

IntelliSpace® PACS Radiology.Ink

IntelliSpace PACS 4.4

Radiology Overview
For UAHN Radiology Physicians

Philips IntelliSpace Defined

Philips IntelliSpace PACS is a medical image and information management system.

- The application provides:
 - On-demand diagnostic-quality images
 - Advanced radiology reading stations for radiologists
 - Long-term storage (Always online)

PHILIPS

Learning Objectives

Use IntelliSpace PACS Enterprise to:

- Search for patients
- Select and view exams

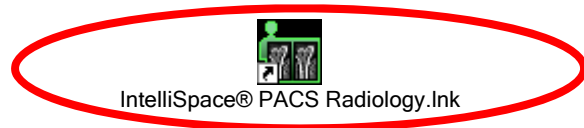
IntelliSpace PACS Enterprise

- Will replace Synapse Fuji PACS for managing images
- Used by: Clinicians (Referring Physicians, Nurses, Surgeons, Techs)
- For: Viewing, analyzing, & qualifying exams



How To: Log In

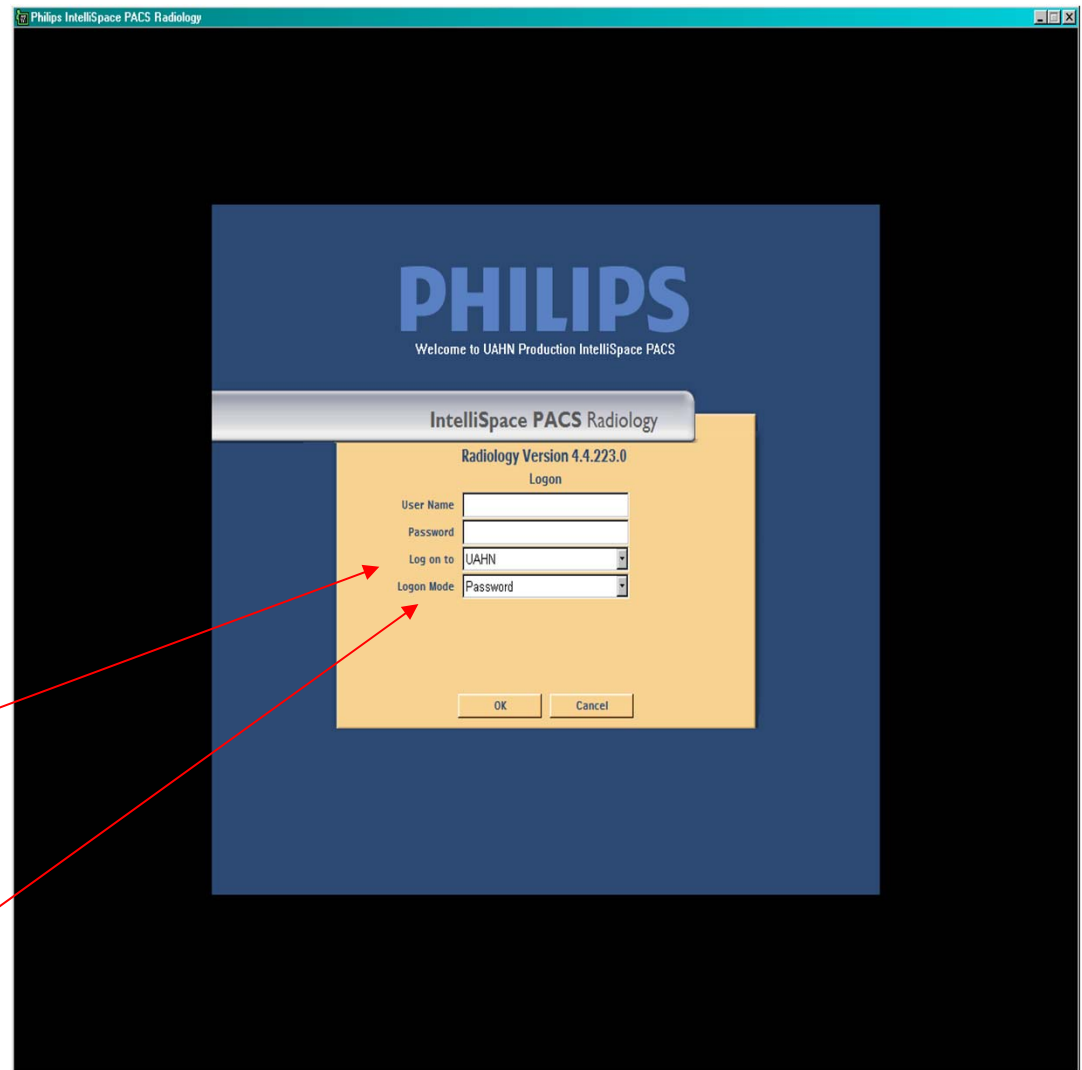
1. Click on the IntelliSpace PACS ICON: located on your desktop



2. User Name, Password: Is the same as your network, email, Citrix login.

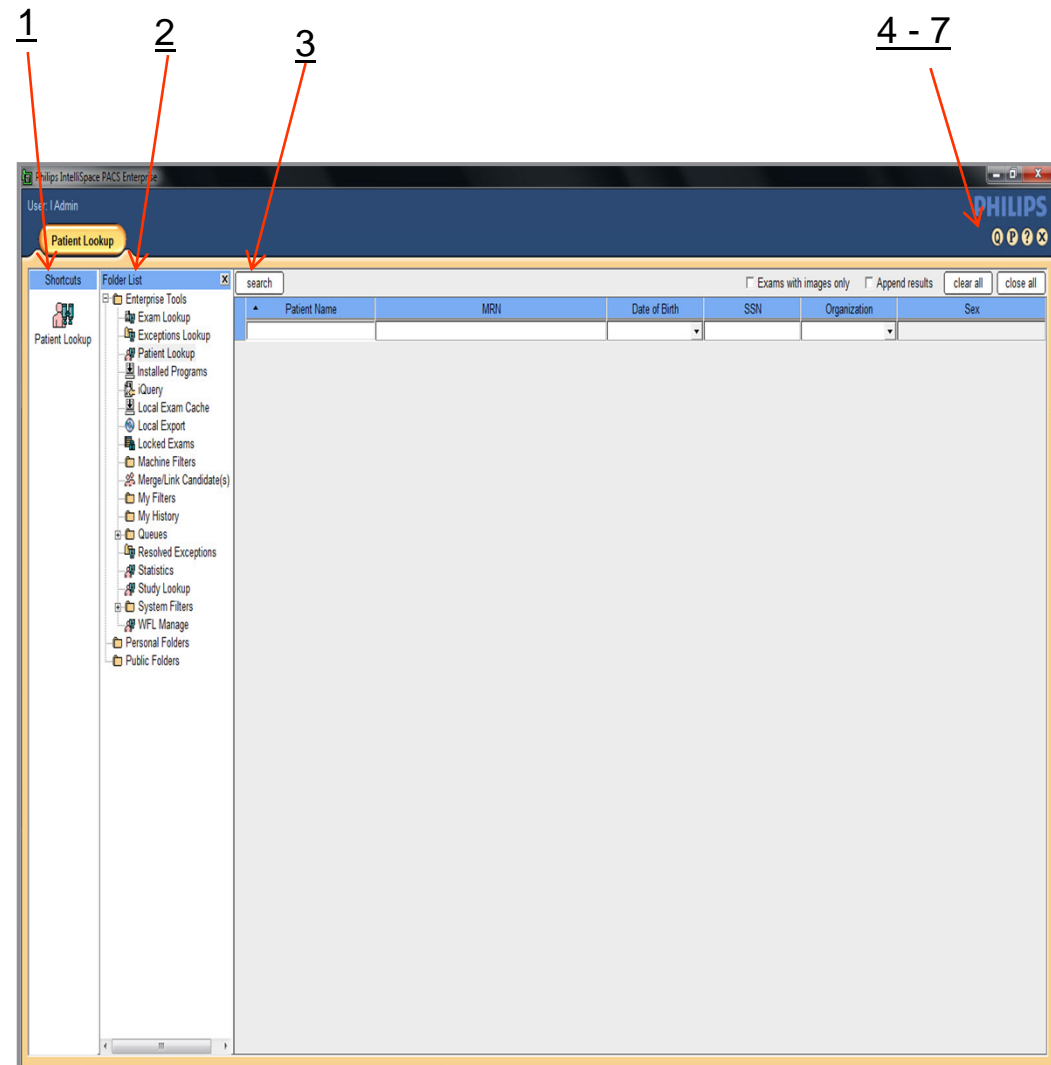
3. Log on to: UAHN

4. Logon Mode: Password



IntelliSpace PACS Radiology Start-Up Window

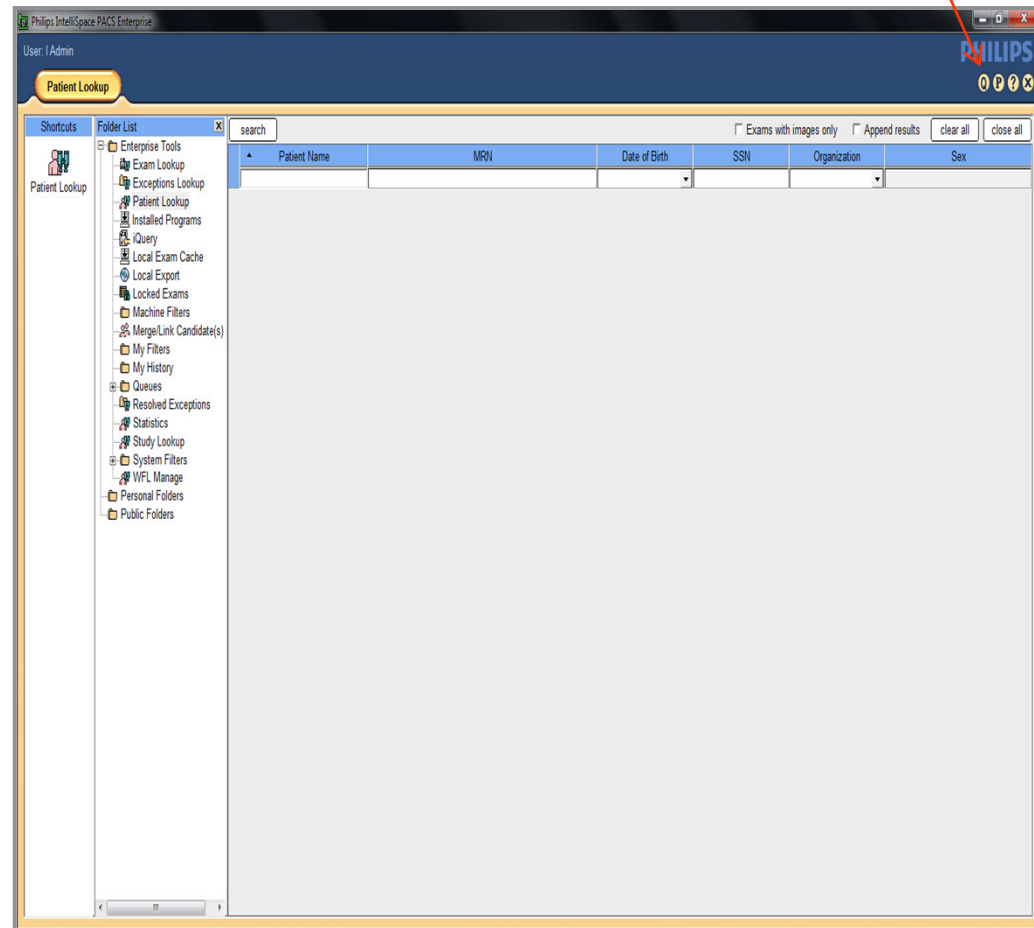
1. **Shortcuts Bar:** Customizable lists to frequently accessed folders, exams and filters. **Just drag and drop from the folder list.**
2. **Folder List:** List of all the folders, filters and tools in IntelliSpace PACS Enterprise
3. **Patient Lookup:** Patient, exam search engine and sort function



Start-Up Window Continued

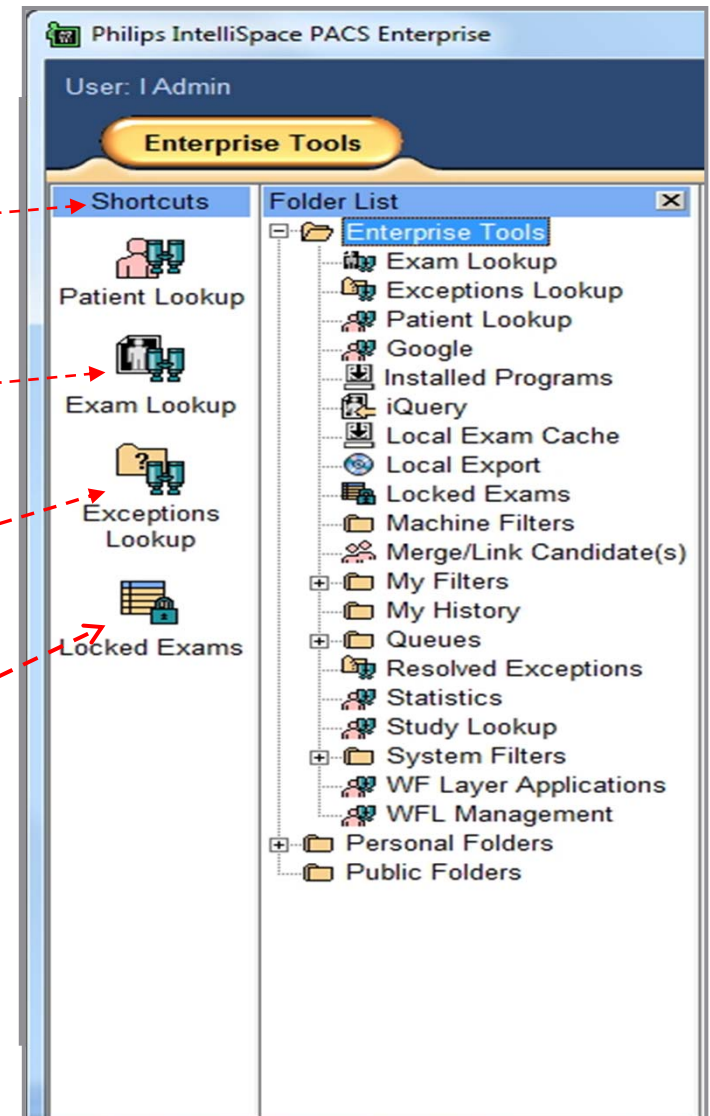
4 - 7

4. **iExport Queue:** Real-time display status of the exams that have been exported via the iExport feature.
5. **Preferences:** User, System and Machine Preference dialog boxes
6. **Help:** IntelliSpace PACS Radiology user manual
7. **Logout Button:** Exit application and return to login window



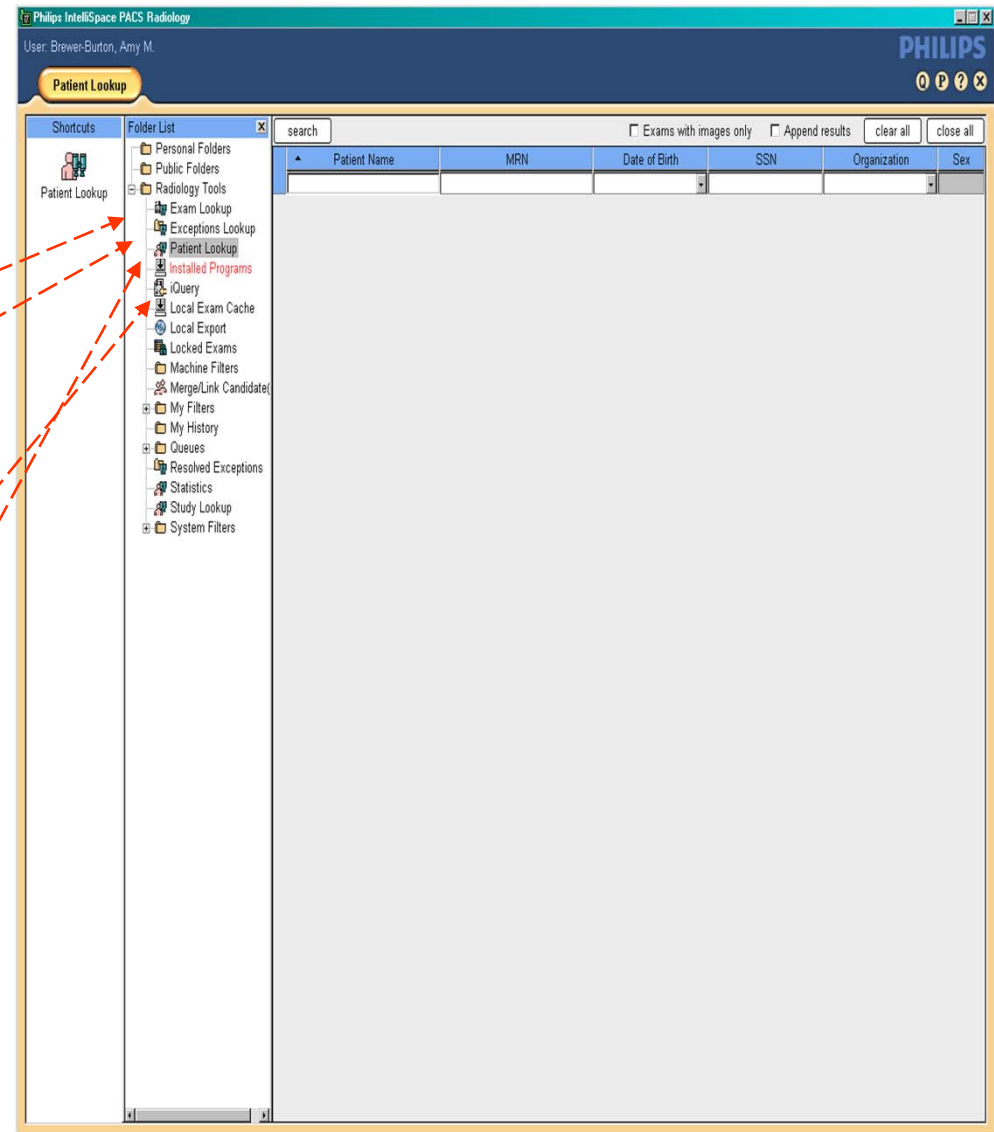
Shortcut Bar and Folder List

- **Shortcuts:** To add, remove or rename items that have been moved into shortcut menus and create different groups for shortcuts
- **Exam Lookup:** To locate exams performed by searching on specific criteria. (Accession, Exam Date, etc.)
- **Exceptions Lookup:** Folder containing system identified Exceptions
- **Patient Lookup:** To locate patients and by searching on specific criteria. **This will show exams with no images in scheduled status.** (name, MRN, etc.)



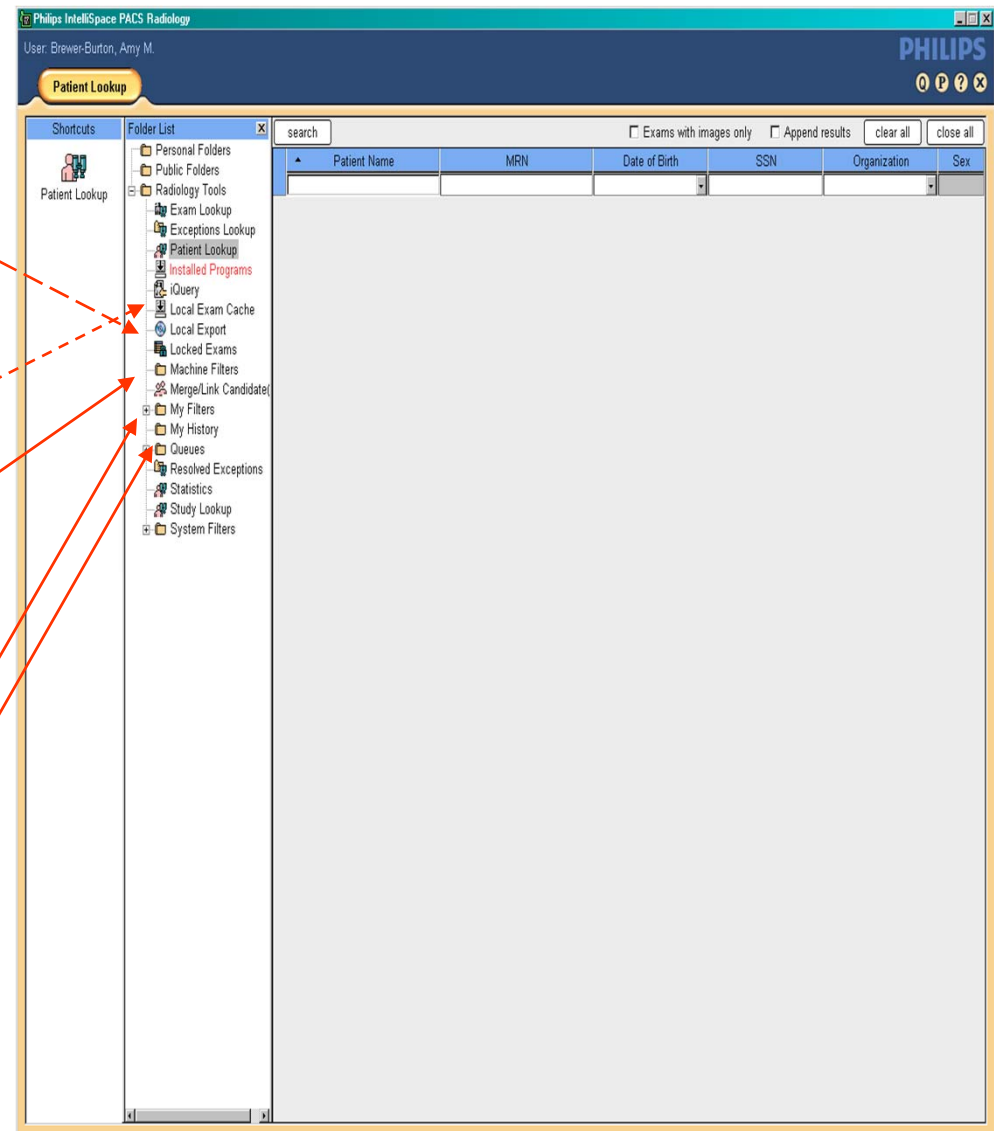
Shortcut Bar and Folder List

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- **Patient Lookup:** To locate patients and by searching on specific criteria. **This will show exams with no images in scheduled status.** (name, MRN, etc.)
- **iQuery:** Tool to query and retrieve studies from other DICOM devices (that is, existing archives)



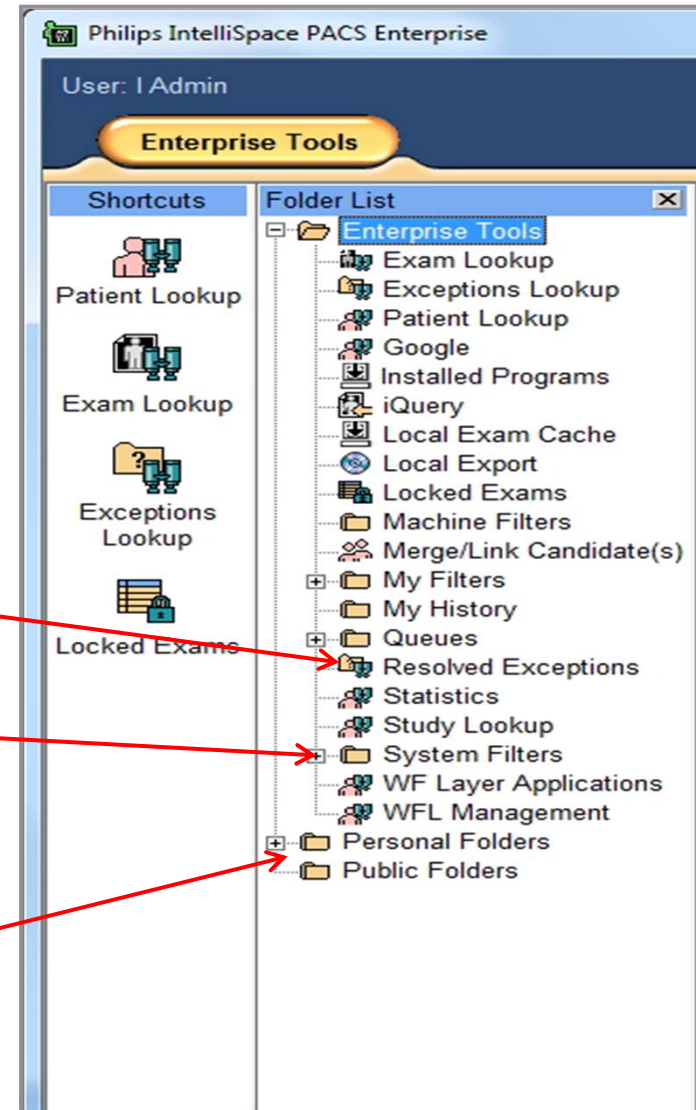
Shortcut Bar and Folder List (continued)

- **Local Export:** Utility for copying exams and images from IntelliSpace PACS
- **Locked Exams:** Folder containing Exams which are opened by another user at the same time signifying a Lock.
- **Machine Filters:** Machine-specific search filters (based on modality, body part, etc.)
- **My Filters:** User-specific search filters (based on modality, body part, etc.)
- **My History:** List of user's 100 most recently viewed exams



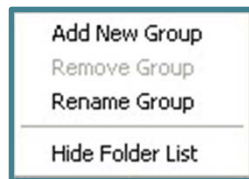
Shortcut Bar and Folder List (continued)

- **Resolved Exception:** Displays the Resolved Exceptions worklist, allowing you to view a list of all resolved exceptions.
- **System Filters:** Filters that are shared by all users
- **Personal and Public Folders:** Personal or public folders, up to 5 levels deep, 25 subfolder each level, 500 max (for example, rounds, teaching files, seminar, etc.)

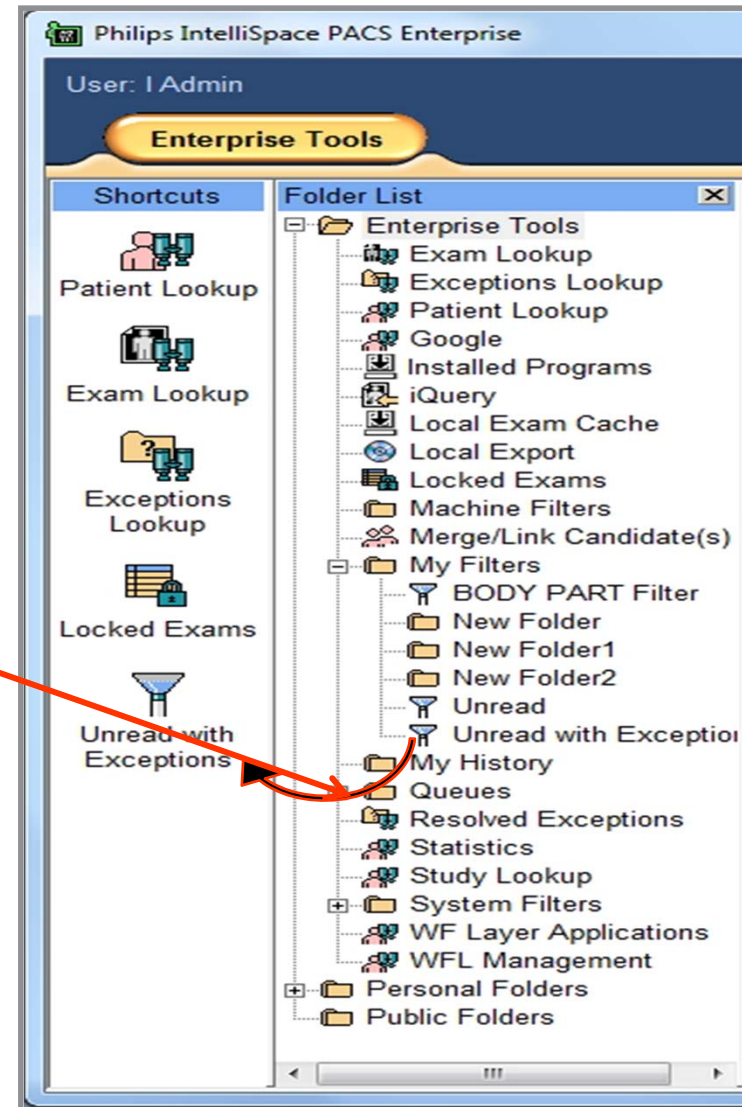


Shortcut Bar and Folder List (continued)

- **Add/ Edit Shortcuts:** Right-click on shortcut bar for menu. Displayed below!

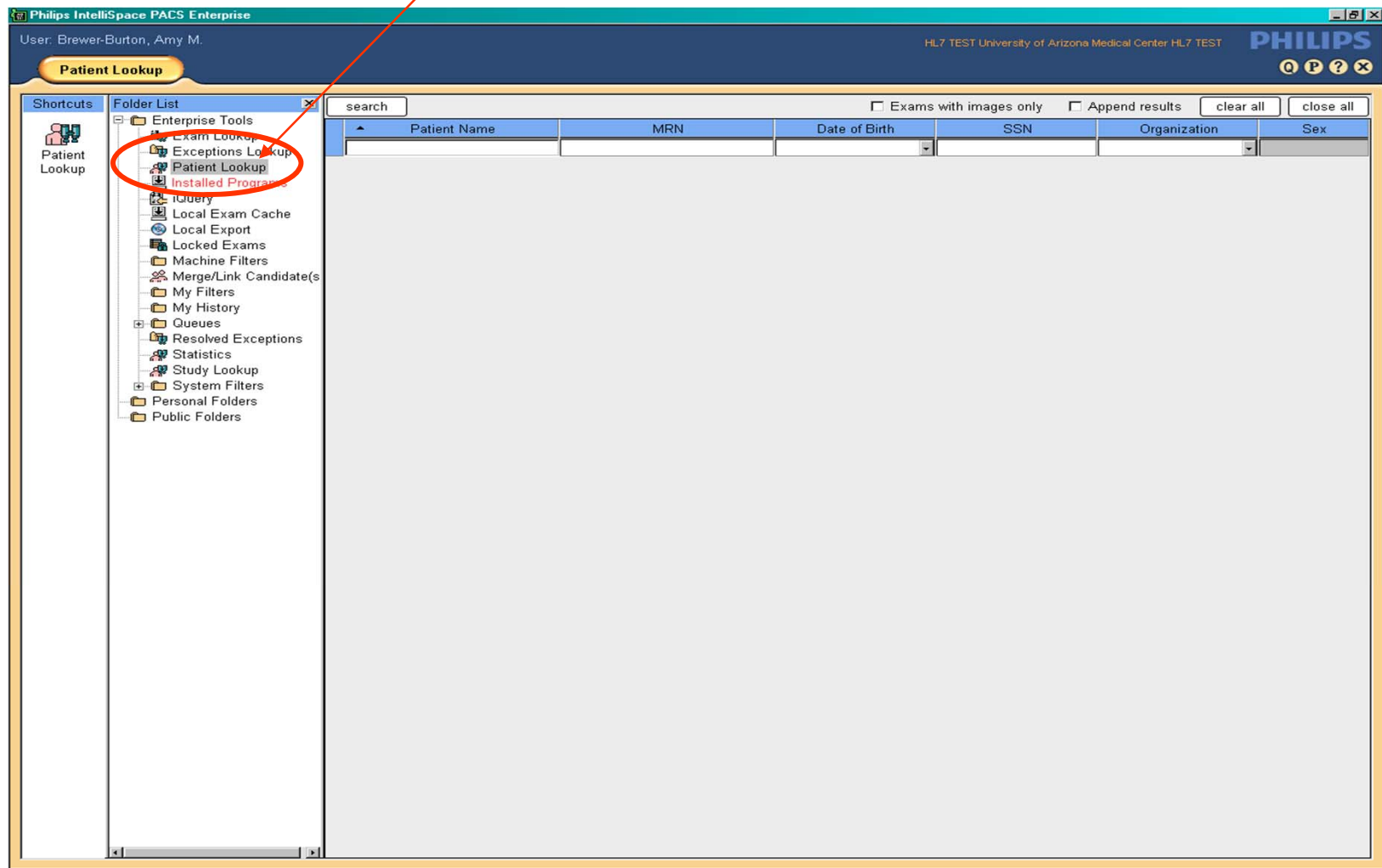


- **OR**
 - Add contents to shortcut bar by dragging and dropping
- **Add/ Edit to Folders:** Right-click on Personal or Public (permission-restricted) folders for menu
- **OR**
 - Add content to folder by dragging and dropping.



Patient Query

When Patient Lookup is highlighted in Grey. It is the active search selected. **Scheduled Exams are found only in this search.



Patient Search

Patient Lookup

search ☐ Exams with images only ☐ Append results

Patient Name	MRN	Date of Birth	SSN	Organization
isite				
ISITE, BIBB	80502263	1/1/1940		UAMC-UNIVERSITY
MR - MRA NECK, W/CONTRAST Acc: 6113270 Date: 12/11/2012 8:26:00 Org: UAMC-UNIVERSITY				

1. **Search:** Search on Patient Name, MRN, etc
2. Click on next to patient name to expand the patient record to locate exams.
3. **Clear all:** This removes all patient information in the search boxes.

Click the Append results to keep original search information; then enter the new search information to see multiple criteria.

Philips IntelliSpace PACS Enterprise

User: Schoenherr, Amy M. HL7 TEST University of Arizona Medical Center HL7 TEST

Patient Lookup

Search: isite


☐ Exams with images only ☒ Append results

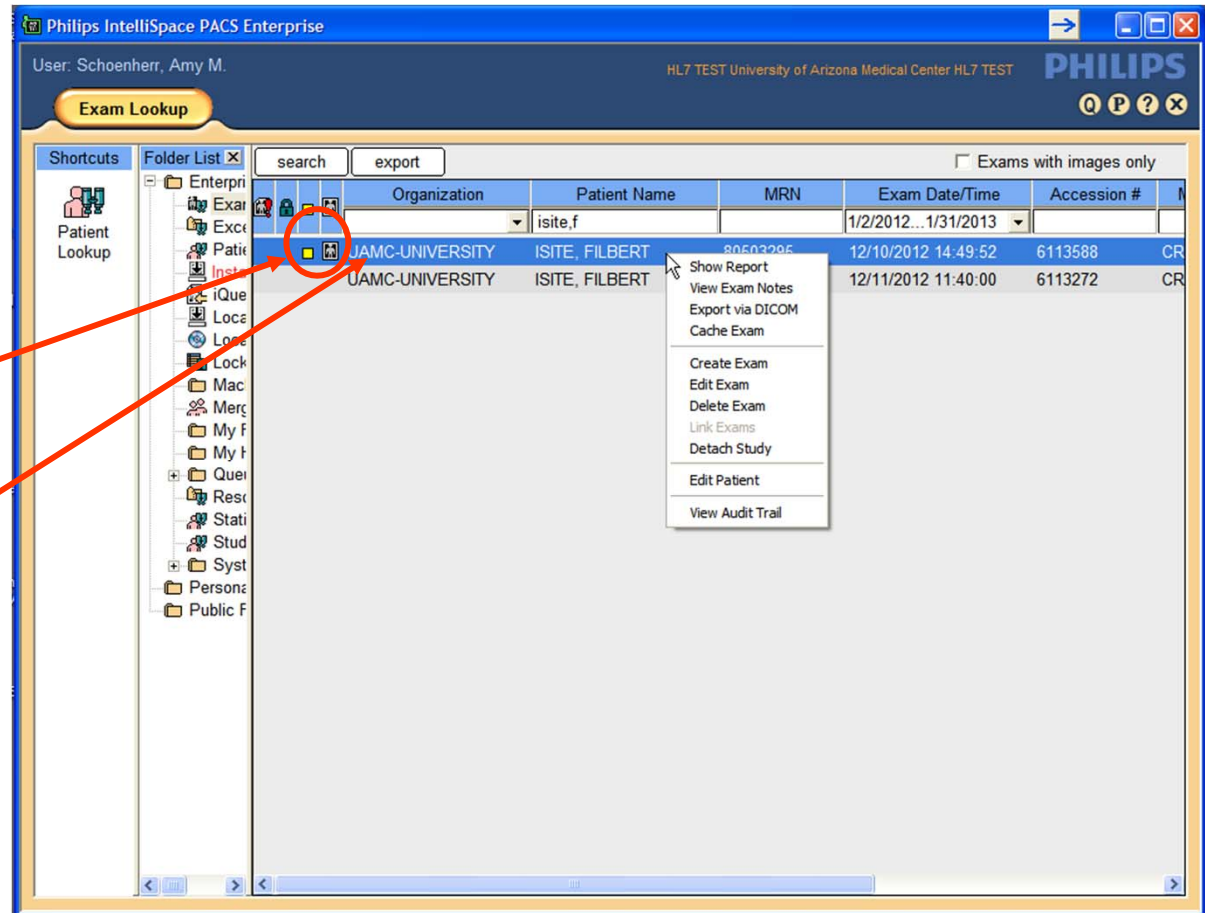
Patient Name	MRN	Date of Birth	SSN	Organization	S...
ISITE, ANJOU	80503923	1/1/1940		UAMC-UNIVERSITY	M
ISITE, APRICOTS	80501596	1/1/2000		DEFAULT	M
ISITE, APRICOTS	80501596	1/1/2000		UC	M
ISITE, BIBB	80502263	1/1/1940		UAMC-UNIVERSITY	M
ISITE, BLUEBERRIES, COB...	80501604	1/1/2000	258324444	UAMC-UNIVERSITY	M
ISITE, BLUEBERRIES, COB...	80501604	1/1/2000		DEFAULT	M
ISITE, CASHEW	80503303	1/1/1940		UAMC-UNIVERSITY	M
ISITE, CATSEYE	2009478	1/1/1960		SC	F
ISITE, CATSEYE	2009478	1/1/1960		UC	F
ISITE, CATSEYE	2009478	1/1/1960	764447913	UAMC-SOUTH	F
ISITE, CUCUMBER	80502727	1/1/1940		UAMC-UNIVERSITY	M
ISITE, FEVERFEW	80504509	1/1/1940	805-04-5099	UAMC-UNIVERSITY	M
ISITE, FILBERT	80503295	1/1/1940		UAMC-UNIVERSITY	M
ISITE, GRAPES	80501653	1/1/1970		UAMC-UNIVERSITY	M
ISITE, GRAPES	80501653	1/1/1970		WILDCAT	M
ISITE, GRAPES	80501653	1/1/1970		UC	M
ISITE, GRAPES	80501653	1/1/1970		DEFAULT	M
ISITE, MOONSTONE	2009481	3/1/1950		DEFAULT	F
ISITE, PECAN	80503287	1/1/1940	805-03-2879	UAMC-UNIVERSITY	M
ISITE, QUARTZ	2009477	12/1/2009		UAMC-SOUTH	F
ISITE, TALC	2009480	7/25/1968		UAMC-SOUTH	M
ISITE, TALC	2009480	7/25/1968		DEFAULT	M
ISITE, TALC	2009480	7/25/1968		SC	M
ISITE, WATERMELONS	80501802	1/1/1940		DEFAULT	M
ISITE, WATERMELONS	80501802	1/1/1940		UAMC-UNIVERSITY	M

Exam Lookup is used to located completed exams.

1. Double click the patient highlighted to open images.

2. Right click highlighted exam for available options. For example: Show report if images are not available.










3.  If no image icon is located beside the exam; images are **not** available.



Patient/Exam Lookup Symbols

1. Patient/Exam Lookup Criteria:

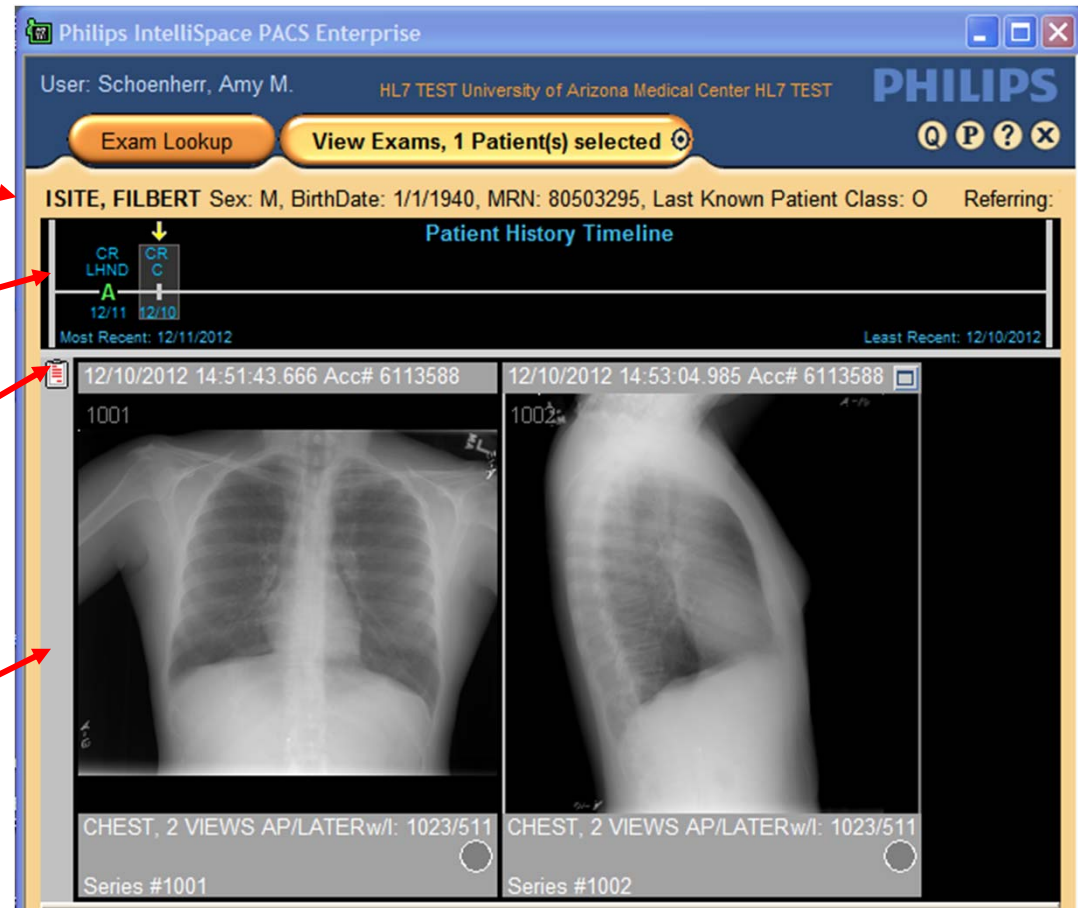
- Right-click to **display** or **hide** additional symbols and Patient/exam criteria.

	STAT Exam		Report Available
	Locked Exam		Has Images
	Linked Exam		Exam Scheduled
	Marked Read		Exam Notes
	Exception		

Viewing Images

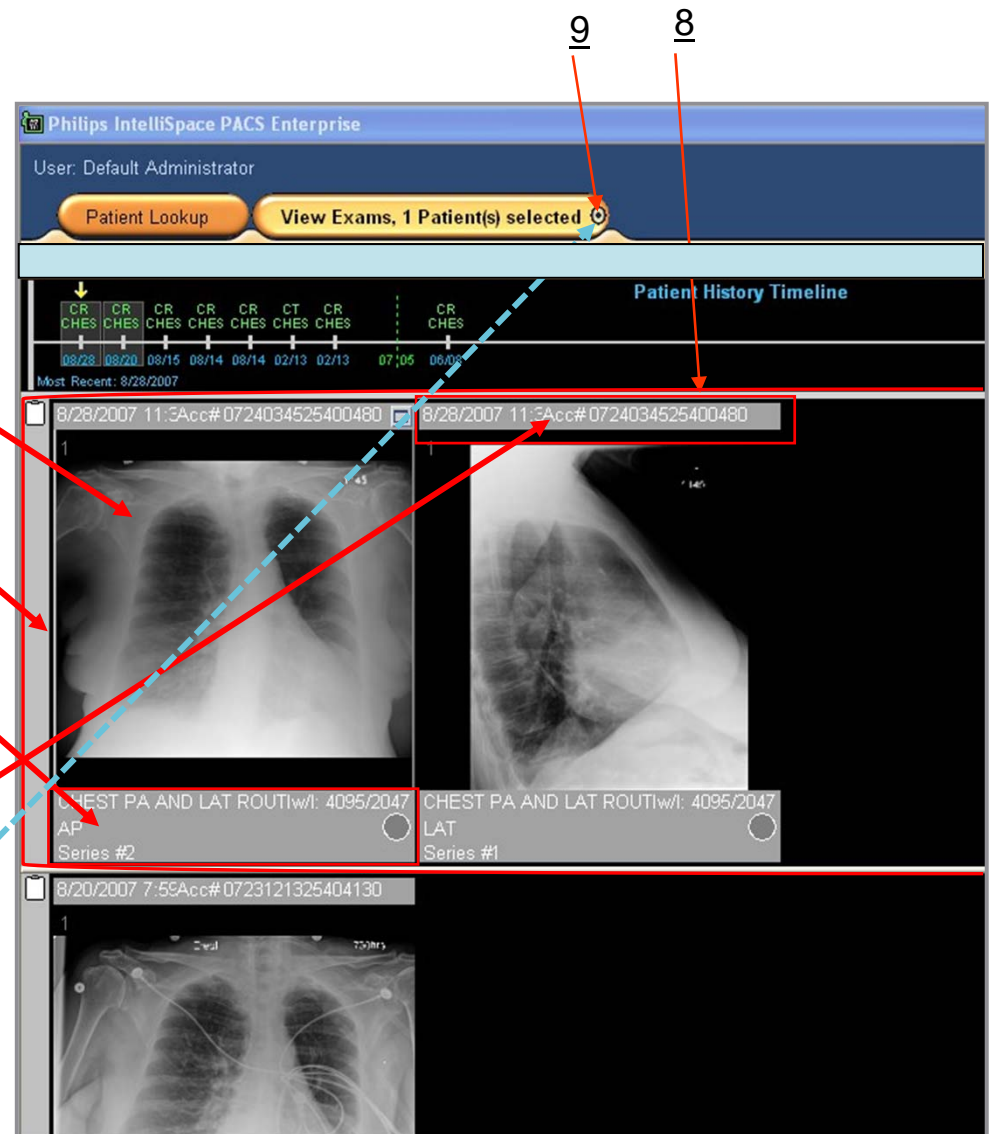
Canvas Page

1. **Patient Information Area:** Patient's name, DOB, sex, MRN, Referring Physician and Patient Class
2. **Patient Timeline:** History of and navigation menu to all of a patient's studies in IntelliSpace PACS
3. **Exam notes:** When icon is present, indicates diagnostic report is available for the exam. *Double click icon to open report.*
4. **Exam Margin:** Access point to exam specific menu and information



Canvas Page (continued)

5. **Thumbnail:** Thumbnail view of image
6. **Exam Rack:** Set of images that make up the exam
7. **Image/ Series Information:** Image specific information (for example; description, number of images, slice thickness, etc.)
8. **Image/ Series date and time:** Exam accession number, Date and Time image was acquired
9. **Close Exam:** Exit from exam and return to patient directory



Control Strip

Select bulls
eye icon to
close current
patient record

The screenshot shows the Philips Control Strip interface. At the top, there are two tabs: "Exam Lookup" and "View Exams, 1 Patient(s) selected". The "View Exams" tab is active. Below the tabs, patient information is displayed: "ISITE, FILBERT Sex: M, BirthDate: 1/1/1940, MRN: 80503295, Last Known Patient Class: O Referring: TEST GRADY, KAPRII". Below this is a "Patient History Timeline" section. On the left side of the timeline, there are two exam entries: "CR LHND" with a date of "12/11" and "CR C" with a date of "12/10". A red arrow points from the "CR C" entry to the "View Exams" tab. Another red arrow points from the "Exam Lookup" tab to the "Return to Patient Lookup" text box. A third red arrow points from the "CR C" entry to the "Right-click to navigate" text box. The timeline also shows "Most Recent: 12/11/2012" and "Least Recent: 12/10/2012".

Return to Patient
Lookup or area
where exam was
initially launched

Right-click to
navigate between
different patients
exams

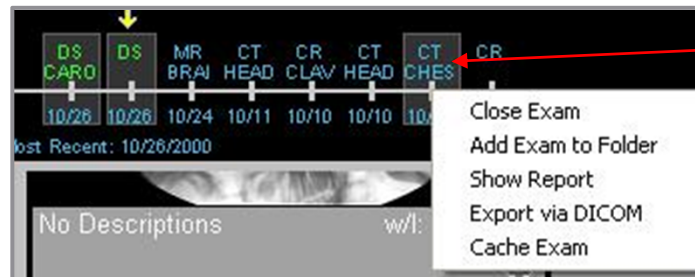
Patient History Timeline

The screenshot shows the Philips Patient History Timeline interface. At the top, it displays the user 'Schoenherr, Amy M.' and the institution 'HL7 TEST University of Arizona Medical Center HL7 TEST'. Below this, there are buttons for 'Exam Lookup' and 'View Exams, 1 Patient(s) selected'. The patient information section shows 'ISITE, FILBERT Sex: M, BirthDate: 1/1/1940, MRN: 80503295, Last Known Patient Class: O' and 'Referring: TEST GRADY, KAPRII'. The timeline itself shows a list of exams with columns for date, time, and status. A red arrow points to the 'View Exams' button with the annotation 'Left-click to open exam'. A green arrow points to the timeline with the annotation 'Hover mouse to view exam information'. A yellow tooltip is visible over the first exam entry, showing details like 'Acc#: 6113588', 'Date/Time: 12/10/2012 14:49:52', 'Ref. Physician: TEST GRADY, KAPRII', 'Procedure Description: XR CHEST, 2 VIEW', 'Status: FINAL', and 'Patient Class: O'.

- Definition of above Navigation Menu
 - Including History of exam
- Colors and symbols in timeline

Green	No diagnostic report
Blue	Diagnostic report available
" "	Image available
"X"	No images
"A"	Exams on 3 rd party digital archive—not on IntelliSpace PACS server

Patient History Timeline (continued)



Right-click for
menu

Timeline Sub-menu:

- ❖ **Open Exam:** Open exam and return to main Patient Directory
- ❖ **Close Exam:** Close exam and return to main Patient Directory
- ❖ **Add Exam to Folder:** Copy exam to a folder in folder tree
- ❖ **Show Report:** View diagnostic report

Diagnostic Report

Clinical Information: Diagnostic Report

Diagnostic Report

Exam Notes (0)

Clinical Info

Related Exams

All Exams

Current Providers

Current

History

Final Report

*** FINAL REPORT ***

DATE OF EXAM

STUDY PERFORMED: UDR 1068 - HIP, UNILATERAL, COMPLETE - LEFT

CLINICAL INDICATION: slurred speech

IMPRESSION:

No acute bony abnormality of the pelvis or left hip.

RESULT:

History: Left hip pain.

Comparison: None.


Findings:

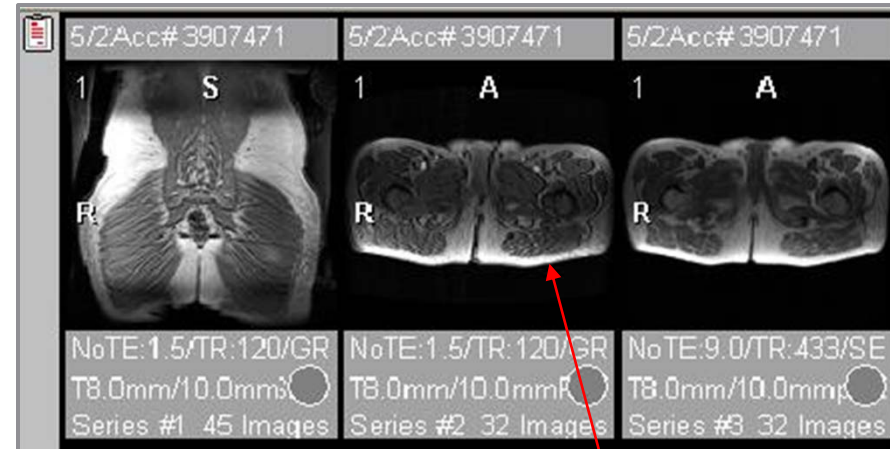
Two radiographs of the pelvis and 2 radiographs of the left hip were reviewed

Print

Close

Navigation within the Exam Rack

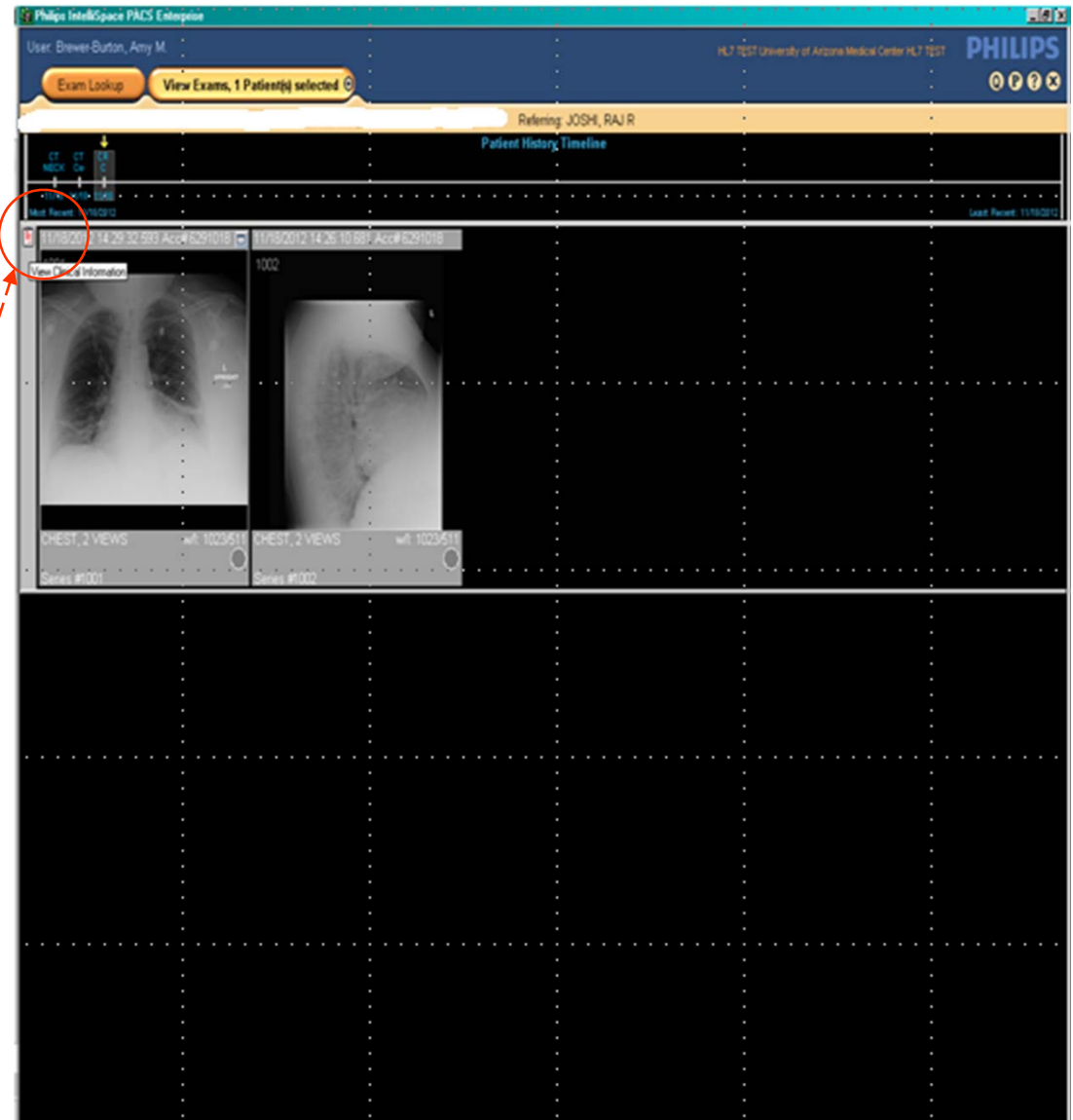
- **Exam Rack:** the set of images in a study 
- Reorder series by dragging and dropping on grey image header or footer.
- Navigating steps to view stacked series.
 1. Mouse wheel
 2. Select "C" on keyboard
 3. Select Cine Loop from context menu



Double-click to
open in pop-up
window

Adding/Locating Preliminary Notes

- Open the patient's exam from Exam, Patient, or Exception Lookup.
- Single click the clipboard icon.



- Click on Exam Notes in the top left corner.
- Next click on New Note in the bottom right corner.
- Select **Preliminary Note Radiologist** from the drop down menu.
- Subject line must be populated with a remark.
- Write remarks in white area then click save note.

The screenshot displays the Philips IntelliSpace PACS Enterprise interface. A window titled 'Clinical Information: Exam Notes' is open, showing a list of notes on the left and a form for creating a new note on the right. The form includes fields for 'Subject' and 'Note Type', with 'Preliminary Note - ED Physician' selected in the dropdown. At the bottom of the form are buttons for 'Cancel', 'Save Note', and 'New Note'. Red dashed arrows indicate the sequence of actions: clicking 'Exam Notes' in the top left, then 'New Note' in the bottom right, selecting 'Preliminary Note - ED Physician' from the dropdown, entering a remark in the 'Subject' field, and finally clicking 'Save Note'.

- You will see your note listed for review and that the Exam Note count has increased.
- You will also find the preliminary notes from the ER physician or technologist to you listed under **Preliminary Notes**
ED Physician or
Technologist Note.
- Critical Note** can be highlighted and will place a urgent marking beside the note.

Clinical Information: Exam Notes

Ordering MD: JOSHI, RAJ R Phone: N/A Pager: N/A
Accession # Exam Code: 71020 Location: 4W

Diagnostic Report	Date / Time	Author	Subject	Note Type
	1/25/2013 13:43:19	Brewer-Burton, A...	SOB	Preliminary Note - ED ...
Exam Notes (2)	1/25/2013 13:52:54	Brewer-Burton, A...	SOB	Preliminary Note - Radi...
Clinical Info				
Related Exams				
All Exams				
Current Providers				

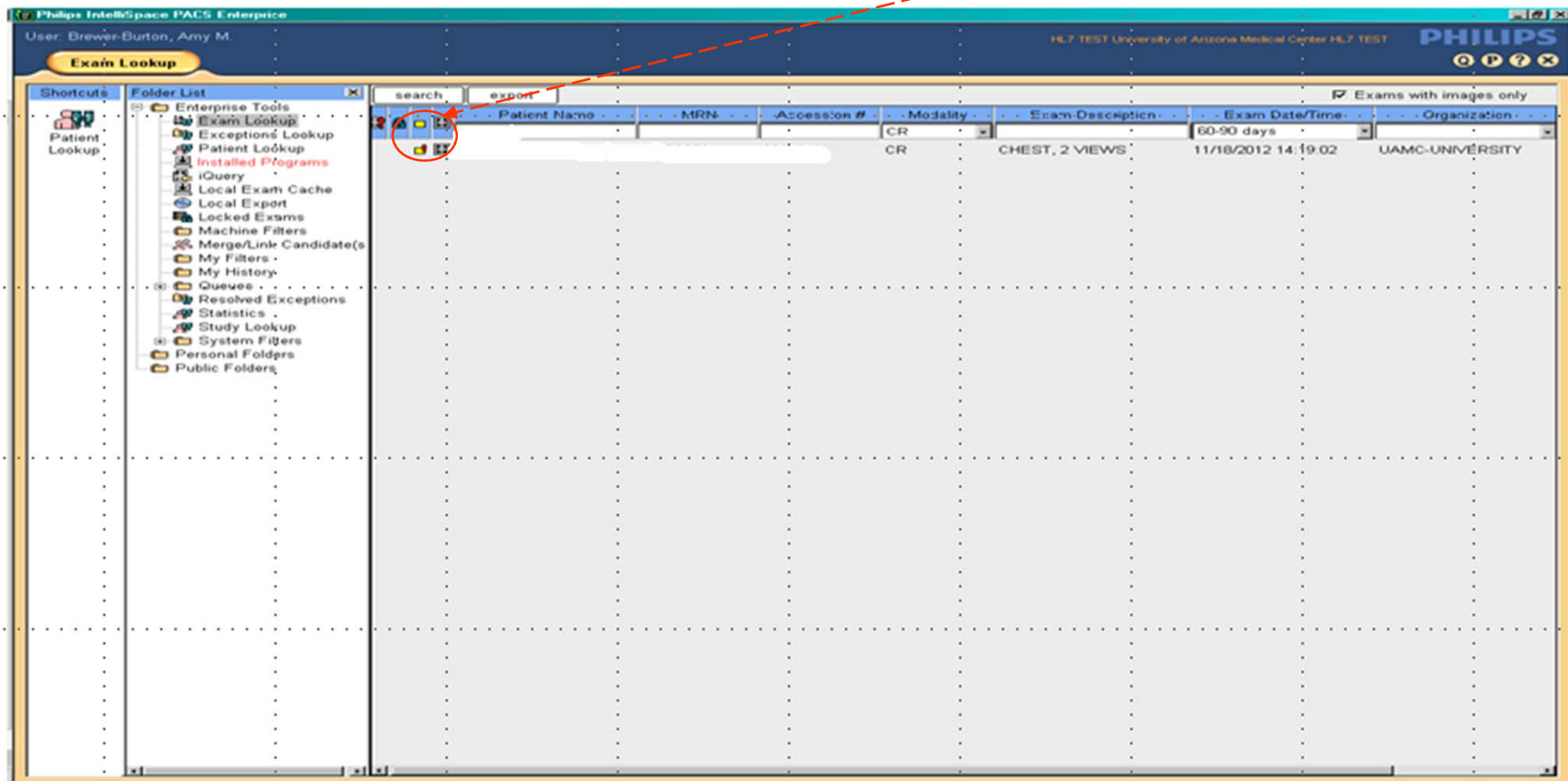
Subject: SOB Note Type: Preliminary Note - Radiologist

This is a test.

☒ Critical Note New Note

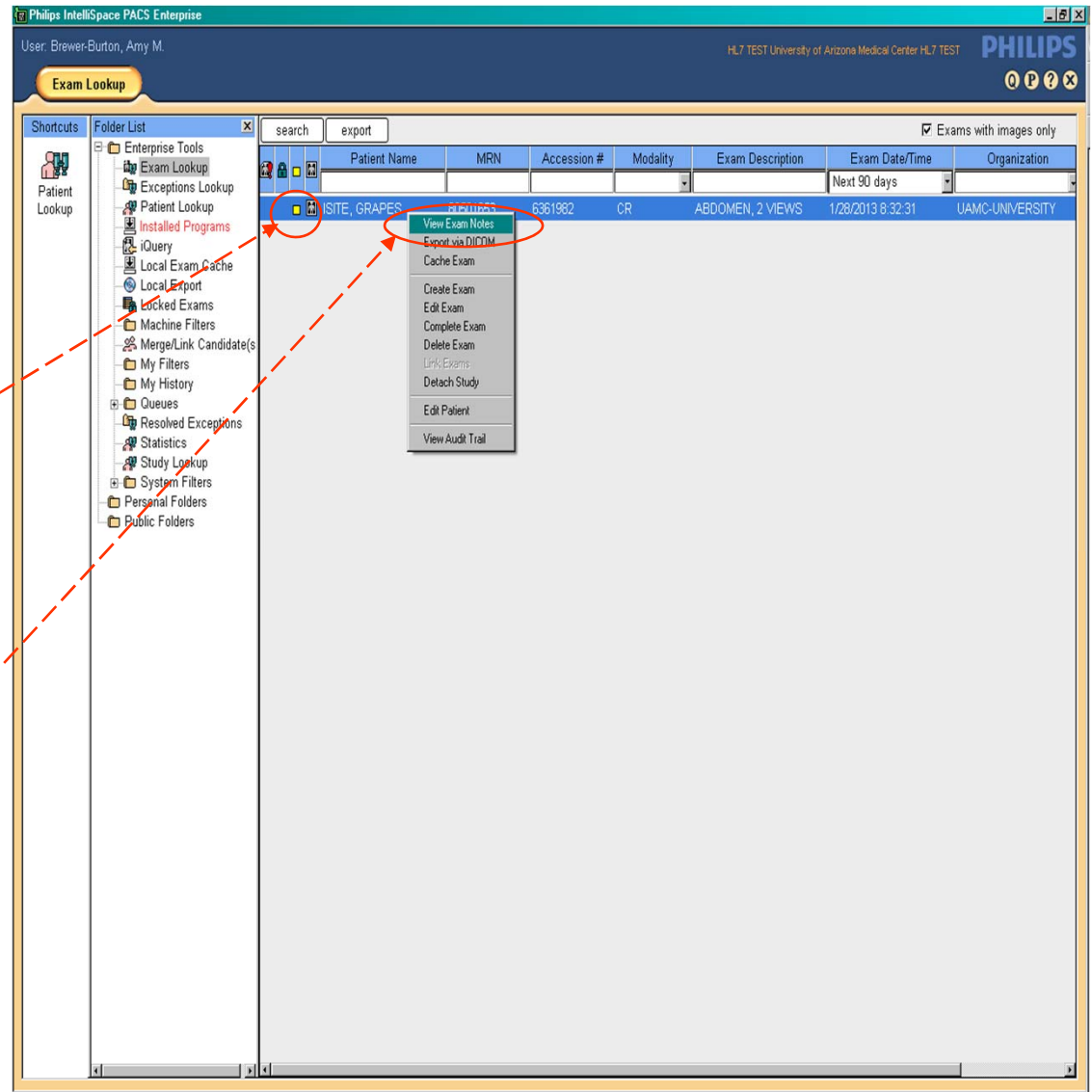
Audit Trail Delete Note Print Close

Beside the exam will be a yellow square noting the exam has been noted. If marked critical an exclamation point will be on top of the icon.



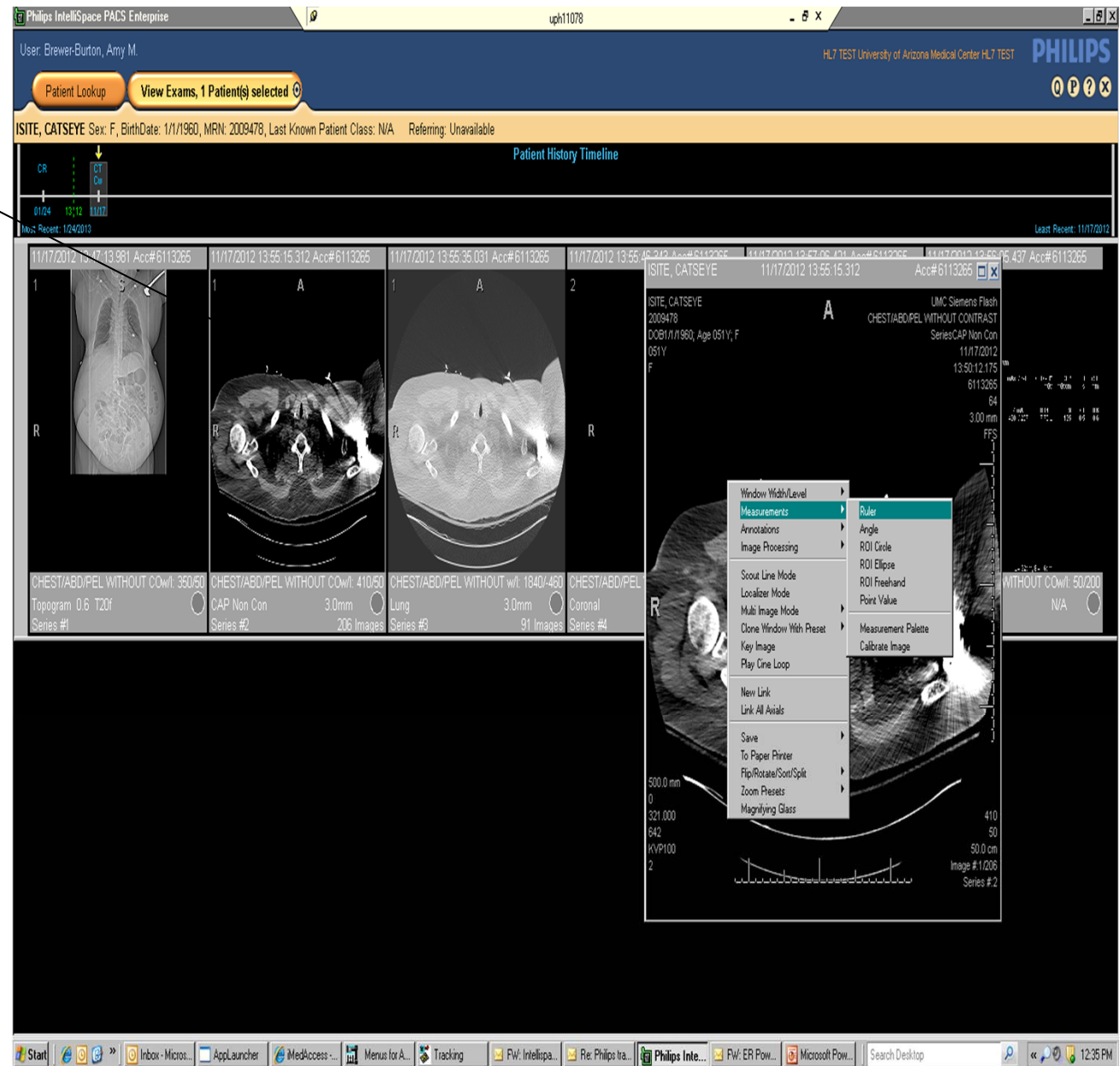
- If you do not want to open the images and only want to view the note(s) available.

- Yellow square icon means a note is available to view.
- Highlight the exam right click and select View Exam Notes.
- Follow the prior instructions to add or view a note.

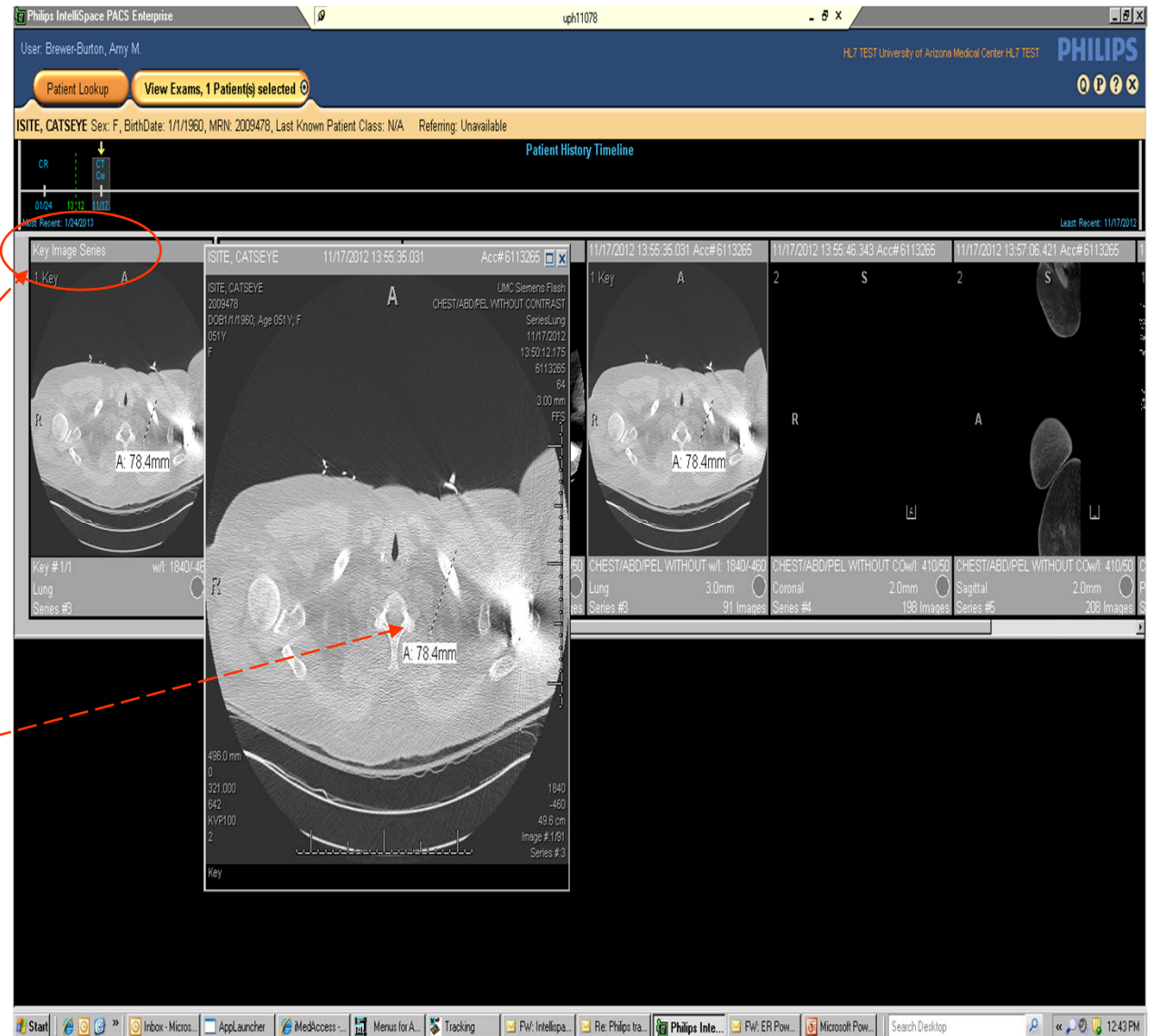


Measurements

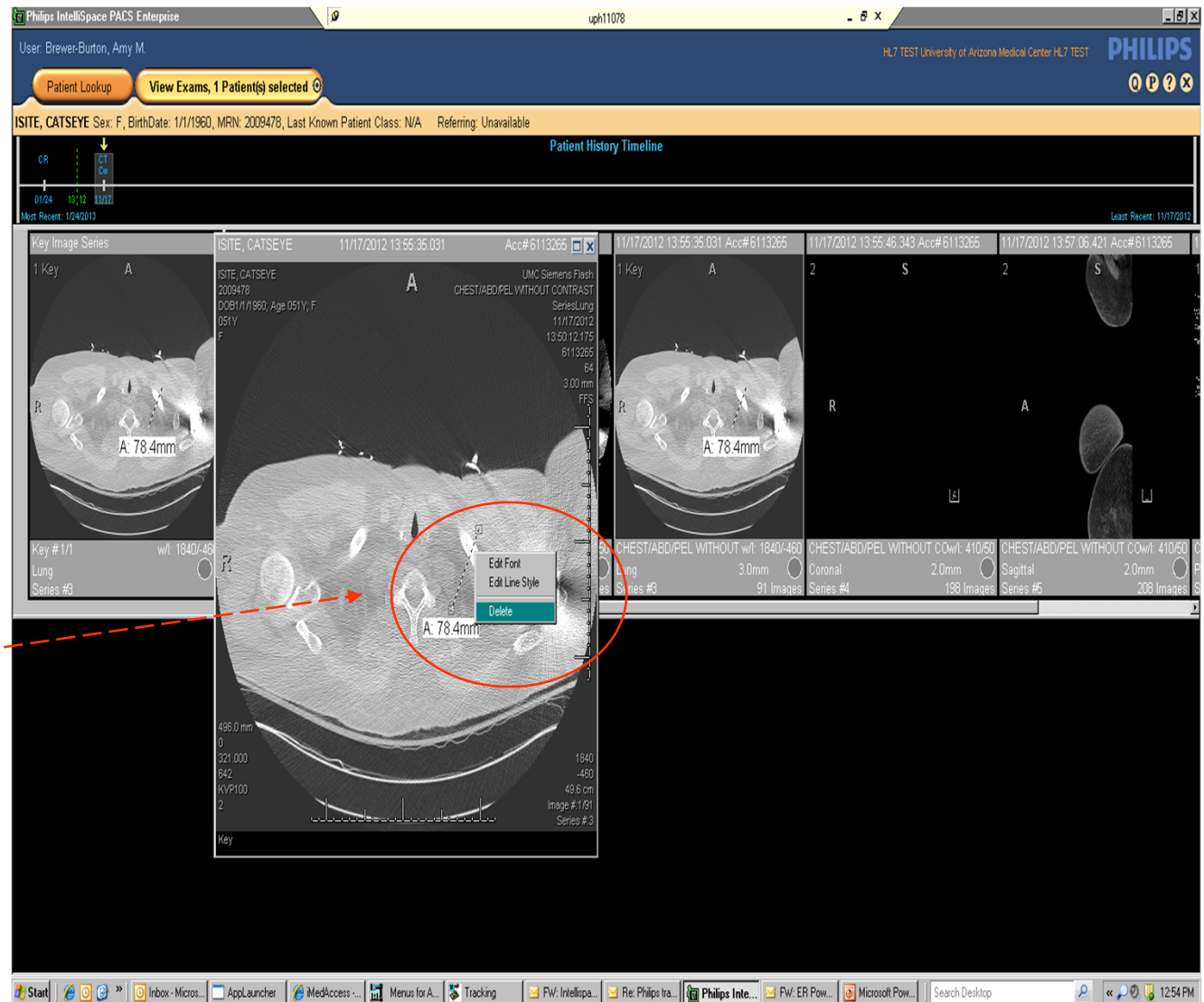
- Double click the series of image(s) you are measuring or annotating for the best view.
- Right click and select **Measurements or Annotations**; then arrow over to your available options.



- A Key Image is created to view and will be presented as the first image when it is viewed again.
- Annotation or Measurement is available to view on the image.



- Highlight your annotation or measurement and right click to see a menu to edit or delete any errors.



The End

