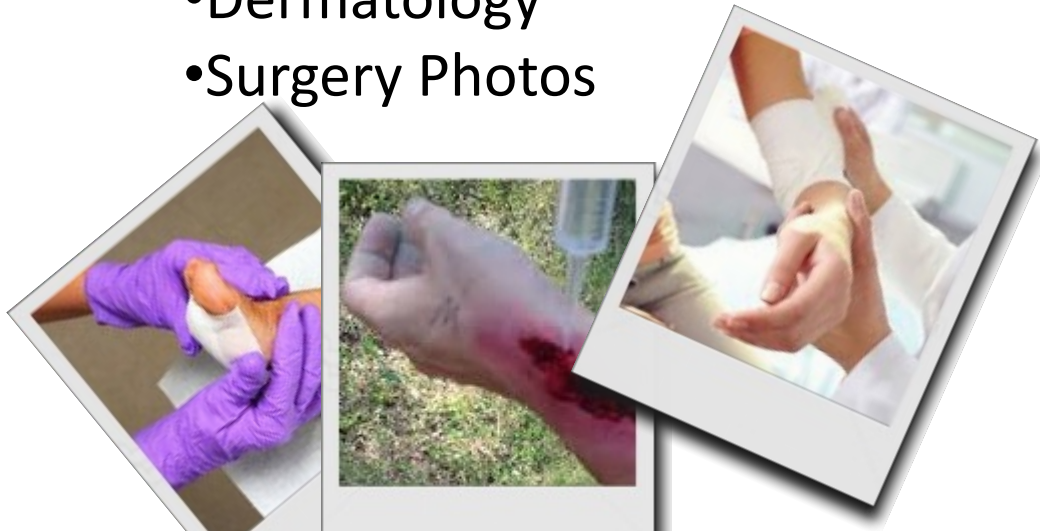


# Clinical vs Administrative Photos

Photographs fall into two main categories: **Clinical** and **Patient**

Clinical Photographs include:

- Wound-Care Photos
- Dermatology
- Surgery Photos



**Include** in the Electronic Health Record  
(Clinical Document)

Patient Photographs include:

- Driver's License / Photo ID / Tribal ID
- In-House Photographs (face, mug shot, etc.)



**Exclude** from the Electronic Health Record  
(Administrative Document)

# Using Photographs

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## **Important:**

Any photograph that is acquired is part of the patient's legal medical record and is protected under HIPAA and other applicable regulations

**The decision to capture photographs should be made carefully**

The use of photography in health care has gotten a lot of bad press. From TikTok & Twitter to news and ESPN, the inappropriate and unauthorized use or distribution of Protected Health Information is widespread

# Photos and Social Media

Sunday, May 23, 2004 Houston Chronicle ★★ 3E  
**PERSONAL HEALTH**

## Nurse surrenders license after taking picture of patient's

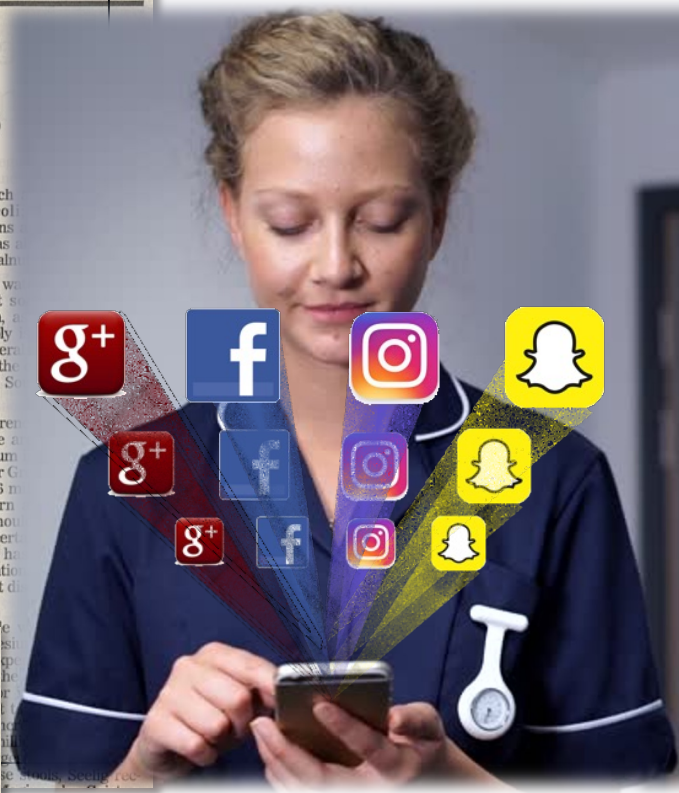
Sunday, May 23, 2004 Houston Chronicle ★★ 3E  
**SPORTS**  
**Miami hospital launches internal probe over Jason Pierre-Paul's leaked medical chart**



Houston Chronicle ★★ 3E  
**PERSONAL HEALTH**  
**Nurses Fired Over Cell Phone Photos of Patient**  
*Case Referred To FBI For Possible HIPAA Violations*

A health-conscious woman asked me the other day whether she should be taking magnesium with her calcium. I thought not, but that was before I had examined the same situation. Magnesium is important to every function and tissue in the body. It plays a critical role in a vast array of acute and chronic diseases. Some 300 to 400 functions depend on it. But studies strongly suggest that when it comes to magnesium, we need to start by examining our diet. The highly processed foods that most Americans live on are sorely lacking in the mineral. The latest national studies found that as many as three-fourths of Americans do not

etables such as spinach, corn and broccoli; fruits such as dates, raisins and bananas; and nuts such as almonds, cashews, peanuts, walnuts and pecans. Drinking water, too, can be a significant source of dietary



# Important Practices

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1. Informed Consent must always be obtained before taking photographs
2. Photography by a healthcare professional in an environment that protects patient dignity and rights
3. All images and cameras must be stored in a secure environment with controlled access
4. The photographer should then import the photo directly into VistA Imaging
5. Avoid including faces, eyes, recognizable tattoos, or birthmarks whenever possible

# Informed Consent for Photos

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*Informed Consent should explicitly state:*

1. The date, nature, and reason for the photographs
2. Consent is strictly voluntary and can be withdrawn at any time
3. Patients must be explicitly informed that refusing to consent will not affect their care
4. How and where the photograph will be used, the purpose, and the intended audience

# Policies and Procedures

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Separate policies and procedures are needed for:

1. Wound-Care Photos
2. Patient Photographs
3. Trauma Photographs (where informed consent is not possible)
4. Photographs used for education, academic, training purposes, or marketing

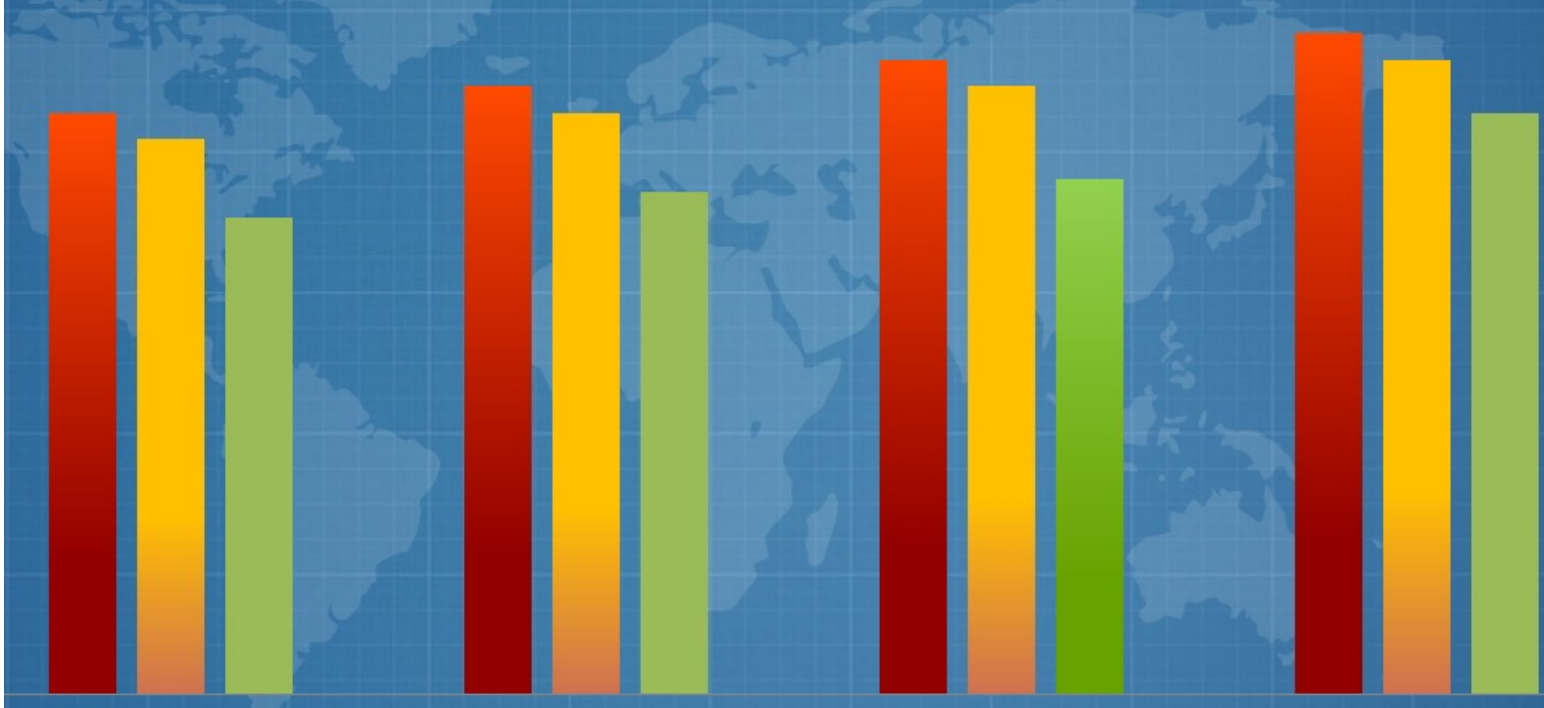
***“Random photography with the ubiquitous cell phone camera is asking for a legal suit and should be forbidden... Educational uses are of insufficient value to society to permit the violation of patient privacy without explicit informed consent.”***

Matthew J. Walsh, MD.  
Associate Professor  
Department of Emergency Medicine  
University of New Mexico

# Patient Photograph in EHR

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- Policies and software do not currently support this
- Enhancement request has been submitted by user
- May require software development
- Guidance is needed
- Watch for updates



# CURRENT IHS VI STATS

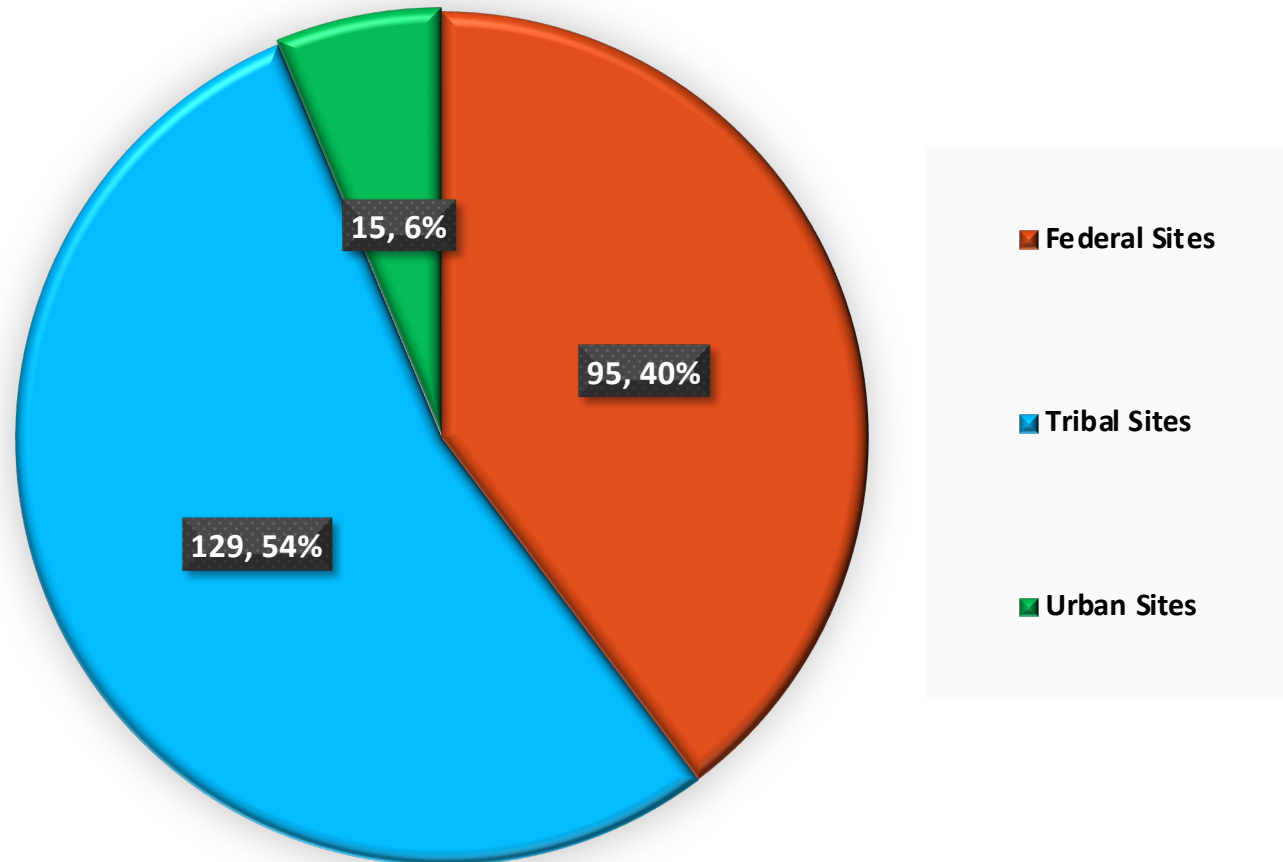




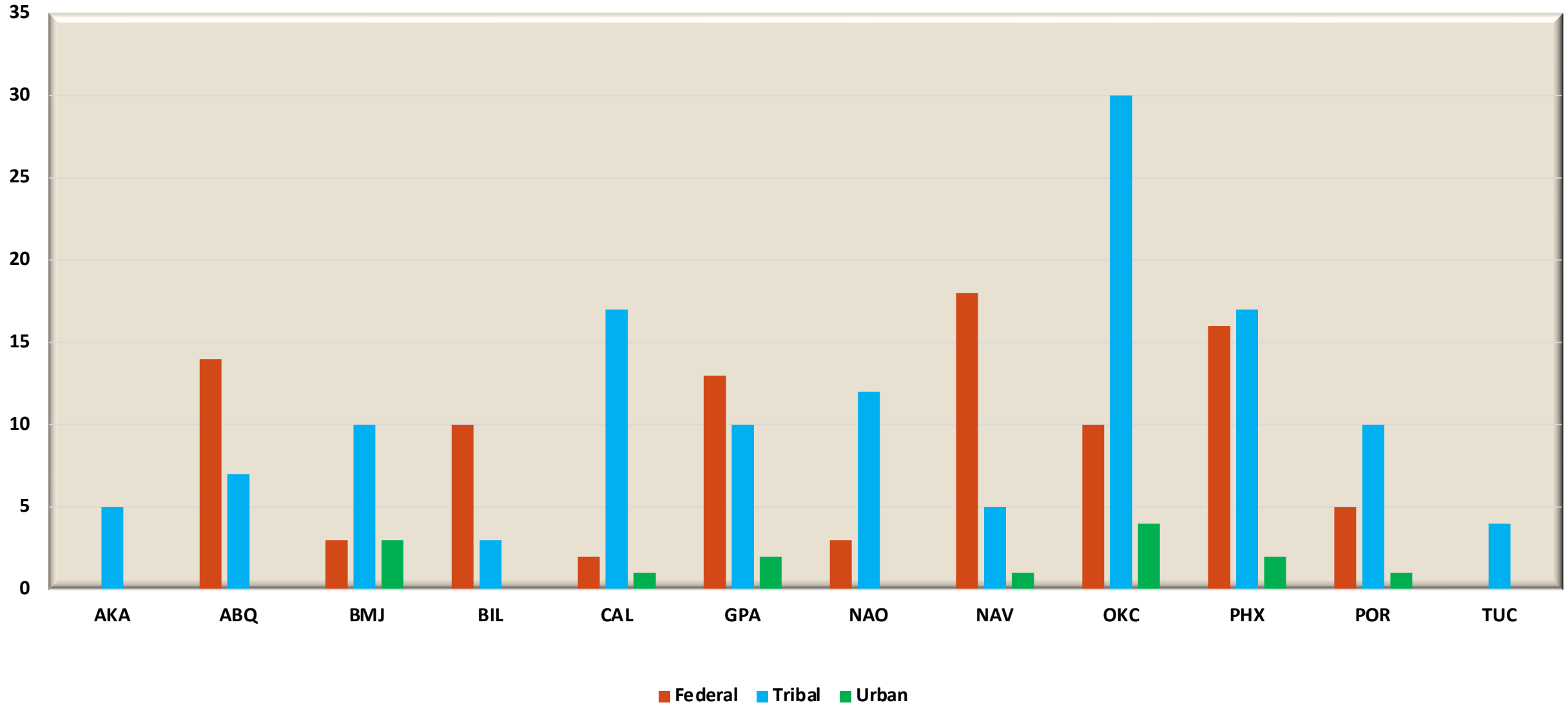


# Statistics for IHS VistA Imaging

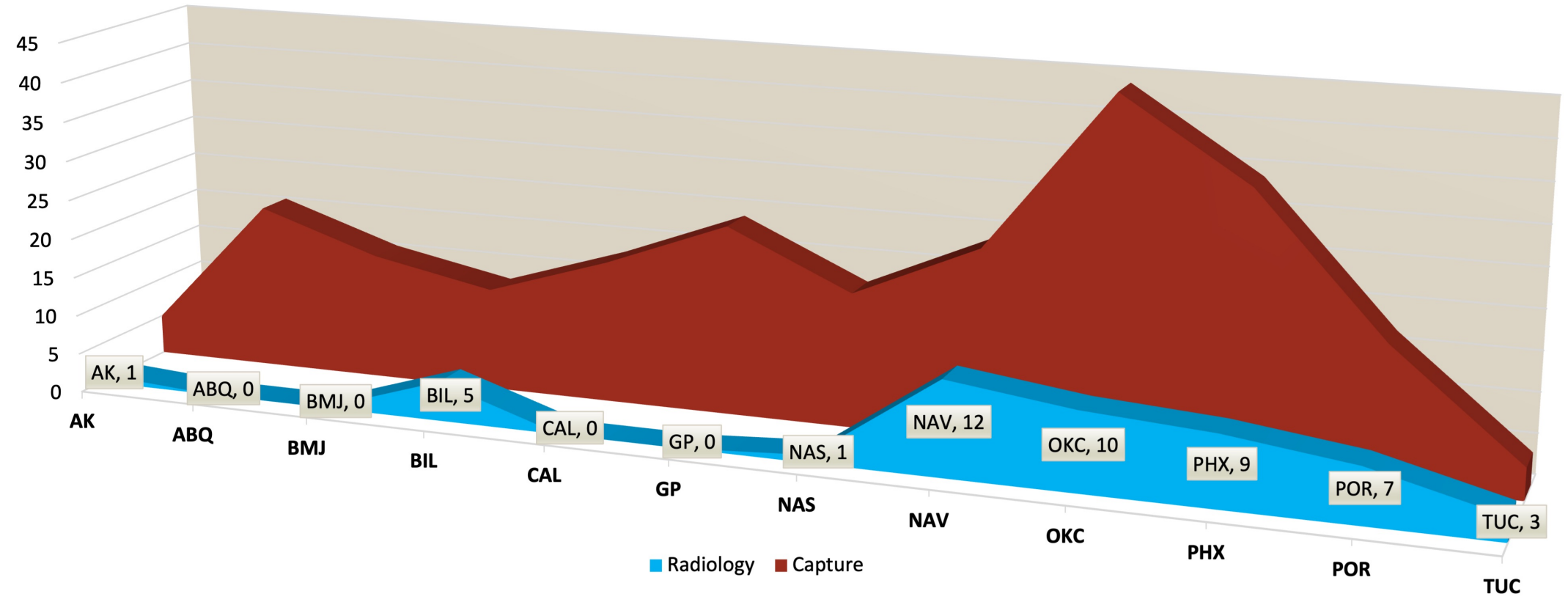
## 2022 VistA Imaging Supported Sites by Type (IHS, Tribal, or Urban)



# VistA Imaging use by Type in each Area



# Radiology vs Scanning/Capture by Area



# VistA Imaging File Consumption

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Since 2013, IHS has stored approximately 163 TB of image files  
for scanning + DICOM





# VISTA IMAGING SUPPORT – SOFTWARE + HARDWARE





# Support for the IHS VistA Imaging Program

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Tier 1 Local

Tier 2 Area

Tier 3 OIT

Hardware

- **TTG / Peraton**– Hardware triage
  - Each site/area must also have a maintenance agreement in place

Software (Clinical Capture and Display, VistARad, DICOM GWs, Background Processing Queue)

- **RPMS IMAGING SUPPORT – OIT/DIT (Lee & Leslie + ViTel Net)**
- **VA Enterprise Desk, CLIN3 team**
- Accusoft – ImageGear license for Capture/Display software
- Laurel Bridge – Licenses for the DICOM Gateways

# IHS Area offices/sites have and use for production, support:



Capture,  
Display



580 x 232 - fujitsu.com

RPMS HIS



Tier 2 Cache



Tier 1 RAID



Background Server



AA WORM,  
NetApp

Modality, DICOM GWs



# OIT VistA Imaging testing and support

## RPMS IMAGING

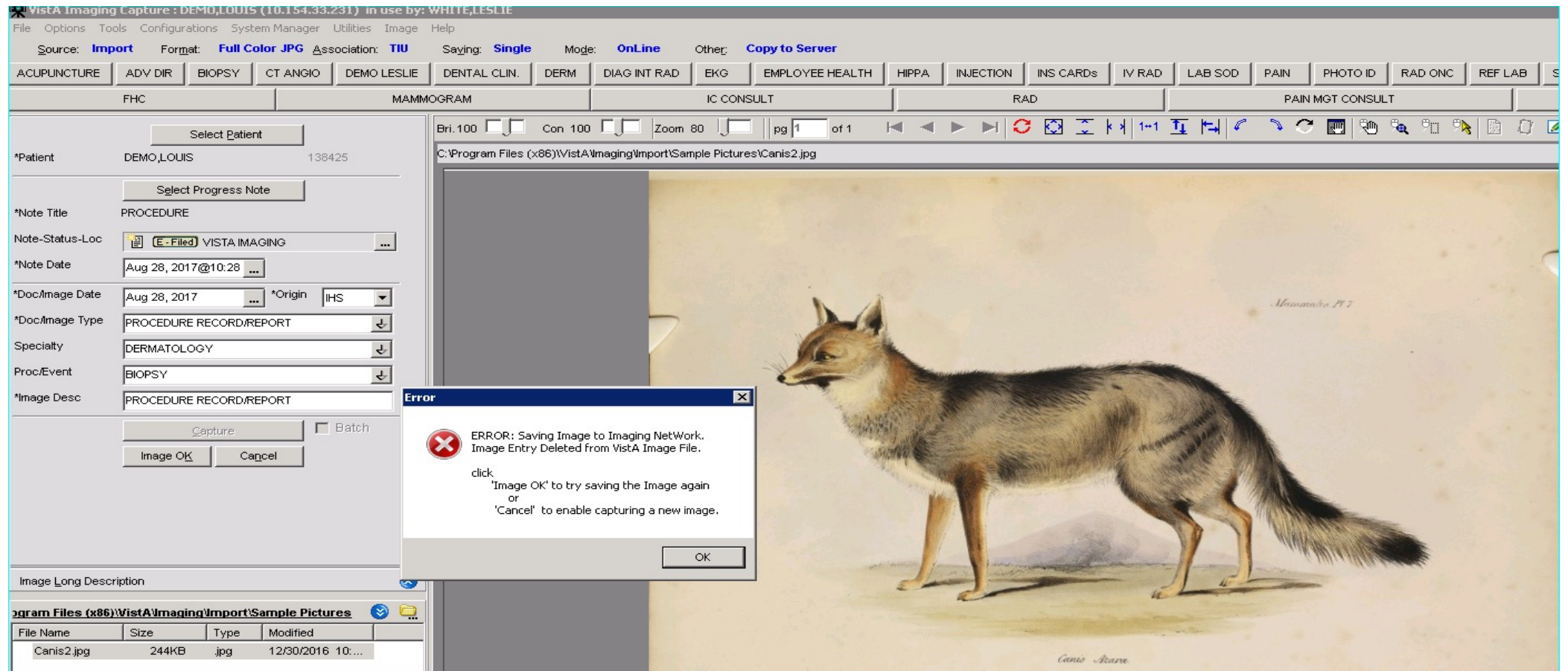


RPMS HIS





# VI users are VistA Imaging SMEs



# Our users are VistA Imaging SMEs

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What to do when an error dialog (example below) displays:

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**Error: Saving Image to Imaging Network.  
Image Entry Deleted from VistA Image File  
Click**



**'Image OK' to try saving the Image again**

**Or**

**'Cancel' to enable capturing a new image**

# Clinical Capture – Message History, Example 1

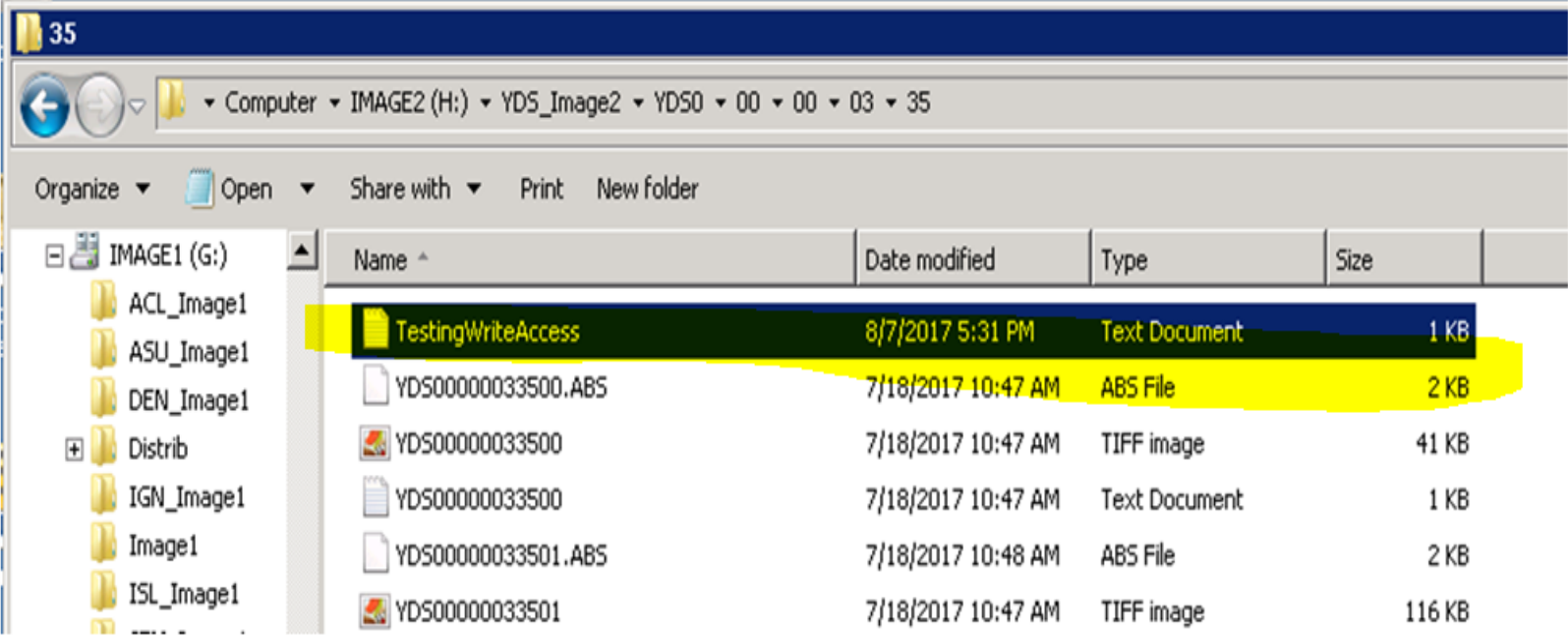
```
Imaging Session: Message History
File Options Refresh Help
10.29.33.470 *
10.29.33.470 * ----- Params ----- for RPC : -- TIU IS THIS A CONSULT?
10.29.33.470 * ----- Broker.clearParams = True
10.29.33.470 * ----- Broker.clearResults = True
10.29.33.470 * literal 1543
10.29.33.501 * ----- Results ----- .Results[]
10.29.33.501 * 0
10.29.33.501 * ----- End Results ----- TIU IS THIS A CONSULT?
10.29.33.501 * NewNote: NewAuthorDuz :
10.29.33.501 *
10.29.33.501 * ----- Params ----- for RPC : -- MAG3 TIU NEW
10.29.33.501 * ----- Broker.clearParams = True
10.29.33.501 * ----- Broker.clearResults = True
10.29.33.501 * literal 19311
10.29.33.501 * literal 1543
10.29.33.501 * literal 0
10.29.33.501 * literal S
10.29.33.501 * literal
10.29.33.501 * literal 495
10.29.33.501 * literal Aug 28, 2017@10:28
10.29.33.501 * literal
10.29.33.891 * ----- Results ----- string
10.29.33.891 * 143^Note was created.
10.29.33.891 * ----- End Results ----- RPC : MAG3 TIU NEW
10.29.33.891 Filing the Images to TIU...
10.29.33.938 Images added to TIU OK
10.29.33.938 Connecting to Network Image Server...
10.29.33.969 * Failed to open security to : \\NPADITSRV2-DEV\Image1$\MU20\00\00\00\04\MU200000000453.JPG
10.29.33.969 MagSecurity: FATAL: 86 ERROR_INVALID_PASSWORD { The specified network password is not correct. } \\NPADITSRV2-DEV\Image1$\MU20\00\00\00\04\MU200000000453.JPG
10.29.33.969 * ----- Image Security for Filename: \\NPADITSRV2-DEV\Image1$\MU20\00\00\00\04\MU200000000453.JPG
10.29.33.969 * ----- \\Server\Share : \\NPADITSRV2-DEV\Image1$
10.29.33.969 * ----- ExtractFilePath \\Server\Share : \\NPADITSRV2-DEV\Image1$\MU20\00\00\00\04\
10.29.33.969 * ----- OSConnectToServer Start : 8/28/2017 10:29:33 AM
10.29.33.969 * ----- UserName: "D1\OITMU.IU"
10.29.33.969 * ----- FATAL: 86 ERROR_INVALID_PASSWORD { The specified network password is not correct. } \\NPADITSRV2-DEV\Image1$\MU20\00\00\00\04\MU200000000453.JPG
10.29.33.969 * ----- OSConnectToServer Fail msg : FATAL: 86 ERROR_INVALID_PASSWORD { The specified network password is not correct. } \\NPADITSRV2-DEV\Image1$\MU20\00\00\00\04\MU
10.29.33.969 * ----- OSConnectToServer Fail time : 8/28/2017 10:29:33 AM
10.29.33.969 * ----- Disconnect Successful
10.29.33.969 ERROR: Saving Image to Imaging Network. Deleting Image Entry from Vista Image File...
10.30.32.547 ERROR: Saving Image to Imaging Network.
Image Entry Deleted from Vista Image File.
```

# More Message History – Example 2

```
Imaging Session: message history.
File Options Help
10:42:15 literal
10:42:15 * ----- Results ----- string
10:42:15 * 1250247 Note was created.
10:42:15 * ----- End Results ----- RPC : MAG3 TIU NEW
10:42:15 Filing the Images to TIU...
10:42:15 Images added to TIU OK.
10:42:15 Filing the Image data...
10:42:15 * IsGearClear(mg1) = False
10:42:15 * 244898 \\VABRSFOD1CLU2A\RICH_IMAGE1$\PC00\00\00\24\48\PC000000244898.TIF
10:42:15 The Image data was filed OK.
10:42:15 * Image IEN 244898
10:42:15 Connecting to Network Image Server...
10:42:16 * Failed to open security to: \\VABRSFOD1CLU2A\RICH_IMAGE1$\PC00\00\00\24\48\PC000000244898.TIF
10:42:16 MagSecurity: FATAL: SaveToFile: Cannot write to Image Server.
10:42:16 * --- Image Security for Filename: \\VABRSFOD1CLU2A\RICH_IMAGE1$\PC00\00\00\24\48\PC000000244898.TIF
10:42:16 * --- ParseServerShare: Input= \\VABRSFOD1CLU2A\RICH_IMAGE1$\PC00\00\00\24\48\PC000000244898.TIF
10:42:16 * --- ExtractFilePath: \\VABRSFOD1CLU2A\RICH_IMAGE1$\PC00\00\00\24\48\
10:42:16 * --- Result \\Server\Share: \\VABRSFOD1CLU2A\RICH_IMAGE1$
10:42:16 * --- Confirming UserName and Password...
10:42:16 * --- Username: D1\VABRSFOIU Password *****
10:42:16 * --- OSConnectToServer Start: 12/6/2017 10:42:15 AM
10:42:16 * --- OSConnectToServer Success: 12/6/2017 10:42:15 AM
10:42:16 * --- FATAL SaveToFile: Cannot write to Image Server.
10:42:16 * --- Attempted write to: \\VABRSFOD1CLU2A\RICH_IMAGE1$\PC00\00\00\24\48\
10:42:16 * --- GetLastError: 183 - Cannot create a file when that file already exists
10:42:16 * --- Disconnected: \\VABRSFOD1CLU2A\RICH_IMAGE1$
10:42:16 * --- Successful Disconnect from TShares.
10:42:16 * --- Successful Disconnect from TShares.
10:42:16 * --- Successful Disconnect from OSshares.
10:42:16 ERROR: Saving Image to Imaging NetWork. Deleting Image Entry from Vista Image File...
10:42:21 ERROR: Saving Image to Imaging NetWork. Image Entry Deleted from Vista Image File. click. Image OK to try saving the Image again or
10:42:21 Click 'Image OK' to save Image, or 'Cancel' to discard Image
```

# Local/Area IM find and delete the bad file “TestingWriteAccess”

Bad filename: "TestingWriteAccess."



Name ^	Date modified	Type	Size
TestingWriteAccess	8/7/2017 5:31 PM	Text Document	1 KB
YDS00000033500.ABS	7/18/2017 10:47 AM	ABS File	2 KB
YDS00000033500	7/18/2017 10:47 AM	TIFF image	41 KB
YDS00000033500	7/18/2017 10:47 AM	Text Document	1 KB
YDS00000033501.ABS	7/18/2017 10:48 AM	ABS File	2 KB
YDS00000033501	7/18/2017 10:47 AM	TIFF image	116 KB

# MAG Patch Releases

## September 2021 –

---

- VistA Imaging Mega-bundle, Version 3.0 (RPMS Namespace: MAG)
- 106 MAG KIDS files for RPMS
- All Clients updated
- The Mega Build will help sites utilizing DICOM gateways to move off of the 2003 OS Virtual Machines to the 2012 R2 OS VMs

## December 2022 –

Patch 1 Mini-bundle Patch 290 (RPMS Namespace:MAG)

- 19 MAG KIDS files for RPMS
- All Clients updated except VistA Rad

# Current VistA Imaging Clients

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VistA Imaging **Clinical Capture MAG\*3.0\*321**

VistA Imaging **Clinical Display MAG\*3.0\*290**

VistA Imaging **Background Processor** (Queue, Verifier, Purge) **MAG\*3.0\*325**

VistA Imaging **Legacy DICOM Gateways – LDGW MAG\*3.\*305**

Vista Imaging LDGW that includes the Hybrid DICOM Gateway or **HDIG – Query & Retrieve MAG\*3\*273**. (Laurel Bridge licensing is required from RPMS Imaging Support.)

DGW\_IHS\_Update\_SP1\_T04.exe

VistA Imaging **VistARad MAG\*3.0\*255 / ISI\*1.1\*0, ISI\*1.1\*110 and MAG\*3.0\*341**

# Next MAG release slated for October 2023

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Next bundle will include approximately 15 RPMS MAG KIDS files for installation.

- Client updates include: Clinical Display, Background Processor, DICOM Gateways (Legacy + Hybrid)
- Important due to the End of Support for MS 2012r2 Virtual Machines for the DICOM GWs.
- The release includes the approval of the DICOM GWs for MS 2019 OS.
  - Cache for IHS until IRIS licensing and release by IHS OIT in early 2024





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# VISTA IMAGING – FUTURE & HIT MODERNIZATION



# ISI Rad to replace VistA Rad

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- Imaging/Diagnostic client for radiology images
- Dependency is MAG\*3.0\*253
- Release includes 3 RPMS KIDS files
  - ISI
  - ISI Rad
  - MAG
- ISI Rad client
- Testing in progress with IHS and VA – Chinle, Kayenta, PIMC
- 99% look & feel of VistA Rad which is going to be deprecated
- Enterprise Agreement for IHS with ViTel Net
- Virtual trainings to be coordinated

# MS WIN11 OS for Desktop Applications

---

- Why not the VA?
- Clinical Capture
- Clinical Display
- ISI Rad
- Submit test scripts to VA
  - FDA approval required
    - All in one, or phased release approval?



# Future Considerations for OIT VistaA Imaging

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- 1.) Long-term storage plans for archiving : Research Enterprise Tier 2 alternative(s) for IHS, separate from the VA.
- 2.) Training – Lee Redlegs for RPMS IMAGING Support
- 3.) Image Viewer (EHR) – two ways to view within the Certified IHS EHR

# Long-Term Image File Storage

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Area Offices are beginning to consolidate storage

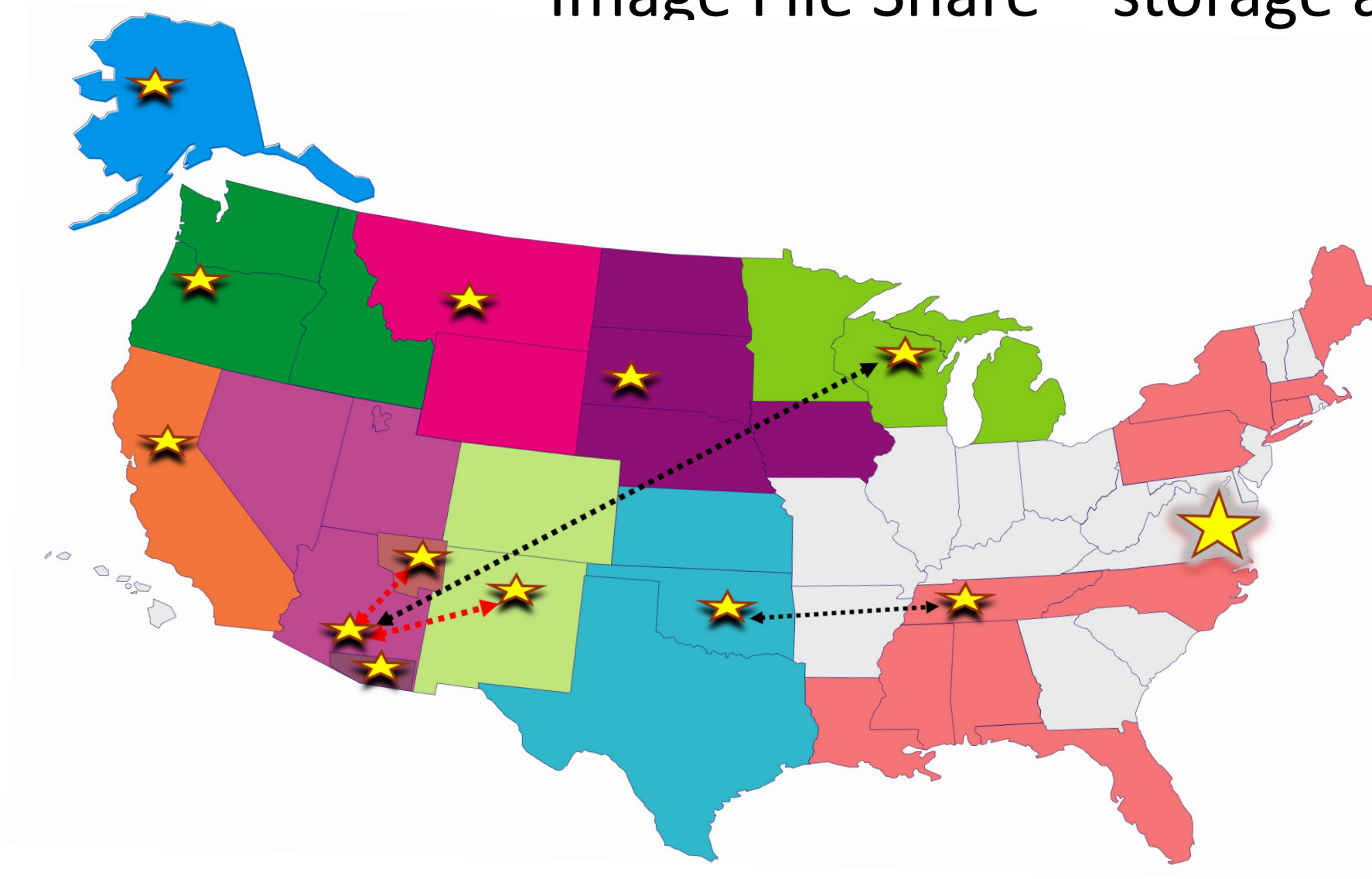
- Cost Effective
- Areas/sites that do not use the VI Radiology component
  - Overkill for the Archive Appliance or NetApp Storage Grid
  - jpg, txt, pdf files only
  - No DICOM files

Tribal sites, without DICOM, are bringing the Tier 1 servers local

- Bandwidth issues
- Delays in files storing and retrieving for viewing
- Errors

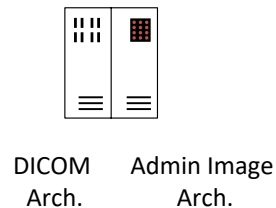
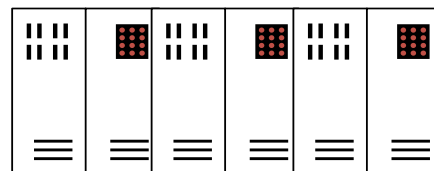
FY 24 Project Work Authorization (PWA) for RPMS IMAGING Support for Technical & Market Research for a best enterprise solution.

# Image File Share – storage across



# HIT Modernization Considerations for imaging

- ❖ For the Certified EHR – will image file shares be required?
  - RPMS/EHR/VI based on HTI-2,3,4 and/or USCDI v3, v4, etc.
- ❖ What is the plan for the move to the new Health Information System and Electronic Health Record? A future state....



## Planning:

- Number of years worth of image files.
- Both VI Radiology (DICOM) and VI Scanned (imported) image files.
- Metadata that points to patient information and image file information.
- Policies, Procedures.

# FY 24 Training

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## Clinical Capture and Display eLearnings

- More hands on training

## No training for VistARad, DICOM from VA or OIT

- Background Processor on the RPMS TNG page for VistA Imaging
- Area offices are looking at training (Clinical Capture/Display)

- Annual RPMS Training Survey for FY 2024?



# Image Viewer – the two viewers in EHR

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Incorporated into the Certified EHRp13

Retrieves images from VistA Image servers

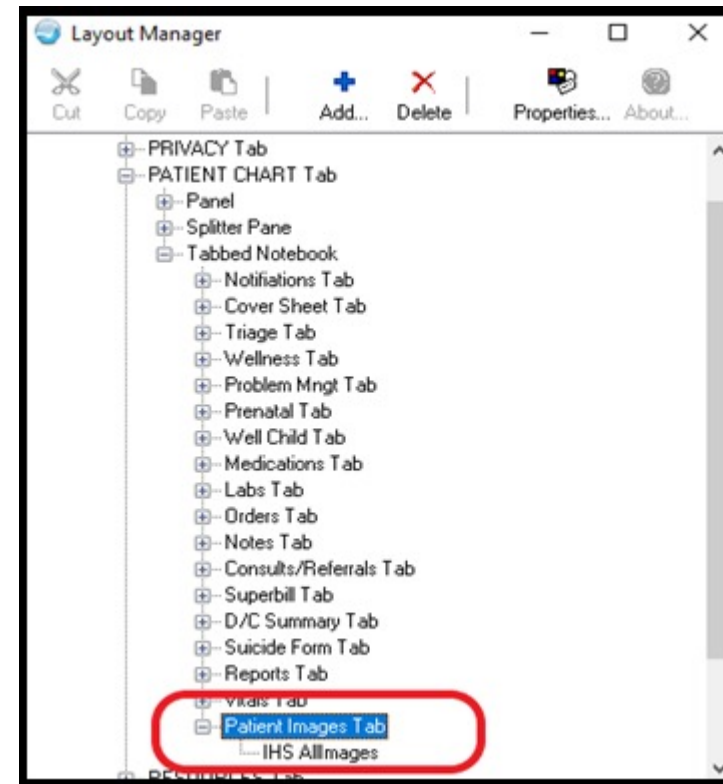
- Requires the VI Image User NetUser and Net Password
- **Does honor the Security Keys for VistA Imaging Clinical Display**

**\*NEW\*** All Images Viewer in EHRp34

- Please use!!
- Similar functionality as VI Clinical Display
- Embedded in the EHR, separate component

# Addition of the IHS All Images Object (1)

Layout Manager>Select Patient Images>Choose +Add>Expand Name and scroll down to and choose IHS ALLImages



# Addition of the IHS All Images Object (2)

Patient Image tab on the EHR GUI

The screenshot displays the EHR interface for a patient named Demo, Joe (ID: 855555, DOB: 23-Mar-2017). The interface includes a top navigation bar with tabs for PRIVACY, PATIENT CHART, RESOURCES, RCIS, DIRECT WebMail, EDashboard, and EPCS. Below this is a secondary navigation bar with various clinical tools like No Postings, FOC Lab Entry, Pharm Ed, and Refill \*Q\* MapRe... The main content area features a filter section with 'ALLDEMO' selected, and date range filters for 'Procedure Date From' (1/1/1900) and 'Procedure Date To' (9/14/2022). A list of dates is displayed, including August 26, 2022, August 08, 2022, July 21, 2022, June 10, 2022, October 06, 2021, October 05, 2021, and June 14, 2017. The 'Patient Images' tab in the bottom navigation bar is highlighted with a red box. The footer shows system information: REDLEGS.LEE, 2013-DEMO.NA.IHS.GOV, and 2013 DEMO HOSPITAL.

# Confirm assignment of appropriate security keys for users

---

MAG Security Keys are needed for viewing in the All Images Viewer

- MAGDISP ADMIN
- MAGDISP CLIN

Like VistA Imaging Clinical Display and IHS Image Viewer, local IT should assign the appropriate MAG security keys for staff that need to view patient clinical and/or administrative image files. This should reflect local job duties for appropriate image views

# Navigating the All Images Viewer (1)

The screenshot displays the 'All Images Viewer' interface within an EHR system. The window title is 'RPMS-EHR REDLEGS, LEE \*\* HQABQDITHST4 AIXINT \*\*'. The top navigation bar includes 'User Patient Refresh Data Tools Help eSig Clear Clear and Lock Community Alerts Dosing Calculator Rx Print Settings'. Below this, there are tabs for 'PRIVACY', 'PATIENT CHART', 'RESOURCES', 'ROIS', 'DIRECT WebMail', 'EDashboard', and 'EPCS'. The patient information section shows 'Demo, Joe' with ID '855555' and birth date '23-Mar-2017 (5) F'. The visit information indicates 'Visit not selected' for 'REDLEGS, LEE' by 'TEAM FOX / Kueny, Allen H'. A toolbar contains various icons and buttons such as 'No Postings', 'PUL Lab Entry', 'Pharm Ed', 'Refill "Q" MapRe...', 'Problem List', 'Advs React', 'Medications', 'CIC DIA', 'Asthma Action Plan', 'PWH Med Rec', 'eRx Receipt', 'Reviewed/Updated', and 'Visit Summary'. A secondary toolbar at the bottom of the main area includes 'Patient Images', which is circled in red. Below the toolbars, there are search and filter controls: a 'Filter' dropdown set to 'ALLDEMO', 'Procedure Date From' (1/1/1900) and 'Procedure Date To' (9/8/2022) date pickers, a 'Sort By' dropdown set to 'Procedure Date', and 'Procedure Date Order' options for 'Ascending' and 'Descending' (with 'Descending' selected). The main content area is a list of dates, each with a dropdown arrow: August 26, 2022; August 08, 2022; July 21, 2022; June 10, 2022; October 06, 2021; October 05, 2021; and June 14, 2017. The bottom status bar shows 'REDLEGS, LEE | 2013-DEMO.NA.IHS.GOV | 2013 DEMO HOSPITAL | 08-Sep-2022 20:16'.

# Navigating the All Images Viewer (2)

## Viewing Images

- Click, select down arrow. Click on Blue Description (Image Link) or double click on thumbnail to open Image Window.

RPMS-EHR REDLEGS, LEE \*\* HQABQDITHST4 AIXINT \*\*

User Patient Refresh Data Tools Help eSig Clear Clear and Lock Community Alerts Dosing Calculator Rx Print Settings

PRIVACY PATIENT CHART RESOURCES ROIS DIRECT WebMail EDashboard EPCS

Demo, Joe 856555 23-Mar-2017 (5) F Visit not selected REDLEGS, LEE TEAM FOX / Kuery, Allen H

No Postings POC Lab Entry Pham Ed Refill "Q" MapRe... Problem List Advx React Medications C/C DIA Athma Action Plan PwH Med Rec eRx Receipt Reviewed/Updated Visit Summary

Notifications Cover Sheet Triage Wellness Problem Mngt Prenatal Well Child Medications Labs Orders Notes Consults/Referrals Superbill D/C Summary Suicide Form Reports Vitals Patient Images

Filter Procedure Date From Procedure Date To Sort By Procedure Date Order

Clin All 9/11/2017 9/11/2022 Procedure Date Ascending Descending

August 26, 2022  
August 08, 2022  
July 21, 2022  
June 10, 2022  
October 06, 2021  
October 05, 2021

REDLEGS, LEE 2013-DEMO.NA.IHS.GOV 2013 DEMO HOSPITAL 11-Sep-2022 21:15

RPMS-EHR REDLEGS, LEE \*\* HQABQDITHST4 AIXINT \*\*

User Patient Refresh Data Tools Help eSig Clear Clear and Lock Community Alerts Dosing Calculator Rx Print Settings

PRIVACY PATIENT CHART RESOURCES ROIS DIRECT WebMail EDashboard EPCS

Demo, Joe 856555 23-Mar-2017 (5) F Visit not selected REDLEGS, LEE TEAM FOX / Kuery, Allen H

No Postings POC Lab Entry Pham Ed Refill "Q" MapRe... Problem List Advx React Medications C/C DIA Athma Action Plan PwH Med Rec eRx Receipt Reviewed/Updated Visit Summary

Notifications Cover Sheet Triage Wellness Problem Mngt Prenatal Well Child Medications Labs Orders Notes Consults/Referrals Superbill D/C Summary Suicide Form Reports Vitals Patient Images

Filter Procedure Date From Procedure Date To Sort By Procedure Date Order

Clin All 9/11/2017 9/11/2022 Procedure Date Ascending Descending

August 26, 2022

BH VI PROTECTED MEDICAL RECORD August 26, 2022 16:36 PM 1 item(s)

VI\_PROGRESS NOTE August 26, 2022 16:22 PM 1 item(s)

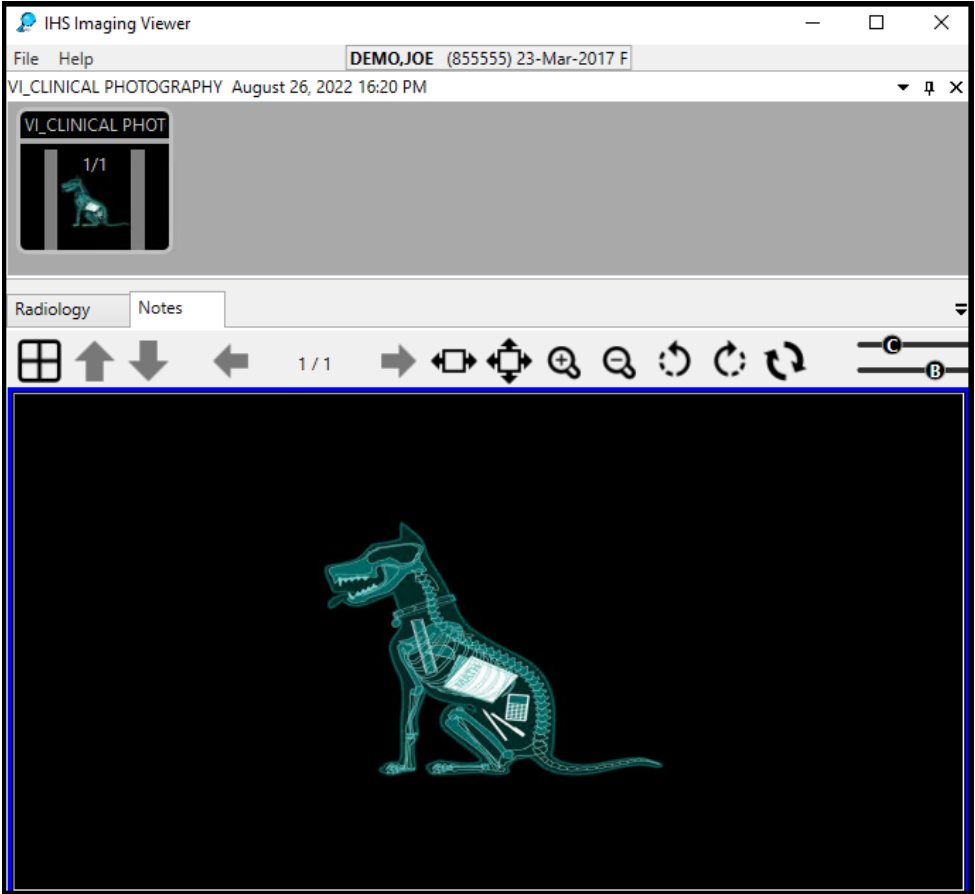
VI\_CLINICAL PHOTOGRAPHY August 26, 2022 16:20 PM 1 item(s)

Image Descr VI\_CLINICAL PHOTOGRAPHY  
Note Title VI\_CLINICAL PHOTOGRAPHY  
Type IMAGE  
Specialty ORTHOPEDICS  
Event PHOTOGRAPHY  
Captured By REDLEGS, LEE

August 08, 2022

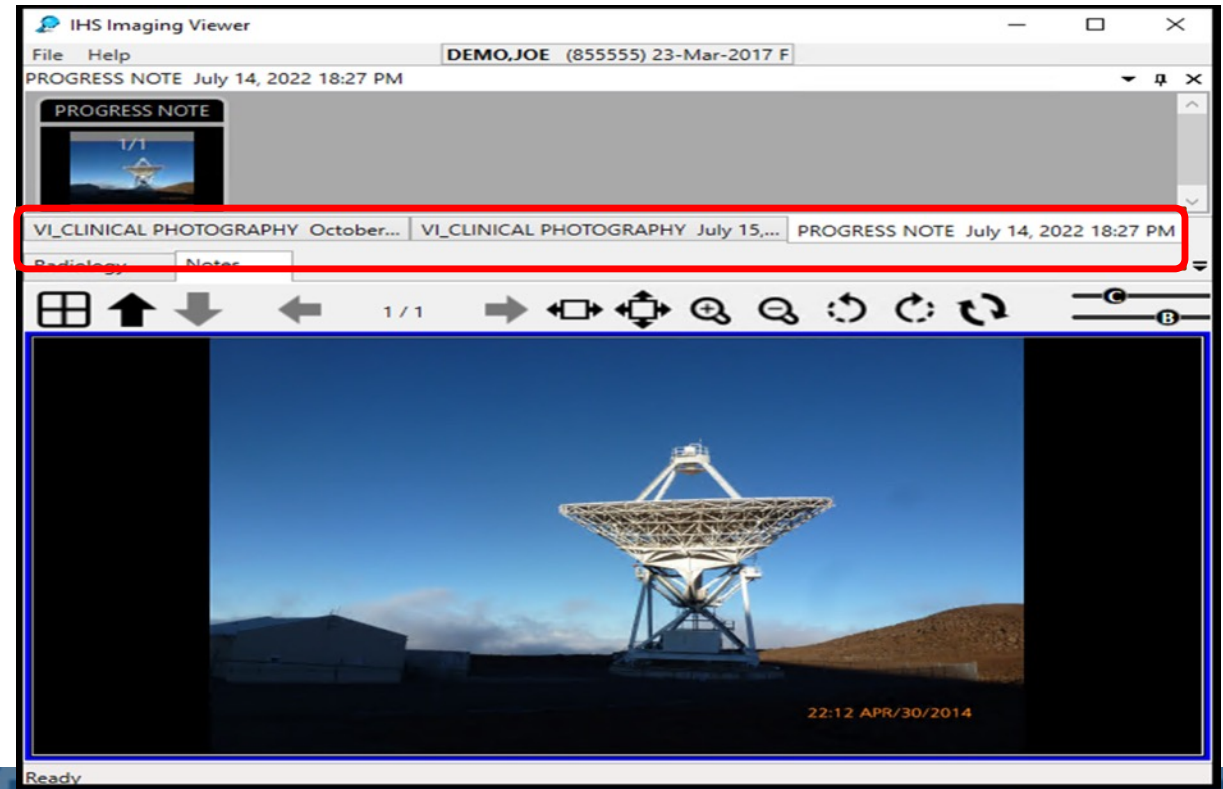
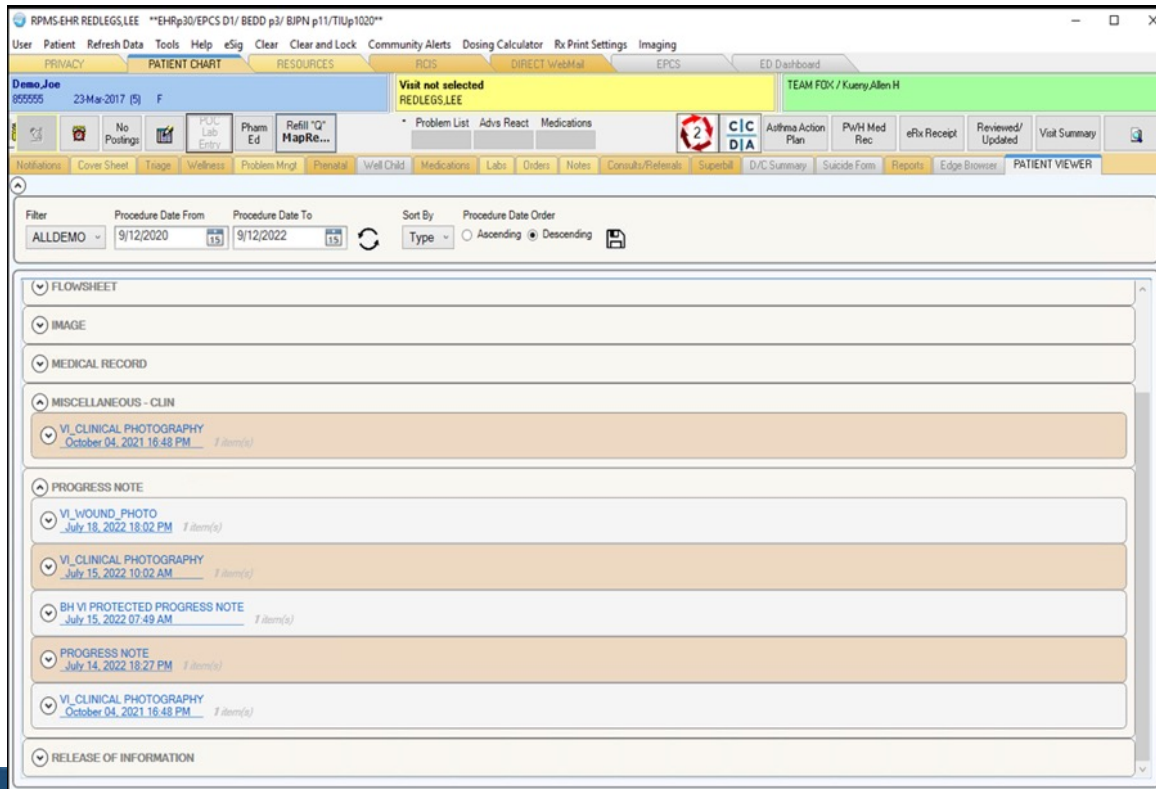
REDLEGS, LEE 2013-DEMO.NA.IHS.GOV 2013 DEMO HOSPITAL 11-Sep-2022 21:21

# Navigating the All Images Viewer (3)



# Navigate the All Images Viewer (4)

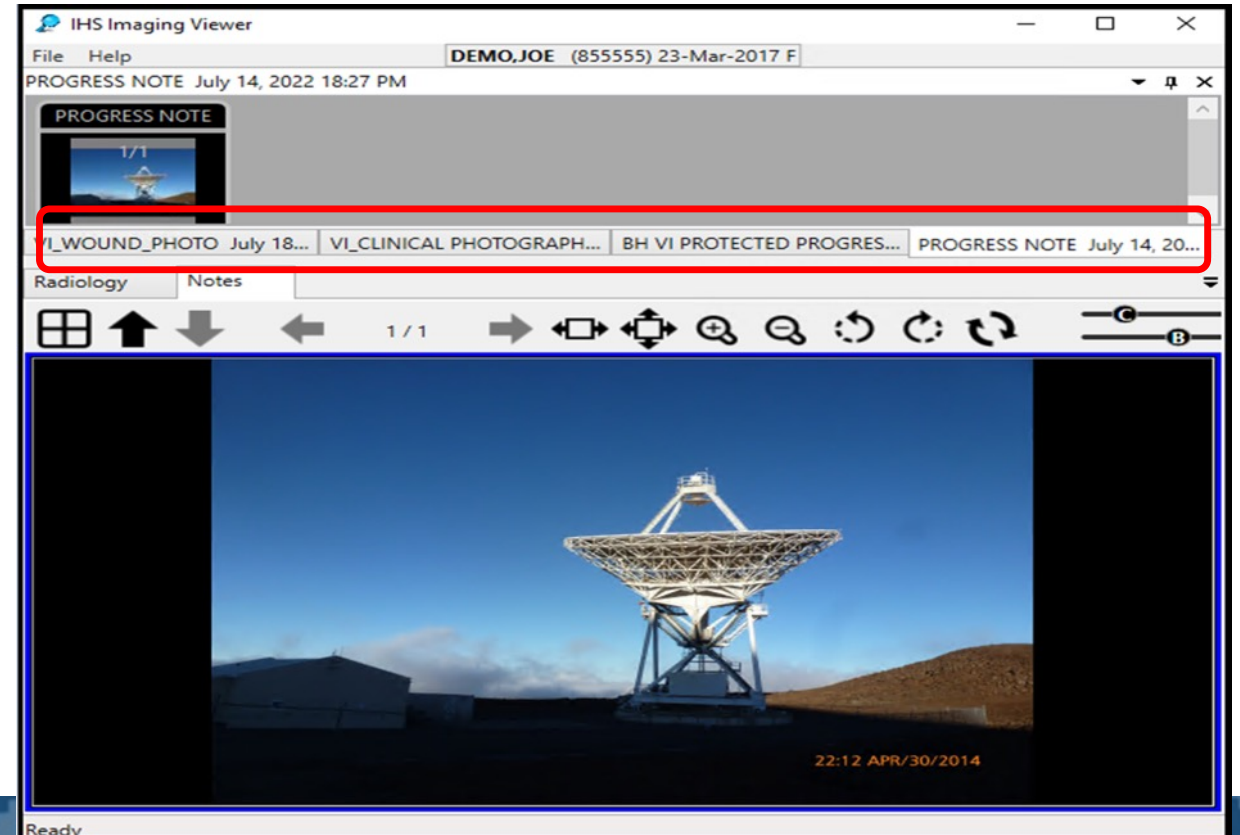
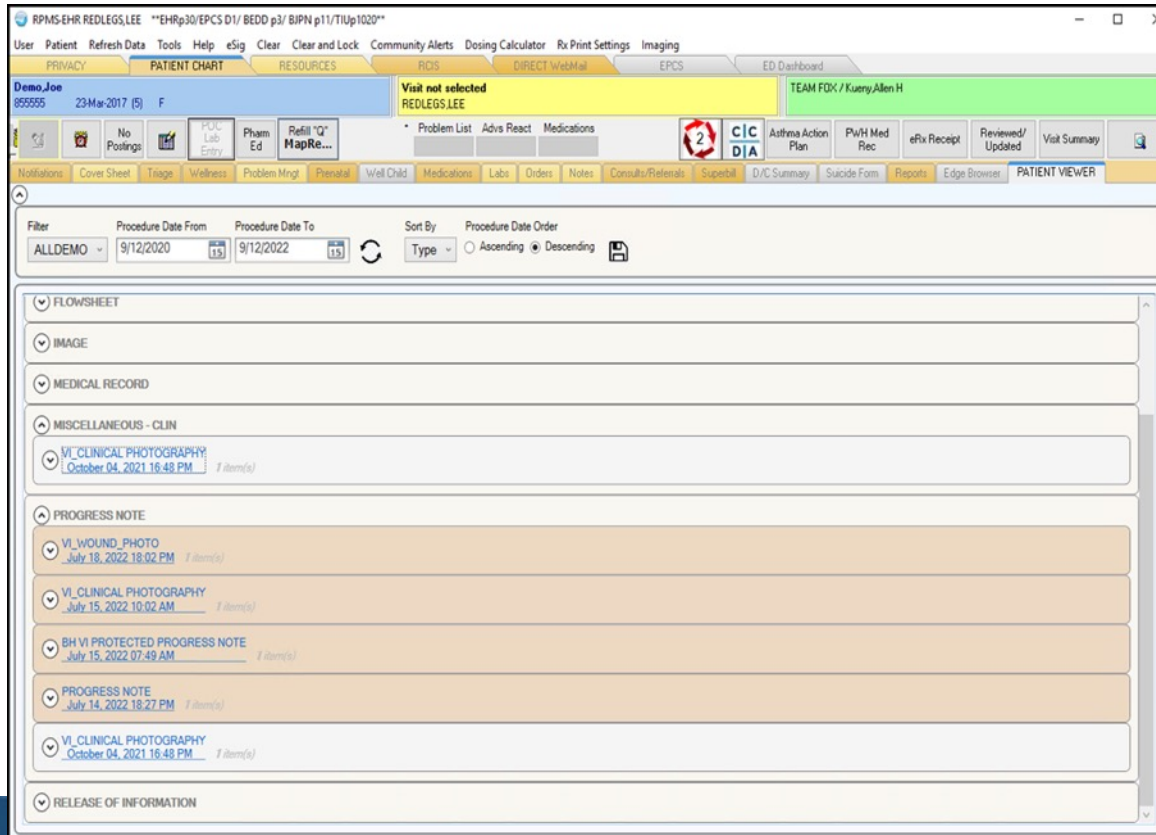
Selecting multiple images to view. Holding Control and left clicking on the wanted images. Then select the first image.





# Navigate the All Images Viewer (5)

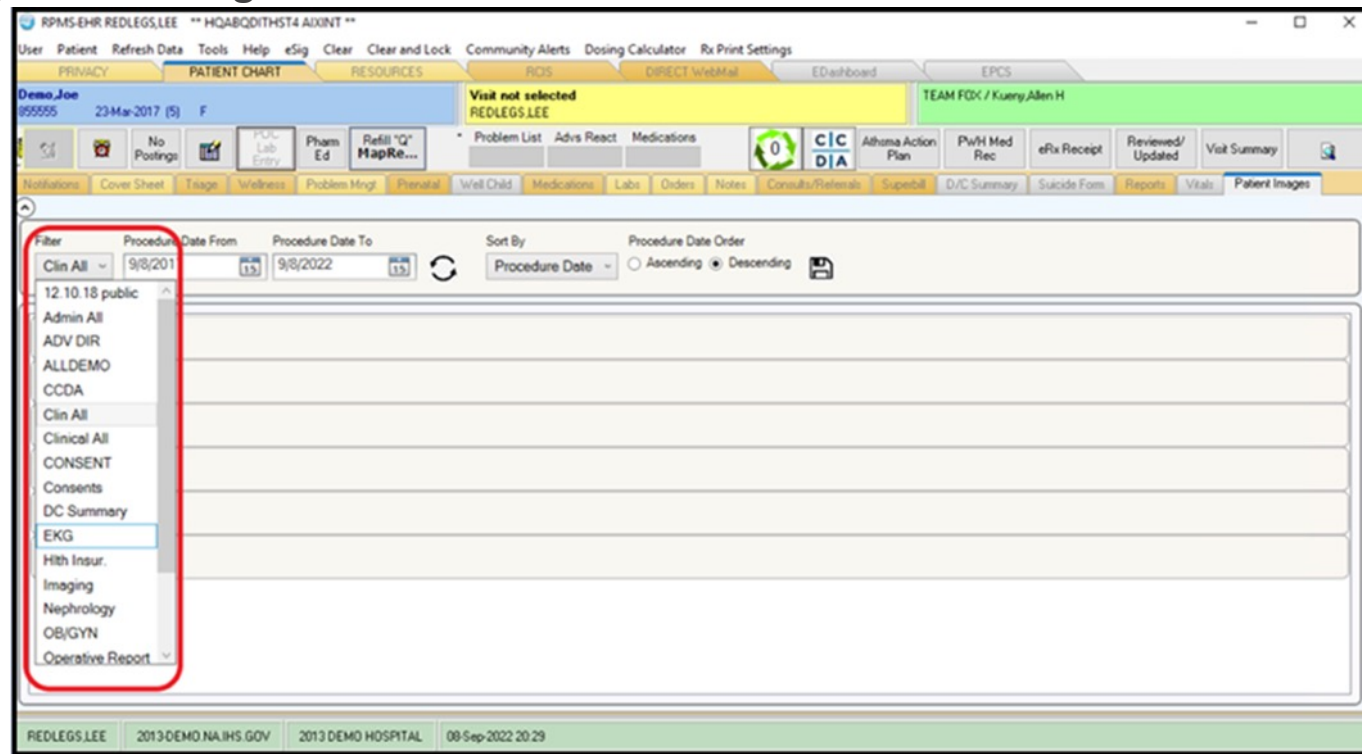
Selecting multiple images. To select a group of images hold Shift down and select the first image and while holding down the Shift key, select the last image of the group. Then select the first image.



# Filter Images

## Filter

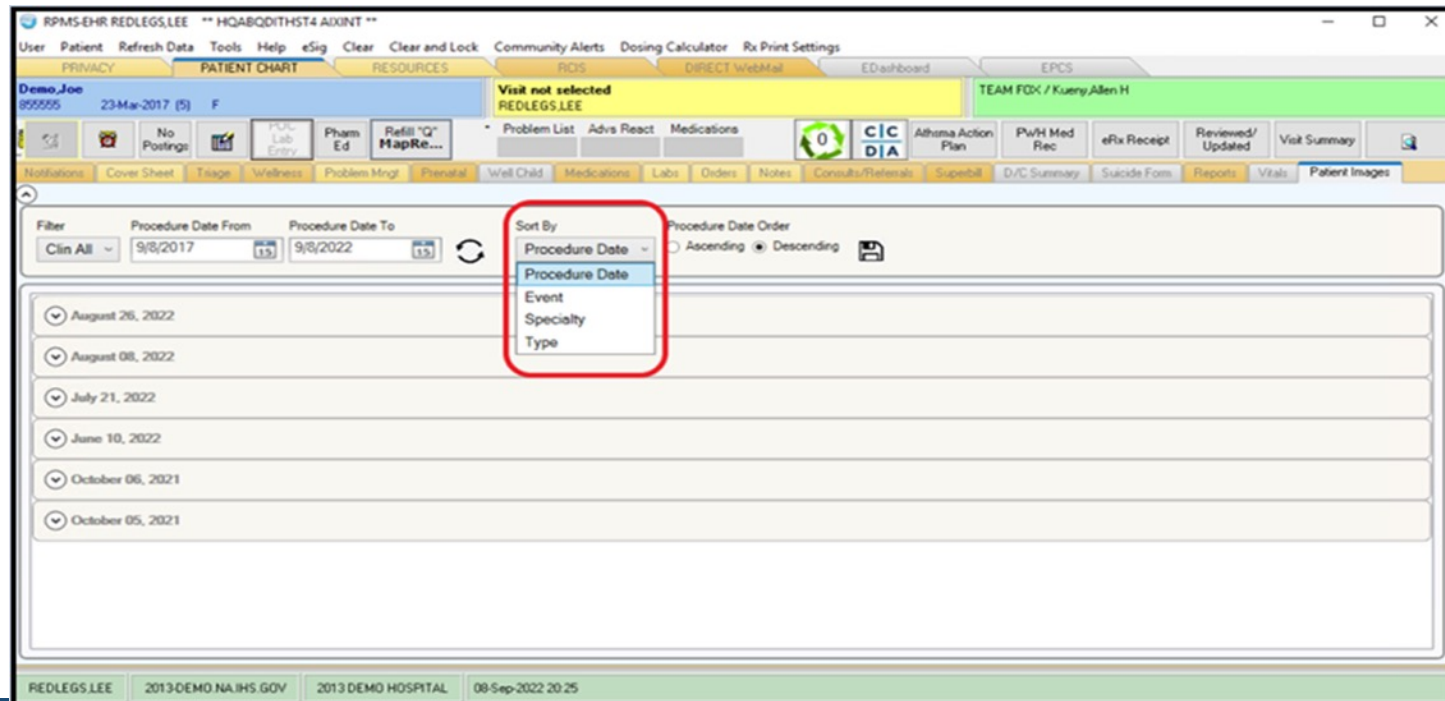
- The ability to apply filters from VistA Imaging Clinical Display for both Public and Private filter settings. Public filter settings are controlled by the MAG SYSTEM security key. Private filters pull from VI Clinical Display and these are unique to each local VistA Imaging site's setting.



# Sort Images (1)

## Sort

- Viewing criteria can be sorted for either: Procedure Date, Event, Specialty, and Type as saved by VistA Imaging Clinical Capture and viewed in VistA Imaging Clinical Display.



# Sort Images (2)

Sort by Procedure Date. The Procedure Date & time is the date of image capture.


The screenshot shows the 'Patient Images' section of an EHR system. The interface includes a top navigation bar with various tools and a main content area with filters and a list of images. The 'Sort By' dropdown is highlighted with a red box, and a red arrow points to the 'VI\_PROGRESS NOTE' entry.

Filter: ALLDEMO Procedure Date From: 1/1/1900 Procedure Date To: 9/14/2022 Sort By: Procedure Date Procedure Date Order: Ascending Descending

August 26, 2022

- BH VI PROTECTED MEDICAL RECORD August 26, 2022 16:36 PM 1 item(s)
- VI\_PROGRESS NOTE August 26, 2022 16:22 PM 1 item(s)
- VI\_CLINICAL PHOTOGRAPHY August 26, 2022 16:20 PM 1 item(s)

August 08, 2022

Image Descr	VI_PROGRESS NOTE	
Note Title	VI_PROGRESS NOTE	
Type	IMAGE	
Specialty	Unknown	
Event	Unknown	
Captured By	REDLEGS.LEE	

REDLEGS.LEE 2013-DEMO.NA.IHS.GOV 2013 DEMO HOSPITAL Successfully connected the UNC path.

# Sort Images (3)

Sort by Event

The screenshot shows the 'Patient Images' section of an EHR interface. The 'Sort By' dropdown is highlighted with a red box and set to 'Event'. The 'Procedure Date Order' is set to 'Descending'. The 'Filter' is set to 'ALLDEMO'. The 'Procedure Date From' is '1/1/1900' and the 'Procedure Date To' is '9/14/2022'. The 'ARTHROGRAM' category is expanded, showing a single item: 'VI\_CLINICAL PHOTOGRAPHY' on 'August 08, 2022 10:00 AM'. The image description is 'VI\_CLINICAL PHOTOGRAPHY', the note title is 'VI\_CLINICAL PHOTOGRAPHY', the type is 'IMAGE', the specialty is 'ORTHOPEDECS', the event is 'ARTHROGRAM', and the captured by is 'REDLEGS,LEE'. A red arrow points to the 'BIOPSY' category.

Image Descr	Note Title	Type	Specialty	Event	Captured By
VI_CLINICAL PHOTOGRAPHY	VI_CLINICAL PHOTOGRAPHY	IMAGE	ORTHOPEDECS	ARTHROGRAM	REDLEGS,LEE

# Sort Images (4)

Sort by Specialty

The screenshot shows the 'Patient Images' section of an EHR system. The 'Sort By' dropdown menu is set to 'Specialty' and is highlighted with a red box. Below the filter section, the images are grouped by specialty. The first group is 'CARDIOLOGY', which contains one image entry: 'VI\_CLINICAL PHOTOGRAPHY' dated 'June 10, 2022 15:40 PM'. A red arrow points to this entry. The image itself shows a cardiac catheterization procedure. Below the 'CARDIOLOGY' group, there are three more specialty groups: 'CHIROPRACTIC', 'COLON & RECTAL SURGERY', and 'DERMATOLOGY', each with a dropdown arrow indicating they contain more items.

Image Descr	Note Title	Type	Specialty	Event	Captured By
VI_CLINICAL PHOTOGRAPHY	VI_CLINICAL PHOTOGRAPHY	IMAGE	CARDIOLOGY	CARDIAC CATHETERIZATION	REDLEGS.LEE

# Sort Images (5)

Sort by Type

The screenshot shows the 'Patient Images' section of an EHR system. The interface includes a top navigation bar with tabs like 'PRIVACY', 'PATIENT CHART', and 'RESOURCES'. Below this is a patient information bar for 'Demo, Joe' (855555) with a birth date of 23-Mar-2017. The main content area displays a list of images, with the first two entries being 'CERTIFICATE OF INDIAN BLOOD'. The 'Sort By' dropdown is set to 'Type' and is highlighted with a red box. A red arrow points to the 'Image Descr' field in the first image entry, which contains the text 'CERTIFICATE OF INDIAN BLOOD'. The 'Image Descr' field is highlighted with a red box.

Image Descr	Type	Specialty	Event	Captured By
CERTIFICATE OF INDIAN BLOOD	CERTIFICATE OF INDIAN BLOOD	Unknown	Unknown	REDLEGS.LEE
CERTIFICATE OF INDIAN BLOOD	CERTIFICATE OF INDIAN BLOOD	Unknown	Unknown	REDLEGS.LEE
DEATH CERTIFICATE				
IMAGE				

# Sort Images (6)

'Unknown' from Sort by Specialty and/or Event occurs when these index fields are not filled in during the VistA Imaging Capture process. Neither are required fields or indexes.

**NOTE:**  
While Specialty and Event are not required for file saves, this is a good opportunity to remind scanning staff that both do have value. Do ensure all of the fields are documented.

The screenshot shows the VistA Imaging interface for patient 'Demo Joe'. The 'Sort By' dropdown is set to 'Specialty'. The first item in the list is 'Unknown'. The image details table shows the following fields:

Image Descr	Note Title	Type	Specialty	Event	Captured by
VI_PROGRESS NOTE	VI_PROGRESS NOTE	IMAGE	Unknown	Unknown	REDLEGS.LEE



# Date Ranges

## Date Ranges

- The Ascending or Descending date **option** can be toggled and saved for user interface.
- The *Procedure Date From* and *Procedure Date To* come from VistA Imaging Display filter settings.
- If a user observes **Procedure Date From 1/1/1900** and the **Procedure Date To Today**, this is by design from Clinical Display and associated Filter. (All Images)
- Date ranges can be changed as needed during user interface. To 'save' for later use, a Display Filter must be updated or applied. Filter date ranges can be saved or set to six months, one year, two years, five years or customized.

The screenshot shows the VistA Imaging Display interface for patient Demo Joe (855555). The filter section is highlighted with a red box, showing "Procedure Date From" set to 9/8/2017 and "Procedure Date To" set to 9/8/2022. The "Sort By" is set to "Procedure Date" and the "Procedure Date Order" is set to "Descending". The main display area shows a list of dates: August 26, 2022; August 08, 2022; July 21, 2022; June 10, 2022; October 06, 2021; and October 05, 2021.

The screenshot shows the VistA Imaging Display interface for patient Demo Joe (855555). The filter section is highlighted with a red box, showing "Procedure Date From" set to 1/1/1900 and "Procedure Date To" set to 9/14/2022. The "Sort By" is set to "Procedure Date" and the "Procedure Date Order" is set to "Descending". The main display area shows a list of dates: August 26, 2022; August 08, 2022; July 21, 2022; June 10, 2022; October 06, 2021; October 05, 2021; and June 14, 2017.

# Saving Default View

Users can save a default view via the Filter and Sort of their choosing. Reminder: the Procedure Date From and To will not be saved though as this is controlled by the filter in VistA Imaging Display.

The screenshot displays the VistA Imaging Display interface. At the top, there is a navigation bar with tabs for PRIVACY, PATIENT CHART, RESOURCES, RCIS, DIRECT WebMail, EPCS, and ED Dashboard. Below this, a patient information bar shows 'Demo,Joe' with ID 855555 and a visit date of 23-Mar-2017. A yellow banner indicates 'Visit not selected REDLEGS.LEE' and a green banner shows 'TEAM FOX / Kuey,Allen H'. The main toolbar includes various icons for 'No Postings', 'Pharm Ed', 'Refill \*Q\* MapRe...', 'Problem List', 'Advx React', 'Medications', 'CIC DIA', 'Asthma Action Plan', 'PWH Med Rec', 'eRx Receipt', 'Reviewed/Updated', and 'Visit Summary'. Below the toolbar, a 'Filter' section is visible with 'ALLDEMO' selected, 'Procedure Date From' set to 9/14/2020, and 'Procedure Date To' set to 9/13/2022. The 'Sort By' dropdown is set to 'Event', and the 'Procedure Date Order' is set to 'Descending'. A red square highlights a save icon (a floppy disk) next to the sort options. Below the filter and sort controls, a list of procedure categories is shown with expandable arrows: ARTHROSCOPY, CRITICAL TIME INTERVENTION, DENSITOMETRY, ECHOCARDIOGRAM, ENDODONTICS, EYE PHOTOGRAPHY, INJECTION, MISCELLANEOUS, PHOTOGRAPHY, Unknown, and WOUND ASSESSMENT.



