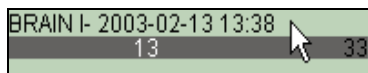
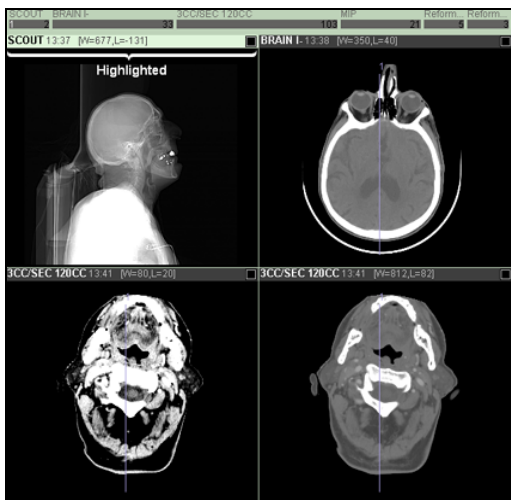


- ▶ The **date** and **time** of the series is displayed when you place the cursor over the series description:



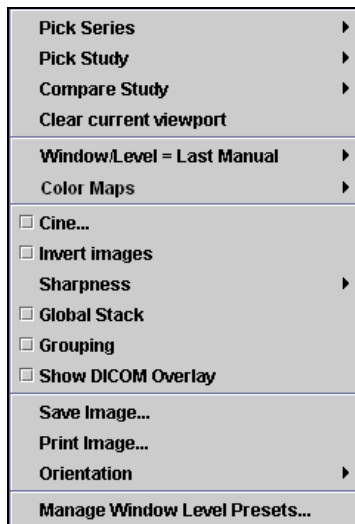
- ▶ If you have multiple viewports displayed, the **active** viewport will have its **title bar** highlighted:



- ▶ The **Tool Bar** contains a variety of different layout and image manipulation tools:



- ▶ The **Pop-up Image Menu** contains additional tools, and is accessed by clicking and holding the **right** mouse button over an image:



KEYBOARD SHORTCUTS:

The following keyboard shortcuts are available:

Study Navigation:

Right Arrow	Advances to the next image
Page Up	Advances to the next image
Left Arrow	Returns to the previous image
Page Down	Returns to previous image
Down Arrow	Skip series
Up Arrow	Return to previous series
Space Bar	Set key image
Ctrl-Left Click	Group a view port

Temporary Mouse Modes:

Shift-Left Click	Activates paging mode
Alt-Left Click	Activates pan mode
Shift-Alt-Left Click	Activates probe mode
Ctrl-Shift-Left Click	Activates W/L mode

Window and Level:

J Window up	I Level up
K Window down	M Level down
1 W/L Preset 1	6 W/L Preset 6
2 W/L Preset 2	7 W/L Preset 7
3 W/L Preset 3	8 W/L Preset 8
4 W/L Preset 4	9 Auto Preset
5 W/L Preset 5	0 Last Manual W/L
- System Generated W/L	

Tool Selection:

G	Group/ungroup all series
L	Activate Line Measurement tool
T	Activate Add Text tool
P	Activate Probe tool
R	Activate ROI Statistics tool
C	Center and Zoom image
S	Toggle through sharpening filters
Ctrl-A	Select all measurement annotations
Ctrl-Insert	Play VoiceClip

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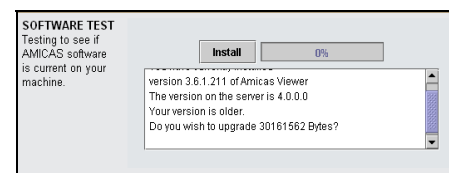
GETTING STARTED

1. Launch the LightView Diagnostic Viewer

Click on the LightView icon on your desktop or browse to the AMICAS Welcome Screen at the following address:

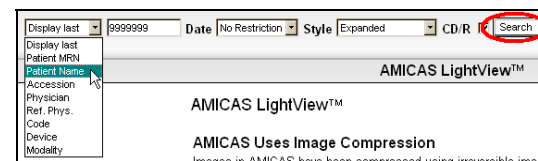
2. Install or Update the Software

If necessary, follow the instructions on the AMICAS Welcome Screen to install the latest version of the LightView software:



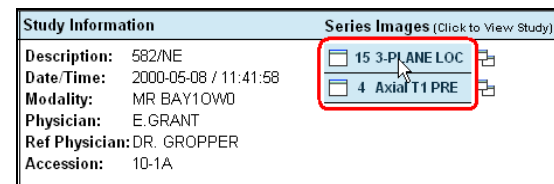
3. Enter the Patient Medical Record Number

Select **Patient MRN** from the **Match** menu, enter the patient's MRN in the window next to it, and click on **Search**:



4. Click on the Desired Series

One or more Series and Studies will be listed for the patient; click on the Series you wish to view:



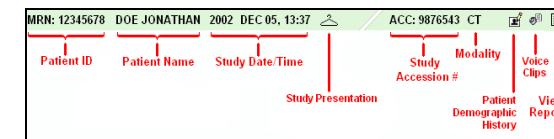
5. View the Selected Images in the LightView Image Viewer

THE IMAGE WINDOW

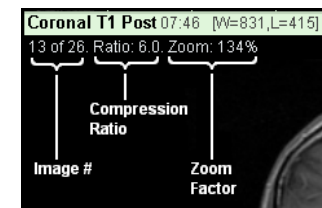
When you select a patient's images, the LightView Image Viewer will be launched as a separate window:



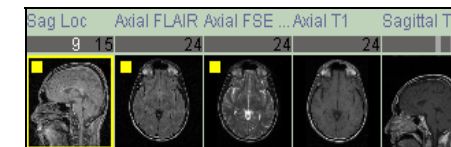
- ▶ Information about the **Patient** and **Study** is displayed, along with a clickable **View Report** icon (if your system is so equipped):



- ▶ Information about the **Series** and each **Image** is displayed:



- ▶ Use the **Image Navigation Bars** or **Series Navigation Thumbnail Images** to quickly select series and images to view in the active viewport:



- ▶ Click on an image number in a Series Navigation Bar or on a Thumbnail Image to select a study.
- ▶ You can also click on a thumbnail image or series description and then "drag and drop" the study into a particular viewport.

IMAGE, SERIES, AND STUDY NAVIGATION

Navigating through Multiple Images

In addition to the **Image Navigation Bar**, there are a number of ways to move from one image to another:



Page Images Mouse Tool – Click this button on the **Toolbar** to scroll through a series of images by dragging your mouse pointer over an image.



Cine Tool – Use this tool on the **Tool Bar** and the **Pop-up Image Menu** to automatically cycle through all the images in a particular Series

- **Keyboard shortcuts** – Press the left arrow and right arrow keys or the Page Up and Page Down keys.
- **Mouse Wheel** – If your mouse is equipped with a center wheel, you can use it to page through the images in a series.

Navigating through Multiple Series

In addition to the **Image Navigation Bar**, there are a number of ways to move from one Series to another:

- **Pop-up Image Menu** – Click and hold the **right** mouse button over an image, and select **Pick Series** from the menu.
- **Keyboard shortcuts** – Press the **up arrow** and **down arrow** keys to jump from one Series to the next within a single Study.

Navigating through Multiple Studies

If a patient has more than one Study, click and hold the **right** mouse button over an image, and select **Pick Study** from the **Pop-up Image Menu**.

CHANGING THE SCREEN LAYOUT

Viewing Multiple Images Simultaneously



Image Tiling Button – Click this button on the **Toolbar** to toggle “thumbnail” mode on and off.



Image Tiling Menu – Click the gray triangle to the right of the **Image Tiling button** on the **Tool Bar** to display a menu of tiling options.

CHANGING THE SCREEN LAYOUT (Cont.)

Viewing Multiple Series Simultaneously



Series Layout Button – Click this button on the **Toolbar** to toggle between a single series layout and whatever the previous layout was.



Series Layout Menu – Click the gray triangle to the right of the **Series Layout button** on the **Tool Bar** to display series layout options.



Reference Lines – Click this button on the **Tool Bar** to toggle the display of any available reference lines when viewing multiple series.



Auto Series Synchronization – Click this button on the **Toolbar** to link all series in the same plane for navigational purposes.



3D Cursor – Click this button on the **Toolbar** to activate the **3d Cursor** tool. Clicking on one image will then display the relative position of the cursor in other related planes.

Comparing Two Studies Side-by-Side

- **Pop-up Image Menu** – Click and hold the **right** mouse button over an image, and select a study from the **Compare Study** option:



Compare Studies Button – Click this button on the **Tool Bar** to **exit** Compare Studies Mode.

MANIPULATING IMAGES



Window/Level Mouse Tool – Click this button on the **Tool Bar** to adjust the Window and Level of an image “on the fly” by dragging your mouse pointer over the image.



Window/Level Menu – Click the gray triangle to the right of the **Window/Level Tool** on the **Tool Bar**, or select it from the **Pop-up Image Menu**, to display a menu of W/L options.



Auto Window/Level – Click this button on the **Tool Bar** to optimize the Window and Level for the image currently being viewed.



ROI Window/Level Mouse Tool – Click this button on the **Tool Bar** to select an area of an image with your mouse for automatic Window/Level optimization.

MANIPULATING IMAGES (Cont.)



Pan Image Mouse Tool – Click this button on the **Tool Bar** to use your mouse to move an image that is too big to fit on the screen.



Magnification Mouse Tool – Click this button on the **Tool Bar** to use your mouse to enlarge selected portions of an image.



Zoom Mouse Tool – Click this button on the **Tool Bar** to use your mouse to enlarge or shrink an entire image.

TIP: Click on the **right** mouse button repeatedly to switch among the **Window/Level, Page Images, Zoom, Pan** and **Magnify** mouse tools.



DICOM Overlay – Click this button on the **Toolbar** to toggle on and off the DICOM Overlay option for all viewports



Measurement Mouse Tool – Click this button on the **Tool Bar** to use your mouse to add a temporary measurement to an image.



Annotation Menu – Click on the gray triangle to the right of the Measurement tool to bring up the various annotation options:



Text Annotation Tool – Use this to add annotated text to an image.



Probe Tool – Use this to determine the intensity value for a selected pixel of the image being viewed.



ROI Statistics Tool – Use this to display the pixel intensity values for a selected area of an image.

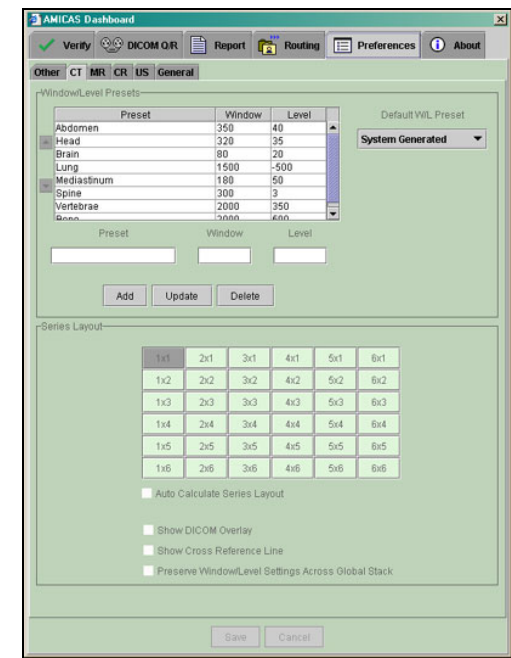
- The **Pop-up Image Menu** can be used for

- **Sharpening Images** – Select a **sharpness** option, or press the **S** button on the keyboard to cycle through the various options.
- **Color Maps** – Select a **Color Map** option, if available.
- **Inverting Images** – Select **Invert Images** to temporarily reverse the black and white pixels for all images in a series.
- **Changing Image Orientation** – Select various **Orientation** options to temporarily rotate or flip an image.
- **DICOM Overlay** – Turn on the DICOM Overlay for the selected image.
- **Manage W/L Presets** – Create, edit and delete custom W/L presets.

THE AMICAS DASHBOARD



Bring up the AMICAS Dashboard by clicking on the AMICAS Icon, located at the far left of the **Tool Bar**:



Depending on how your system has been configured, the Dashboard provides you with the following optional features:

- **Preferences** – Lets you to customize the local viewing preferences for your computer.
- **About** – Displays information about the version of AMICAS Diagnostic Viewer that you are running
- **Report** – Lets you view a report, if any, for the currently open Study
- **Routing** – Lets you manually send a Study to another available location and track their status
- **DICOM Q/R** – Lets you request images that have been stored in a separate DICOM archive
- **Verify** – Lets authorized users validate a Study, add comments and warning messages and designate it as eligible for viewing by users with restricted access