

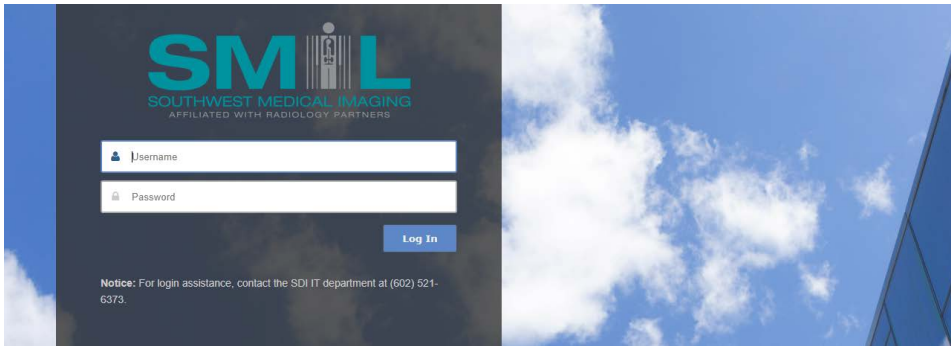
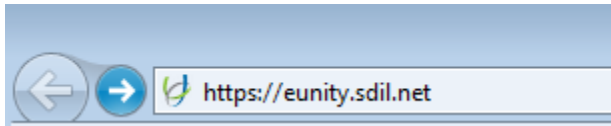
eUnity™ SMIL PACS Viewer

- Fast Start Guide

eUnity™ SMIL PACS Viewer displays diagnostic quality images and is compatible with most commonly configured browsers on MAC™ or Windows™ PC, plus point-of-care mobile devices (iPhone, iPad and Android).

To get started

1. You must first have an activated account, a user name and temporary password (for more information go to www.esmil.com =>Physician Services=>PACS Registration Form or call 480-425-5019).
2. To access eUnity using a mobile device your first log in must be through a desk top.
3. Type the URL <https://eunity.sdil.net> into your desk top browser.



4. Enter your username and temporary password.

5. You will be prompted to enter a new personalized password. You will see a message stating "Invalid Username and/or Password". Simply re-enter your username and new password. If you need assistance call SMIL IT 602.521.6373

Patient Search

- Enter any combination of patient related information to help you locate your patient.
- When searching by Patient Name, use the format *LAST NAME, FIRST NAME*
- Patient ID allows you to search for your patient by their Medical Record Number (MRN).
- Accession Number allows you to search for your patient by using the exam's Accession Number (ACC#).

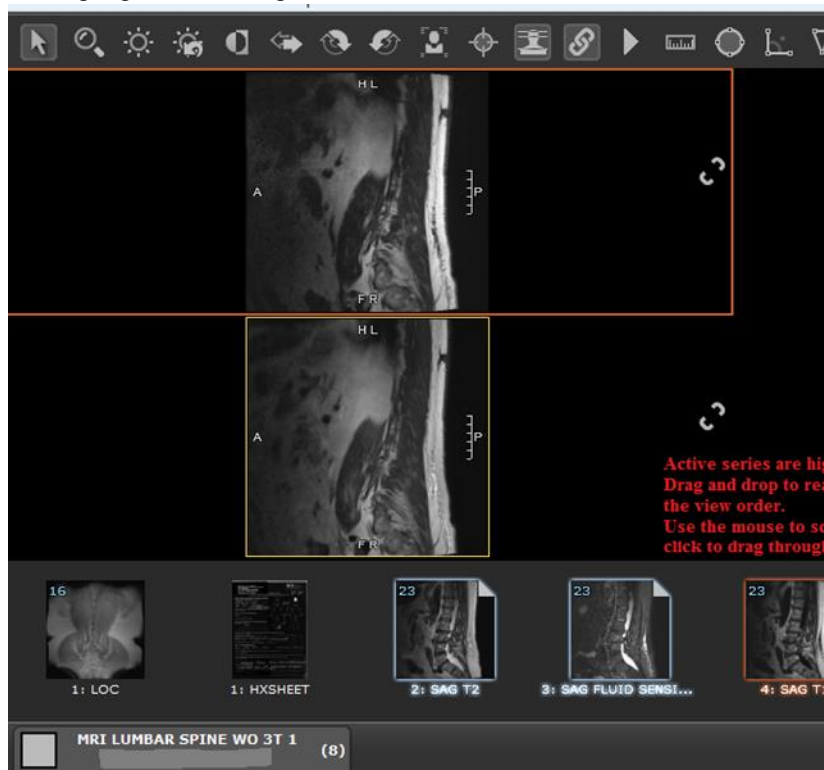
Multi-study Comparison

- Selecting multiple studies for the same patient can be done from the search screen. To view multiple studies, place a check in the box for each study and then press enter on the keyboard to launch them together.

SEARCH	LOCAL PATIENT NAME	PATIENT ID	ACC.#	STUDY DATE	STUDY TIME	TYPE	DESC	REF. PRD	REFS DATE
<input type="checkbox"/>	TEST PATIENT	8034479	101757	26-Apr-2015	09:13:31	DX	CHEST PA AND LATERAL 2 VIEWS OUTSIDE READ	PUCHOWICZ, MICHAEL	25-Jun-1985
<input checked="" type="checkbox"/>	TEST PATIENT	8010845	103259	29-Apr-2015	14:28:58	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input checked="" type="checkbox"/>	TEST PATIENT	8010845	103259	29-Apr-2015	09:23:27	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	103259	28-Apr-2015	16:05:14	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	103259	27-Apr-2015	15:56:28	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	103259	27-Apr-2015	13:57:53	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	103259	27-Apr-2015	13:08:25	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	103259	27-Apr-2015	13:27:19	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	103259	26-Apr-2015	16:37:45	US	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	103259	06-Jul-2015	08:01:39	CT	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	801440	24-Feb-2014	18:23:58	CT	MOBILITY GA CT	TEMPORARY DOCTOR	26-Jun-1942
<input type="checkbox"/>	TEST PATIENT	8010845	308001	29-Oct-2008	12:38:12	CRDT	CHEST PA AND LATERAL 2 VIEWS	GREEN, BABBY	26-Jun-1982
<input checked="" type="checkbox"/>	TEST PATIENT	80217547	1252103	16-Jun-2016	09:33:52	MR	DSF FROM CD HEAD OR NECK MR	TEMPORARY DOCTOR	15-Jul-2016
<input type="checkbox"/>	TEST PATIENT	80217547	1221998	09-Dec-2014	08:19:21	MR	DSF FROM CD LOWER EXTREMITY CT MR	TEMPORARY DOCTOR	15-Jul-2016
<input type="checkbox"/>	TEST PATIENT	80217547	1222099	27-Feb-2014	09:31:14	MR	DSF FROM CD VESTIBULAR MR	TEMPORARY DOCTOR	15-Jul-2016
<input type="checkbox"/>	TEST PATIENT	80217547	1252085	03-Apr-2012	15:04:26	MR	DSF FROM CD LOWER EXTREMITY CT MR	TEMPORARY DOCTOR	15-Jul-2016
<input type="checkbox"/>	TEST PATIENT	80150788	808079	04-Dec-2013	13:53:17	CT	CT CHEST AND LOWER AND PELVIS W AD	TEMPORARY DOCTOR	05-Jun-2001
<input type="checkbox"/>	TEST PATIENT	80150788	808080	04-Dec-2013	13:53:17	CT	CT NECK W H	TEMPORARY DOCTOR	05-Jun-2001
<input type="checkbox"/>	TEST PATIENT	80150788	810605	21-Jun-2013	14:05:14	CR	ANDROMEN 2 VIEWS WITH PA CHEST	TEMPORARY DOCTOR	05-Jun-2001

Navigating Series and Images in eUnity

- To navigate through the series use the mouse wheel, the up and down cursor keys, or by left-clicking the mouse on the display view and drag up and down. The “home” key navigates to the first image and the “end” key navigates to the last image.
- The Push Pin controls the docking tray. Select to keep the series display on the screen. Click on a series of interest and drag/drop onto the display port. The active series is highlighted in orange.



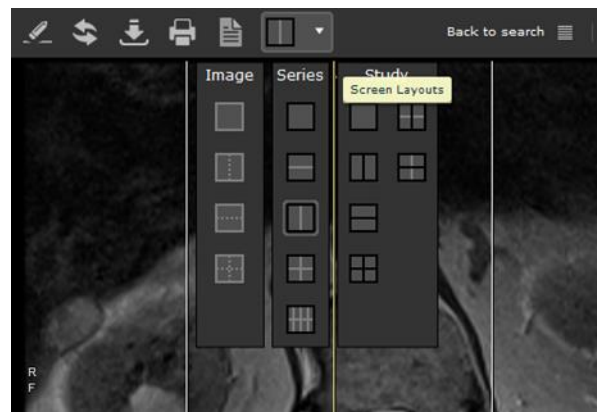
Measurement Tools

- Linear Measurement** The Linear Measurement tool allows users to make length measurements.
- Ellipse ROI** The Ellipse ROI (Region of Interest) Measurement tool allows users to draw an ellipse. The Area, Perimeter, Size Average Hounsfield (HU) and Standard Deviation are presented in mm. Measurements are also denoted by the calibration source as provided within the DICOM image's header information.
- Angle Measurement** The Angle Measurement tool allows Users to make angle measurements.
- Freeform ROI** The Freeform ROI (Region of Interest) Measurement tool allows User to draw a freeform measurement. The Area, Perimeter, Size Average Hounsfield (HU) and Standard Deviation are presented in mm. Measurements are also denoted by the calibration source as provided within the DICOM image's header information.
- Cobb Angle Measurement** The Cobb Angle tool allows Users to measure angles using two separate, disjoint lines.
- Line Annotation** Line Annotation Tool allows users to draw a line.

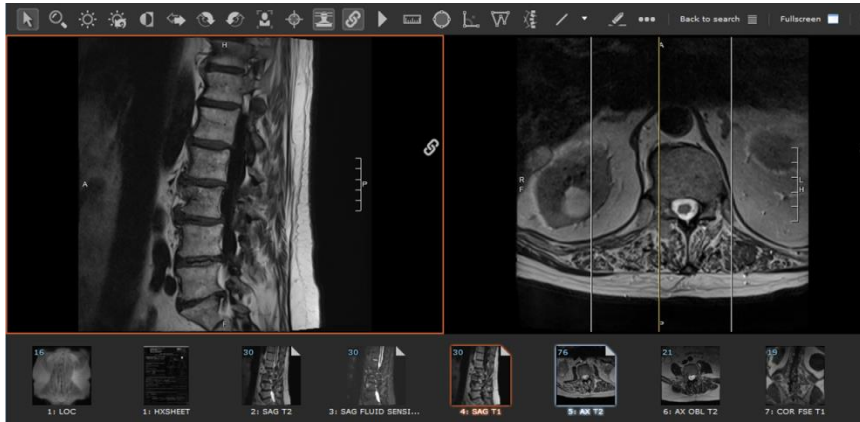
Advanced Tools – Reference Lines

- Scout/Reference Lines** Reference lines toggle helpful overlay lines when using triangulation or scout images.
- Triangulation Mode** Triangulation tool allows for navigation of orthogonal series.

Select the Series of interest under Screen Layouts then Reference Line Tool and Triangulation Mode.



Advanced Tools – Reference Lines (contd.)



- A single yellow line represents the current displayed image in the series.
- Two white lines indicate the intersection of the first and last image of the series.

Advanced Tools – Linked Series



Linking series allows one to perform a set of common operations ([Navigate](#), [Window and Level](#) and [Zoom Tool / Pan](#)) on a group of series. Just click the link series button to automatically link the series in view. Series can be linking both within and across studies.

Navigation Linking – Groups images by plane. Images of different orientations will navigate separately from other orientations. If a linked series stack does not have a slice close to the navigating series location then a broken link will be displayed.

Zoom and Pan Linking – Groups images by orientation.

Window Level Linking – Groups series by modality and localizer type. Only images of a specific modality will be window leveled together.

Reports/Patient Study List



[Study Information](#)

Study Information panel presents associated reports, study information and a related studies list.

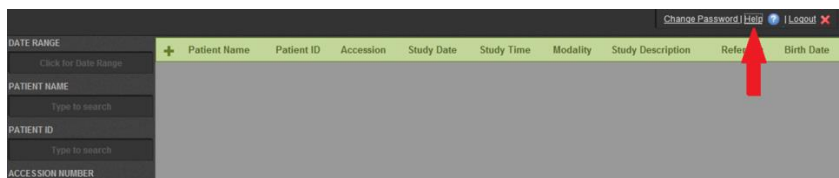


[Paper Printing](#)

Perform a paper print of the on screen images.



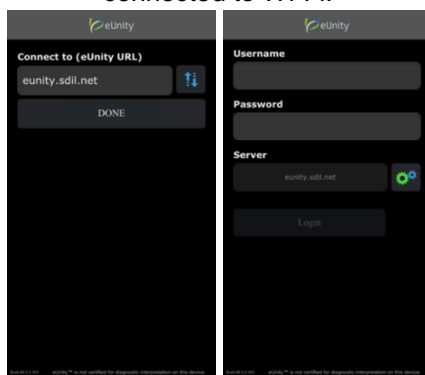
Select the HELP feature for a description of Image Display Tools.



For additional assistance and troubleshooting, contact Scottsdale Medical Imaging's IT Department at 602.521.6373.

Steps for Mobile Device Access* (you must have previously logged in through a desk top)

- Visit the App store for your device to download and install the eUnity application.
- To access with a mobile device begin by typing the server name eunity.sdil.net into the server section of the log in screen. The server name will automatically be remembered for future use. If your connection is not successful, make sure your data connection is strong or that you are connected to Wi-Fi.



*eUnity is not intended for diagnostic interpretation using mobile devices

Mobile Viewing

Once the study is launched in the viewing portion of the application, tools are presented across the top while the series tray is displayed on the bottom.

Users can single tap in the middle of the screen to bring up, or hide, more options. On the tablet this will include the top toolbar and the series tray. On the phone this displays pan and window/level mode selection.



One Finger Tap

- On the top toolbar: selects a tool.
- In the viewing area: hides/shows series tray and toolbar.
- In the series tray: will swap series in display.
- At the bottom of a navigation zone: will move forward one image; in the top backward one image.



Touch Drag Up/Down

In a navigation zone: will navigate forward and backward through the image stack.



Pinch Zoom

In the viewing area: will zoom in on the displayed image.



Touch Drag Multi-Direction

- When window level tool is active will modify window level values.
- When cursor (pan) tool is active and image is zoomed, will pan the image.



Touch Pan

- When zoom mode is enabled, pressing and dragging will pan the image around the viewport.
- When window level is enabled, pressing and dragging will modify the window center and width values.