



Enterprise Imaging (EI)

ED Provider Workbook

June 1, 2023

This self-guided workbook allows ED Providers to practice navigating through Enterprise Imaging (EI) workflow. Please note, the following scenarios are designed to demonstrate functionality and may not be inclusive of all Northern Light Health policies and procedures.

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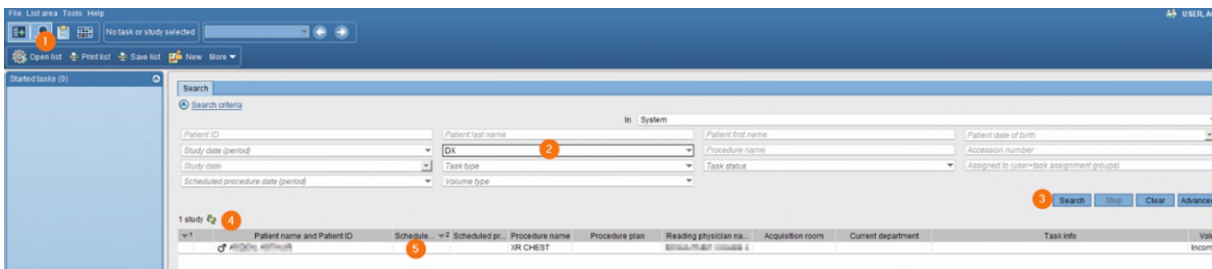
Signing into Enterprise Imaging (EI) – Clinician Desktop

- Click the **Windows** icon in the bottom left corner of the computer screen.
- Click Agfa Healthcare.
- Click Enterprise Imaging.
- Click Clinician icon.
- Type your **Username**, currently used in IMPAX.
- Type your **Password**, currently used in IMPAX.
- Click **OK**.



Locate Patient order

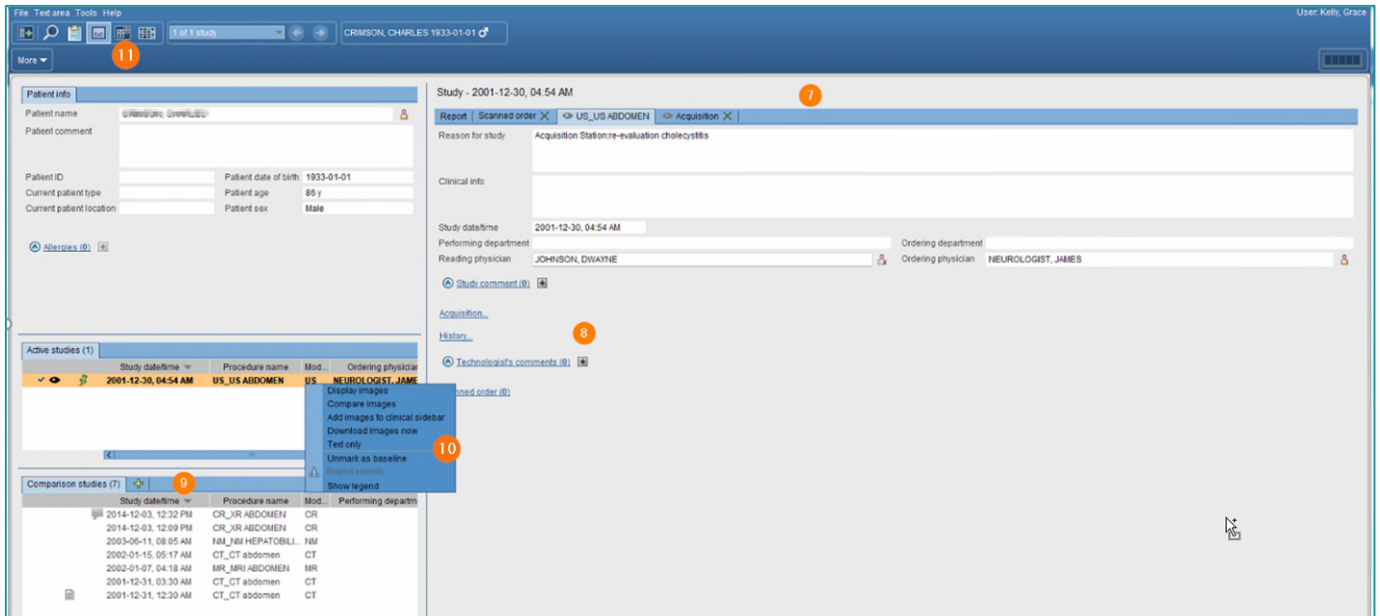
- **Via task list or ad hoc search**



1. Select **Search** icon in the tool to begin an ad-hoc search.
2. Input search criteria (i.e., **Patient ID, patient last name, accession number**).
3. Select **Search** icon.
4. Search results display with the number of results that meet your search criteria.
5. Select the study you want to review.
6. Double-click or right-click the line of the study you wish to display and open.
7. Text area displays.
8. Study information tab displays if report has not been created. If report is created, the report tab displays here by default. View study information and technical comments by users either entered in EI manually or in the RIS via HL7 message.
9. Comparison studies are available for this patient.
10. To display comparisons, right-click for display options.

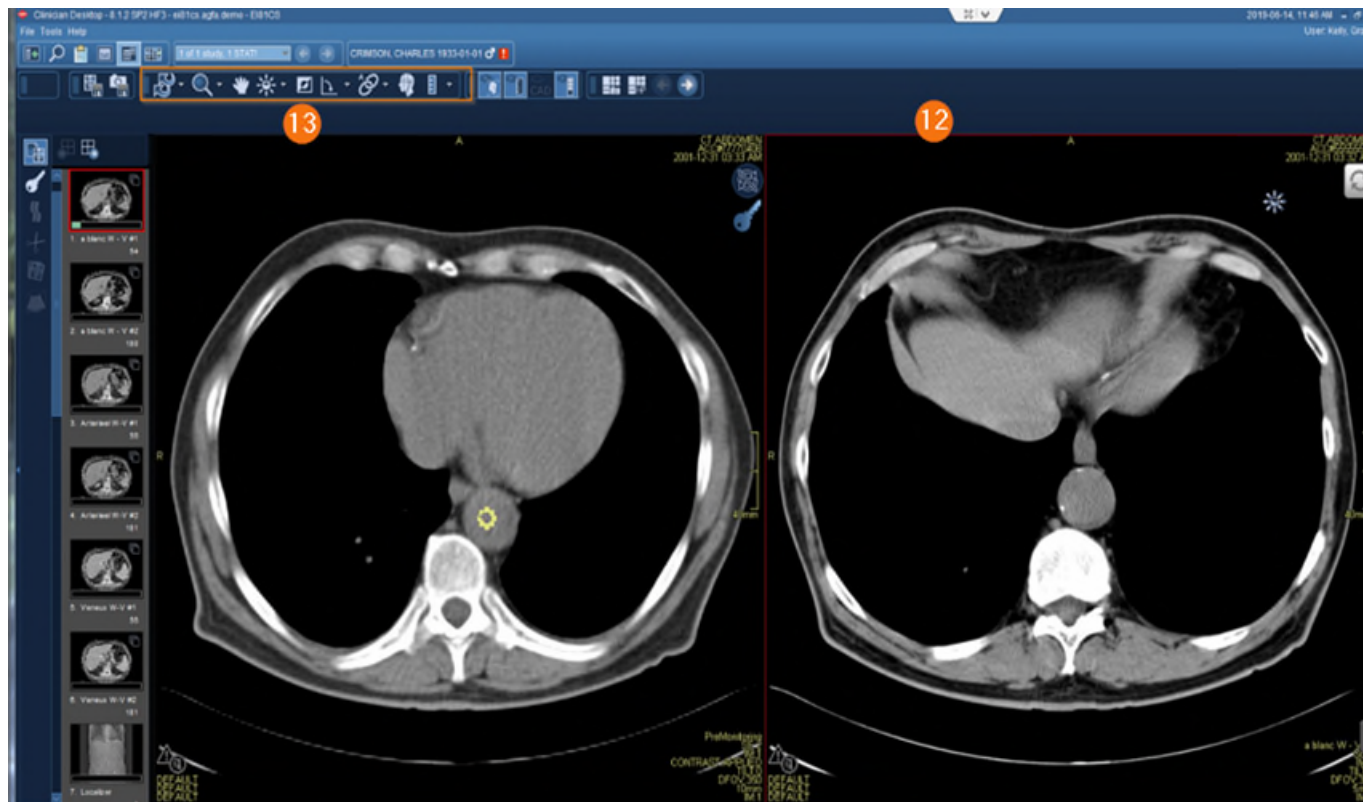
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11. On a one monitor setup, click the **image** icon to go to image display. 



12. Image page displays.

13. Available tools:



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Toolbar Icons

➤ Tools necessary to manipulate the system





▪ File – Menu Option

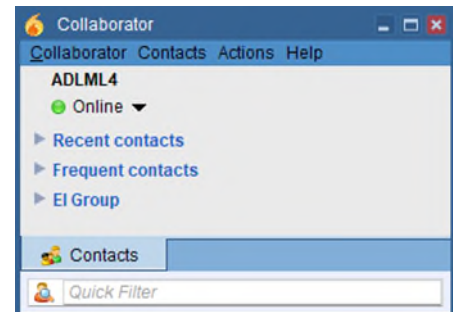
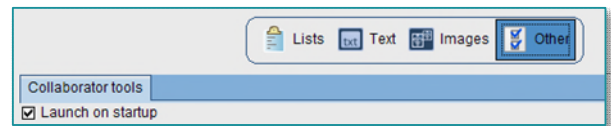
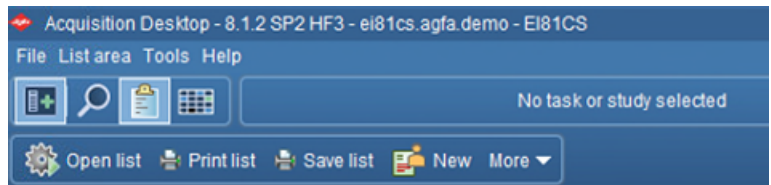
- Logoff
- Exit
- Add user

▪ List Area – Menu Option

- Activities Overview
- Customize columns

▪ Tools – Menu Option

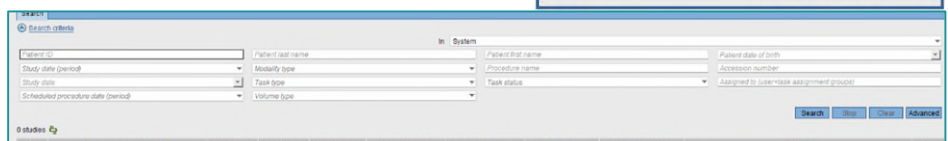
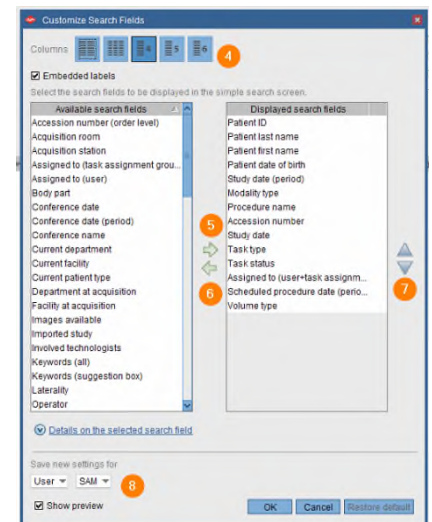
- Options
- **Collaborator tool**- is used to talk to staff like current IMPAX system
- **Help** – Menu Option is available to find answers needed.
- Hide Navigation 
- Search 
- Patient List 
- Calendar 



Desktop Customizations

➤ Right-click in the gray area to provide options for customization.

1. Select gray area in search field or columns.
2. Right-click.
3. Select customize fields or customize columns.
4. To specify the number of search columns, click the Perspective Column button.
5. To display additional search fields, select and move items from Available search fields to Displayed search fields.
6. To remove currently displayed fields, reverse the above step.
7. To change the displayed order, select up/down arrows to right of displayed field.
8. The setting saves for the login user.
9. Select OK.






F12 Options

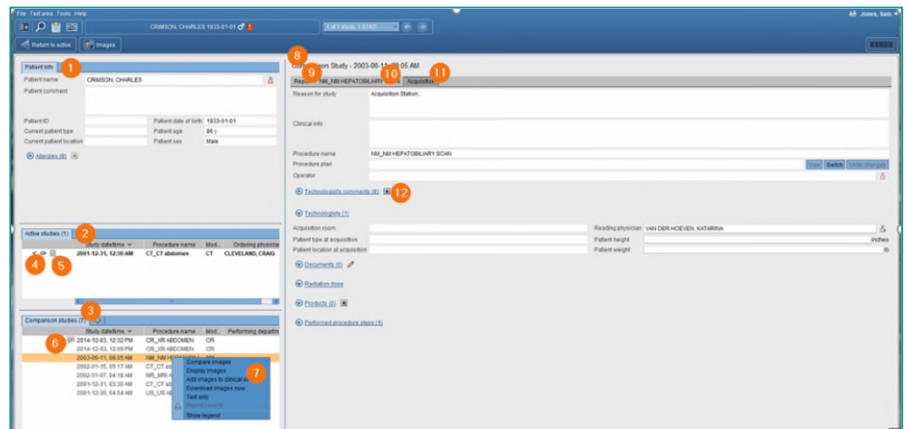
- Defines the settings that change the look and feel of the desktops

 1. Select **Tools > Options** or **F12**.
 2. Options window displays.
 3. Selecting **Lists** allows customization of items related to List area.
 4. Selecting **Text** allows customization of items relate to Reporting and Text area.
 5. Selecting **Images** allows customization of items related to Image area including image display options, keyboard shortcuts, and saving of mark-ups.
 6. Selecting **Others** allows you to turn on or off the collaborator tool for default login setting.
 7. This setting saves for the login user.



Text Page Details

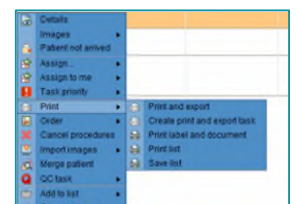
1. Patient information
2. Active studies
3. Comparison studies
4. Eyeball icon  show images are in display
5. Report icon  shows the study has a report attached
6. Study comment communication between provider and radiologist 
7. If an image is not in display, right-click for display options.
8. Study information for study that is in display
9. Report Tab
10. Order Tab
11. Acquisition Tab
12. Comments



Print and Export

- Print, fax, email, save to media, and transfer DICOM data.

 1. Select **Patient**.
 2. Select **More**, top toolbar or right-click.
 3. Select **Print**.
 4. Select **Print and Export**.



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5. Select **Distribute report**, **Save to Media**, **Dicom Transfer**, or **Dicom Print**.

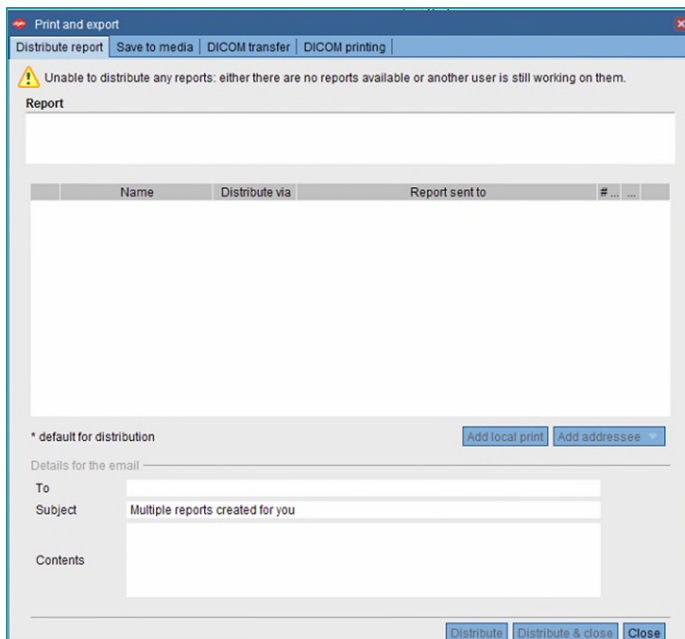


Image Visualization

- The image area combines all image display, manipulation, and enhancement tools for reading in EI.



1. Patient banner
2. Tools
3. Clinical sidebar
4. Save Presentation State and Create Snapshot
5. Active vs. Comparison

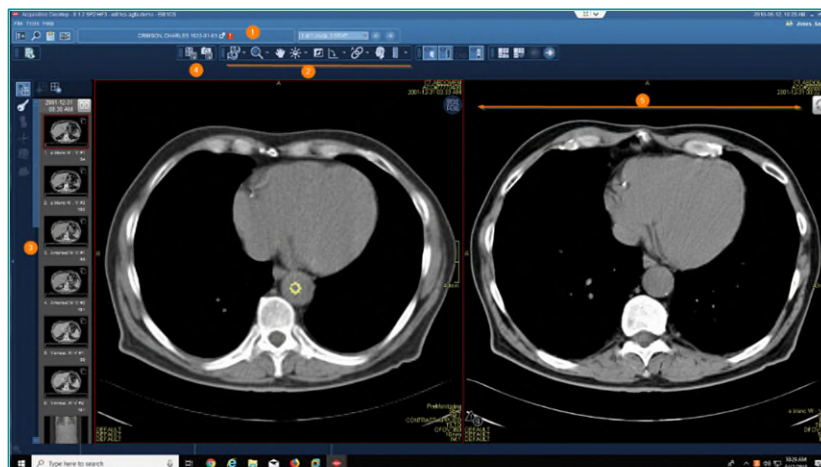


Image area markup tools

- Calibrate images, take measurements, highlight, and annotate areas with arrows or text. Also have the ability to hide, modify, or delete markups.
 1. Activate tool with left-click and see tool attach to arrow.
 2. Utilize tool with by left-clicking.
 3. Deactivate tool with right-click, tool no longer is attached to arrow.

NOTE: If there is a dropdown arrow to the right of tool, this indicates more options are available

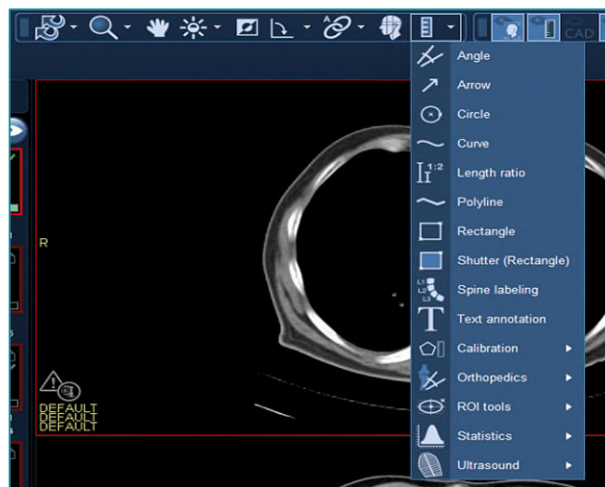
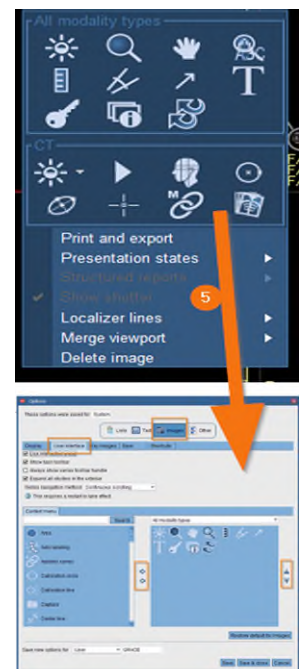


Image Area Context Menu

- Access a selection of relevant tools without leaving the current image with the pointer
 1. Right-click to open context menu.
 2. Left-click **desired tool**.
 3. Left-click to **utilize tool**.
 4. Right-click to **deactivate**.
 5. Customization for the **Image context menu** can be obtained from F12.

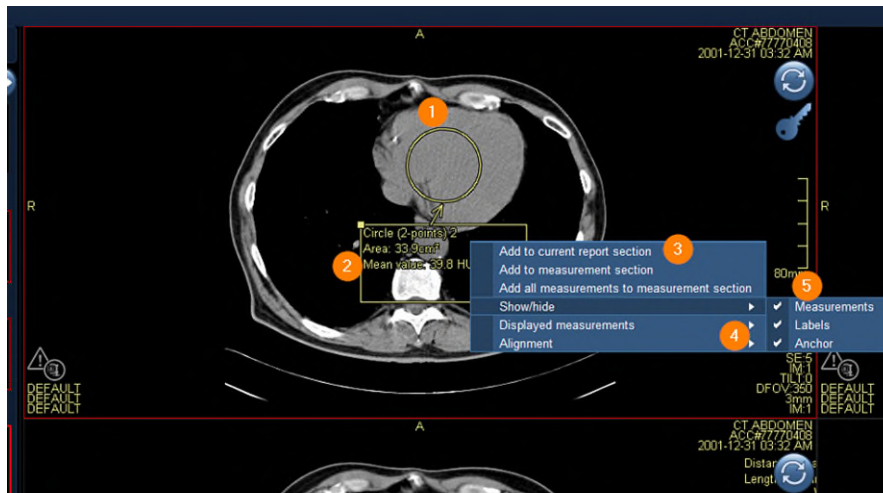


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How to configure a default tool

1. Select tool, create measurement, and deactivate.
2. Hover over measurements with left-click until enhanced measurements are viewable.
3. Right-click to see an additional box with options.
4. Select side arrow to see additional options.
5. Select or deselect desired options.


NOTE: These measurement setting is set as the user's default.



MPR Features

- Method for reconstructing axial, coronal, sagittal, or oblique views from slices in any of these planes.

Changing the view in an MPR viewport:

1. Place **cursor** over the **bottom center** of the view port.
2. To open **view sub options**, point to **2D to change viewport** to an MPR or other options.
3. To change the view to axial, sagittal, or coronal, click the **respective** button.
4. To get a **Secondary Capture**, select the **camera** icon.
5. If you want to keep the **tool bar active** in the viewport select the push pin. 



MPR features within Hanging Protocol

1. To activate MPR display, open the hanging protocol gallery.
2. Select a **predesigned MPR hanging protocol**.

