

## Introduction to PACS

### What is PACS (FUJI - Synapse)

- PACS stands for Picture Archive Communication System
- Electronic storing and viewing of radiology images across the enterprise

### PACS Considerations

- The PACS screen cannot be secured like Epic. Log out of PACS upon leaving your workstation. Determine a workflow within your practice.
- PACS Studies will open in either FUJI Synapse or GE PACS

## Access and Available PACS Images through FUJI

### Access PACS through Chart View

1. Click the **Chart** button.
2. Select the **Chart Review** Activity
3. Select the **Imaging** tab.
4. Highlight the procedure and double click to open the *Report Viewer*
5. Click on the hyperlink.

### Imaging Results

Each study ordered will occupy one line. Any study with a status of *Exam Ended, Preliminary, Final Result or Edited* will have a blue hyperlink to click to go to the PACS system to Available the images followed by a **Final Result** which will contain the interpretation when created by the reading physician.

04/08/2010	IR CAROTID CEREBRAL BILAT SEL	Final result	Carter, Richard L, MD	04/08/2010
04/02/2010	XR CHEST 2YW	Final result	Rodriguez, Emmanuel N, MD	04/02/2010
04/01/2010	FL LUMBAR PUNCTURE	Final result	Carter, Richard L, MD	04/01/2010
03/31/2010	MRI BRAIN W/VO CONTRAST	Final result	Carter, Richard L, MD	03/31/2010
03/31/2010	CT BRAIN W/VO CONTRAST	Final result	Carter, Richard L, MD	03/31/2010

Clicking on one of the above studies launches into the report with the images hyperlink and the interpretation.

FL LUMBAR PUNCTURE (Accession 1429328) (Order 47504508) Status: Final result 4/3/2010 7:30 AM

Results

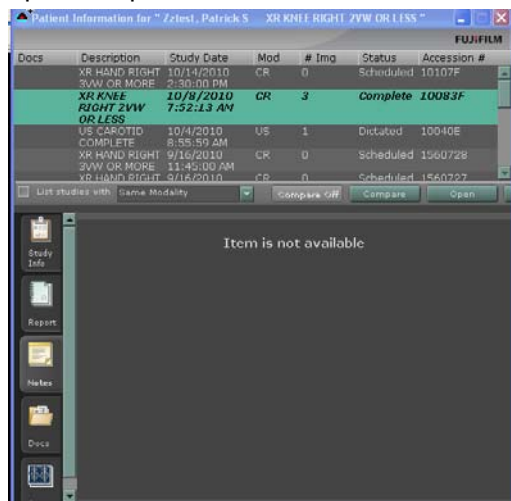
PACS Images Click link below to view imaging  
 Show images for FL LUMBAR PUNCTURE

Final Result

STUDY TEXT  
 Framinsten: Fluoroskein-mittelt lumbar puncture

## Power Jacket

When the study opens, the Power jacket opens first. The Power Jacket contains previous exams, and reports for previous exams.



## Manipulate PACS Images FUJI

1. Access the medical image through **Chart Review**.
2. Minimize the Power Jacket.
3. When the image appears, click on the image to activate the region.
4. A thin white line will appear around the image to note the region is active. Use the wheel of the mouse to scroll through images.

## Manipulate an Image

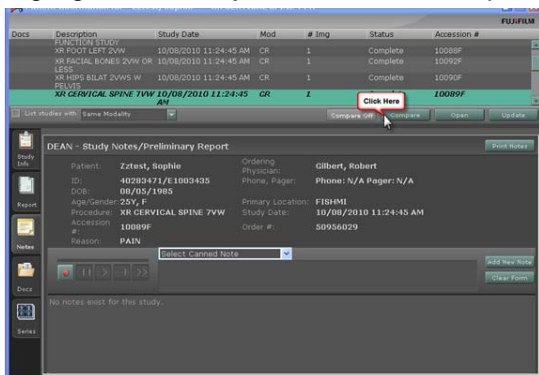
Move the cursor over the medical image and right click on the mouse. This will open an additional tools menu.

Menu Options	Functions	How to use
Window Level	Change the contrast and brightness	Hold the Left mouse button down and move the mouse up or down to adjust the brightness. Move the mouse left or right to adjust the contrast.
Zoom	Zoom in or out of an image	Hold the left mouse button down and move the mouse up to zoom in. Move the mouse down to zoom out.
Pan	Move the image while zooming in/out	Hold the left mouse button down to move the image around.
Ruler	Measure an area	Hold the left mouse button down and move from point A to point B. To delete the measurement, click on it and select delete.
Scale Rotate, Flip	Zoom or flip the image	Left click on the mouse and select an action.

To close out PACS, click on the **X** in the upper right hand corner.

## Compare Studies

1. Highlight the exam you would like to compare the study to and click the **Compare** button.



2. Minimize the Power Jacket.
3. When the image appears, click on the image to activate the region.
4. When comparing a current study to a past study, refer to the date in the upper right corner of the image. The image that has the highlighted date is the comparison study.



Current

Past



**NOTE:** If the provider wants to compare images that are located in different PACS viewers then they will queue up both images and go back and forth between the two images to view. The images will not lie side by side as shown in the example above.

## Manipulate PACS Images through GE Centricity

1. Access the medical image through **Chart Review**.
2. Click the **Chart** button.
3. Select the **Chart View** Activity
4. Select the **Imaging** tab.
5. Highlight the procedure and double click to open the *Report Viewer*

## Manipulate an Image

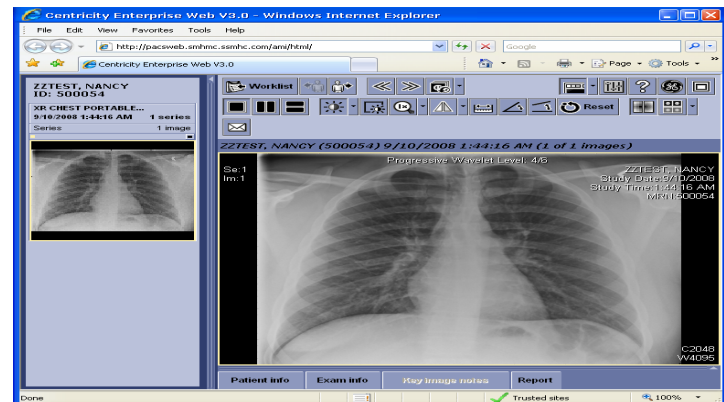
Menu Options	Functions	How to use
Thumbnail Images	Main Viewing area.	Double click on any image in the viewing area and fill the screen. Double click again will put the image back to the original size.
Zoom	Zoom in or out of an image	Hold mouse wheel and drag
Pan	Move the image while zooming in/out	Hold the left mouse button down to move the image around.
Contrast and Brightness	Change the contrast and brightness	Hold the right mouse button down and drag.
Tools	Access more tools.	In the image, right click and scroll down to the selected tool.

**To compare with another study within GE, follow the instructions listed below.**

1. Click on the drop down menu for the **Historical Exams**.



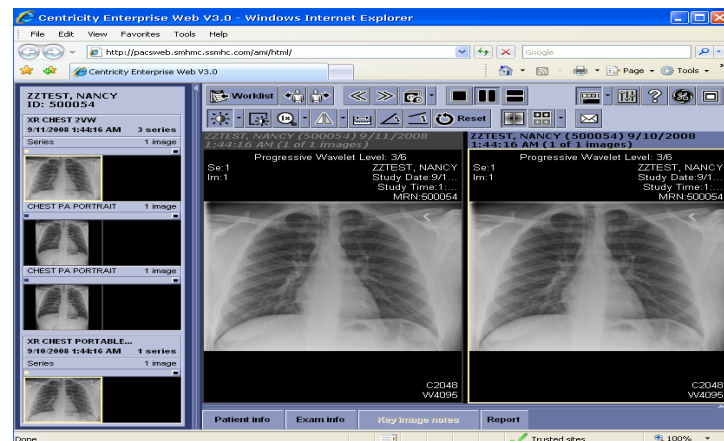
2. A list of all exams done in GE PACS will show.  
Scroll down to the exam you want to compare and click on that exam.



Exams can now be viewed side by side and also thumbnail Available down left side of viewing screen.

To move images into viewing area:

3. Click to highlight around image, hold left mouse key down and drag into viewing area.





**NOTE:** Tools to manipulate images are active in the side of the viewing screen that has the highlighted box around the image.



**REMINDER:** Images can be compared side by side when accessing them through the same PACS Viewer.

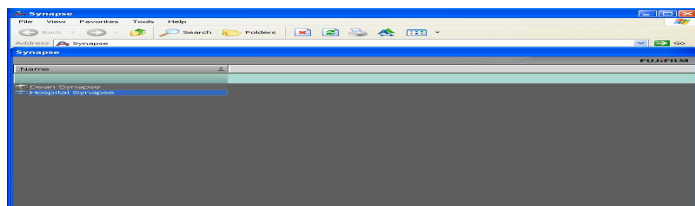
## Access Medical Images through the Synapse Icon

When a report in Chart View does not have an *Image Available* link and no additional line indicating “Image,” you may access the medical images directly through the Synapse icon.

Physicians, Advanced Practitioners, Super Users, Charge Nurses and Radiology staff will have access to the Synapse Icon located on the desktop.



1. From the desktop Double click the **Synapse icon**.
2. Double click **Hospital Synapse**



**NOTE:** You may be prompted to enter your username and password.



**NOTE:** Once logged into Hospital Synapse, the work lists for, Edgerton, Stoughton or St Mary's Janesville, will appear along the left side.

1. Double click the into the appropriate hospital folder
2. Click on **All Studies**
3. Search for a patient using Last Name, First Name.
4. Double click on the exam you wish to view.

### Other Work List

For those patients who have common names (i.e., Johnson, James), use the “**ALL PATIENTS**” worklist.

1. Double click the **All Patients** folder.
2. Search for the patient using Last Name, First Name and Date of Birth.

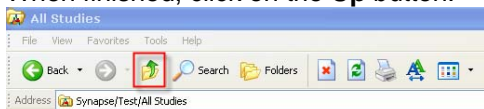


**NOTE:** Additional worklists may not be used, and cannot be hidden/removed from your Available. You may also see folders that other users do not see based upon your role.



**WARNING:** If your name does not appear on a folder, close out of Synapse, log out of Synapse, and log back in as yourself.

- When finished, click on the **Up** button.



- To log out of Synapse click the **X** in the upper right hand corner.

## Images Available

If Images are taken at:	Then:
Dean Clinic	Available through Chart View.
Edgerton Hospital	Available through Chart View.
St Clare Hospital	Available through Chart View
St Mary's Janesville Hospital (Jan2012)	Available through Chart View
St. Mary's Hospital Madison	Available through Chart View.
Stoughton Hospital	Available through Chart View



**NOTE:** To view images done at Columbus Community Hospital, follow the department's protocol to request the image.

### For Assistance or Questions:

- Go to the Help Menu and select Synapse Help for a complete Synapse User Guide.
- Call the Help Desk