Intelerad Medical Systems InSight Quick Reference Guide August 2024



# intelerad

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NB

This guide is intended as a basic introduction to Insight 9. More in-depth information is available via the online help manual, accessed via the help button:



### 1 Patient Explorer

	)	INSIGNIABRAIN, Brain (MR)		Bor	m 27-Aug-1928 (95y)	Gender Male		NHS No	Not Known	ID INSAD113	
Work	lists	📕 Patient 음직 Exam 🖻의 Saved ★ Curr	rent 🚨	Work	list Teaching - remote	Results: 21			Filter:	Patient ID	•
Filte	r: (			â	Patient ID INSIGNIA1367	Name INSIGNIA, Shirley	Status Available	Action None	Study Date / Time 18-May-2013 18:56	Date Of Birth 04-Oct-1970	Entry Description
Þ	20	Reporting			INXXU2EN1	INSIGNIA, Floria	Available	None	29-Apr-2015 16:37	19-Oct-1976	3 MRI tracking dynamic
-		Personal			INSIGNIA103	INSIGNIA, Prostate	Available	None	14-Mar-2019 12:20	23-May-1960	3a. MR - triangulate / CT Segmentat
		Personal Parked	0		INSIGNIA301	INSIGNIA, Tomo	Available	None	16-Aug-2016 09:04	01-Jan-1960	6. MG Tomo & MRI Breast with phas
		Recently Viewed (20)	20		INSDEMO18	INSIGNIA, Mammo	Available	None	06-Apr-2010 17:19	01-Feb-1945	6a. Mammo layout
-	4	Folders			INSIGNIA125	TEST, Mammo	Available	None	21-Apr-2012 16:49	15-Nov-1923	7. US for tape
		😹 test (1)	7		INSINS3	INSIGNIA, Heart	Available	None	04-Apr-2012 13:58	01-Jan-1945	8. XA CArdiac Angio
		Hanging Protocols (1)	2		INSIGNIA980	INSIGNIA, Pelvis Fusion CtA	Available	None	06-Apr-2018 15:50	04-May-1950	9. Merged set CT/MR
		Confluence Review (6)	7								9.0. CT & MR Cardiac
		Send to Terarecon (1)	3		INSIGNIA116	INSIGNIA, Shoulder	Available	None	20-Mar-2019 17:56	20-Mar-2019	9.2. Shoulder Glenoid version
		Case Review	2		INSAD111	INSIGNIA, Femur	Available	None	27-Jun-2010 14:46	05-Jun-1987	9.3 . Alpha Angle / Triangulation
		Teaching - remote (3)	21		INSIGNIA127	TEST, Thorax	Available	None	28-Apr-2008 15:06	17-May-1945	9.4 Bookmark
		CT weekend Reporting (3)	3		AICHANGE_TUMOR	AICHANGE_TUMOR,	Available	None	10-Jul-2013 11:10	01-Apr-1945	9.7 Fusion studies
		testing to show via PE (PACSADMIN)	0								9.9 - Mammo WFP
-	87	Teaching									9.91 Clipping
		Testing Confluence (13)	13								
		all Testing 1 (2)	7	Patie	nt History: INSAD113	Results: 3			Non-Dicom Filter:	Study Date / Time	•
-	1	Personal Dynamic			Status Non-Dicom	Study Date / Time 👻	No. Of Ima	ages	Performed Date / Time	Study Description	Performed I
		MI Already Reported (6)	9	1.50		/// 22.6m 2023.00.00/////	495////		22 Apr 2023 05 32 ////	//ctilin	CT Head
		MI Partial Reports (1)	1	6		21-Apr-2023.00:00	463		21-Apr-2023 00:48	CT Head	CT Head
		MI Published Reports (4)		X					22lun.2020 14:51	CT Head	CT Head
		MI Unreported (all actions) (2)									
		CR Reporting									
		MI Reportswith Addendums (3)									
		CT Reporting									
		Massigned to me (11)									
		Reports with Peer feedback (Target) (10)									
		Peports with Peer feedback (Sender) (7)		_							
		Reports with Peer feedback (10)		View	Relected Studies	Inload Document /	New Exam				nver
		Sill All Dowling Dublication			Cica						
									Document Server 🛛 🗹 Doc	ument import 🛛 🖌 InSight:	INWEB33PE MS: BLACKBOXIMS

#### Figure 1

From the highlighted tabs in (Figure 1), various levels of searches can be undertaken:

- Worklist shows various folders containing lists of patient/studies
- Patient At least one bold field must be used (Patient ID, Family name or Date of Birth) for the search to run
- Exam At least one bold field must be used (Booking Ref, Family Name, Date of Birth or Exam date) for the search to run.
- Note: You will notice a green tick appear when valid data has been entered into a search field. Exam Date (performed) - The "Exam Date" drop down allows for the quick selection of preselected time periods, including a "Custom" section for the inclusion of a specific date or range. A red exclamation mark is shown where there is invalid / unmatched data. To save the search settings simply click on the Save button. This will only be enabled once a valid search has been made.

From a resultant search, to select and view studies:

Patk	ent History:	FATT RESULS. 5							
모	Status	Study Date / Time	Study Description	P	erformed	Date / Time 🔹	Performed	Description	
0	<u>16</u>	22-Jan-2019 09 29:00	XR Cervical spine	22	Mar-2013	09.56.00	XR Cervical	spine	
Õ		Tick to inclu	de R Shoulder Lt					r Lit	
	💃 🍘	2	R Foot Lt	20	Feb 2010	21.11:04	XR Fool LI		
0	🗏 🗐							l.	
×	👪 🐑								
			Figure 104. The Par	tient Explorer history	panel.				
lick the	e studies rec	uired to view (indicated	in figure 104) followed by	r.					
a dou clicki	uble click on ing on the "\	the patient ite /iew Selected Studies" b	utton - figure 105	Eilte	n Dation	10			_
• a dou • clicki Patie	uble click on ing on the "\ ent Search:	the patient it: /iew Selected Studies" b Results: 1	utton - figure 105	Filter	r. Patien		•	Conder	
a dou clicki Patie	uble click on ing on the "\ ent Search: Patient II	the patient its /iew Selected Studies" b Results: <b>1</b> D NHS Numb	utton - figure 105 er Family name	Filter Given name	r. Patien	t ID Name	•	Gender	) 1
a dou clicki Patie	uble click on ing on the "\ ent Search: Patient II PAT4	the patient it View Selected Studies" b Results: 1 D NHS Numb	er Family name PATIENT4	Filter Given name ANONYMOUS	Title Mr	t ID Name PATIENT4, An	• Onyrnous	Gender	[ ( 02-5
a dou clicki Patie	uble click on ing on the "\ ent Search: Patient II PAT4	the patient its //iew Selected Studies" b Results: 1 D NHS Numb	er Family name PATIENT4	Filter Given name ANONYMOUS	r. Patien Title Mr	Name PATIENT4, An	• • •	Gender	f ( 02-5
a dou clicki Patie	uble click on ing on the "\ ent Search: Patient II PAT4 ent History:	the patient its iiew Selected Studies" b Results: 1 D NHS Numb PAT4 Results: 1	er Family name PATIENT4	Filter Given name ANONYMOUS Filter	r. Patien Title Mr r. Study	t ID Name PATIENT4, An Date / Time	• • • • • • • • • • • • • • • • • • •	Gender Male	ſ ( 02-5
a dou clicki Patie Patie	uble click on ing on the "\ ent Search: Patient II PAT4 ent History. I Status	the patient its //ew Selected Studies" b Results: 1 D NHS Numb PAT4 Results: 1 Study Date / Time	er Family name PATIENT4	Filte Given name ANONYMOUS Filte Performed Des	r. Patien Title Mr r. Study cription	t ID Name PATIENT4, An Date / Time Report Status	Modality	Gender Male No of Images	[ ( 02-5
Patie	uble click on ing on the "V ent Search: Patient II PAT4 ent History: Status	the patient it iiew Selected Studies" b Results: 1 D NHS Numb PAT4 Results: 1 Study Date / Time 31-Oct-2017 12:00:00	er Family name PATIENT4	Filte Given name ANONYMOUS Filte Performed Des XR Chest	r. Patien Title Mr r. Study cription	t ID Name PATIENT4, An Date / Time Report Status	Modality     CR	Gender Male No of Images 2	€ ( 02-\$
a dou     clicki     Patie     Patie     Q	uble click on ng on the "V ent Search: Patient II PAT4 ent History: Status	the patient its fiew Selected Studies" b Results: 1 D NHS Numb PAT4 Results: 1 Study Date / Time 31-Oct-2017 12:00 00 Clic	er Family name PATIENT4	Filter Given name ANONYMOUS Filter Performed Des XR Chest	r. Patien Mr r. Study cription	Name PATIENT4, An Date / Time Report Status (2) Reported	onymous     Modality     CR	Gender Male No of Images 2	€ ( 02-\$
a dou     clicki     Pathe     Pathe     Pathe     Q	uble click on ng on the "\ ent Search: Patient II PAT4 ent History. Status	the patient its fiew Selected Studies" b Results: 1 D NHS Numb PAT4 Results: 1 Study Date / Time 31-Oct-2017 12:00 00 Clicc	er Family name PATIENT4 Study Description XR Chest K to view	Filter Given name ANONYMOUS Filter Performed Des XR Chest	r. Patien Mr r. Study cription	Name PATIENT4, An Date / Time Report Status (2) Reported	onymous     Modality     CR	Gender Male No of Images 2	t ( 02-5

### 2 Display Panel

A thumbnail bar will be displayed on the viewer with a subset of images loaded to view:



When further display sets are required for viewing the user drags the thumbnail on display. However, depending on where the user releases the mouse button the image will replace that currently on display or load next to it. The position where the next display set can be displayed is indicated by a series of "drop zone" markers and a central spot. The users' choice is indicated by the blue overlay displayed when hovering over one of the arrow options. In this example the second image set will occupy the bottom half of the display area when the mouse button is released. Two sets of placement option arrows are available. Those on the display border (external placement options) act on the entire display, whilst those within a series (internal placement options) act on the series in question.

Once an image is loaded, the function menu/toolbar becomes available at the bottom of the screen (Figure 2):



It also shows to the left a mouse panel (when on show) that indicates the functions assigned to each mouse button (5 are supported). Selected or enabled functions are shown with a yellow background. Fig 3. Shows the quick menu, that

appears upon a single click of the mouse, which contains a subset of the main tool set, per modality.

The Patient History jacket, (Icon Figure 4), lists those examinations stored on PACS for the currently loaded patient

#### Fiaure 4

it is positioned on the left corner of the Status bar.

- Once on display the user can:
- •See all Examinations and relevant details (Status, Site, Booking reference, etc)
- •Review reports by clicking on the report icon
- •Load any additional examination by ticking the '+' adjacent to relevant item
- •Remove an examination from display by ticking the '-' adjacent to the entry
- •Order any of the columns by clicking on the relevant header
- Check the "Image Sharing Status" for the patient

Pabel	nt Mistory Jacket									_
Viev	v Status	Study Date/Time 🔻	Description	Modality	No of Images	Booking Reference	Report Status	Request	Institution	
	🎎 💆	12-Feb-2019 12:33:00 Performed 77	XR Hand Rt Performed: XR Hand Rt	CR		INSINS17	Booked		PACS	Ere
•		Click the "+" to add the study for	Cervical spine formed: XR Cervical spine			Accession1c	Reported 🔪		DefaultIMS	
•	16	09-J. display. Perform - Jan-2013 16.15.49	R Shoulder Lt Performed: XR Shoulder Lt			Accession2	Reported 🔪		DefaultIMS	-
	*!	Performed DT: 20-Feb-2010 21:11:57	XR Foot Lt Performed: XR Foot Lt	CR		Accession3	Unreported		DefaultIMS	
•	<u>***</u>	06-Oct-2009 17:37:00 Performed DT: 06-Oct-2009 17:39:31	XR Elbow Rt Performed: XR Elbow Rt			Accession4	Unreported 🚴		DefaultIMS	
≺∎	_									
1	Discover								Close	

#### **Stack Navigation** 3

Traditional stack navigation is by holding down the left mouse button and dragging down/up within the display port.





Multi-planar series from the same examinations (both CT or MR for example) maybe viewed with various Cross Refer

Cross Sectional Examinations sent to PACS that contain volumetric data, may be viewed in 3D with InSight (MPR Mode). When in MPR mode, additional tools (icons) are presented to the user on the Series title bar that can be

used to alter the layout of the 3D view port reset the image orientation and to link to other series on

Additional tools / icons are visible within the view port to alter the slice thickness, display display

Maximum Intensity Projection (MIP) by clicking on the mm displayed and Volume Rendered (VR) projections.

• 🔍 16.5m

The same basic functionality is available in the 3D mode as the 2D mode: windowing (including pre-set values), Right click menus, zoom etc. Each 3D view port is bounded by a colour (red, blue and yellow), indicated in the other view ports as a cross reference line of that colour; these are made visible on mouse over and otherwise remain as Cross Reference stub lines displayed on the margins of each image display port.

### 4 CT and MR Cross Referencing and Triangulation.

Where multi-planar series are loaded for view, Cross Reference Lines can be shown on image sets that are from the same examination and are of a different plane to one another. A cross reference line depicts the intersection of two image planes and is displayed on all related non-focal images as a solid line. To enable Cross Reference lines, right click on the image and select **Show Cross Reference Lines** (after ensuring that **Annotations** are enabled). Alternately click on the Skull>Display Options>Show Cross Reference Lines.

Two types of line are used:

- · Solid depicts the intersection of an in-focus image plane (Green Colour; white on grey scale displays)
- Dashed depicts the intersection of other (non-focal) image planes (Blue colour; grey on grey scale displays).

The Cross Reference line (figure 5) will be updated in real time to give an indication of the current image plane relative to other image sets.



Figure 5.

Linked to MR Cross referencing is 3D localisation.

### **5 3D Localisation and Triangulation.**

These functions are enabled when viewing MR and CT images that have multiple planes.

To use the **Localisation function**, hold down the **SHIFT** key and left click on the image. All other related image sets will navigate to the nearest image plane to that point. If Cross Reference Lines are displayed the image planes will be made obvious. Note that occasionally the nearest image may be the first or last in a series which may not coincide to the point clicked on the in-focus image. When changing focus from one display set to another the first click will only gain focus. Subsequent **SHIFT + clicks** will perform 3D Localisation on other display sets.

The **Triangulation function** (figure 6) is invoked by holding down the SHIFT key and left clicking anywhere on an image. All other referenced image sets on display will show a cross hair that indicates the point clicked on. The cross hair seen is green (with a circle outer) if the point clicked on in the reference image is on or near the plane of the referenced images or Red (no circle outer) if the plane is more distant to the reference image.



Figure 6.

### 6 2D Registration - Shift + Left Click

Insight will now co-register between studies allowing use of the Shift + left mouse click function. This will now navigate to the nearest cross-referenced slice between studies and displays a target icon.

Indicators will be displayed on the thumbnails and at the top left of the banner bar to signify that the coregistration has been completed.





The registration will work between, 2D - 2D, 2D - 3D/MPR and 3D/MPR - 3D/MPR.

### 7 Multi-phase navigation

Multi-phase (4D) series can be reviewed as temporal (time) biased series or phased biased series. Each mode presents the sequences differently and alters how windowing is applied as follows:



#### Time biased mode

• Time phase cine scroll tool displayed on the bottom of the display port - fig 7



#### Figure 7

Single anatomical sweep available for normal scrolling

 $\circ$ Anatomical scrolling = vertical mouse movement scrolls from image 1 to n  $\circ$ Time phase scrolling = horizontal mouse movement scrolls from phase 1 to m

#### • Windowing applied to all phases



#### Phased biased mode

· All anatomical sweeps and phases available for scrolling

• Vertical scrolling = anatomical slices 1 to n, time phase 1 followed by anatomical slices 1 to n, time phase 2 and so on for all time phases

- Time phased scrolling = horizontal mouse movement scrolls from phase 1 to m
- Time phase cine scroll tool displayed on the bottom of the display port figure 8



#### Figure 8

• Windowing applied to individual phases

The user can set the default display method in the User Config>General>Modalities section and alter this on a case by case basis using a keyboard shortcut, from the quick toolbar or from the Display Options function panel.

InSight automatically groups Multiphase series (4D) together to make their review of images more efficient; denoted by the letter " $\mathbf{T}$ " in the thumbnail. Such image sets can be automatically linked for stack navigation and zoom-figure 9



#### Figure 9 (green T).

Navigation through them can either be time (temporally) or anatomically (spatially) based as follows:

• 2D Stack mode - up and down mouse movement navigates anatomically along the normal plane for:

- a single phase when in "Time" biased mode
- all phases when in "Phase" biased mode

• MPR mode fly though - up and down mouse movement navigates anatomically along the normal plane of the image set. Left and right mouse movement navigates temporally at the given anatomical position

• 2D Cine / 3D MPR cine - anatomical cine is performed using the normal cine controls. Temporal cine is performed using the temporal cine controller at the bottom of the image, seen here in figure 10



#### Figure 10

This will allow for temporal stack navigation; the normal stack control bar (usually on the right of the image port) will remain for anatomical navigation, where there are 2 or more anatomical slices.

The number of phases on display is initially determined by the modality setting which is either "Time" or "Phase" biased.

- Time biased a single image port
- Phase biased offers the following:
- O Automatic layout for 1 or more than 4 phases a 1 x 1 grid layout is used
- Automatic layout for 2 phases a 2 x 1 grid layout is used
- $\,\circ\,\,$  Automatic layout for 3 or 4 phases a 2 x 2 grid layout is used

These settings can be over-ridden by a workflow protocol or manually using the grid layout tool. The series title bar has a Grid layout tool that allows various sized phase grids to be selected - figure 11.



#### Figure 11.

Should an MPR view be used the 3D grid layout can be altered using the 3D grid layout icon - figure 12.



#### Figure 12.

A typical multi-phase view is shown below. Each series port has a tab that when selected displays a list of all available phases - figure 13.



#### Figure 13.

To select a different phase to display click on the "Phases" tab located in the top left of the image port. A list of all available phases will be shown together with a series thumbnail for ease of selection.

### 8 Quick Volume



This tool allows you to create estimated volumes using 3 dimensions (LxWxD x volumetric factor). There are 3 types of measurement that can be used to calculate the estimated volume are ellipse, cylinder and bullet depending on the structure being evaluated.

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### 9 MPR Slice/Slab thickness bar



Users now click on the current thickness indicator to reveal the slider.

### **10** Keyboard shortcut to switch between MPR views

To quickly navigate between the projections: Axial, Coronal and Sagittal assign a keyboard shortcut to each of the projections. For example:

- A switch to the axial (transverse) slices (MPR Axial)
- C switch to the coronal slices (MPR Coronal)
- S switch to the sagittal slices (MPR Sagittal)

Select the active display port by clicking in it and press the required shortcut key. The active display port will be updated with the chosen projection and the previous projection will be displayed in the substituted display port.

**Note**: To allocate the keyboard shortcuts A, C, and S (for example) to these functions create a new Mouse Mode "Preset Group - 3D CT" or if assigning to the Default set, ensure that the key has not been assigned to any other function. If so, they must be de-allocated from these before they can be assigned to the new function.

Other shortcuts can be assigned to:

- o MPR 3D Volume Rendered projection
- MPR Maximum Intensity volume projection.

### **11 Copy Functions**

Shortcuts can now be made that copies patient information to the clipboard as seen in the figure below:

- INSIGHT-1673 The NHS number.
- INSIGHT-1703 The Patient Primary ID.
- The report text.



The NHS number and Primary ID can also be copied from the image banner bar with a single click

NHS No Not Known	
Copy to Clipboard Single click to copy number	Single click to copy number
	69 · <mark>0 F</mark> F

### 12 Keyboard shortcut for starting cine

A keyboard shortcut can now be used to start and stop cine motion and temporal cine motion. These are set in the User Configuration Shortcuts section. For example, "Spacebar" as seen in **Error! Reference source not found.** 



### **13 CT Presets**

These normally are accessed via keyboard shortcuts, numbers 1-6 or by using the icon in the centre of the function menu/toolbar.



### **14** Shortcuts

Various default shortcut keys are available to enhance the usability of the Viewer software. Most are applied to the Left mouse button. The most commonly used shortcut keys are given below:

Key	Current Use	Key	Current Use	
F1	Help	F2	Patient Explorer	
F3	Previous Patient	F4	Next Patient	
F5	Previous Workflow step	F6	Next Workflow step	
F7	Re-apply current workflow step	F8	Lifecycle action - QA/Report (Save Changes)	
F9	Lifecycle (Discard Changes)	F10	Clear Patient from Display	
F11	Re-apply Structured display	F12	Currently unused	
CTRL + A	Cobb's Angle	CTRL + B	Zoom mode	
CTRL + D	Pan mode	CTRL + E	Area windowing	
CTRL + F	Cine mode	CTRL + G	Magnify mode	
CTRL + H	Horizontal flip	CTRL + I	Invert greyscale	
CTRL + J	Add tape	CTRL + L	Lateral flip	
CTRL + M	Measure mode	CTRL + N	Add Annotation	
CTRL + O	Show / hide demographics	CTRL + Q	Delete Annotation	
CTRL + R	Region Of Interest	CTRL + S	Smart Stack mode	
CTRL + T	Calibrate	CTRL + V	Stack mode	
CTRL + W	Window mode	CTRL + Z	Reset Windowing	
CTRL + \	Tabar Masking on / off	CTRL + U	Hot Spot	
	La contra de la co	CTRL + P	Spine Labelling	
U	Temporarily Un-link display sets			
CTRL+1,2	Apply Workflow protocol step	0-9	Apply window pre-set	
Spacebar	Quick Toolbar			
- (minus)	Reduce grid layout	+ (plus)	Increase grid layout	
<	Load Previous Series	>	Load Next Series	
Arrow Up,	Back one image in Series	Arrow Down	Forward one image in series	

Patient Explorer	
Key	Current Use
Tab	Normal tab operation
Enter/Return	Perform Search / View images
Space	Select / Unselect history items

### **15 Function Menu / Tool Bar Overview**

#### **15.1 General Functions**

	Access Patient Explorer Options / Worklist Settings		Show Current Patient on Display
Worklists	Access PACS Worklists	Exam 🗗 🍳	Exam Level Search
Patient <u>A</u> Q	Patient Level Search	Saved ★	Show Saved Searches

#### **15.2 Study Status / Study Location Icons**

<b>V</b> C	Auto Registered Study	Study is currently downloading to workstation
	Study is located on Workstation	Images are on a foreign system and they are local to that system.
	Study is located on Departmental Server	Images are on a foreign system and they are not local to that system.

#### **15.3 Study Sharing Icons**

Image sharing is up to date	Image sharing has failed for this patient
Image sharing update is in progress	Image sharing is not available for the user (permissions)
Image sharing information not available (press the refresh button to update the information)	Image sharing not available for the patient (possibly no NHS number)

#### **15.4 Push Referral Icons**

#### **15.5 General Functions**

Open the Patient Explorer Window



Park the current study

	Patient History Jacket	<del>999999</del>	Show Notes Panel
	Previous Patient / Next Patient in PACS Worklist/Folder		Show Report
	Save into a Folder	SDs	Show Structured Displays
	Access User Actions		Display Set Linking
	Add Bookmark		Switch to 3D orientation / Switch to 2D orientation
PREVIOUS NEXT	Previous / Next Workflow Step		Change grid size
	Switch Display Set		Show / Hide cine controls
5	Undo all changes to Image Presentation		Reset Mouse buttons to Modality Default

### **15.6 Standard Image Manipulation Tools**

	Pan		Measure
<b>K</b> X	Zoom / Magnify	<b>D</b>	Cobb Angle
	Window Level / Spot Window		Quick Volume Measure
	Stack Navigate / Smart Stack	RA	Arrow / Text annotation
( AND )	Freehand Rotate	M	Invert Image
	Ellipse, Rectangular, Polygon ROI		Min/Max Measurement
	Cardiothoracic Ratio		Multi Phase / Time Phase Mode

#### 15.7 3D/MPR Functions (tools available in 3D Mode)

	Clipping		Measure
K X	Zoom	θ	Cobb Angle
	Window Level		Quick Volume Measure
	Flythrough		Hot Spot
( AN	Freehand Rotate	Ŕ	Spine Label

#### **15.8 MSK/Orthopaedic Specific Measurements**

Hip Dysplasia	$\checkmark$	Perpendicular Line Angle
Parallel Line Measure	$\mathbf{x}$	Alpha Angle

#### **15.9 Mammography Functions**

Align the centroid of grouped images	1:1 mm 1:1 px	Show the Image Real Size / Show the Image Full Size
Fit to Screen / Fit to Anatomy		Quadrant/Sextant View
Show Previous / Next matching display set within the Patient history		Show Previous / Next matching display set within the current study