





IMPAX 6.5.1 Quick Reference: CT/MR

Common CT/MR navigation tools

	Link Series Access to linking options:
	<ul style="list-style-type: none">• Auto Link mode—Automatically connect coplanar series by table position so that navigation, and optionally window leveling and magnification, performed on one series applies to all series• Manual Link mode—Manually connect coplanar series by table position so that navigation, and optionally window leveling and magnification, performed on one series applies to all series• Navigate All mode—Connect all series in a study by slice position so that navigation, and optionally window leveling and magnification, performed on one series applies to all series
	Reference lines Identifies the exact slice location of an image on orthogonal planes when at least two series are displayed. Note that the Reference lines functionality is a part of the Link Series tool.

	Active Target	Pinpoints a matching location of a single point in other series in a study.
	Cross-study Link	Manually connect coplanar series by table position from different studies so that navigation, and optionally window leveling and magnification, performed on one series applies to all series.


Linking series for navigation

In **Auto Link mode**, IMPAX automatically links all coplanar series by the table position of the patient. As a result, you can navigate the coplanar studies together, to get all the available image details about a particular region at one time.

In **Manual Link mode**, you select the series you want to link by table position. In this way, only the series you are interested in navigate together, which reduces the movement on the screen. This mode also allows for linking of non-volumetric series.

In **Navigate All mode**, to get a quick impression of the study, you can scroll through all of the series in a study at the same time by slice position, regardless of the orientation of the series.



Linking series automatically

1. From the Image area context or top toolbar, right-click **Link Series**. 
2. From the Link Preferences menu, select **Auto Link**.
3. To change the allowance for an off-axis series to be considered coplanar to the active series, select **Include series within**



and enter the maximum allowance, in degrees.

4. To have window leveling changes apply to all linked series, enable window leveling across linked series.
5. To have zooming and panning apply to all linked series, enable zooming and panning across linked studies.



Adjusting auto links for patient movement

1. From the Image area context or top toolbar, left-click **Link Series**. 
2. Left-click the image of the series that you want to adjust.
3. Navigate to the location in the series that corresponds to the current location of the other series in the study.
4. Left-click the image again to relink the series.
5. To make the change to linking, select the **Yes - link at this new position** checkbox.
6. To indicate that you have finished adjusting links, left-click **Link Series**. 



Adding a series with a different frame of reference to an auto link group

1. From the Image area context or top toolbar, left-click **Link Series**. 
2. Left-click the series that you want to add to the Auto Link group.
3. To indicate that you have finished modifying links and to return to regular navigation, left-click **Link Series**. 


Unlinking series from a link group

1. To activate Link Edit mode, left-click **Link Series**. 
2. Left-click the series to unlink.
3. To deactivate Link Edit mode and return to regular navigation, left-click **Link Series**. 

Linking series manually

1. From the Image area context or top toolbar, right-click Link Series. 
2. On the Link Preference menu, select the **Manual Link** checkbox.
3. Synchronize each series to be linked by scrolling through the images until they correspond to the same anatomical region.
4. To manually link series together, left-click **Link Series** and select the required series.
5. Note the text changes ("Active series for linking" for the highlighted series and "Click to unlink" for a linked series) and a link icon appears in the top-left corner that indicate the series has been linked.
6. To have window leveling changes apply to all linked series, enable window leveling across linked series.
7. To have zooming and panning apply to all linked series, enable zooming and panning across linked series.
8. To deactivate Link Edit mode and return to regular navigation, click **Link Series**. 

Navigating all series in a study


1. From the Image area context or top toolbar, right-click the **Link Series** button. 
2. From the menu, select **Navigate All (all series scroll together)**.

3. Navigate the series by scrolling the mouse wheel, which advances each series by image or slice number.

Reference lines

Reference lines show where the series the user is navigating intersects any orthogonal series that are on the screen. They display the physical location of one or more linked series on orthogonal series, allowing a radiologist to navigate to the appropriate anatomy and become oriented in 3D.

Setting preferences for reference lines

1. From the Image area top or context toolbar, right-click **Link Series**. 
2. To enable the reference lines, select the **Show Reference Lines** checkbox.
3. To display reference lines representing the first and last slice of the active series, select the **Include lines for first and last slices** checkbox.
4. To display reference lines from the linked series, select the **Include lines for linked series** checkbox.



Changing the intersection point for reference lines

1. On the orthogonal series, left-click and hold the square identifying the point of intersection for the series the user is navigating.
2. Drag the square along the solid reference line to the desired position.

Active Target mode

Active Target mode pinpoints a matching location of a single point in other series in a study.


Finding a matching location of a single point in other series

1. Select a screen format that displays more than one series at once.
2. Left-click **Active Target**. 
3. To activate the target in the other series, hold down the left mouse button on the area of interest.
4. To view reference lines of the active series, release the left mouse button.
5. To turn off Active Target, left-click the **Active Target** button again. 

Cross-study linking

When **Cross-study linking** is activated, you can compare coplanar series from two or more different studies. This is particularly helpful to determine how the condition of a patient has changed over time.

Linking series from different studies

1. If necessary, change the study view mode to display two or more studies.
2. Navigate to the studies to be linked.
3. Synchronize each series to be linked by scrolling through the images until they correspond to the same anatomical region.
4. Manually synchronize the series by scrolling through one series in each study until the images correspond to the same anatomical region.
5. From the Image area context or top toolbar, left-click **Cross-study Link**. 
6. To turn off the cross-study linking, left-click **Cross-study Link**.