

Release Notes for

rRIS 1.0



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1. Purpose

This document developed as an overview of the work lists, data windows, features and user preferences available in rRIS.

2. Intended Audience

This document has unrestricted internal use and is intended for all users.

3. Work lists

The rRIS application has many work lists available for the multiple rolls within a Diagnostic Medical Imaging center. Below is a brief description of the work lists under the Administration menu. The columns available in work lists may be difficult to display. Because of this, some of the data in the screenshots may not be visible as I try to capture all columns for display in this document.

3.1 Application Work Lists

The application has work lists that can be of a daily view, patient view, or a view that contains all records that need to processed for a particular role. The columns may be sorted, filtered and arranged to the user's preference. Columns can be sorted by selecting the column header. Columns may be filtered by entering text in the columns filter header. Also the filtering criteria may be specified by selecting the Icon located at the top of each column in the filter row.

In Figure 3.1.1 below, selecting the Icon outlined in Red will open the Work list Views window. The user can sort, filter, arrange and / or hide the columns as they choose, then select this Icon, create a unique name and save the view. The view can be saved for the user only, or for the user group they belong to. The next time this work list is accessed, simply select the view to the right of the Work list Views Icon. The current selected view will be highlighted in blue.

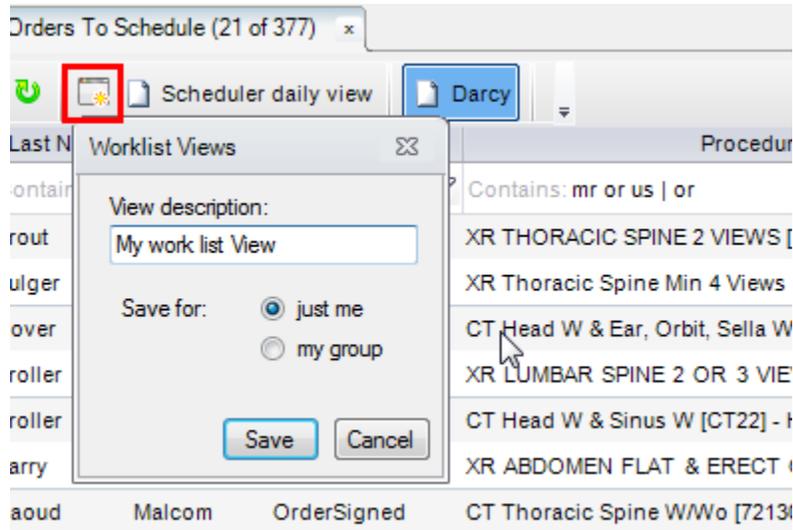


Figure 3.1.1 – Creating Custom views

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The screenshot displays the rRIS application interface. At the top, the title bar reads "rRIS (QE Current as schedadmin)". Below it is a menu bar with options: File, Administration, Scheduling, Front Desk, Radiologist, PACS, Help. A toolbar contains icons for "Orders To Schedule (386)", "Scheduler daily view", and "Auto Refresh".

The main area is a table with the following columns: Last Name, First Name, Status, Procedures, Order Date, Referring, MRN, Filler Order Number, Primary Phone Number, City, Carrier, PreCert Requir..., Patient Type. The table contains multiple rows of patient data, including names like Yeesh Yolanda, Fish Frankie, and others.

Red annotations highlight specific features:

- "Tab name and row count" points to the "Orders To Schedule (386)" button.
- "Icon to create a custom view" points to the "Scheduler daily view" icon.
- "Saved custom view" points to a small icon next to the view name.
- "Select column header to sort" points to the "Order Date" column header.
- "Enter filter criteria here. Icon to open filter options" points to the "Filler Order Number" column header.

At the bottom of the window, there are buttons for "Schedule" and "Edit Order", and a status bar showing "Saved: Edit Order (Yolanda Yeesh)" and "386 Rows".

Figure 3.1.1 – Work list features.

Additional filtering options are to filter a column within a work list by entering multiple search criteria. The separator “or” (case insensitive) or “|” (pipe) will separate multiple search criteria and apply a “contains”. Note the search string “ ” (single quotes) will match empty entries or null. This can also be applied to the “does not contain” filter if specified in the filtering list of options. This is achieved by selecting the filter ICON on the column header and selecting the “does not contain” option.

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Last Name	First Name	Status	Procedures	Order Date	Referring	MRN	Filler Order Number	Primary Phone Number	City	Carrier
Trout	Brooke	OrderSigned	XR THORACIC SPINE 2 VIEWS [72070] - Lumbar spine	10-26-2011 2:22 PM	Darcy Noye	10103	1009826			
Bulger	Eunice	OrderSigned	XR Thoracic Spine Min 4 Views [72074] - Lumbar spine	10-26-2011 11:26 AM	Darcy Noye	10360	1009825			ADKINS, FREDERICK W
Dover	Ben	OrderSigned	CT Head W & Ear, Orbit, Sella W [CT33] - Head	10-20-2011 1:22 PM	Troy Muttery	10349	1009824	(902) 458-7455	Fifteen	KADISH & KADISH
Xroller	Xena	OrderSigned	XR LUMBAR SPINE 2 OR 3 VIEWS [72100] - Lumbar s...	10-19-2011 12:48 PM	Darcy Noye	10007	1009770			JOHN W. CONRAD
Xroller	Xena	OrderSigned	CT Head W & Sinus W [CT22] - Head	08-02-2011 2:34 PM	Darcy Noye	10007	1009604			
Barry	Mary7	OrderSigned	XR ABDOMEN FLAT & ERECT OR DECUB [74020] - A...	05-25-2011 10:09 AM	WILLIAM...	4378	1009359		Montgomery	
Daoud	Malcom	OrderSigned	CT Thoracic Spine W/Wo [72130]	05-06-2011 1:04 PM	YELENA L...	9568	1009138			RIVERVIEW CARE CENT
Dorrance	Jenae	OrderSigned	MA xDigi Mam Scr Bil, Diag Bil & US Brst [MA10]	05-06-2011 12:05 AM	YAO-YAO...	9549	1009130			PA - STATE WORKERS' I
Stoeckert	Wanda	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-06-2011 12:03 AM	WILLIAM...	9511	1009092			ALLRAD DIRECT COMP
Kerrick	Tennille	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-06-2011 12:03 AM	WILLIAM...	9483	1009064			NATIONWIDE HEALTH
Mackimmie	Karry	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 9:22 PM	WILLIAM...	9173	1008754			YORK RISK SERVILA GR
Wolfgang	Florencia	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 9:20 PM	WILLIAM...	9094	1008675			CIGNAMEDSOLUTIONS
Callejo	Margit	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 8:14 PM	WILLIAM...	8824	1008405			ADVANTRA GOLD PPO
Kopke	Francesca	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 8:13 PM	WILLIAM...	8804	1008385			USAA AUTO
Kochevar	Penny	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 8:11 PM	WILLIAM...	8734	1008315			USAA AUTO
Kreiman	Nichol	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 7:22 PM	WILLIAM...	8440	1008021			NATIONWIDE AUTO
Gholston	Ezekiel	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 6:18 PM	WILLIAM...	7778	1007359			SLOANE FISH
Swantek	Merlin	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 5:05 PM	WILLIAM...	6759	1006342			JEWISH CONVALESCEN
Morel	Meryl	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 5:03 PM	WILLIAM...	6695	1006278			CCMSI MIDLAND, LLC
Wilaker	Merle	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 4:32 PM	WILLIAM...	6128	1005712			BANNER MASONRY COF
Marini	Edna	OrderSigned	PT/CT Sodium Fluoride PET Bone Scan [PT4]	05-05-2011 4:31 PM	WILLIAM...	6094	1005678			CIGNAMEDSOLUTIONS

Figure 3.1.2 – Column filtering on multiple criteria

A right mouse click on a column header gives the user a context menu. The options include to Clear the filter of the column selected, clearing all filters applied to work list, conditional formatting, column chooser which allows the user to select from a defined list which columns they would to view on the work list. Hiding a column will add the column to the list window that is open when selecting Column Scan chooser. Pinned state allows the user to have the column displayed to the left, right or removing the pinned options. Lastly an option to export the work lists contents to an .xml file.

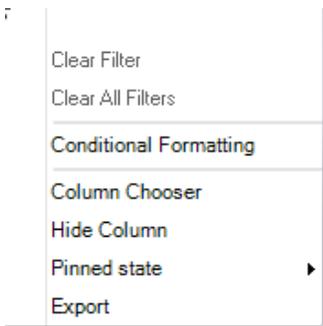


Figure 3.1.3 – Context menu from column header

3.2 Billing Exception work list

The billing exception work list contains all studies requiring action due to incorrect billing details. Only a single action can be completed from this work list which is Edit Billing. Selecting the Edit Billing button opens the data window. The user is able to correct any inaccuracies in the billing details as required.

Flags	Status	Procedures	Scheduled Date	First Name	Last Name	MRN	Birth Date	Billing Status Code	Age At Study	Room
	Signed1	XR CERVICAL SP 2 OR 3 VIEWS [72040] - Ankle joint	05-12-2011 3:05 PM	Tammi	Hartwigen	7594	07-22-1953	Failed	58 years	XR1LU
	Signed1	CT Abdomen W & CTA Chest W/Wo [CT66] - Abdomen	07-19-2011 1:45 PM	Heavy	Load	9990	06-15-1954	Failed	57 years	CT1LU
Dictated		CT Abdomen W & Pelvis W [CT9] - Abdomen	08-11-2011 8:15 AM	Xena	Xroller	10007	07-22-1956	Failed	55 years	CT1FH
	Signed1	NM Testicular W Flow [78761] - Pelvis	08-29-2011 12:00 AM	Sally	Norton	296	07-28-1985	Failed	26 years	OutsideRead_NM
	Signed1	CT Abdomen W & Pelvis W & CTA Chest W/Wo [CT54] - Abdomen	09-15-2011 7:45 AM	DGI	Test	10247	08-31-1988	Failed	23 years	CT1LU
	Signed1	XR HEEL MIN 2 VIEWS [73650] - Ankle joint/Right	10-19-2011 7:00 PM	Garret	Bundigger	10347	06-16-1964	Failed	47 years	XR1EL
	Signed1	CT Ear Orbit Sella W [70481] - Head/Left	10-28-2011 12:00 AM	orbit	orbit	10413	10-03-2011	Failed	0 months	OutsideRead_CT
	Signed1	XR RIBS 3 VIEWS, BILAT [71110] - Chest/Bilateral	10-28-2011 11:35 AM	Elmer	Pudd	10383	12-28-1940	Failed	71 years	XR1FH
	Signed1	XR Hand 2 Views & Wrist 2 Views, Bilat [RD35] - Hand/Bilateral	10-28-2011 2:20 PM	Elmer	Pudd	10383	12-28-1940	Failed	71 years	XR1LU
	Signed1	XR Sinus Fistula Tract [76080] - Head	10-29-2011 7:54 PM	Brody	Buddy	10431	10-26-2011	Failed	0 months	XR1EL
	Signed1	CT Chest W [71260] - Abdomen	02-08-2012 8:45 AM	Sally	Norton	296	07-28-1985	Failed	26 years	CT1FH

Figure 3.2.1 – Billing Exception work list

3.3 Patient Merge work list

Some application users may only have the option to suggest a merge and not have the ability to complete the merge process. Suggestions are placed in the Patient Merge work list for a user who has the ability “Merge” and take action on the request. The patient merge suggestion can be completed or rejected. Each of these actions will remove the record from this work list.

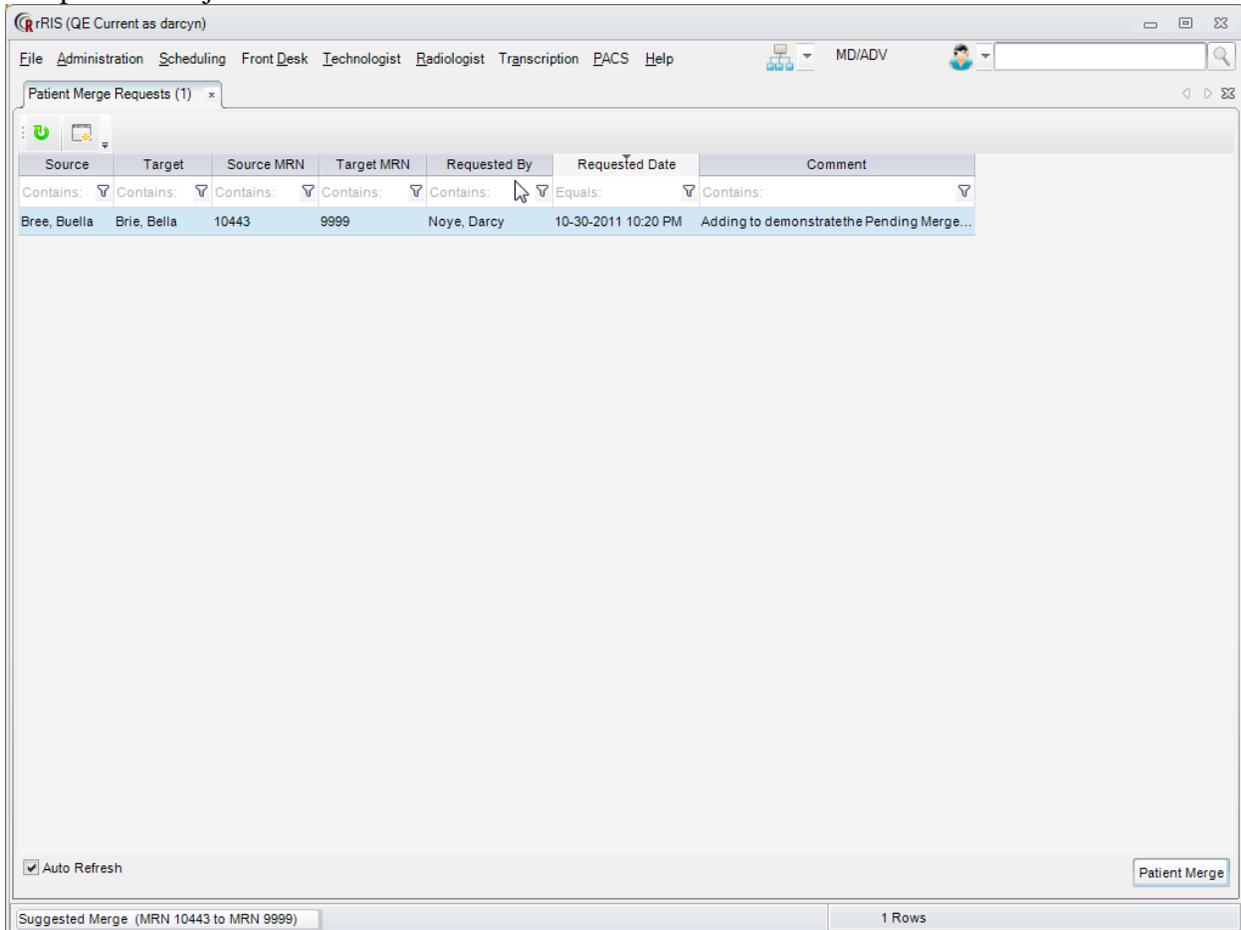


Figure 3.3.1 – Patient Merge work list

3.3.1 Patient Merge

The patient merge feature in rRIS allows users who have access to complete a “Merge” the ability to search for the Source Patient (to be merged) as well as search for the Target Patient (merging to). Once the patient search has been completed the Clinical Data section will display

the patient’s history. Selecting the Folder Icon will open the patient’s folder so the user may complete a more thorough investigation before the merge is completed. Users who don’t have access to complete a patient merge should be given the rights to “Suggest” a merge. Suggested merges are added to the Patient Merge work list for an admin type user to action the suggestion. The suggested merge can either be completed or rejected.

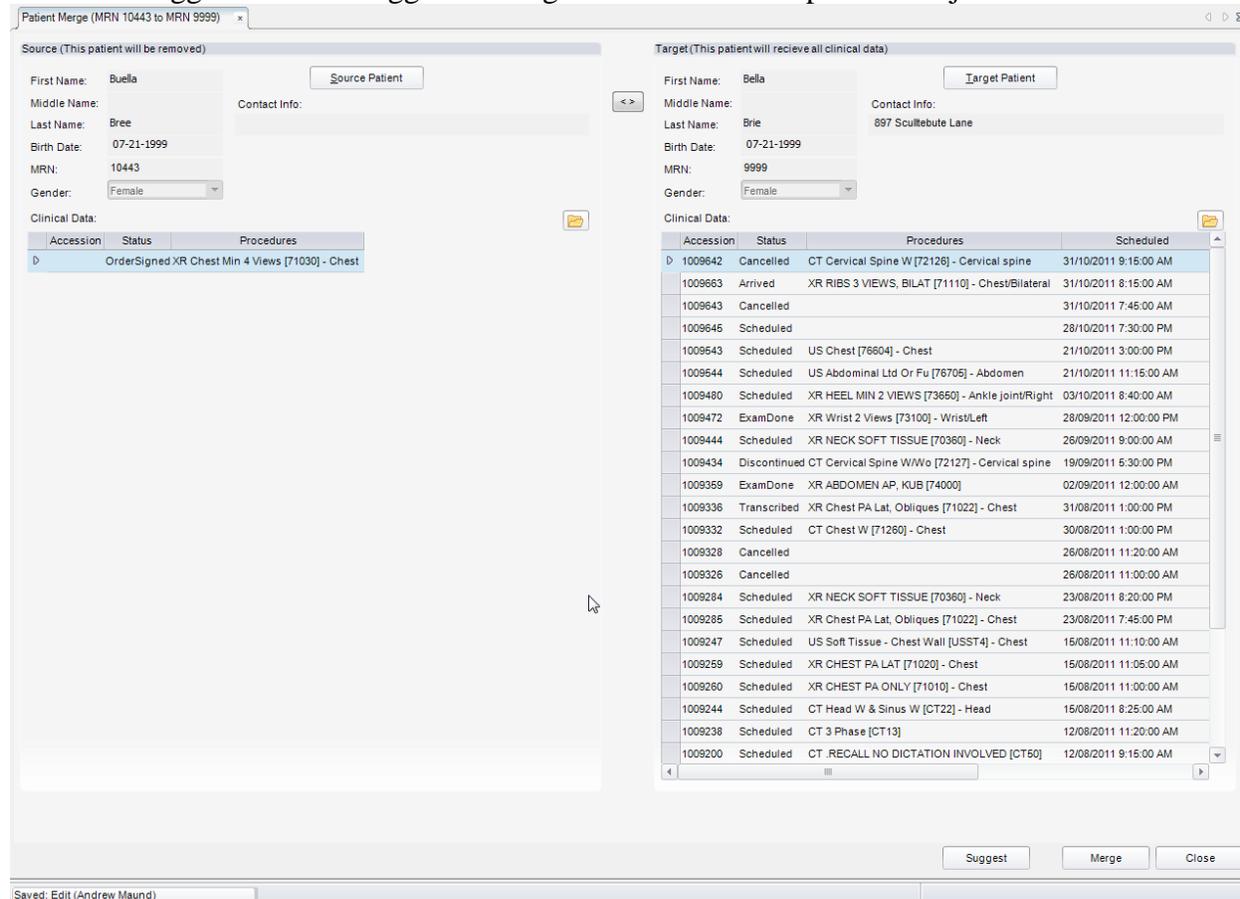


Figure 3.3.1.1 – Patient Merge data window

If the user suggests a patient merge a dialogue box will be displayed for the user to enter notes for the suggestion. The notes are captured in the comment column of the Patient Merge work list and will also display as a note at the bottom of the Patient Merge window once action is taken to complete or reject the merge.

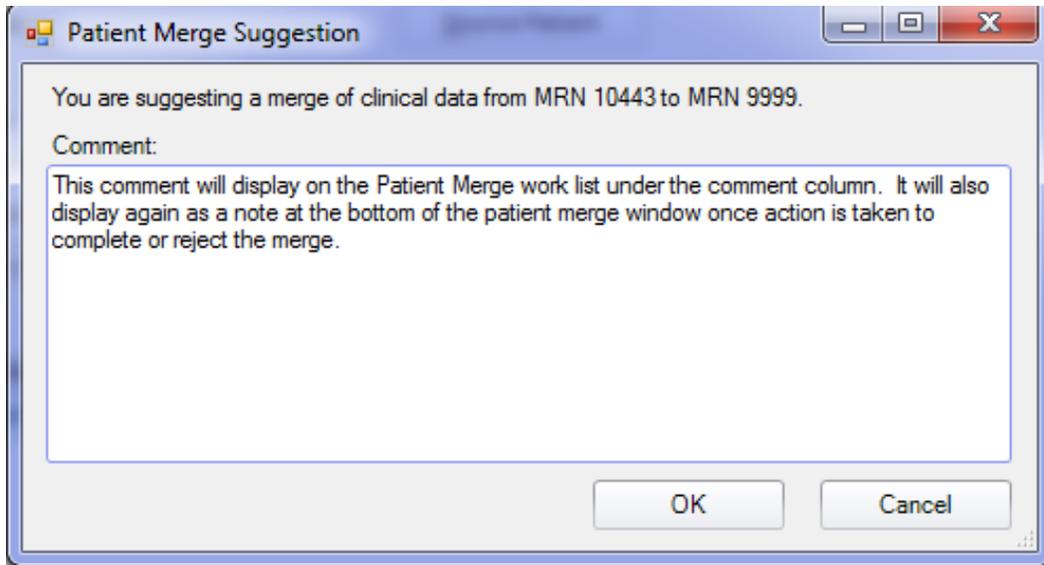


Figure 3.3.1.2 – Patient Merge Suggestion

Once the suggestion has been submitted it now appears on the Patient Merge work list. The admin type user who administers this task will open the suggestion in the Patient Merge window again. They will action the suggestion by completing the merge if they determine the suggestion to be accurate, or they will reject it. Both actions remove it from the Patient Merge work list.

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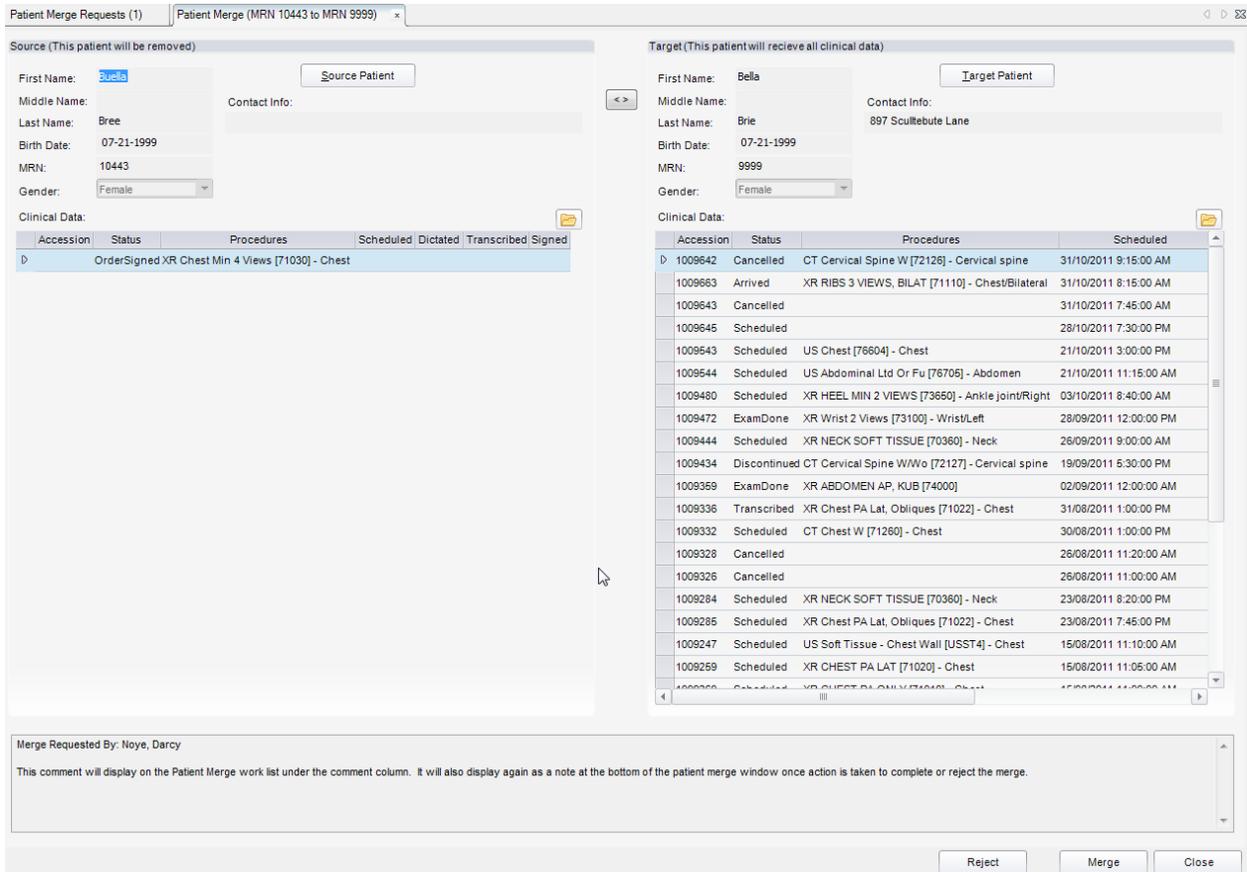


Figure 3.3.1.3 – Admin user to complete action on Patient Merge suggestion.

Selecting Reject, the user is returned to the Patient Merge Requests work list. Selecting Merge will display a confirmatory message.

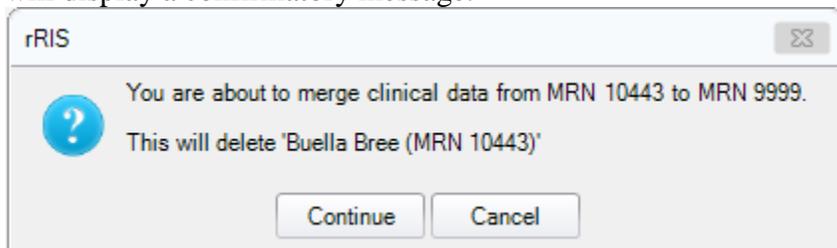


Figure 3.3.1.4 – Merge action confirmatory message

3.4 Unknown Referring work list

Orders created or scheduled with an Unknown Referring Physician will be placed in the work list. The order itself is not impeded from workflow. A user with proper rights can action the orders in this work list. Button action is edit order only. Context menu options are edit order, audit history and copy cell.

Status	Order Date	Referring	First Name	Last Name	MRN
OrderSigned	08-15-2011 9:15 AM	Harvey Wallbanger	Clare	Cone	10000
OrderSigned	09-26-2011 8:52 AM	Harvey Wallbanger	Clare	Cone	10000
OrderSigned	10-28-2011 2:11 PM	Luca Harding	Sally	Norton	296
OrderSigned	10-28-2011 2:15 PM	Grace Harding	Sally	Norton	296
OrderSigned	10-28-2011 2:17 PM	Samual Harding	Sally	Norton	296
OrderSigned	10-28-2011 2:19 PM	Kathy Simpson	Sally	Norton	296
OrderSigned	10-28-2011 2:33 PM	Grace Harding	Sally	Norton	296
OrderSigned	10-28-2011 2:37 PM	Grace Harding	Sally	Norton	296
OrderSigned	10-28-2011 2:42 PM	Grace Harding	Patient	Hardin	10404
OrderSigned	10-28-2011 2:53 PM	Grace Harding	Sally	Norton	296
OrderSigned	10-28-2011 4:55 PM	Grace Harding	Sally	Norton	296
OrderSigned	10-28-2011 4:56 PM	Grace Harding	Sally	Norton	296
OrderSigned	10-29-2011 7:24 PM	Mark Titus	Elmer	Pudd	10383

Figure 3.4.1 – Unknown Referring work list

3.5 IVT work list

Orders that require insurance verification are added to this work list. Button actions are insurance verification (IVT) and Schedule. The context menu also contains IVT and Schedule as well as Audit History and Copy Cell.

Status	Procedures	Order#/Date	Scheduled Date	First Name	Last Name	PreCert Required	Insurance Verification Status	Carrier	Modality Type	MRN	Site Code	Practice Code
Scheduled	PT/CT Myocardial Multi Study [78492]	05-05-2011 3.4...	10-31-2011 7:45 AM	Meri	Dzuro	Required	Required	LIBERTY MU...	PT	10424	FH	ADV
Scheduled	PT/CT Myo Imag Perf Study [78459]	05-05-2011 4.1...	10-29-2011 8:00 AM	Caridad	Rougeau	Required	Required	MARRIOTT C...	PT	10430	EL	ADV
Dictated	CT Cervical Spine Wo & Lumbar Spin...	09-20-2011 11:...	09-28-2011 5:00 PM	Xena	Xroller		Required		CT	10007	EL	ADV
ExamDone	DX Appendicular Skeleton [77081]	10-05-2011 2.4...	10-05-2011 2:45 PM	Clare	Cone		Required	MEDICAL CL...	BD	10000	EL	ADV
ExamDone	DX Appendicular Skeleton [77081]	10-13-2011 7.5...	10-13-2011 9:15 AM	Zelda	Zoom	N	Required	JOHN AXAL	BD	10005	EL	ADV
OrderSigned	CT Head W & Ear, Orbit, Sella W [CT...	10-20-2011 1.2...		Ben	Dover	Required	Approved	KADISH & KA...		10349		ADV
Arrived	US Chest [76604] - Chest	10-21-2011 10:...	10-21-2011 1:00 PM	William	Bonnie		Required	PENN NATIO...	US	10351	EL	ADV
Scheduled	US Chest [76604] - Chest	10-21-2011 10:...	10-28-2011 1:45 PM	Edna	Edward		Required		US	10099	EL	ADV
OrderSigned	CT Abdomen W & Pelvis W & CTA C...	10-26-2011 11:...		Yolanda	Yeesh	Required	Approved	CHASE CHA...		10006		ADV
Dictated	CT Abdomen W & Pelvis W [CT9] - A...	10-26-2011 11:...	10-26-2011 1:00 PM	Yolanda	Yeesh		Required	CHASE CHA...	CT	10006	EL	ADV
Arrived	CT Abdomen W & Pelvis W [CT9] - A...	10-26-2011 8.5...	10-27-2011 7:45 AM	Claude	Pepper	Required	Required	GOLDSTEIN...	CT	10368	FH	ADV
Scheduled	CT Abdomen W & CTA Chest W/Wo [...]	10-26-2011 9.0...	10-28-2011 2:30 PM	Brooke	Trout	Required	Required	SHARON DU...	CT	10103	FH	ADV
Scheduled	CT Soft Tissue Neck W & Chest W [C...	10-26-2011 9.0...	10-27-2011 7:50 AM	Barney	Hubble		Required		CT	10369	EL	ADV
Scheduled	FL Arthrogram Ankle Fluoro [73615] - ...	10-27-2011 9.5...	10-27-2011 2:00 PM	Yolanda	Yeesh		Required		XR	10006	EL	ADV
Scheduled	FL Arthrogram Ankle Fluoro [73615] - ...	10-27-2011 9.5...	10-27-2011 3:30 PM	Yolanda	Yeesh		Required		MR	10006	EL	ADV
Scheduled	CT Chest W & Abdomen W [CT4] - C...	10-28-2011 10:...	10-29-2011 8:15 AM	Adella	Doverspike		Required		CT	8479	EL	ADV
Scheduled	US Chest [76604] - Chest	10-28-2011 10:...	10-29-2011 8:45 AM	Adella	Doverspike		Required		US	8479	EL	ADV
Signed1	CT Chest W [71260] - Abdomen	10-28-2011 11:...	02-08-2012 8:45 AM	Sally	Norton		Required		CT	296	FH	ADV
Dictated	CT Abdomen W & Pelvis W & CTA C...	10-28-2011 11:...	10-28-2011 1:00 PM	Elmer	Pudd		Required	ROSOFSKY...	CT	10383	FH	ADV
Scheduled	CT 3 Phase [CT13]	10-28-2011 11:...	11-01-2011 1:30 PM	Bobbi968	Poole		Required		CT	2434	LU	ADV
OrderSigned	CT Abdomen Wo & Pelvis Wo [CT8] - ...	10-28-2011 1.4...		Sally	Norton		Required			296		ADV
OrderSigned	CT Abdomen W & CTA Chest W/Wo [...]	10-28-2011 2.1...		Sally	Norton		Required			296		ADV
Scheduled	CT 3 Phase [CT13]	10-28-2011 2.3...	10-29-2011 8:30 AM	Terry	Mills		Required		CT	10403	FH	ADV
OrderSigned	CT Abdomen W/Wo & Pelvis W/Wo [...]	10-28-2011 2.3...		Sally	Norton		Required			296		ADV
ExamDone	CT Abdomen W & Pelvis W & CTA C...	10-28-2011 2.4...	10-28-2011 3:30 PM	Patient	Hardin		Required		CT	10404	LU	ADV
OrderSigned	CT Ankle Arthrogram [CT31] - Ankle j...	10-28-2011 2.5...		Sally	Norton		Required			296		ADV
Scheduled	CT 3 Phase [CT13] CT 3 Phase [CT13]	10-28-2011 3.0...	10-05-2011 3:15 PM	Sally63	Shea		Required		CT	10409	EL	ADV
Scheduled	CT 3 Phase [CT13] CT 3 Phase [CT13]	10-28-2011 3.0...	10-19-2011 3:16 PM	Sally63	Shea		Required		CT	10409	EL	ADV
Scheduled	CT 3 Phase [CT13]	10-28-2011 3.2...	10-29-2011 8:00 AM	sticktest	sticktest		Required		CT	10415	FH	ADV
Scheduled	MR x Lower Ext Joint W [73722]	10-28-2011 3.2...	10-29-2011 10:20 AM	Brooke	Trout		Required		MR	10103	EL	ADV
Scheduled	CT 3 Phase [CT13] CT Abdomen W...	10-28-2011 3.4...	10-31-2011 8:15 AM	Patient	b25		Required		CT	10419	EL	ADV
Scheduled	CT 3 Phase [CT13] CT Abdomen W...	10-28-2011 3.4...	10-31-2011 8:45 AM	Patient	b25		Required		CT	10419	EL	ADV
Scheduled	CT Head W [70460] - Head	10-28-2011 4.1...	10-29-2011 8:45 AM	Zelda	Zoom		Required		CT	10005	EL	ADV

Figure 3.5.1 – IVT work list

3.6 IVT data windows

Below are examples of the IVT data window. Included are the patient and Insurance Verification Precert tabs. The attachments tab is a standard window used in other data windows and is covered in detail later in this document.

3.6.1 Patient tab

The user has the ability to add or edit data on the Patient tab. This tab provides the user with general information about the patient.

The screenshot displays a web application window titled "Patient" with three tabs: "Patient", "Insurance Verification PreCert", and "Attachments". The "Patient" tab is active, showing a form with the following sections:

- General Information:** Fields for First Name (Volanda), Middle (Y), Last Name (Yeesh), Gender (Female), Birth Date (07-21-1956), and MRN (10006). A "Verified ID" checkbox is present and unchecked.
- Address Information:** Fields for Address 1 (132 My St.), Zip, Address 2, Home Phone ((555) 555-5555), City (Mycty), Mobile Phone ((555) 555-5553), State (Mystate), and E-mail (yy@why.com).
- Patient Origin:** Fields for Place of Birth, Primary Language (English), Education Level (College), Religion (Christian), and Ethnic Origin (Unknown).

At the bottom right of the window are "Save" and "Close" buttons.

Figure 3.6.1.1 – IVT Patient Tab

3.6.2 Insurance Verification PreCert

On the Insurance Verification PreCert, the users have the ability update the insurance information and add / edit billing code information

RADNET, Inc. – rRIS Release Notes

IVT WL (49) | IVT (Yolanda Yeesh) x

Patient | Insurance Verification PreCert | Attachments

Insurance Policies

Note	Carrier Code	Carrier Name	Policy Number	Group Name	Group Number	Phone	Priority
------	--------------	--------------	---------------	------------	--------------	-------	----------

Manage Policies Verification REQUIRED Insurance verified Amount to collect:

Verification and PreCert Notes

11-01-11 dtn -

Billing Code Information

PreCert#	Expiry Date	Billing Code	Pre Cert Status
▶		(73615) RADIOLOGIC EXAMINATION, ANKLE, ARTHROGRAPHY, RADIOLOGICAL SUPERVISION AND INTERPRETATION	Not Required

Show inactive CPT codes

Save Close

Figure 3.6.2.1 – IVT Insurance Verification PreCert Tab

3.7 No Show work list

The No Show work list contains the exams that have been flagged as no show at the time of cancelling the order or scheduled exam. Button actions that can be completed is Reschedule only. Context menu options are Audit History, Copy Cell, Reschedule, and Change Status which contains its own sub menu.

Flags	Status	Procedures	Scheduled Date	First Name	Last Name	Primary Phone Number	MRN	Room	Due Time
	Scheduled	XR NECK SOFT TISSUE [70360] - Neck	10-19-2011 2:35 PM	Adele	Acorn	(902) 548-8765	9998	XR1EL	Overdue 11 d 8 h 4 m
	Scheduled	XR ABDOMEN AP, KUB [74000] - Abdomen	10-19-2011 2:45 PM	Edna	Edward		10099	XR1EL	Overdue 11 d 7 h 54 m
	Scheduled	CT Abdomen W/Wo & Pelvis W [CT23] - Abdomen	10-19-2011 2:50 PM	Edna	Edward		10099	CT1EL	Overdue 11 d 7 h 49 m
	Scheduled	CT 3 Phase [CT13]	10-19-2011 3:16 PM	Sally63	Shea		10409	CT1EL	Overdue 11 d 7 h 23 m
	Scheduled	CT Soft Tissue Neck W & Chest W [CT35] - Neck	10-19-2011 3:20 PM	Adele	Acorn	(902) 548-8765	9998	CT1EL	Overdue 11 d 7 h 19 m
	Scheduled	CT Soft Tissue Neck W & Chest W [CT35] - Neck	10-19-2011 5:00 PM	Adele	Acorn	(902) 548-8765	9998	CT1EL	Overdue 11 d 5 h 39 m
	Scheduled	CT Chest W [71260] - Chest	10-20-2011 8:15 AM	Spencer	Test		2170	CT1FH	Overdue 10 d 14 h 24 m
	Scheduled	PT/CT Myo Imag Perf Study [78459]	10-20-2011 9:45 AM	test	patient2		4626	PT1FH	Overdue 10 d 12 h 54 m
	Scheduled	CT Ear Orbit Sella W [70481] - Head/Bilateral	10-20-2011 3:02 PM	Walk	In		10350	CT1EL	Overdue 10 d 7 h 37 m
	Scheduled	CT Elbow Arthrogram [CT27] - Elbow/Left	10-21-2011 8:40 AM	William	McCarty	(902) 566-5695	10352	CT1EL	Overdue 9 d 13 h 59 m
	Scheduled	US Chest [76604] - Chest	10-21-2011 9:25 AM	Troy	Beatle		10353	US1EL	Overdue 9 d 13 h 14 m
	Scheduled	US Chest [76604] - Chest	10-21-2011 10:15 AM	Yolanda	Yeesh	(555) 555-5555	10006	US1EL	Overdue 9 d 12 h 24 m
	Scheduled	US Abdominal Ltd Or Fu [76705] - Abdomen	10-21-2011 10:15 AM	Zelda	Zoom	(902) 556-5466	10005	US2EL	Overdue 9 d 12 h 24 m
	Scheduled	US Abdominal Complete [76700] - Abdomen	10-21-2011 10:45 AM	Willa	Wonder		10008	US1EL	Overdue 9 d 11 h 54 m
	Scheduled	US Scrotum Contents [76870] - Pelvis	10-21-2011 10:45 AM	Xena	Xroller		10007	US2EL	Overdue 9 d 11 h 54 m
	Scheduled	US Soft Tissue - Chest Wall [USST4] - Chest	10-21-2011 11:15 AM	William	McCarty	(902) 566-5695	10352	US1EL	Overdue 9 d 11 h 24 m
	Scheduled	US Abdominal Ltd Or Fu [76705] - Abdomen	10-21-2011 11:15 AM	Bella	Brie	(555) 555-5555	9999	US2EL	Overdue 9 d 11 h 24 m
	Scheduled	US Soft Tissue - Abdominal Wall [USST1] - Abdomen	10-21-2011 1:00 PM	Clare	Cone	(902) 587-2665	10000	US2EL	Overdue 9 d 9 h 39 m
	Scheduled	US Abdominal Complete [76700] - Abdomen	10-21-2011 1:30 PM	Danny	Briere		786	US2EL	Overdue 9 d 9 h 9 m
	Scheduled	US Soft Tissue - Chest Wall [USST4] - Chest	10-21-2011 1:40 PM	Tina	Timeless	(902) 548-8484	10011	US1EL	Overdue 9 d 8 h 59 m
	Scheduled	US Soft Tissue - Chest Wall [USST4] - Chest	10-21-2011 2:00 PM	Donna	Dolittle		10004	US2EL	Overdue 9 d 8 h 39 m
	Scheduled	US Abdominal Complete [76700] - Abdomen	10-21-2011 2:20 PM	Adele	Acorn	(902) 548-8765	9998	US1EL	Overdue 9 d 8 h 19 m
	Scheduled	US Chest [76604] - Chest	10-21-2011 3:00 PM	Bella	Brie	(555) 555-5555	9999	US1EL	Overdue 9 d 7 h 39 m
	Scheduled	US Duplex Abd Pel Retro Lmt [93976] - Abdomen	10-21-2011 3:00 PM	Artie	Houphmeyer		10240	US2EL	Overdue 9 d 7 h 39 m
	Scheduled	US Chest [76604] - Chest	10-21-2011 3:30 PM	Brenda	Walsh		10346	US2EL	Overdue 9 d 7 h 9 m
	Scheduled	XR RIBS BILAT W PA CHEST [71111] - Chest/Bilateral	10-25-2011 2:25 PM	Yolanda	Yeesh	(555) 555-5555	10006	XR1EL	Overdue 5 d 8 h 14 m
	Scheduled	CT Soft Tissue Neck W & Chest W [CT35] - Neck	10-27-2011 7:50 AM	Barney	Hubble		10369	CT1EL	Overdue 3 d 14 h 49 m
	Scheduled	XR NECK SOFT TISSUE [70360] - Neck	10-27-2011 10:00 AM	Barney	Hubble		10369	XR1EL	Overdue 3 d 12 h 39 m
	Scheduled	XR ABDOMEN AP, KUB [74000] - Abdomen	10-27-2011 1:40 PM	Yolanda	Yeesh	(555) 555-5555	10006	XR1FH	Overdue 3 d 8 h 59 m
	Scheduled	Flt Arthrogram Ankle Fluoro [73615] - Ankle/joint	10-27-2011 2:00 PM	Yolanda	Yeesh	(555) 555-5555	10006	XR1EL	Overdue 3 d 8 h 39 m
	Scheduled	US Chest [76604] - Chest	10-28-2011 1:45 PM	Edna	Edward		10099	US2EL	Overdue 2 d 8 h 54 m
	Scheduled	XR Long Leg Study [76499LL] - Leg	10-28-2011 2:05 PM	Chris	Anderson		10371	XR1FH	Overdue 2 d 8 h 34 m
	Scheduled	CT Abdomen W & CTA Chest W/Wo [CT66] - Abdomen	10-28-2011 2:30 PM	Brooke	Trout		10103	CT1FH	Overdue 2 d 8 h 9 m

Figure 3.7.1 – No Show work list

3.8 Image Request work list

From other work lists user have the ability to enter request for images. Each request is added to the Image Request work list. The button and context menu actions from this work list are to edit the image request. Once a request is flagged as completed, it is removed from the work list.

Exam Status	Procedures	Request Date	Last Name	First Name	Birth Date	Patient Id	Request Status	Copy To	Delivery	Requested By Type	Requested By	Organization	Phone Number
Transcribed	CT Chest W & Abdom...	09-29-2011 1:09 PM	Hughes	Stuart	05-12-1964	92496	Pending	CD	Pickup	OtherDoctor	Ian Power		(902) 556-5555
ReportDrafted	XR Chest PA Lat, Obliq...	09-29-2011 10:03 AM	Brie	Bella	07-21-1999	9999	Pending	CD	Courier	Other	Frank Turnbull		
ExamDone	CT Urogram Wo 3D [C...	09-29-2011 10:01 AM	Vick	Michael	08-30-1987	10254	Pending	CD	Courier	Referring	WILLIAM DAVIDSON, MD		(410) 768-3701
ExamDone	CT Ear Orbit Sella W [7...	09-29-2011 10:05 AM	Campbell	Jason	09-21-1978	10255	Pending	CD	Other	Referring	WILLIAM DAVIS, MD		(202) 537-7400
ExamDone	CT Ear Orbit Sella W [7...	09-29-2011 10:06 AM	Campbell	Jason	09-21-1978	10255	Pending	CD	Pickup	Patient	Jason Campbell		() -
Dictated	CT Cervical Spine W [7...	09-20-2011 1:40 PM	Timeless	Tina	07-21-1955	10011	Pending	CD	Pickup	Other	Darcy	ADV	(925) 488-4654
Dictated	CT Cervical Spine W [7...	09-20-2011 1:53 PM	Timeless	Tina	07-21-1955	10011	Pending	CD	Mail	Referring	Testy Testerson		(902) 548-7784
Dictated	CT Cervical Spine W [7...	09-20-2011 1:53 PM	Timeless	Tina	07-21-1955	10011	Pending	Film	Courier	OtherDoctor	Dr Darcy Noye		(541) 574-5855
Dictated	CT Cervical Spine Wo...	09-29-2011 10:07 AM	Xroller	Xena	07-22-1956	10007	Pending	CD	Other	Other	John Waxall		
ExamDone	XR Wrist 2 Views [7310...	09-29-2011 10:11 AM	Brie	Bella	07-21-1999	9999	Pending	CD	Courier	Referring	Dr Darcy Noye		(541) 574-5855
ExamDone	XR Wrist 2 Views [7310...	09-29-2011 11:11 AM	Brie	Bella	07-21-1999	9999	Pending	CD	Mail	Referring	Dr Darcy Noye		(541) 574-5855
Checkingin	XR Hand 3 Views & Wri...	10-27-2011 1:58 PM	Bundigger	Garret	06-16-1964	10347	Pending	CD	Mail	Referring	Dr Darcy Noye		(541) 574-5855
Cancelled		10-28-2011 11:59 AM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Other	Clifton		
Cancelled		10-28-2011 12:00 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Other	Clifton		
Cancelled		10-28-2011 12:43 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Patient	Sally Norton		() -
Signed1	XR RIBS 3 VIEWS, BLI...	10-28-2011 11:34 AM	Pudd	Elmer	12-28-1940	10383	Pending	CD	Courier	Patient	Elmer Pudd		(554) 654-6545
Cancelled		10-28-2011 12:09 PM	Norton	Sally	07-28-1985	296	Pending	CD	Mail	Patient	Sally Norton		() -
Cancelled		10-28-2011 12:09 PM	Norton	Sally	07-28-1985	296	Pending	Film	Courier	Patient	Sally Norton		() -
Cancelled		10-28-2011 12:06 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Other	Clifton		
Cancelled		10-28-2011 12:43 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Patient	Sally Norton		() -
Cancelled		10-28-2011 12:43 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Patient	Sally Norton		() -
Cancelled		10-28-2011 12:43 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Patient	Sally Norton		() -
Cancelled		10-28-2011 12:31 PM	Norton	Sally	07-28-1985	296	Pending	Film	Courier	Patient	Sally Norton		() -
Cancelled		10-28-2011 12:43 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Patient	Sally Norton		() -
Cancelled		10-28-2011 1:30 PM	Norton	Sally	07-28-1985	296	ImageCopied	CD	Courier	Referring	Janet Hobbs		(902) 436-1235
Cancelled		10-28-2011 12:43 PM	Norton	Sally	07-28-1985	296	Pending	CD	Courier	Patient	Sally Norton		() -
Arrived	XR NECK SOFT TISSU...	10-28-2011 8:03 PM	Acorn	Adele	07-20-2000	9998	ImageCopied	CD	Mail	Patient	Adele Acorn		(902) 548-8765
Started	XR ABDOMEN FLAT &...	10-28-2011 3:22 PM	Rasmus	Cody	06-10-1986	10245	Pending	Film	Courier	Other	adsf		
Signed1	NM Testicular W Flow [...]	10-28-2011 1:55 PM	Norton	Sally	07-28-1985	296	Pending	CD	Mail	Referring	Janet Hobbs		(902) 436-1235
Cancelled		10-28-2011 3:22 PM	sticktest	sticktest	03-08-1989	10415	Pending	CD	Mail	Other	adsf		() -

Figure 3.8.1 – Image Request work list

3.8.1 Image Request Data Window

If the image request needs to be updated after it has been requested, the user can complete the request from the exam itself on the Image Request data tab, or they can access the request from the Image Request work list, select the row and select the Edit Request button. The user has the ability to edit other data on the patient, but this main purpose of Edit Request from the Image Request work list is to update the status of the image request.

The user may also access and print the release form from with the data window.

From the radio buttons displayed the user can specify who requested the images and where the images are to be delivered. Selecting patient will populate the name and address. The referring completes the same field. If there is more than one address on file for the referrer the user will need to select it from the list provided. Other required fields are the Format and Method of delivery. If the status Picked Up is selected, the Identification Verified check box becomes required.

Date	Req. By	Source	CD	Format	Delivery	Status
29/09/2011 10:03:10 AM -03:00	Frank Turnbull	Other		CD	Courier	Pending

Requested By
 Patient Referring Other Doctor Other
Doctor: [Search]
Location: [Search]
Name: Frank Turnbull
Organization: [Text]
Phone Number: () - [Text]

Deliver To / Pickup By
 Patient Referring Other Doctor Other
 Same as requested by
Doctor: [Noye, Darcy T] [Search]
Location: [4 Workdown Dr., 1, Worktown, MD, 45742] [Search]
Prefix: Dr
First Name: Darcy
Last Name: Noye
Suffix: [Text]
Address: 154 Hangdown Dr.
City: Hangtown
State: MD
Country: United States
ZipCode: 45742
Phone Number: (541) 574-5855

Details
Format: CD
Notes: [Text]

Delivery Instructions
Method: Courier
Instructions: [Text]

Image Request Status
 Pending Cancelled Copied Sent Picked Up Identification Verified

[Release Form] [Save] [Close]

Figure 3.8.1.1 – Image Request data window

3.9 Document Distribution work list

Reports documents that have been marked for distribution are added to the Document Distribution work list. Button actions from this work list are to Edit, Pause, Cancel, and Retry jobs. There is no context menu from this work list.

The Retry button is only available if the status is not Pending. All other buttons are always available. Cancelling a job will set the status to Cancelled and the item will drop off the work list.

Pause, Cancel, and Retry all prompt for confirmation.

All buttons allow multi-select. If a combination of Pending and non-pending jobs are selected, the Retry button will be unavailable. The action will apply to all selected rows after confirmation at the prompt. The prompt will change to plural when multiple rows are selected

Accession #	Available	Created on	Priority	Status	Delivery Method	Deliver To	Destination Printer	Fax Number	Job Id	Activity Log	Practice	Retry Count	Server Name
1009102	10-28-2011 5...	10-28-2011 5.2...	1	Error	Print	Noye, Darcy T	KONICA MINOLT...			10/28/2011 5:43:01 PM -03:00 Could not gener...	STP	2	STUART-LAPTOP
1009159	10-28-2011 5...	10-28-2011 3.0...	0	Error	Fax	Harvey Kietel		(902) 724-...		10/28/2011 5:40:09 PM -03:00 Could not gener...	ADV	2	STUART-LAPTOP
1009159	10-28-2011 5...	10-28-2011 3.0...	0	Error	Fax	Power, Ian		9027243316		28/10/2011 7:36:39 PM -03:00 I have nothing to...	ADV	3	STUART-LAPTOP
1009159	10-28-2011 5...	10-28-2011 3.1...	0	Error	Fax	Testerson,...		(902) 724-...		10/28/2011 5:42:59 PM -03:00 Could not gener...	ADV	2	STUART-LAPTOP
1009207	10-28-2011 5...	10-28-2011 3.0...	0	Error	Fax	Muttery, Troy		(902) 724-...		10/28/2011 5:40:07 PM -03:00 Could not gener...	ADV	2	STUART-LAPTOP
1009530	10-28-2011 5...	10-28-2011 5.2...	0	Error	Fax	Noye, Darcy T		9027243316		10/28/2011 5:40:08 PM -03:00 Could not gener...	ADV	2	STUART-LAPTOP
1009607	10-28-2011 5...	10-28-2011 3.1...	0	Error	Fax	Noye, Darcy T		(902) 724-...		10/28/2011 5:40:07 PM -03:00 Could not gener...	ADV	2	STUART-LAPTOP
1009611	10-28-2011 5...	10-28-2011 4.1...	1	Error	Print	Waite, Andr...	KONICA MINOLT...			10/28/2011 5:40:08 PM -03:00 Could not gener...	ADV	2	STUART-LAPTOP
										10/28/2011 5:43:01 PM -03:00 One or more dat...			
										28/10/2011 5:40:48 PM -03:00 Changed to a pri...			

Figure 3.9.1 – Document Distribution work list

3.10 Patient Folder

The user has complete system functions on patient records (if they have permissions) from the patient folder.

Depending on the status of the exam will depend on what buttons become enabled at the bottom of the work list.

The button actions available from within this window are from left to right in figure below Sign Reports, Create/Edit Reports, Dictate, Perform Exam, Registration, Schedule, Reschedule, Edit Order, Mark Order.

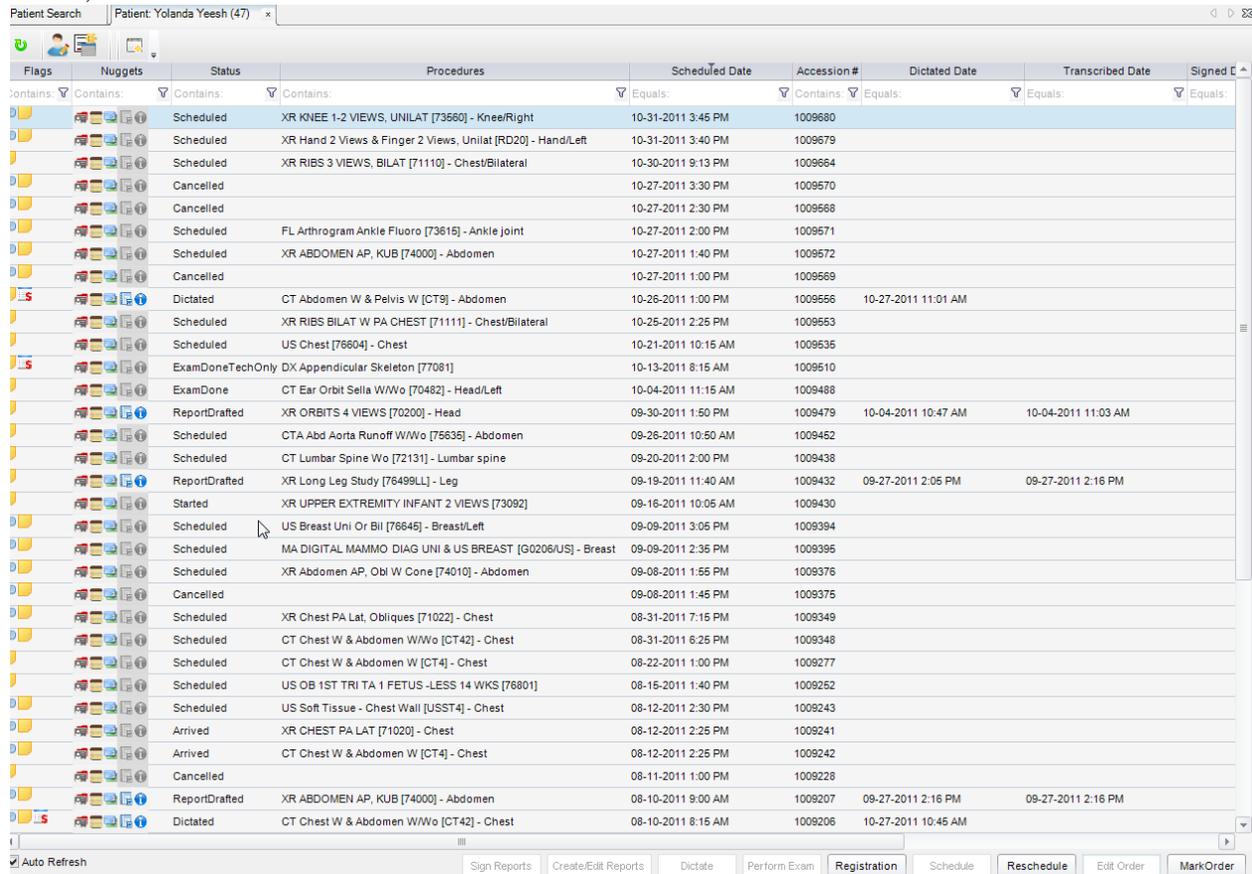
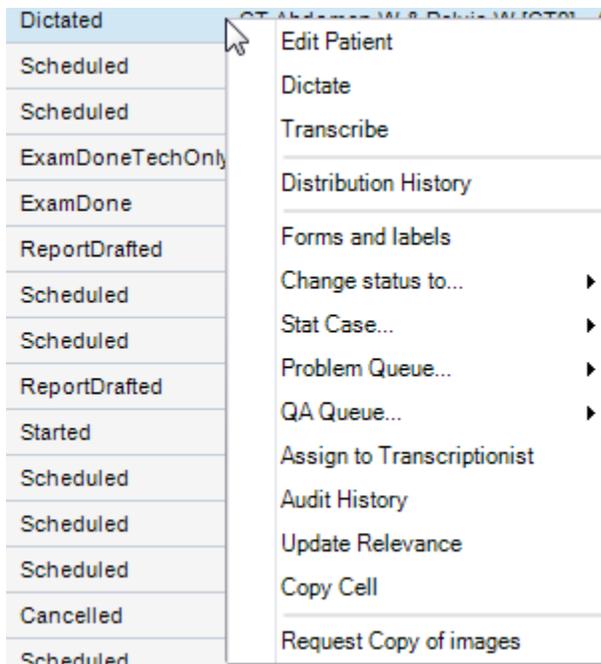


Figure 3.10.1 – Patient Folder work list

The context menu also has many options available. Below is an example screenshot of the context menu. Again depending on the status of the exam and allowable permissions to the user, will depend on what is available from the context menu.



3.10.2 – Patient Folder context menu. In this example the exam status is dictated.

3.10.1 Data Nuggets

Data nuggets are available only from the patient folder. If the patient record has a specific nugget available it will be in an enabled state, otherwise it will be disabled (grayed out). Each nugget has an assigned shortcut key, which is displayed when hovering the mouse pointer over the nugget in a tooltip. The nugget can be closed by selecting the same Icon from the Nuggets column again for that record, selecting the shortcut key for that nugget (provided focus is on that patient record row), or by pressing the X in the upper right corner of the nugget window. All of the Nuggets will have the patient name age and gender in the upper left, and procedure, procedure code and body part in the lower right corner of the nugget.

Summary – Selecting the Summary Data nugget will open the Summary view of the patient

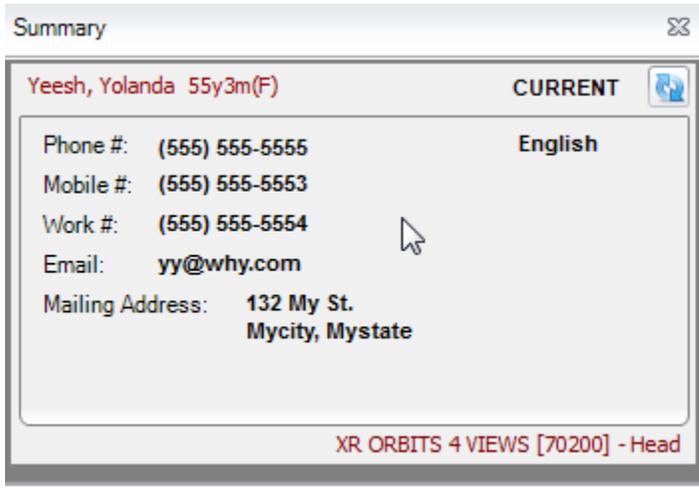


Figure 3.10.1.1 – Summary Data Nugget

Notes – displays the patient and study (order) notes

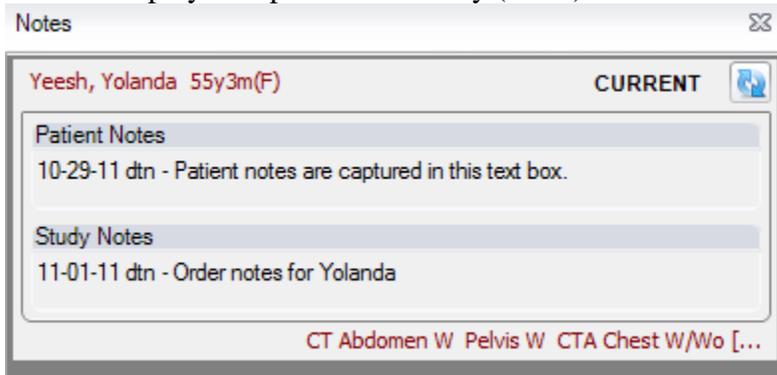


Figure 3.10.1.2 – Notes Data Nugget

Documents – Attached (scanned) documents. All documents scanned for the patient are in list box at top and can be viewed by selecting it from the list. Document notes can be viewed. Document type can be changed. Document can be printed.

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Documents 88

Yeesh, Yolanda 55y3m(F) Type: *Unknown 08-02-2011 CURRENT

Unknown

Name: DOLITTLE, DONNA Sex: M

MRN: 10004 DOS: 7/21/2011

Darcy Noye DOB: 7/22/1999

Name: DOLITTLE, DONNA

MRN: 10004

Encounter ID: 27062

Patient Demographics		Scheduler: darcyn	Date/ Time Scheduled: 7/21/2011	
SSN	Home Phone	Work Phone	Other Phone	Referral Source

Exam Information

Barcode Accession #	Procedure ID/ Description	Exam Time	Body Part / Laterality	Modifier	Pre-Cert#
 1009114	US71^US xLwr Ext Art Duplex Uni W SP	5:40 AM			

Chief Complaint	Patient History (Duration, Trauma, Surgery)
Tech Notes	Primary Tech
not entering any notes	
	Secondary Tech

Referring Information:

Referring Physician:	Phone:	Fax:	Address:
Darcy Noye	(541) 574-5855	(555) 555-6316	

Procedure Performed:	DOS	Location
RD10^XR Femur, Bilat 2 Views	7/21/2011	

XR RIBS BILAT W PA CHEST [71111] - Chest/Bilateral

Figure 3.10.1.3 – Document nugget (sample only)

Report Nugget –Patients diagnostic report. User can load and play back audio, distribute the report, view report history and preview report

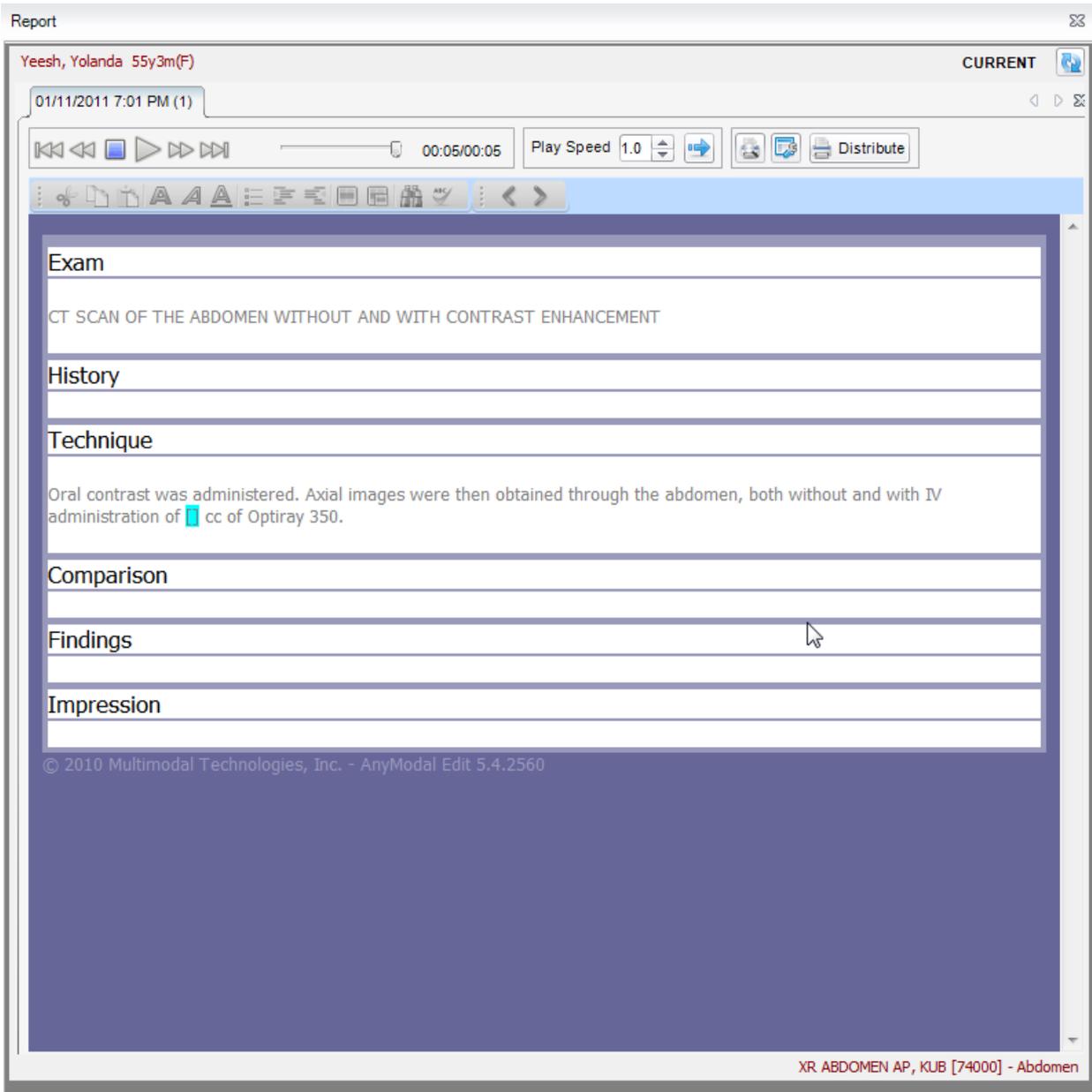


Figure 3.10.1.4 – Report Nugget

Interpretation – Open data nugget of the interpretation

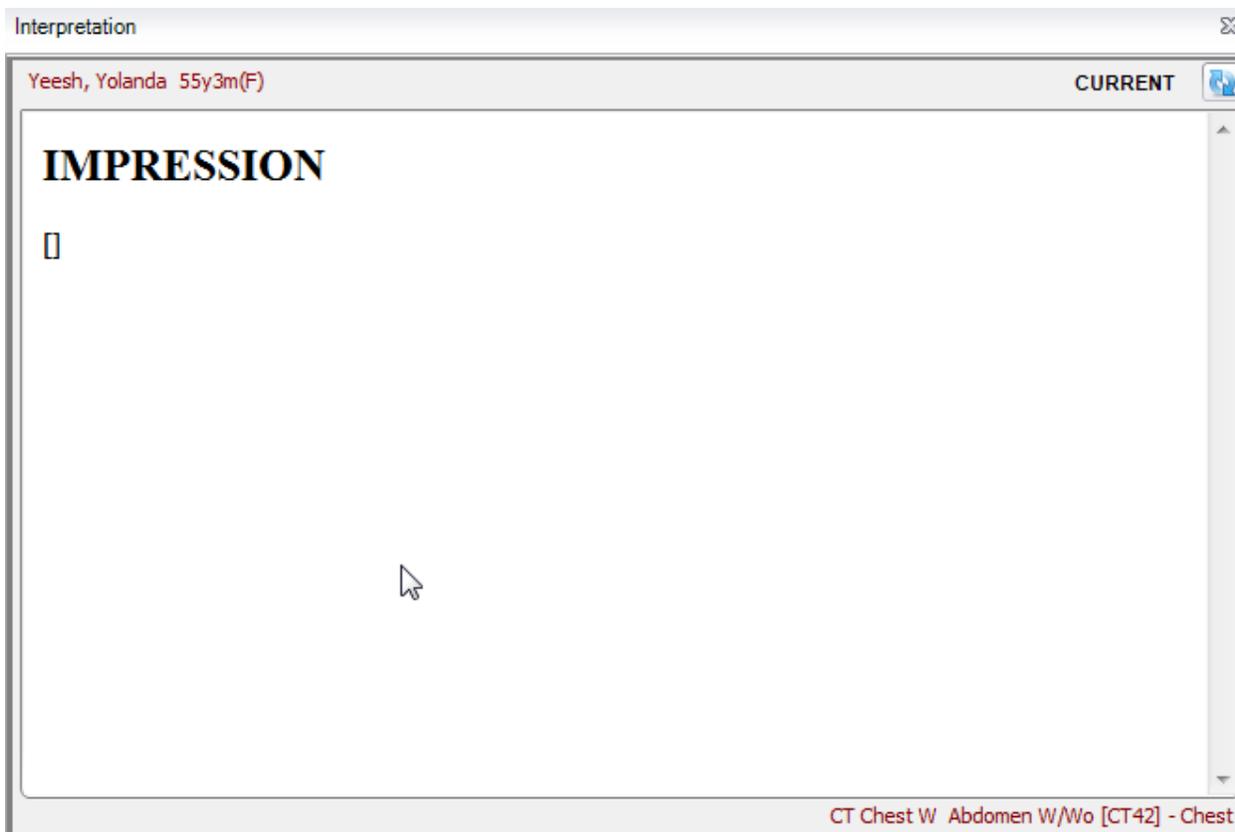


Figure 3.10.1.5 – Interpretation Nugget

3.10.2 Audit History

The audit history is available from the context menu of the patient folder. It is also available from the context menus of the following work lists. Unknown Referring, IVT, No Show, Orders to Schedule, Cancelled Orders, Confirmation, Closed Rooms Reschedule, Reception, Technologist, Pending Dictating, Dictated by Date, Suspended, Pending Signature, Reports Drafted, and Pending Review.

The audit history gives the user important information of the history of the patients procedure. Filters on Patients Order, and Study can be applied. The user can also include system retrievals.

Selecting a row will present the details in the form below.

The audit history list can be sorted and filtered. The standard system wide context menu from the column header is available.

RADNET, Inc. – rRIS Release Notes

Patient Search | Patient: Yolanda Yeesh (47) | Audit (Yolanda Yeesh) x

Filters
 Patient Order Study Include Retrievals

date	description	notes	user id	accession number	order number	status
01/11/2011 10:44:09 PM	Order Updated	Visit updated	darcyn			
31/10/2011 3:50:18 PM	Study Scheduled	Visit updated	darcyn			
31/10/2011 3:50:18 PM	Study Scheduled	Visit updated	darcyn			
29/10/2011 9:14:56 PM	Order Submitted	Visit updated	darcyn			
29/10/2011 9:14:56 PM	Order Submitted	Visit updated	darcyn			
29/10/2011 9:14:56 PM	Order Submitted	Patient updated	darcyn			
28/10/2011 2:30:36 PM	Study Updated	Visit updated	Terry			
28/10/2011 2:30:09 PM	Order Updated	Visit updated	Terry			
27/10/2011 3:09:26 PM	Order Updated	Visit updated	Ian			
27/10/2011 3:09:26 PM	Order Updated	Patient updated	Ian			
27/10/2011 1:37:17 PM	Study Scheduled	Visit updated	darcyn			
27/10/2011 1:37:17 PM	Study Scheduled	Patient updated	darcyn			
27/10/2011 1:00:49 PM	Study Updated	Study updated	darcyn	1009488	1009750	ExamDone
27/10/2011 1:00:49 PM	Study Updated	Visit updated	darcyn			
27/10/2011 1:00:49 PM	Study Updated	Patient updated	darcyn			
27/10/2011 1:00:47 PM	Study Completed	Set Study Status to ExamDone	darcyn	1009488	1009750	ExamDone
27/10/2011 1:00:46 PM	Study Updated	Study updated	darcyn	1009488	1009750	Started
27/10/2011 1:00:46 PM	Study Updated	Patient updated	darcyn			
27/10/2011 1:00:41 PM	UI_StudyStarted	Set Study Status to Started	darcyn	1009488	1009750	Started

Save Close

Figure 3.10.2.1 – Audit History

4. Attachments

Attachments can be added to an order from different areas of the application. From New

Appointment, Schedule Order and Registration data windows there is a paperclip icon  Located on the procedure picker row.

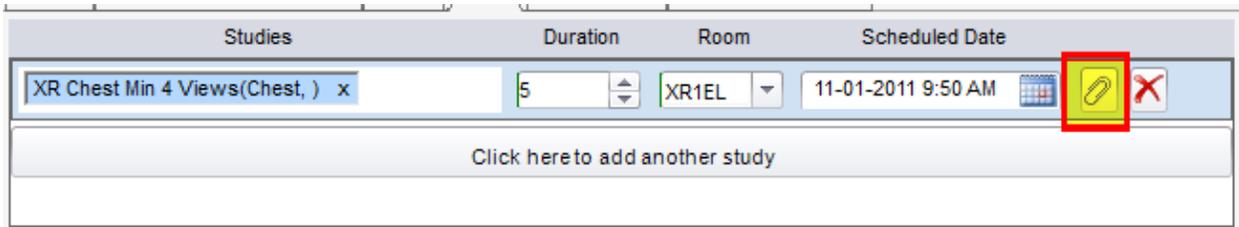


Figure 4.1 – Displaying the location to access the attachment viewer work list

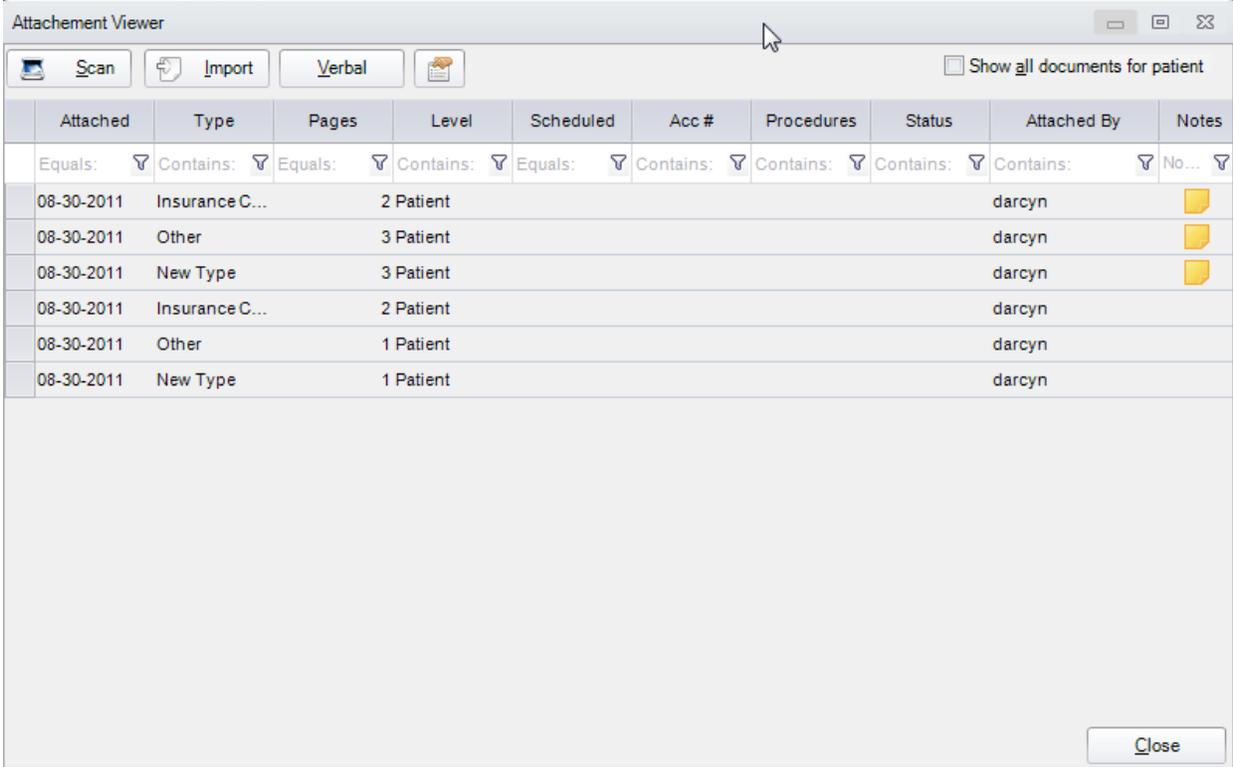


Figure 4.2 – Attachment Viewer window

The user can select the Scan button to scan and attach a new document or script. The Import button allows the user attach a pre-existing file saved on the local system or shard drive. The

Verbal button allows the user to create verbal or amended order document. The last Icon is to access the advanced properties for scanning.

When the scan or attachment is complete, the Attached Document window will automatically open. Also double clicking on a row in the attachment viewer will also open this window.

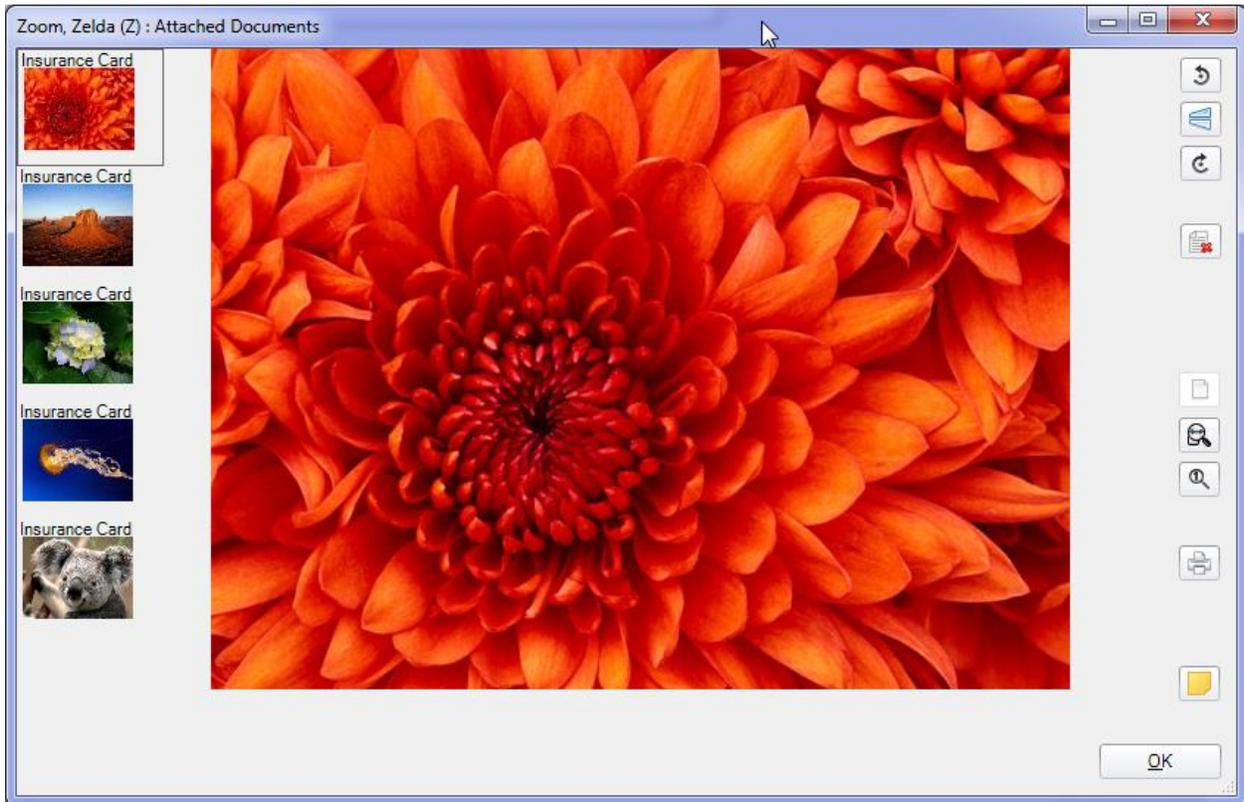


Figure 4.3 – Attachment Documents window

4.1 Change Document Type

In the example above the document type is insurance card. The user has the ability to assign or change the document type after the document has been scanned. Additionally the user has the option to change the type of the document selected and also the documents that follow the currently selected document.

In the view attachment window, thumbnails are displayed on the left side. A right click on a thumbnail will open the list displayed in Figure 4.4. The first menu item “Classify Remaining as” expands the menu to show the available document types. The user can change the currently selected document as well as the all of the documents that follow the document in thumbnail view below it.

The document types available from this context menu are only those of the same document type of the scanned or imported image. For example, if the document scanned has a document type that is at the Patient Level, the context menu will only show active document types at Patient Level.

The order of the thumbnails can be changed by dragging and dropping.

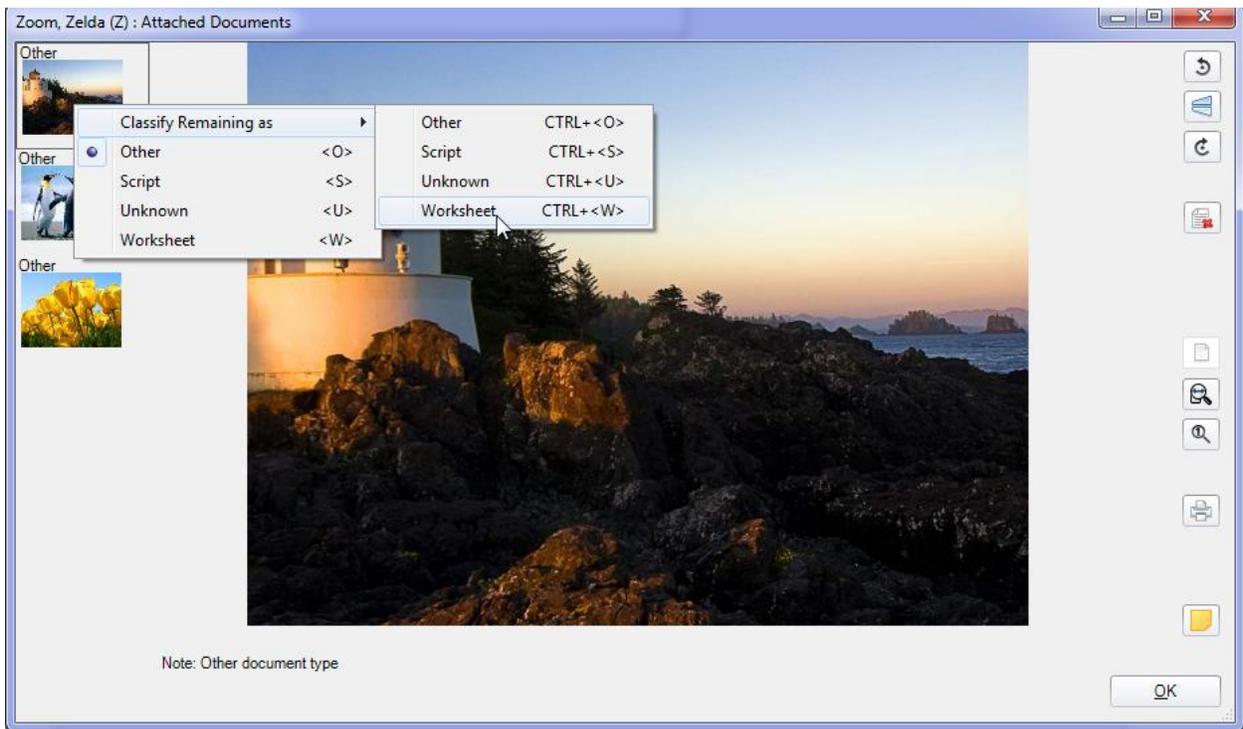


Figure 4.4 – Attached Documents window showing context menu.

Changing the document type as shown in Figure 4.4 a new record is created and a new row will display in the Attachment Viewer. The original attachment “other” has 3 pages. One of those pages is changed to Type “worksheet”, creating a new row for “worksheet” document with 1 page and “other” has the remaining.

Re-classifying an attachment back to its original classification, it will join the attachment document entry for any other of that type that were scanned or attached at the same time.

Also from Figure 4.4 you will notice that the document types may have shortcut keys assigned. To change the document type for a single document, you only need to select the shortcut key itself. For example, to change the document type to Unclassified, highlight the thumbnail and select **U** on the keyboard. To change the document type for the currently selected thumbnail and the documents below it, you must also select <Ctrl> in addition to the shortcut key.

4.2 Attach Document Notes

Looking at figure 4.2.1, you will notice a yellow “notebook” Icon in the lower right above the OK button. Selecting this Icon will open the Scan Document Notes window. Entering notes in the above window, selecting OK will save the note to the attachment and is displayed in the lower left when viewing the attachment. The note ICON will display in a new column titled “notes” on the Attachment Viewer work list (see figure 4.2). The scan document notes can be edited from the work list via a right click menu from the notes ICON.

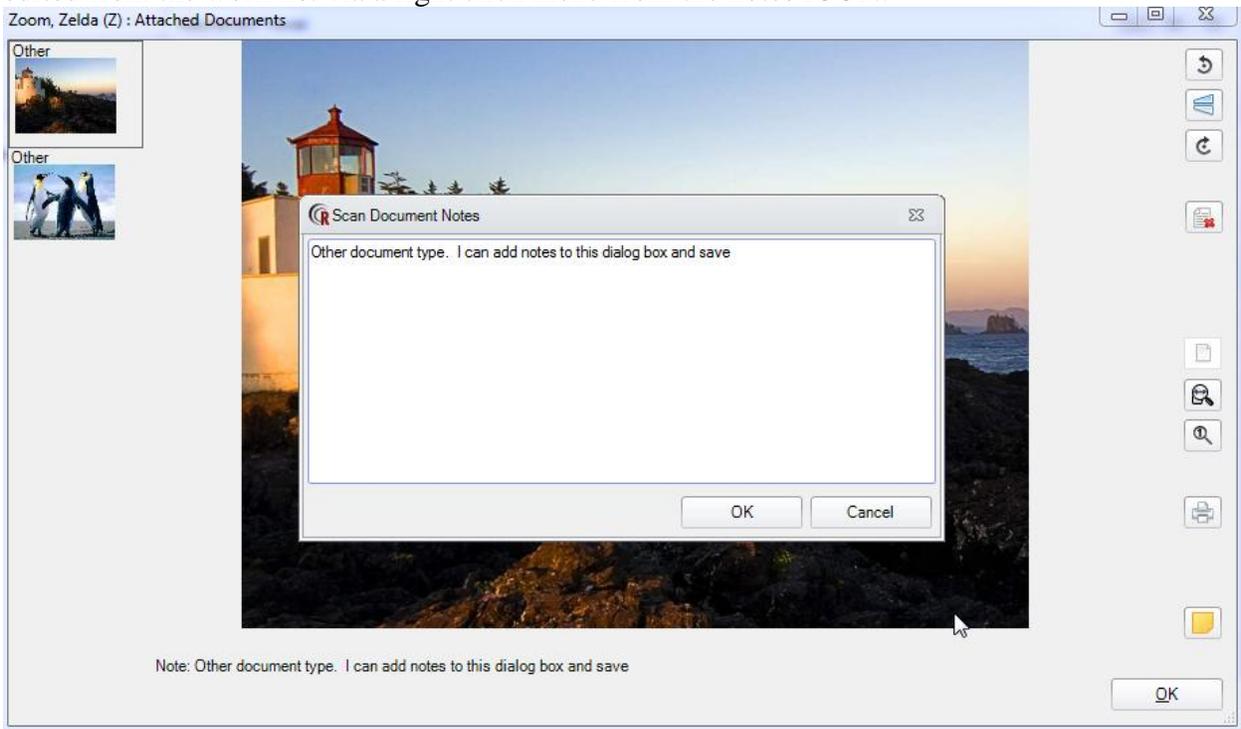


Figure 4.2.1 – Adding document notes.

4.3 Straighten Tool

When viewing the scanned image or attachment the user can right click on an image and choose **Straighten**, next they are asked to underline a word in the image. The user has option to apply or cancel changes. When they choose Apply, the image will be rotated making the line they drew straight. An undo option is also available from context menu or keyboard shortcut <Ctrl>+ Z.

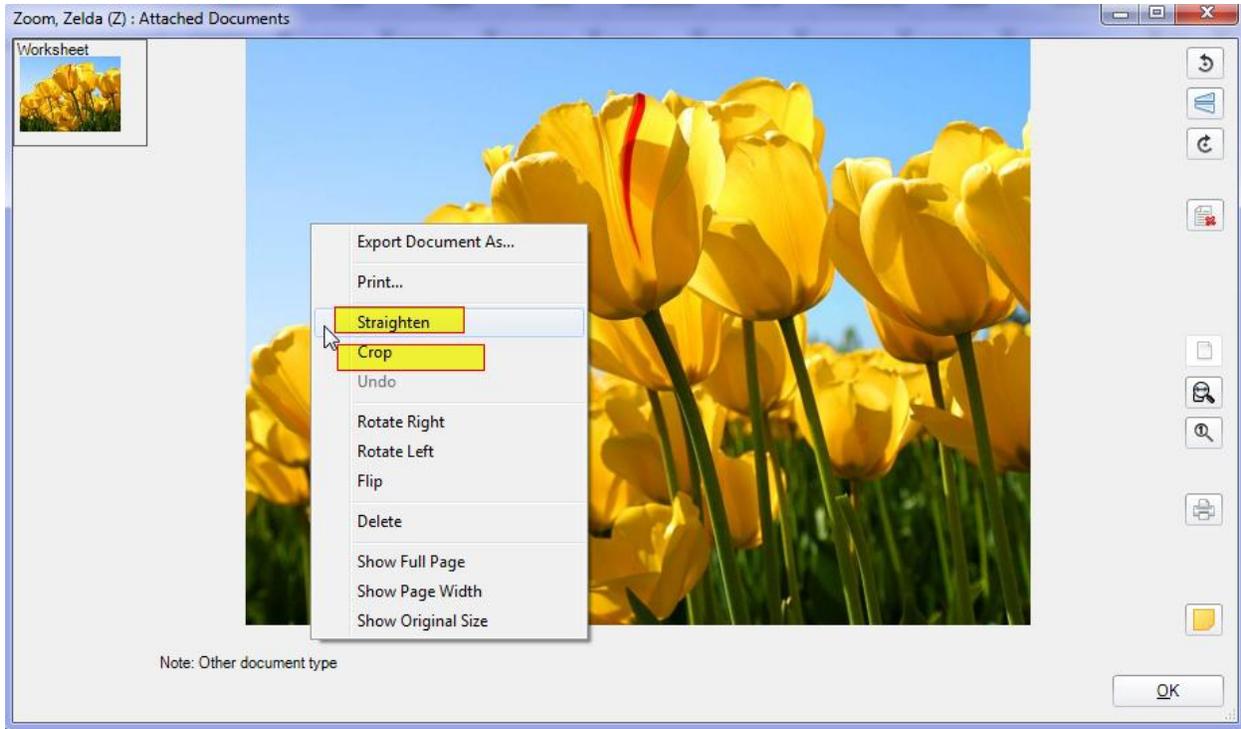


Figure 4.3.1 – Context menu showing Straighten and Crop

4.4 Cropping Tool

Also from the context menu an image cropping feature has been added. The user selects the context menu option, click and drags the desired area, and select Apply or Cancel. The cropping can be reverted back by using the same Undo options for Straighten.

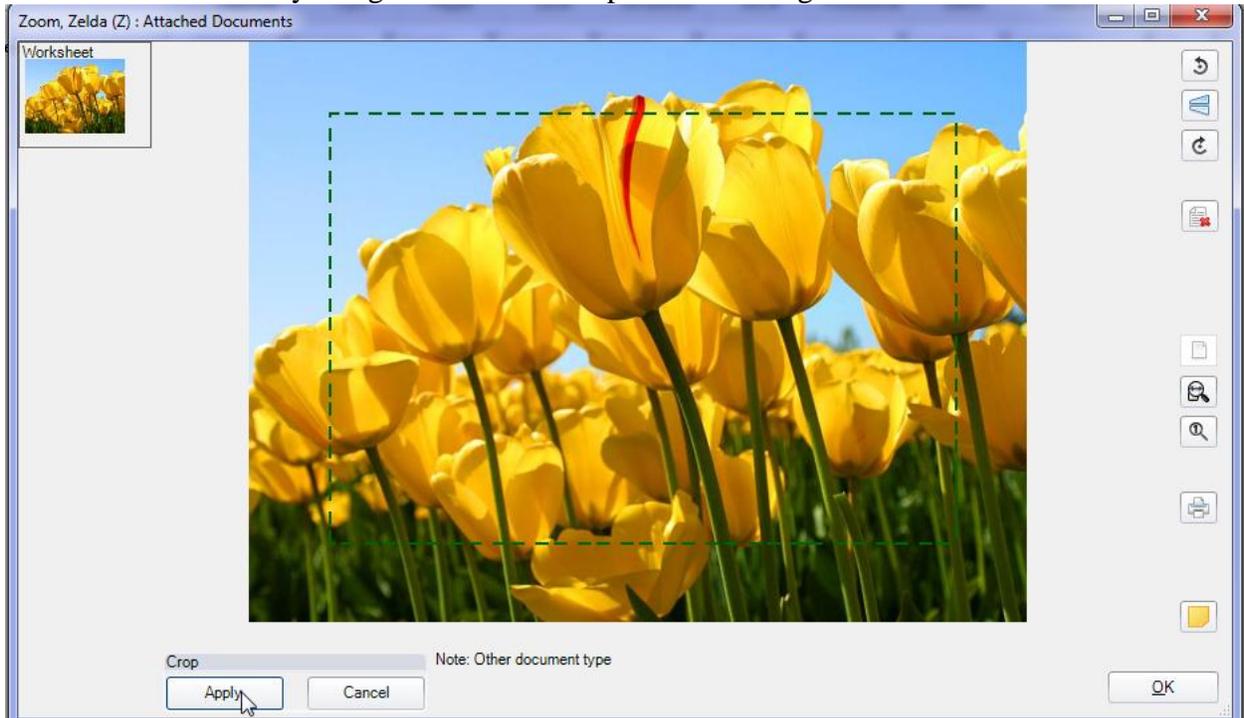


Figure 4.4.1 – Cropping attachment

4.5 Verbal Order

Patients may arrive at registration / walk-in without a written order from a referring physician, or perhaps the tech needs to change it. Since all downstream users may want or need to see the verbal order, it has been created as an attached document.

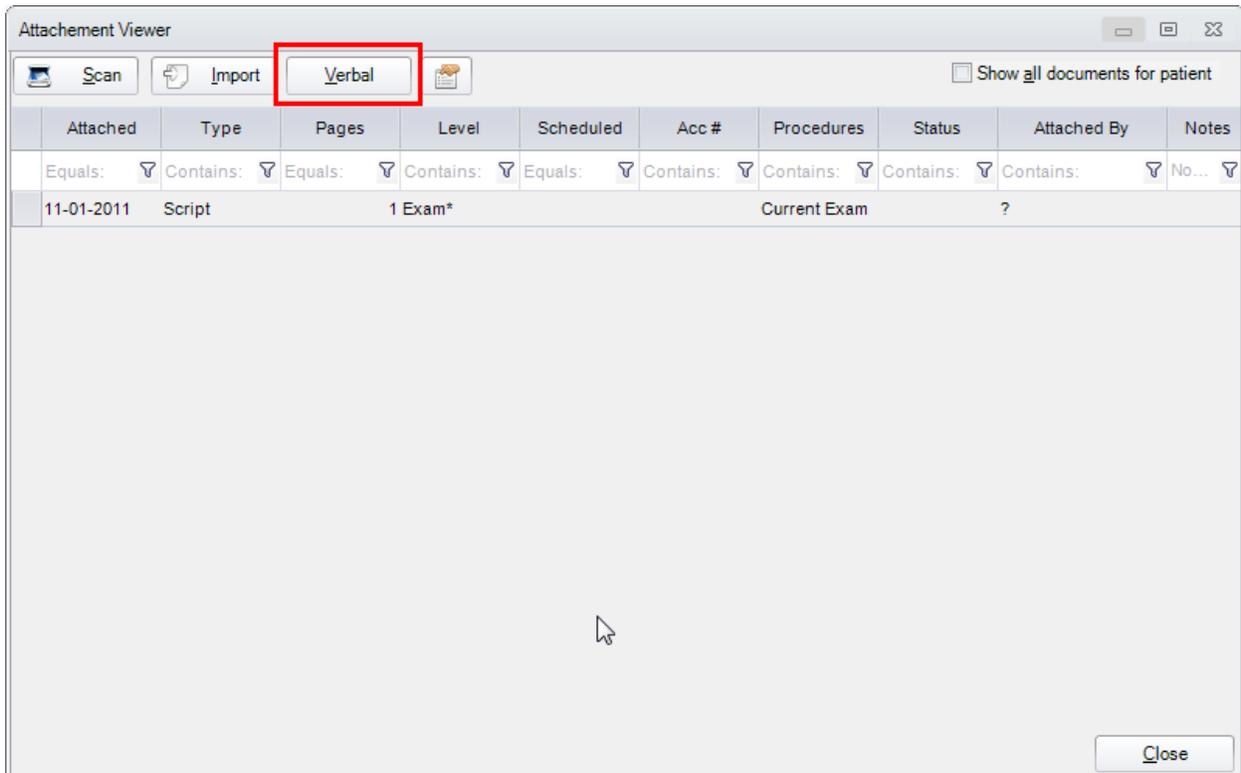


Figure 4.5.1 – Access to Verbal Order window

A Verbal Order is created by selecting the Verbal Order button from the attachment viewer. Selecting the Verbal Order button will open the Verbal Order window. Before the Verbal Order window opens, it checks for the patients data. If there is insufficient information a pop up window informs the user of the missing information.

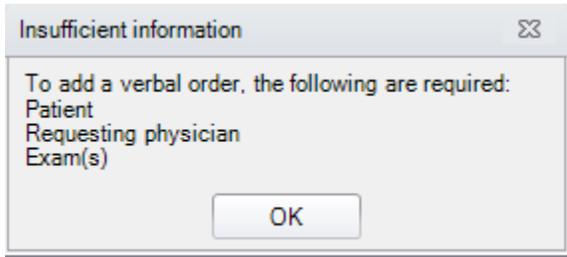


Figure 4.5.2 – Insufficient Information for Verbal Order Dialog

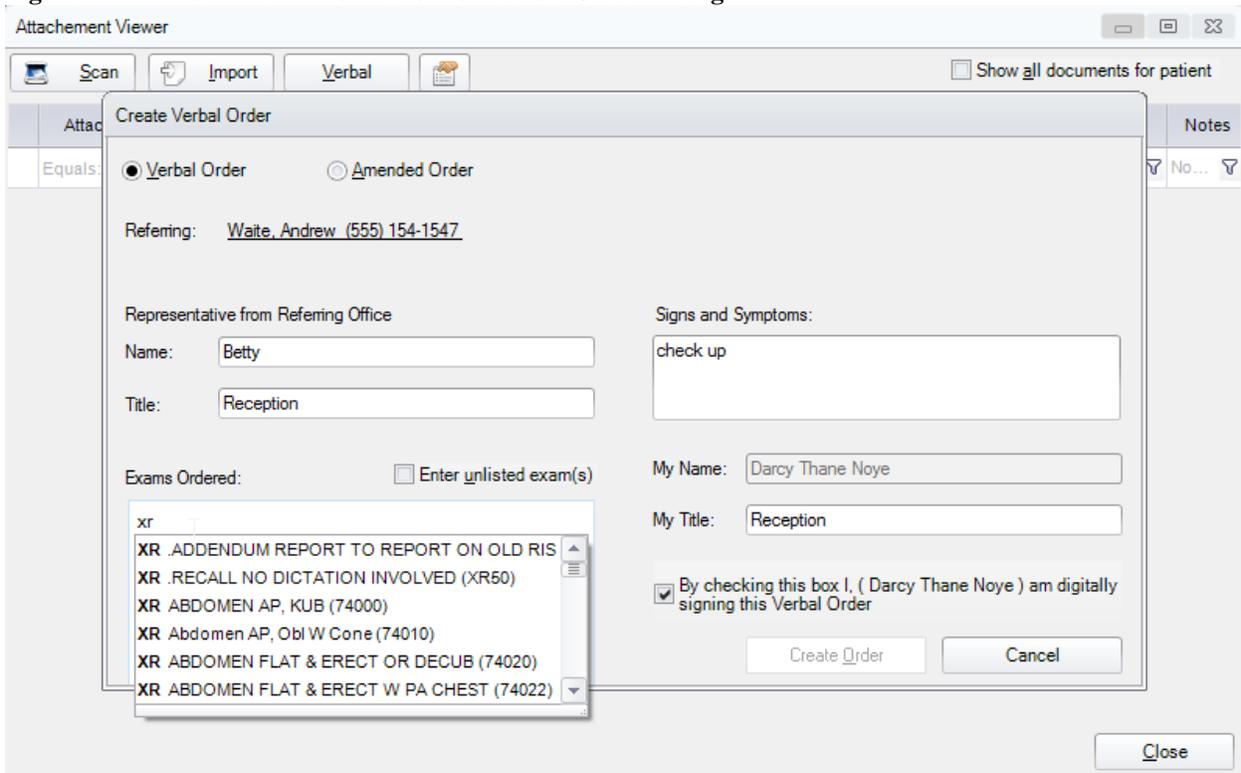


Figure 4.5.3 Creating Verbal Order

Selecting the Create Order button will render the data and save it as an attachment. The document is attached to the current order with a scan type of script. The regular attachment viewer will allow the order to be viewed.

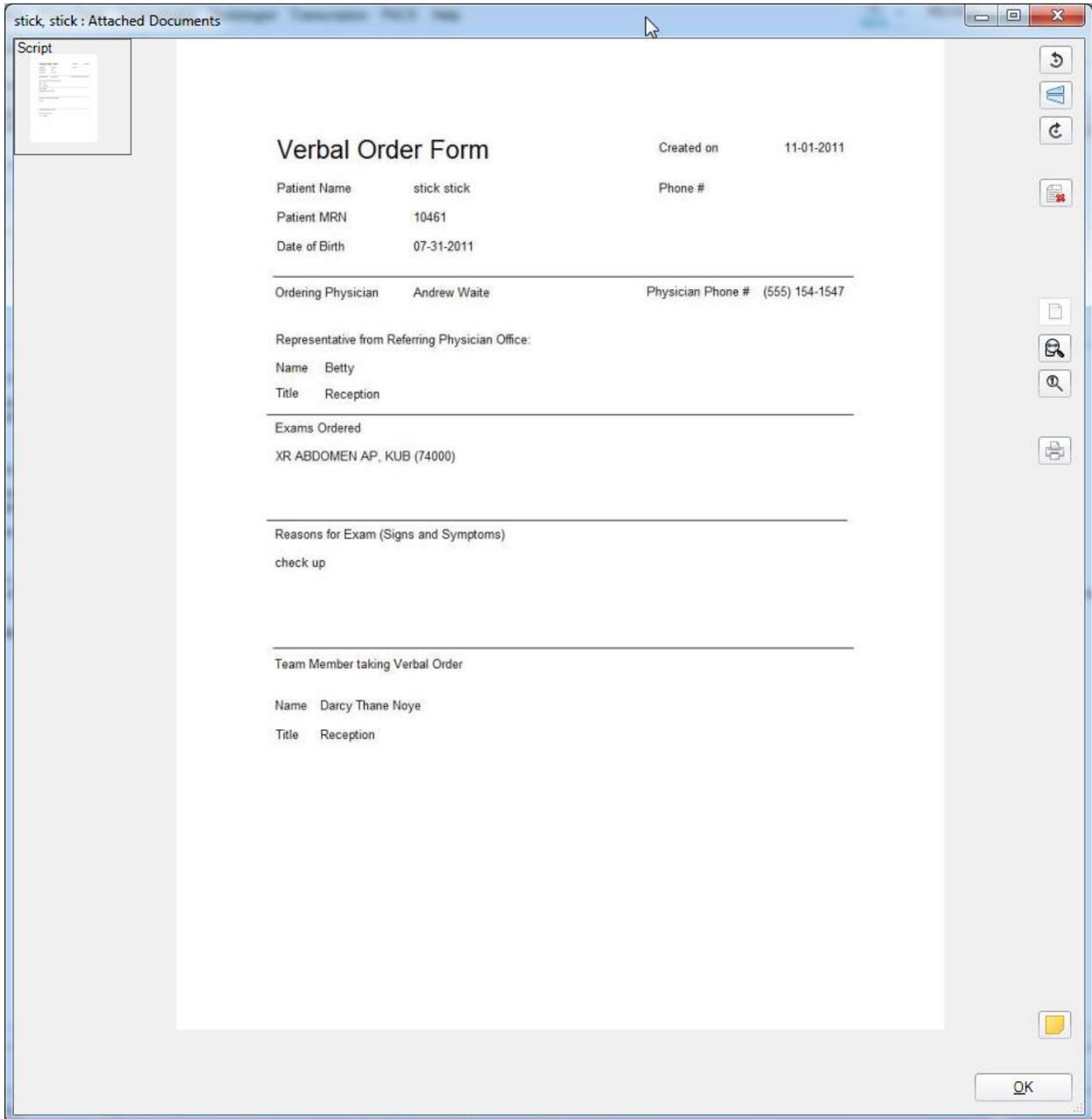


Figure 4.5.2 – Verbal Order saved as attachment

4.6 Amended Order

Utilizing the Verbal Order feature, Amended Order will also have a fill-in form type of feature that is stored as a scanned document. A radio button has been added to the verbal order screen to allow it to be switched to an amended order. Upon selecting the Amended Order radio button the label for “Signs and Symptoms” (see figure 4.5.3 above) changes to “Comments” (See figure 4.6.1 below). The rest of the workflow is the same as Verbal Order. Of course the rendered document is altered to say “Amended order” at the top, and it also has the comments field, and does not have a signs and symptoms page.

Attachement Viewer

Scan Import Verbal Show all documents for patient

Attach

Equals: Verbal Order Amended Order

Referring: Muttery, Troy (902) 548-7464

Representative from Referring Office

Name: Betty

Title: Reception

Comments: check up

Exams Changed to: Enter unlisted exam(s)

Selecting check box changes this text box to free form

My Name: Darcy Thane Noye

My Title: Reception

By checking this box I, (Darcy Thane Noye) am digitally signing this Verbal Order

Create Order Cancel

Close

Figure 4.6.1 – Creating Amended Order

Amended Order Form Created on 11-01-2011

Patient Name Buella Bree Phone
Patient MRN 10443
Date of Birth 07-21-1999

Ordering Physician Troy Muttery Physician Phone # (902) 548-7464

Representative from Referring Physician Office:
Name Betty
Title Reception

Exam(s) changed to:
Selecting check box changes this text box to free form

Comments
check up

Team Member taking Amended Order
Name Darcy Thane Noye
Title Reception

OK

Figure 4.6.2 – Amended Order saved as attachment

5. Scheduling

The scheduling role consists of numerous work lists and data windows. The following is a summary of each.

5.1 New Appointment

The New Appointment data window is accessed under the Scheduling menu.

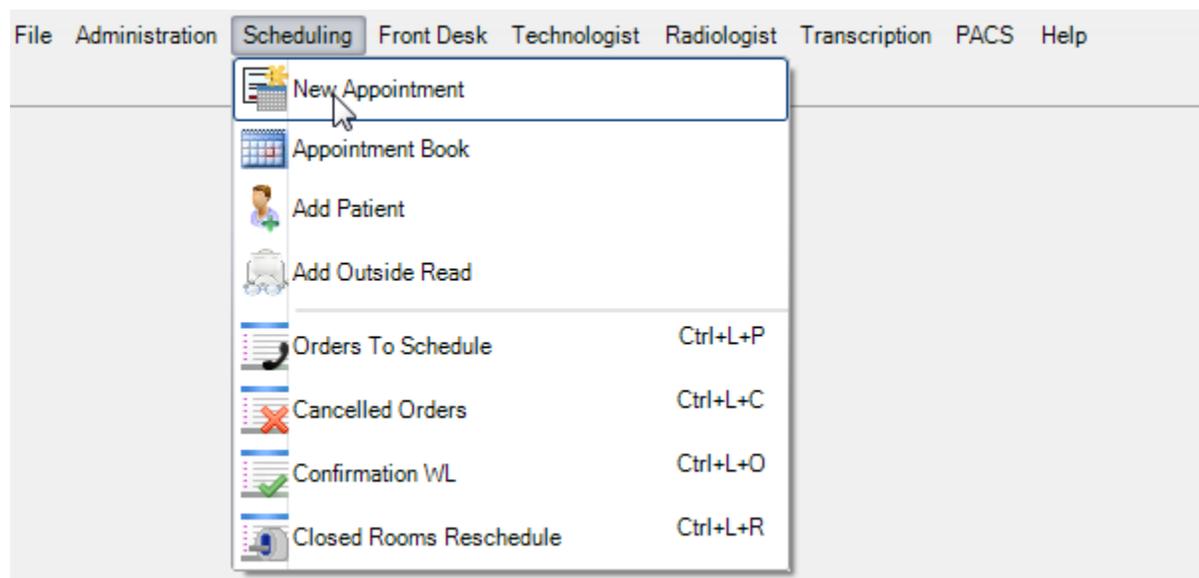


Figure 5.1 – Accessing New Appointment

The New Appointment data window is used to create new orders or scheduled appointments. Within the data window numerous pieces of information is captured about the patient, patient demographics, order details, procedure to be order/scheduled, scanned docs or attachments, image requests and also an overall review of the procedure details.

5.1.1 Patient Tab

New or pre-existing patients can be added. A search function can be used via the search Icon, or by entering patient details (first / last name or birth date) and with the focus in the last name field, hitting the enter key. Required fields on the tab are the patients first and last name, gender, and birth date. The patient MRN is a unique system generated ID.

Schedule Order (Yeesh Yolanda) x

Patient | Contacts / Demographics | Order | Schedule | Image Request (0) | Review

General Information

Prefix: [] [Patient Search] MRN: 10006 Claustrophobic

First Name: Yolanda Gender: Female

Last Name: Yeesh Birth Date: 07-21-1956 55y3m

Middle: Y Suffix: [] Place of Birth: []

Contact Information

Address 1: 132 My St. Zip: [] [] Primary Phone: (555) 555-5555

Address 2: [] Country: [] No Alternate Phone

City: Mycity Work Phone: (555) 555-5554

State: Mystate Email: yy@why.com Other Phone: (555) 555-5553

Preferred Contact Method: [] Preferred Delivery Method: Mail

Patient Origin

Primary Language: English

Education Level: College

Religion: Christian

Race: Other

Ethnicity: Unknown

Patient Notes

10-29-11 dtn - Patient notes are captured in this text box.

Save as Order Schedule Close

Figure 5.1.1 – New Appointment – Patient tab

Patient Search

Selecting the patient search Icon spawns a new window. If data entered is the first name, last name or birth date fields, this data is passed to the patient search window and a list of patients matching the criteria entered will be displayed. The patient search window can be opened by selecting the Icon or entering a value and hitting the enter key while the focus is in the last name field. Select the check box “Search Other Variations” will complete a more extensive search. Patients name “starts with” Search first, then a “sounds like” search as well as search for birthdate variations (‘12/01/1970’, ‘01/12/1970’)

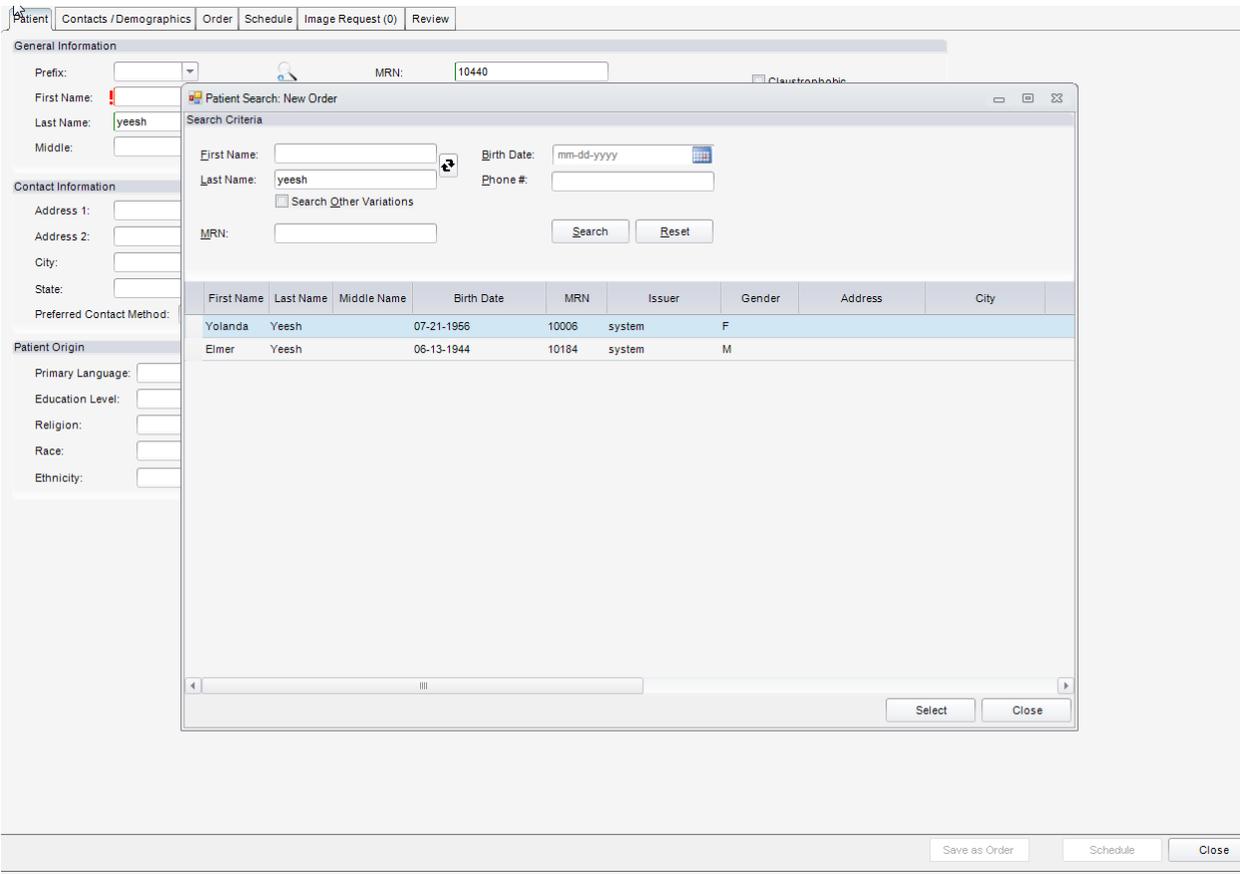


Figure 5.1.2 – Patient Search

5.1.2 Contacts/Demographics

This tab captures emergency contact information, patient demographics and people who are granted access for obtaining medical records on behalf of the patient. Starting with Responsible Party and Emergency Contact, the list box for relation contains a preconfigured list of possible relations for the responsible party. Selecting Self, will auto populate all the fields, provided the corresponding field on Patient Tab has the data completed. Spouse and child will complete all fields with the exception of First Name. The responsible part data is not required at this point, but will be required at the time of registration.

The next section on this tab called Demographics at Encounter captures patient’s specifics such as height and weight. BMI is auto calculated based on the values entered for height and weight. The pregnant flag is active for female and unknown patients. Blood pressure, smoking status and if educational resources were requested / provided may also be captured.

Schedule Order * x

Patient | **Contacts / Demographics** | Order | Schedule | Image Request (0) | Review

Responsible Party

Relation: State:
First Name: Zip:
Last Name: Home Phone: () -
Address 1:
Address 2:
City:

Emergency Contact

Relation: State:
First Name: Zip:
Last Name: Home Phone: () -
Address 1:
Address 2:
City:

Demographics at Encounter

Height: Is Pregnant
Weight: lbs
BMI:
Blood Pressure: /
Smoking Status:
 Requested Educational Resources
 Provided Educational Resources

Approved Medical Record Access

Relation	Name	Expiry	Details
----------	------	--------	---------

Previous Edit Add Remove

Figure 5.1.2 - Contacts / Demographics tab

Approved medical access is a visual confirmation for staff informing who has access to the patient’s medical records. Those approved for a patient’s medical access may be added, edited and removed from this list. The previous button will show those with expired access. The relation to patient, first and last name, addresses / phone number, expiry date for access, and details are captured in this window. Again in the relation list box, selecting spouse or child will populate the last name and address / phone number fields. If the expiry date field is left blank, this person will remain on this approved list indefinitely.

The screenshot displays the 'Add Medical Record Access' dialog box in the rRIS application. The background interface includes tabs for Patient, Contacts / Demographics, Order, Schedule, Image Request (0), and Review. The main content area is divided into several sections:

- Responsible Party:** Includes fields for Relation (Self), State (Mystate), First Name (Yolanda), Last Name (Yeesh), Home Phone ((555) 555-5555), and Address 1 (132 My St.).
- Emergency Contact:** Includes fields for Relation (Spouse), State (Mystate), First Name (Yuri), Last Name (Yeesh), Home Phone ((555) 555-5555), and Address 1 (132 My St.).
- Demographics at Encounter:** Includes Height (5ft 5in), Weight (150 lbs), BMI (24.96), Blood Pressure (125 / 78), Smoking Status (Never Smoked), and checkboxes for Requested and Provided Educational Resources.
- Approved Medical Record Access:** A table listing existing access records:

Relation	Name	Expiry	Details
Spouse	Yeesh, Yuri	12-31-2011	The patient's husband is granted medical reco...
Child	Yeesh, Yana	11-30-2011	The patient's daughter has access until end of...

The 'Add Medical Record Access' dialog box is open, showing the following fields:

- Relation: Child
- Expires on: 11-30-2011
- First Name: Yana
- Last Name: Yeesh
- Address 1: 132 My St.
- City: Mycity
- State: Mystate
- Zip: (empty)
- Phone Number: (555) 555-5555
- Fax Number: () - (empty)
- Details: The patient's daughter has access until end of November

Buttons for 'Previous', 'Edit', 'Add', 'Remove', 'OK', and 'Cancel' are visible.

Figure 5.1.3 – Add Medical Record Access

5.1.3 Order Tab

The order tab captures Referring Details, Chief Complaint, Preferred Location, Order Flags, Insurance Policy Details, and Order Notes. The referring field keeps a history of all referrers captured in previous orders for this patient and will be available for selection from the down arrow on the referrer’s field. If the referrer has one address associated, it will auto populate in the Visited At: field. If multiple addresses exist for the referrer selected, the user must select one of the possible values for that referrer. If the referrer of the Order has not been associated with this patient before, the user may search for the referrer.

The screenshot shows the 'Order' tab in the RADNET rRIS system. The 'Referring' field is set to 'Noye, Darcy T' with a search icon. A dropdown menu is open, showing two address options: '154 Workdown Dr. 1, Worktown, MD, 45742' and '951 Home St., Summerside, MD, 90210'. The 'Direct Referral (Pre-Auth Program)' checkbox is checked. Below this are fields for 'Preferred Location', 'Flags' (including STAT Exam, STAT Read, STAT Precert, Class: Outpatient, Sedation), and 'Site'. An 'Insurance Policies' table is visible with columns for Note, Carrier Code, Carrier Name, Policy Number, Group Name, Group Number, Phone, and Priority. At the bottom, there are buttons for 'Save as Order', 'Schedule', and 'Close'.

Figure 5.1.3.1 – Order Tab

The referring search window can be opened via the search Icon located to the right of the Referring field, or the name may be entered in the Referring text field and tabbing out will also open the Referring search window. If no match is found for the referrer a new “Unknown Referring Physician” can be created. Unknown referrers created are added to the Unknown Referring Work List, which is discussed later in this document. The CC Physicians and visit details work the same as the Referring Details and Visit.

You will notice below the Referring list box a check box for Direct Referral as well as (Pre-Auth Program). When a Referring Physician has this flag, the box is added to the New Appointment / Schedule Order data windows when this referrer is selected.

Similar to the Direct Referral Program flag, the Pre-Auth Program is a new flag added to Personnel that becomes active when the resource type Referring Physician flag is checked. If the ordering referring physician selected has the Pre-Auth Program flag, it will display directly under the Referring box on the order tab. The Referrer may or may not have the Direct Referral flag.

Last Name	First Name	Summary
Noye	Darcy	Direct Referral Program User: darcyn Gender: M darcy.noye@radnet.com Cell: (902) 439-6517

Figure 5.1.3.2 – Referring Search accessed from Order tab of New Appointment window

Next to the Referring Details is Chief Complaint. This is a free form text box.

Preferred location captures the Practice and Site requested.

Patient order flags that may be captured are STAT Exam, STAT Read, STAT Precert, Class of patient, Sedation type, Transportation Required and Special Accommodations. STAT Exam, Read and Precert are flags that will appear as an Icon in the flag columns of work lists.

Depending on the work list being viewed, there may also be a column. For example, the Reception work list has columns for Exam Stat and Read Stat. Patient Class code will appear in the Patient Type column of work lists. Sedation code will appear in the Sedation column of the Technologist work list. When the Transportation Required check box is selected the associated text box will become enabled. This is free form text box. If this flag is selected the patients address and primary phone number will become required fields. Selecting the Special Accommodations check box enables the associated list box and free form text box. A flag will appear in the Flags column.

Insurance policies section will display the insurance policies selected for use with this order. Selecting the Manage Policies button will open the window in Figure below

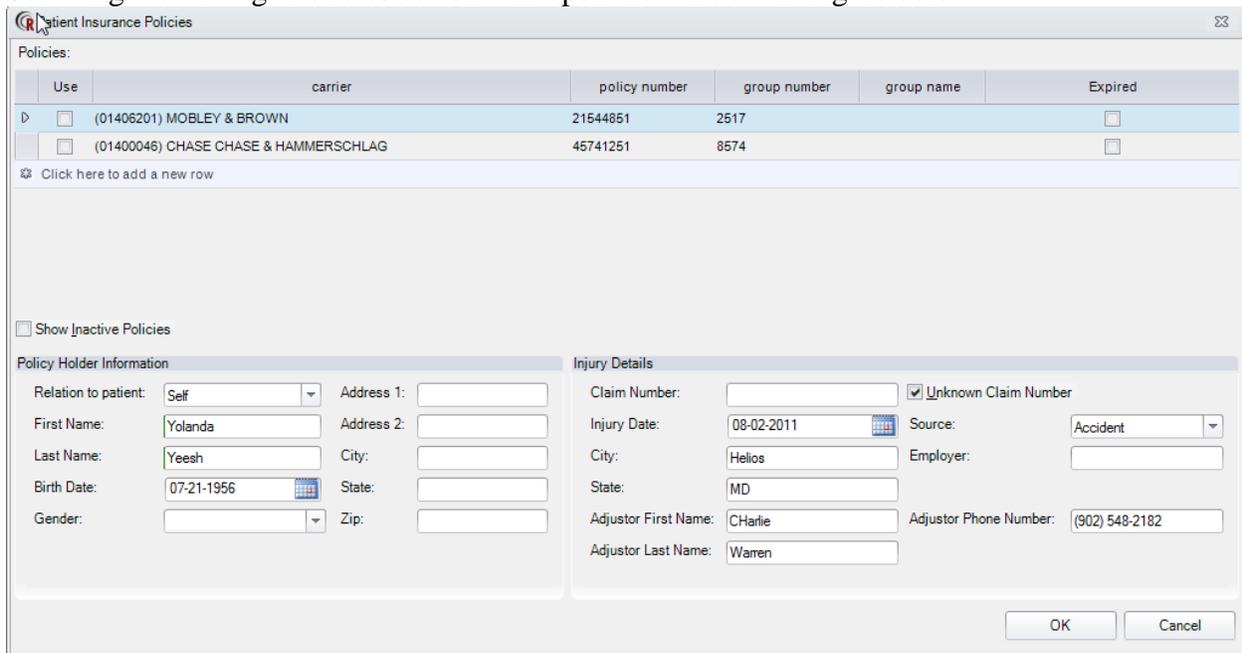


Figure 5.1.3.3 – Patient Insurance Policies window

Carriers can be entered manually or by using the search function. To enable the search Icon the user must first select a row under the Carrier column or entering a partial name and hitting the enter key will also open the search window. If the user knows the Carrier code or phone number, this also can be entered and upon hitting the Enter key, the Carrier name will populate the Carrier column. For each carrier selected for the patient a policy number must also be entered. The policy number mask may have a mandatory mask. In the event that the policy mask is wrong and the patient insurance policy does not fit the mask, the user can prefix the policy with a “+” character to bypass the policy mask. Any study with an insurance policy that begins with a “+” will be flagged as a billing exception and held until the “+” is removed.

For each carrier added the Policy Holder Information details are to be completed. The only required fields are the patients first and last name. As like other areas of the application the list box Relation to patient has values such as Self that will auto populate the remaining fields based on the data existing for the patient. Select spouse or child will complete all field with the exception of first name.

Some carriers will require that the Injury details are captured. If this is standard for the carrier, the Claim number is a must. If at the time the order is being placed the claim number is not known, the user may temporarily bypass it by selecting the Unknown Claim check box.

The adjustors first and last name as well as phone number can also be captured in this section.

5.1.4 Schedule Tab

The schedule tab captures the order the procedure belongs to, the procedure to be completed , a daily calendar view which can be used to pick the time for the exam and Icon to open the attachment viewer. The information added can be saved as an order or as a scheduled exam. Depending on the procedure selected, the Laterality may be required. If the time(s) selected are available the scheduled date will have a green outline. If the time slot(s) are locked by another user on the system, the outline of the scheduled date will be red. Once the exam is scheduled the time will no longer display in the search.

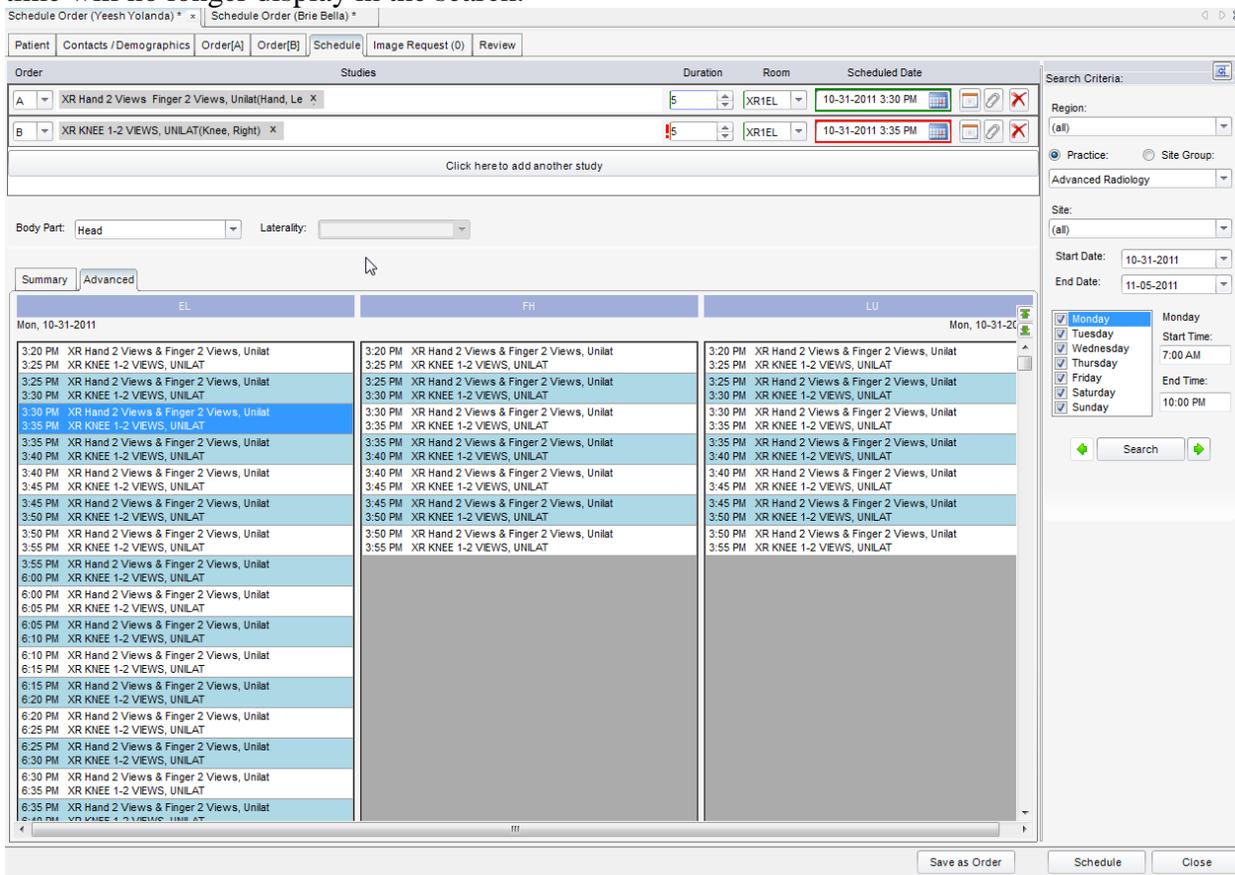


Figure 5.1.4.1 – Schedule tab

The user has the option to select the calendar view (calendar Icon next the scheduled date on procedure picker row) and select the date and time the exam is to be completed or they can use the advanced search criteria on the right of the data window. Selecting the search button will populate the rooms and time available on the advanced tab. The summary tab will give an overview of the times available based on morning, afternoon and evening.

Summary		Advanced			
EL		FH		LU	
Mon, 10-31-2011		Mon, 10-31-2011		Mon, 10-31-2011	
Afternoon	3:00 PM	Afternoon	3:00 PM	Afternoon	3:00 PM
Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM
Evening	6:00 PM				
Tue, 11-01-2011		Tue, 11-01-2011		Tue, 11-01-2011	
Morning	7:45 AM	Morning	7:45 AM	Morning	7:45 AM
Mid Morning	10:30 AM	Mid Morning	10:30 AM	Mid Morning	10:30 AM
Afternoon	1:00 PM	Afternoon	1:00 PM	Afternoon	1:00 PM
Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM
Wed, 11-02-2011		Wed, 11-02-2011		Wed, 11-02-2011	
Morning	7:45 AM	Morning	7:45 AM	Morning	7:45 AM
Mid Morning	10:30 AM	Mid Morning	10:30 AM	Mid Morning	10:30 AM
Afternoon	1:00 PM	Afternoon	1:00 PM	Afternoon	1:00 PM
Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM
Thu, 11-03-2011		Thu, 11-03-2011		Thu, 11-03-2011	
Morning	7:45 AM	Morning	7:45 AM	Morning	7:45 AM
Mid Morning	10:30 AM	Mid Morning	10:30 AM	Mid Morning	10:30 AM
Afternoon	1:00 PM	Afternoon	1:00 PM	Afternoon	1:00 PM
Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM	Mid Afternoon	3:30 PM

Figure 5.1.4.2 – Summary tab of advanced search

The paper clip icon located on the procedure picker row will open the attachment view window. Attachments are covered in Section 4 of this document.

5.1.5 Image Request Tab

The Image Request tab is a work list view displaying the request for images for the current scheduled procedure. When creating a new appointment, the image requests will only be saved if the procedure is scheduled. If the procedure is saved as an order a message prompt will inform the user that if saved as order all image requests will be removed. From this tab the user may add, edit or remove edit requests. The user may also print the release form. Creating Image requests will be covered later in this document.

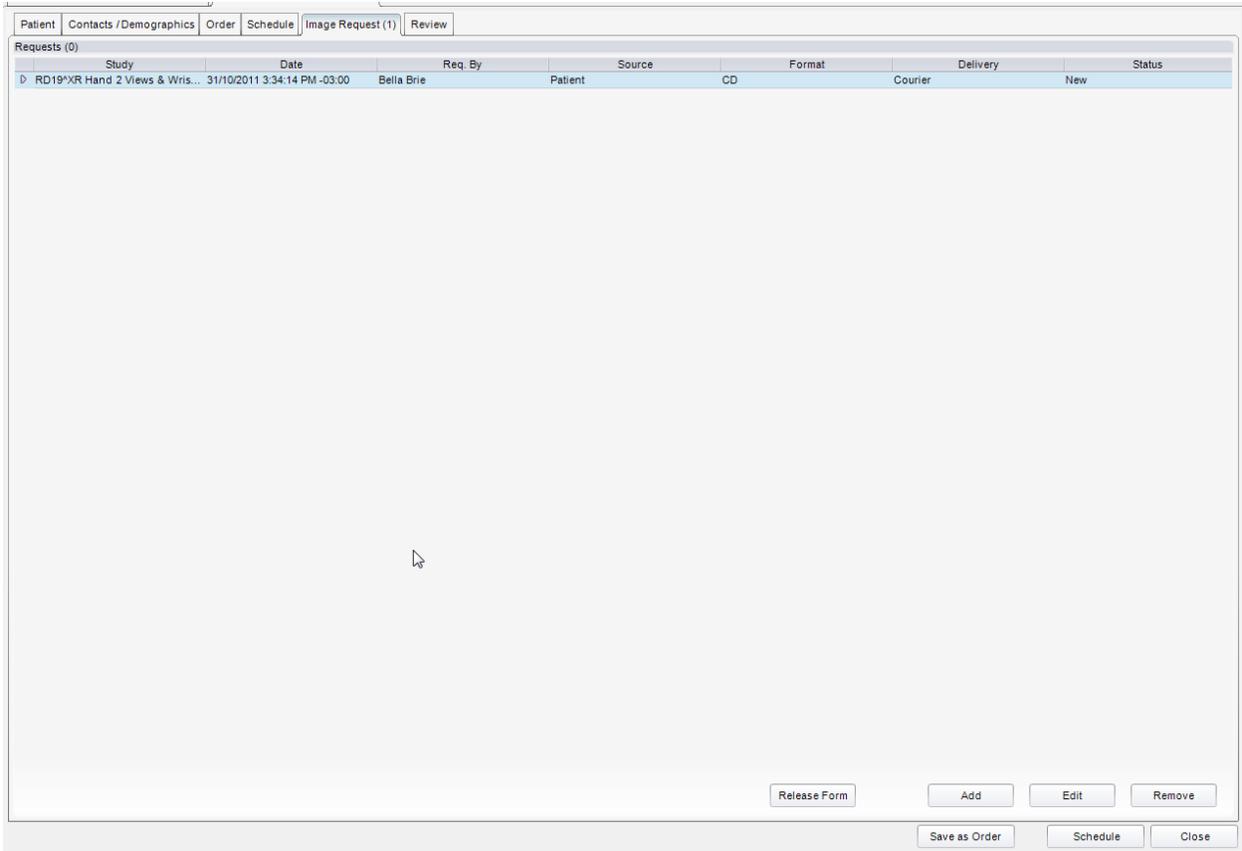


Figure 5.1.5.1 – Image Request tab

5.1.6 Review Tab

The review tab is a convenience tab that allows the user to get an overall view of the order that is to be placed. The patient name, procedures, procedure codes, the site address where the procedure is to take place, and the prep instructions.

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The screenshot displays the 'Review' tab of the rRIS interface. At the top, there are navigation tabs: Patient, Contacts / Demographics, Order[A], Order[B], Schedule, Image Request (0), and Review. The main content area is divided into several sections:

- Patient Information:** Patient: Yolanda Yeesh is scheduled for a
XR Hand 2 Views & Finger 2 Views, UNILAT on: Monday October 31, 2011 at 3:30 PM for: 5 minutes at: Eldersburg
- (73120) RADIOLOGIC EXAMINATION, HAND; 2 VIEWS
- Exam Details:** XR KNEE 1-2 VIEWS, UNILAT on: Monday October 31, 2011 at 3:35 PM for: 5 minutes at: Eldersburg
- (73560) RADIOLOGIC EXAMINATION, KNEE; 1 OR 2 VIEWS
- Address:** Eldersburg
1430 Progress Way
Suite 108
Eldersburg MD 21784
- Prep Instructions:** Prep Instructions Reviewed
- General XR / General CT:**
 - 1 of 2: General XR
All children must be accompanied by an adult other than the patient
 - 2 of 2: General CT
Weight limit 450 lbs at most sites. No solids 2 hrs prior
- Screening Questions:**
 - Have you ever had an iodine injection before?
 - If so have you had any problems with the injection?
 - (if so consult technologist)
 - Asthma?
 - (if so, tell patient to bring their inhaler)?
 - Ask if Diabetic? If so, what meds do they take?
 - If pt takes oral meds for diabetes refer to memo date 7-10-08 and follow necessary instructions.
 - For Oral Prep please see memo dated 10-14-2008 and follow protocol
 - Ask pt about pregnancy?
- Scheduling Note:** If patient is scheduling both a CT and MR WITH contrast and answers NO to all screening questions then the procedures may be scheduled on the same day. If the patient answers YES to any of the questions then the procedures MUST be scheduled on separate days and the MR must be scheduled first.
- Final Note:** All children must be accompanied by an adult other than the patient

At the bottom right of the window, there are three buttons: Save as Order, Schedule, and Close.

Figure 5.1.6.1 – Review tab

5.2 Orders to Schedule work list

Figure 5.2.1 shows the Orders to schedule work list. This work list contains a complete list of orders in the rRIS system to be processed to scheduled studies. Actions that may be completed from the buttons in lower right of this work list are to schedule the order, Registration to “check in” or “arrive” the patient, Edit Order and Mark Order. The context menu provides a few more options to the user. Schedule, Mark Order, Edit orders are also options as well as the ability to cancel the order, access patient folder, an audit history of the order, and copy the contents of a particular cell.

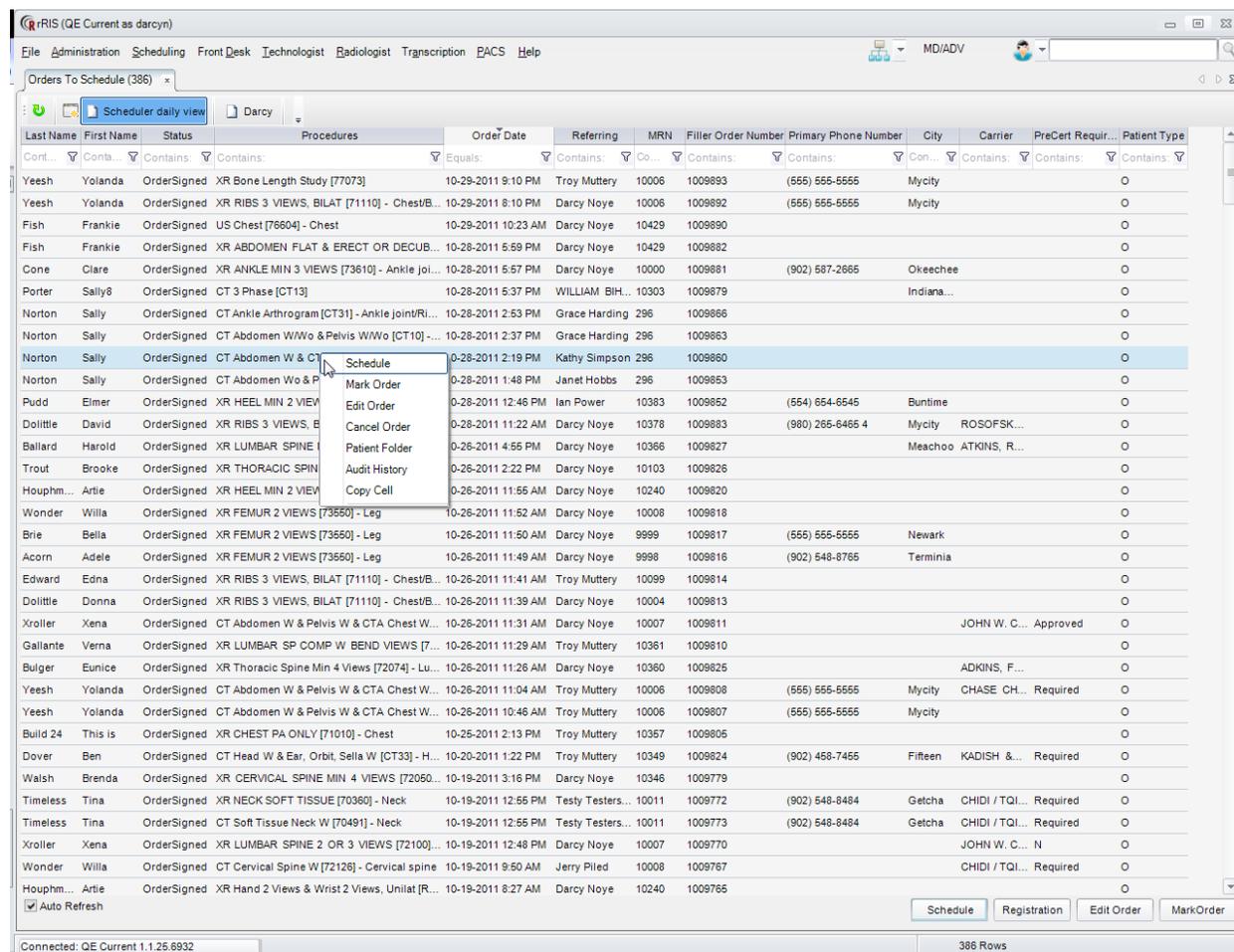


Figure 5.2.1 – Orders to Schedule work list.

5.2.1 Schedule from Orders to Schedule

Selecting the schedule button from the Orders to Schedule work list will open the Schedule Order data window. The tabs and fields are the same as New Appointment with a few differences.

The first difference you will notice is the data window tab is appended with the patient’s name. In figure 5.2.1.1 you will see the Schedule Order window open on a patient record from the Orders to Schedule work list. To compare I have opened New Appointment data window next to it. Notice the tab name is Schedule Order.

Another difference is button actions at the bottom of the data window. The Schedule Order (patient name) data window has the option to “Save” or “Cancel”, where New Appointment they are “Save as Order”, “Scheduled” and “Close”

The final difference you will notice is that the Schedule Order (patient name) already contains the data for patient, order, and the procedure selected.

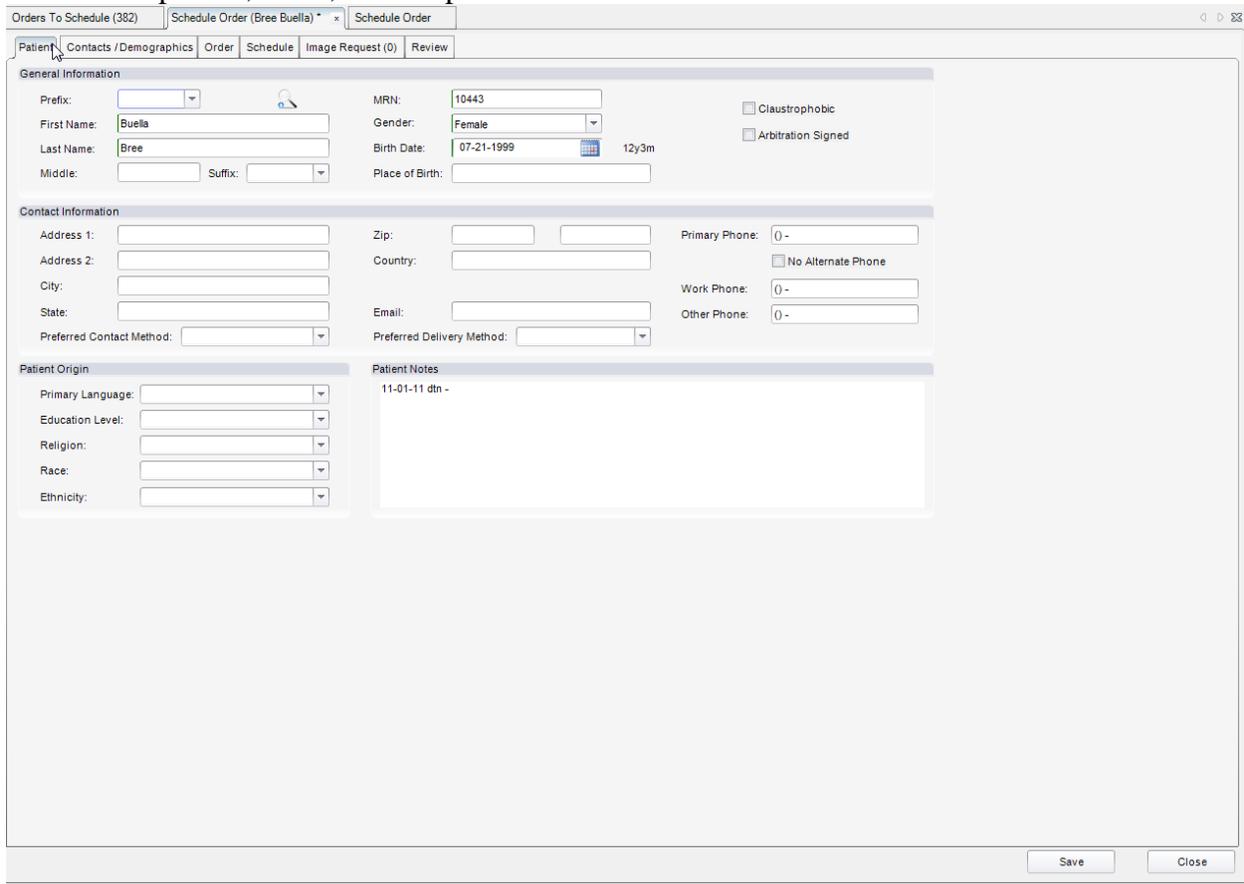


Figure 5.2.1.1- Schedule Order data window from Orders to Schedule

If the Order being scheduled is from an outside ordering system the application will determine if the order to be scheduled was received from an external system. It will compare the “Issuer of

ID” with our internal, configurable value. If the “issuer of ID” does not match, the user is prompted with a message

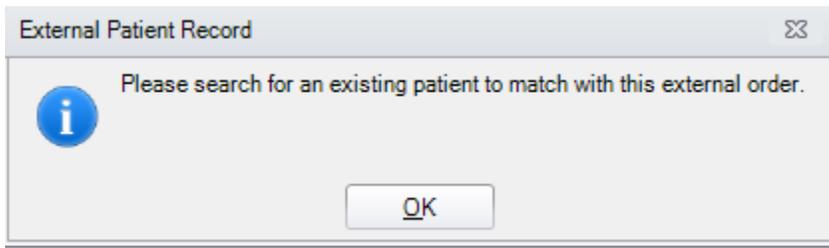


Figure 5.2.1.2 – External Patient Record – User is informed the order is from an external system

Selecting OK will automatically open the patient search window displaying any matches and will also search for “Other Variations” of the name. As with the previous build, the user can try alternate search criteria (e.g. reversing the first and last name), if no patient matches are found the user may create a new patient from the “Patient Search New Order” window.

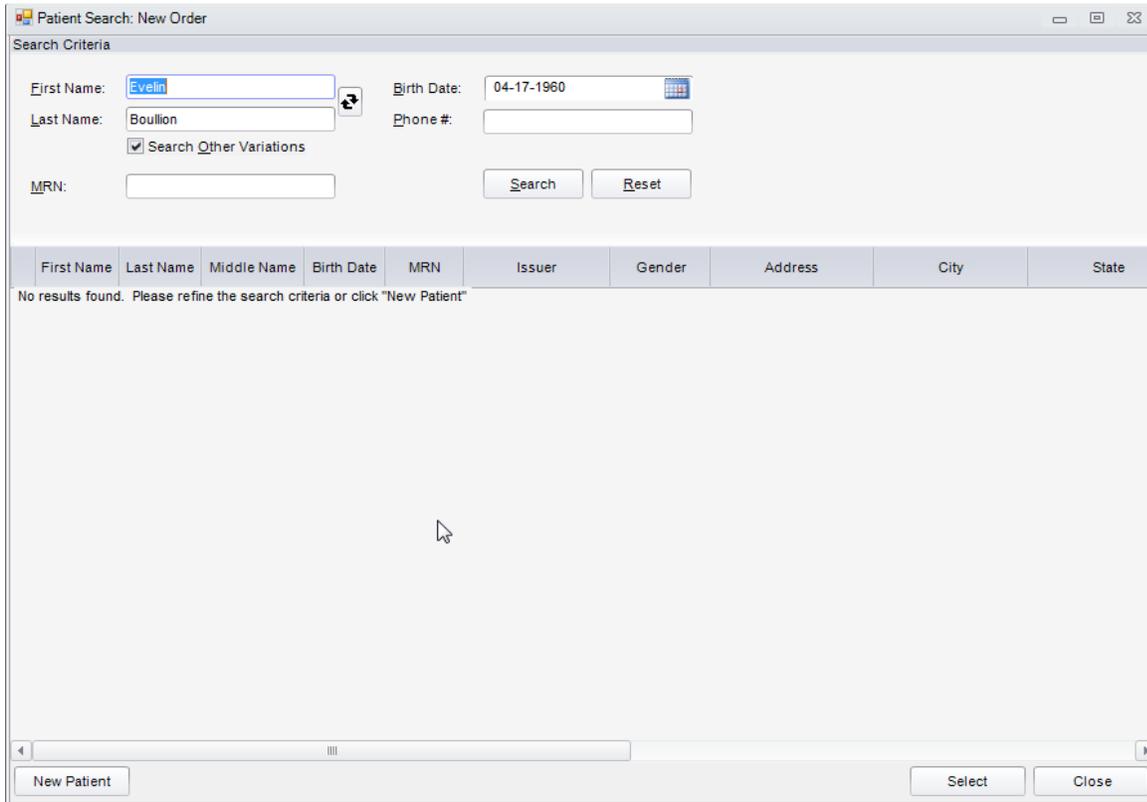


Figure 5.2.1.3 – Patient Search New Order

If the “New Patient” button is selected, the Schedule Order (patient name) will open. The user may proceed as if they were creating a new patient. This will issue an rRIS MRN for future orders. The patient record provided from the EMR is retained, and future messages coming in from the EMR will automatically reference the newly created internal patient. **Note:** if the user closes the search screen without selecting or creating a patient, the Schedule Order screen will close and the user will be returned to the “Orders to Schedule” work list.

If the Patient Search New Order does find a match to an existing patient record, the user must determine if they are indeed the same person. If an internal match is found, it will appear in the search window. The user can press select to associate the current order with our internal patient and establish a link between them. If the user selects an existing patient record, they will be presented with be prompted to confirm.

5.2.2 Edit Order

The Edit Order action button opens the data window. Within this data window the user has the ability to view or edit the Patient tab information, Attachments (or scan docs), and the Order information.

5.2.2.1 Patient Tab

The Patient tab is exactly the same as Schedule Order

5.2.2.2 Attachments Tab

The Attachments tab is a work list view of the imported or scanned documents. The user can view the attachments for this order, or view all attachments for this patient by adding a check to the “Show all documents for patient”. Actions from this tab are Scan, Import or access advance properties for attachments.

The work list view of the attachments informs the user of the date, type, number of pages, the level of the attachment (such as Patient level, Exam level), who attached the document, and notes associated with the attachment. This is indicated by a notepad Icon. A double mouse click on the Attachment row will open the attachment. The complete function and how to use Attachments is covered in Section 4 of this document.

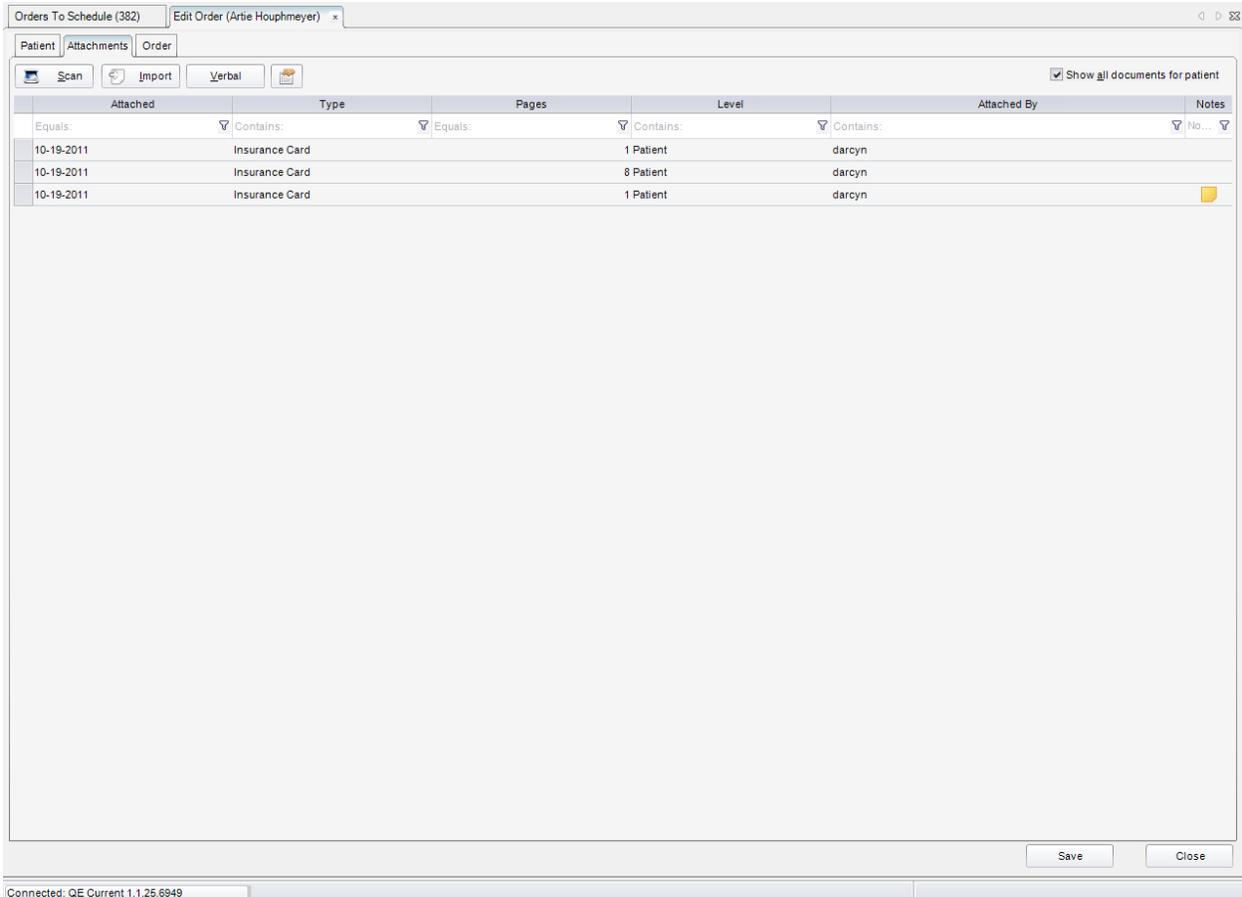


Figure 5.2.2.2.1 – Edit Order - Attachments tab

5.2.2.3 Order tab

The Order tab from Edit Order has the same fields as Schedule Order with the addition of the Exam Requested where studies may be added and removed, and Body Part and Laterality specified.

Figure 5.2.2.3.1 – Order Tab from Edit Order

5.2.3 Registration

The Registration data windows from Orders to Schedule are the same as Registration from the Reception work list. This is covered in section 5.3 of this document.

5.2.4 Mark Order

The Mark Order data window is a limited use data window designed for a few select sites that utilize this work flow. Most users will not have access to this work flow as it will be disabled. The actions from this data window are limited as what can be added / edited. Selecting the save button will schedule the Order with the current time and date.

Figure 5.2.4.1 – Mark Order

5.2.5 Context Menu

The context menu offers the actions of the buttons discussed above, as well as the ability to Cancel Order, Patient Folder, Audit History, and Copy Cell. Schedule, Mark Order and Edit Order have already been discussed. Patient Folder and Audit History will be discussed later in this document.

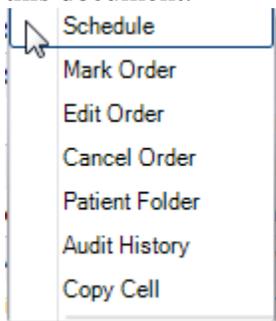


Figure 5.2.5.1 – Orders to Schedule Context Menu

5.2.5.1 Cancel Order

Selecting Cancel Order from context menu will open the Cancel Order data window as shown in Figure 5.2.5.1.1. The message in the window displayed informs you of the patient and exam for the patient selected. A reason for cancelled the order must be chosen from the list provided to enable the OK button. Upon selecting OK this order will be removed and added to the Cancelled Orders work list.

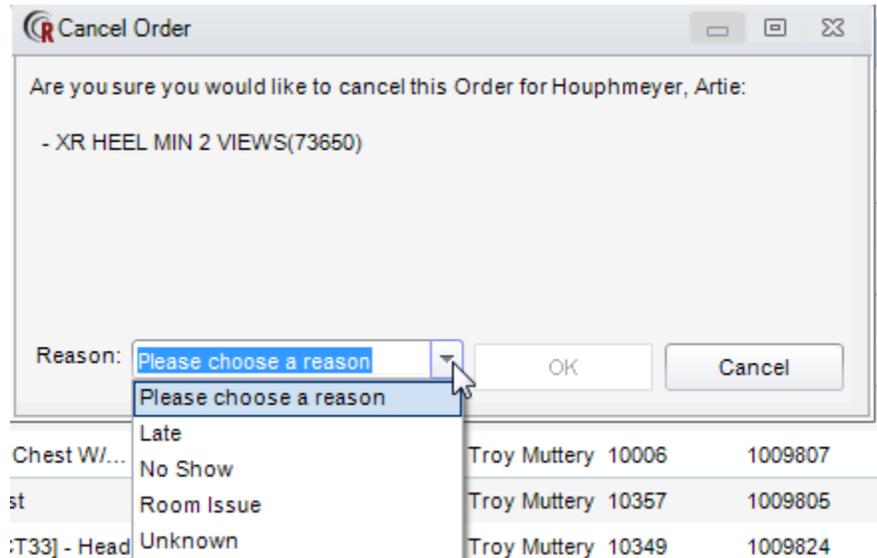


Figure 5.2.5.1.1 – Cancel Order

5.3 Appointment Book

The Appointment Book gives a view of the scheduled exams by day. The calendar view data window may be filtered by Region, Practice or Site Group, Site, Modality, Room and of course Date. The view of the calendar can be compressed using the Interval option. The exams in the view are color coded giving the user an easy reference of the status for each. A legend of the colors can be found on the bottom of the work list.

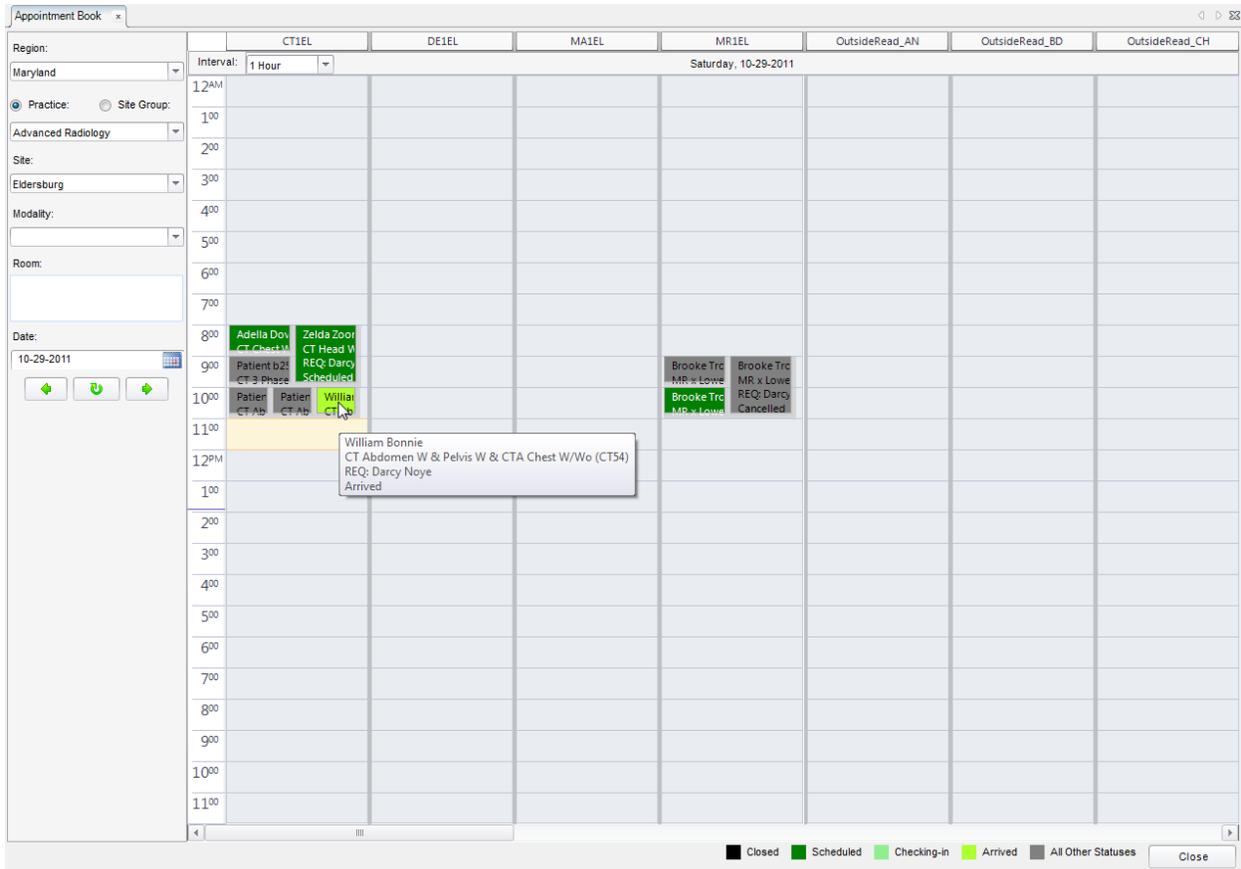


Figure 5.3.1 – Appointment Book view

If the time interval is increased it becomes difficult to read the entirety of the exam. Hovering the mouse over the exam will display a tool tip so the information may be read.

A user may schedule a new exam or reschedule an existing exam from this work list. A double mouse click on a blank time slot will open the Edit Schedule window and a new exam can be scheduled. Double mouse click on an already existing exam will also open the edit exam window. Changes can be made to the exam and saved as a new scheduled exam, save it as an order, or cancel.

5.4 Add Patient

Add patient is a simple data window that accepts user input, with no search functionality. The user will have to perform a patient search before taking the action to create a new patient. The MRN is a unique system generated ID.

The patient tab has 4 different sections capturing patient data.

The General Information section captures the patients name, gender and date of birth.

Contact Information section captures address, phone numbers, email address, and preferred methods of contact and delivery method.

Patient Origin section captures the patient’s primary language, education, religion, race and ethnicity.

Lastly Patient Notes are captured in a free form text box.

The screenshot shows a web application window titled "Add Patient (William Bonnie) * x". The window has two tabs: "Patient" (selected) and "Attachments". The "Patient" tab is divided into four sections:

- General Information:** Includes fields for Prefix (dropdown), MRN (10454), First Name (William), Gender (Male), Last Name (Bonnie), Birth Date (05-14-1973), Middle (dropdown), Suffix (dropdown), and Place of Birth (text box).
- Contact Information:** Includes Address 1, Address 2, City, State, Zip, Country, Email, Preferred Contact Method, Preferred Delivery Method, Primary Phone, Work Phone, and Other Phone. There is a checkbox for "No Alternate Phone".
- Patient Origin:** Includes dropdown menus for Primary Language, Education Level, Religion, Race, and Ethnicity.
- Patient Notes:** A large text area containing the text "10-31-11 dtn -".

At the bottom right of the window are "Save" and "Close" buttons.

Figure 5.4.1 – Add Patient data window displaying Patient tab

The attachments tab allows the user to scan or import any relevant documents. Each document attached to the patient will display in a work list fashion on this tab. The patient and Attachment tabs are very similar throughout the application.

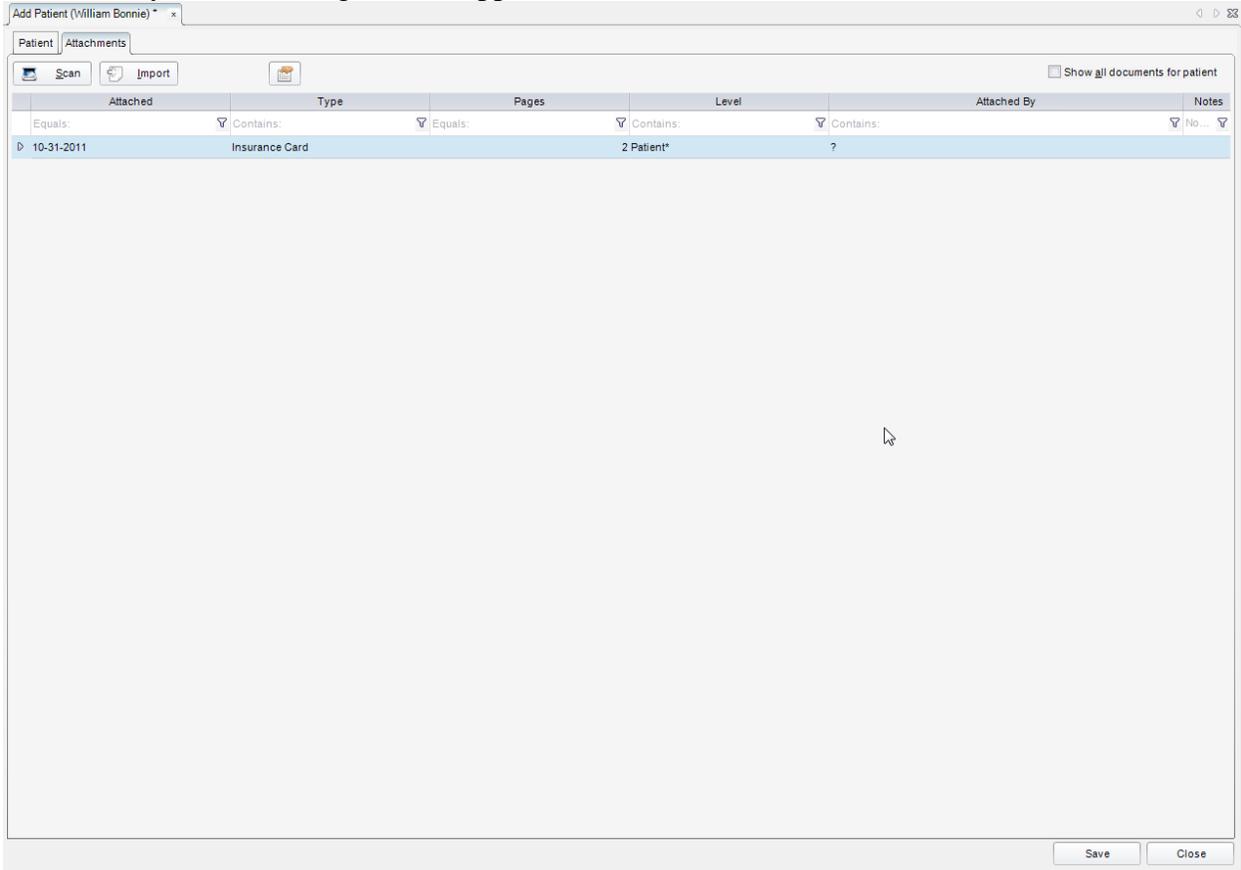


Figure 5.4.2 Add Patient data window displaying Attachments tab

5.5 Add Outside Read

Professional Only workflow outside reads – a new data window was added under the Scheduling menu.

“Add Outside Read” will open a new window that will allow the user to:

- Search or add a new patient.
- Data entry for exam date, order notes, stats, indications, referring, practice, etc.
- Entry for the exam location using the site field (required).
- Enter a list of studies for the order.
- Scan Documents for each study.

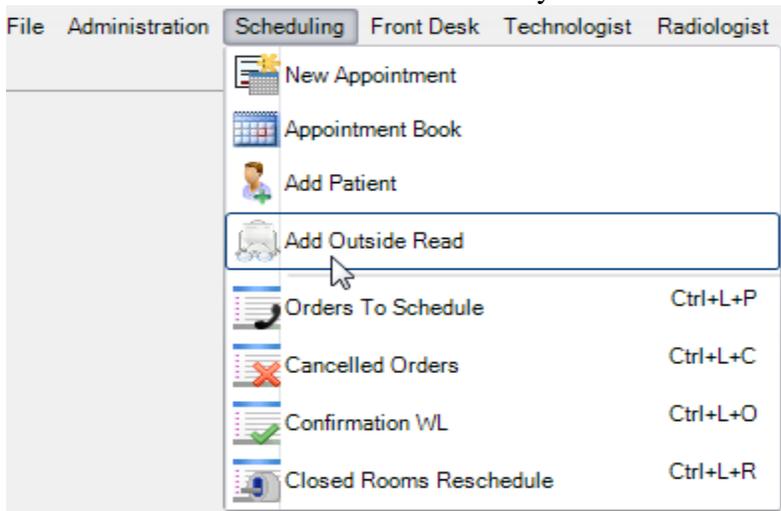


Figure 5.5.1 – Add Outside Read menu option

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Add Outside Read * x

Patient | Order

General Information

Prefix: [] MRN: 10455 Claustrophobic
First Name: Farley Gender: Male
Last Name: Howatt Birth Date: 12-28-1958 52y10m Verified ID
Middle: [] Suffix: [] Place of Birth: []

Contact Information

Address 1: [] Zip: [] [] Primary Phone: 0 - []
Address 2: [] Country: [] No Alternate Phone
City: [] Work Phone: 0 - []
State: [] Email: [] Other Phone: 0 - []
Preferred Contact Method: [] Preferred Delivery Method: []

Patient Origin

Primary Language: []
Education Level: []
Religion: []
Race: []
Ethnicity: []

Patient Notes

10-31-11 dtn -

Save Close

Figure 5.5.2 – Patient tab of Add Outside Read data window

The screenshot shows the 'Add Outside Read' data window with the 'Order' tab selected. The window contains several sections:

- Study(s):** A text box containing 'XR, RECALL NO DICTATION INVOLVED'.
- Body Part:** A dropdown menu.
- Laterality:** A dropdown menu.
- Exam Date:** A date field set to '10-31-2011'.
- Tech Notes:** A text area.
- Referring Details:** Includes 'Referring:' (Noye, Darcy T), 'Visited at:' (154 Workdown Dr., 1, Worktown, MD, 45742), and 'CC Physicians:'.
- Chief Complaint:** A text area containing 'Hypochondriac'.
- Performed Location:** Includes 'Practice:' (Advanced Radiology) and 'Site:' (OutsideMed).
- Flags:** Checkboxes for 'STAT Read', 'STAT Precert', and 'Outside Read' (checked).
- OrderNotes:** A text area with the note '10-31-11 dtn - This section is for entering the Order Notes.'

Buttons for 'Save' and 'Close' are located at the bottom right of the window.

Figure 5.5.3 – Order tab of Add Outside Read data window

Once the information for the Outside Read has been added to the data window, the study will be moved directly to Exam Done status and are ready for dictation, transcription and signing.

Administrators will need to create one modality for each modality type. These modalities created do not have to be assigned to scheduling groups (sites) also the Outside Read Modalities can be marked as inactive. If the modality does not exist a message will inform the user with a list of modalities the administrator will need to create.

In the organization screen for site, the field “outside_read_location_flag” has been added. When this flag is set those sites will not show up in the other Scheduling screen’s schedule/reschedule inputs for site. And on the “New Outside Read” only the sites for outside reads will be displayed.

Site

Site Code: Active

Description:

Phone #:

Fax #:

Printer:

PACS Server:

Template:

Outside Read Location

Site Notes:

Contact

Contact Name:

Phone #:

Mobile #:

Fax #:

Email:

Contact Notes:

&Address

Address 1:

Address 2:

City:

State:

Zip Code:

Load Logo

Delete Logo

Save Close

Figure 5.5.4 – Outside Read Site needs to be created.

5.6 Confirmation work list

The Confirmation work list is a daily view work list that displays the contents of the days scheduled procedures. As a patients is confirmed the record will be removed from the work list, but remains on the days Reception work list. The options from this work list are Confirmation and Reschedule using the buttons in the lower right of the work list. A context menu also gives the user options to edit patient, access forms and labels, access patient folder, audit history, and to copy the contents of a cell.

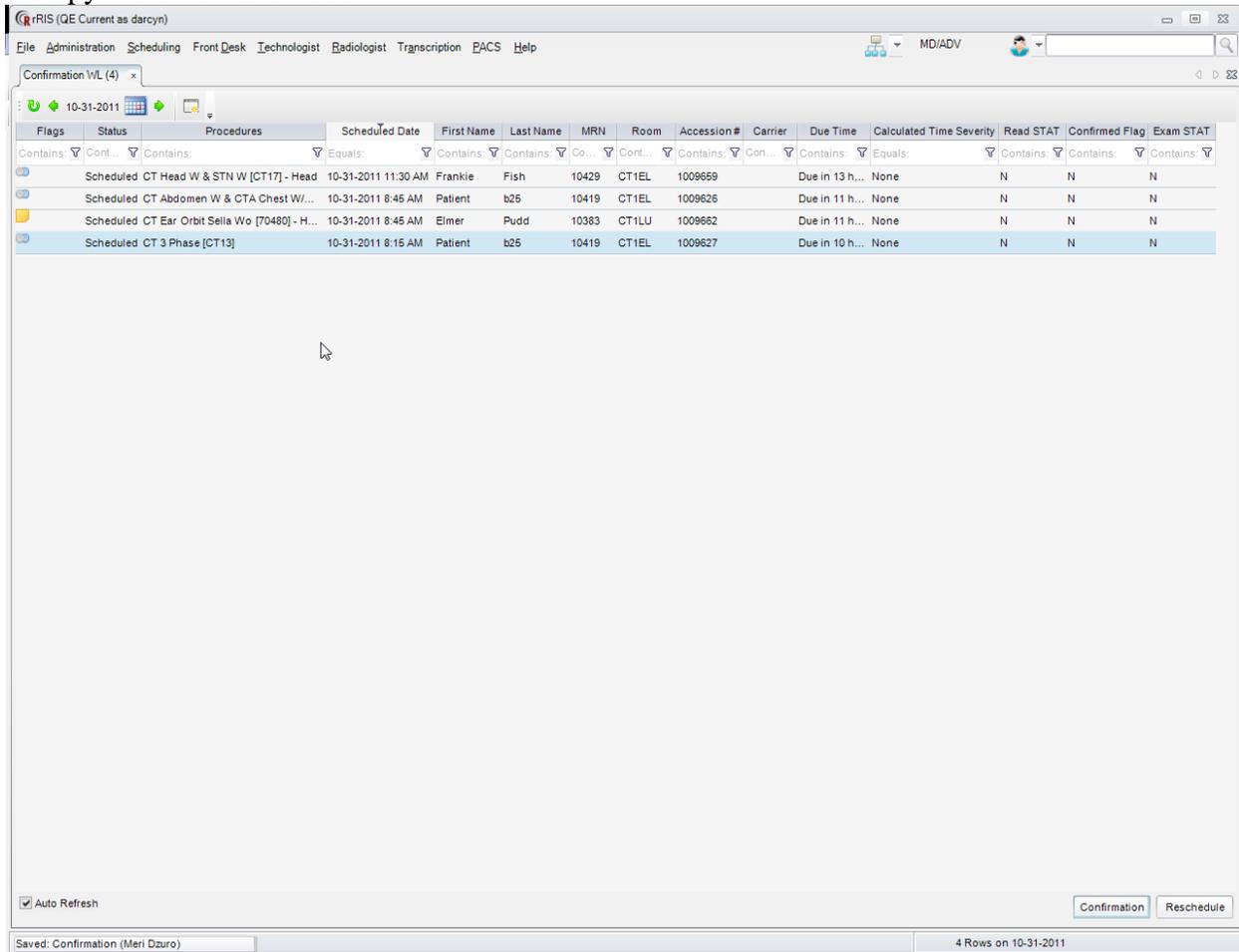


Figure – 5.6.1 – Confirmation work list

5.6.1 Confirmation data window

Selecting the Confirmation button from the work list will open the Confirmation (patient name) data window. If patient has multiple exams scheduled for that day the user will be prompted with message asking if they would like open the other order along with the one you are currently opening.

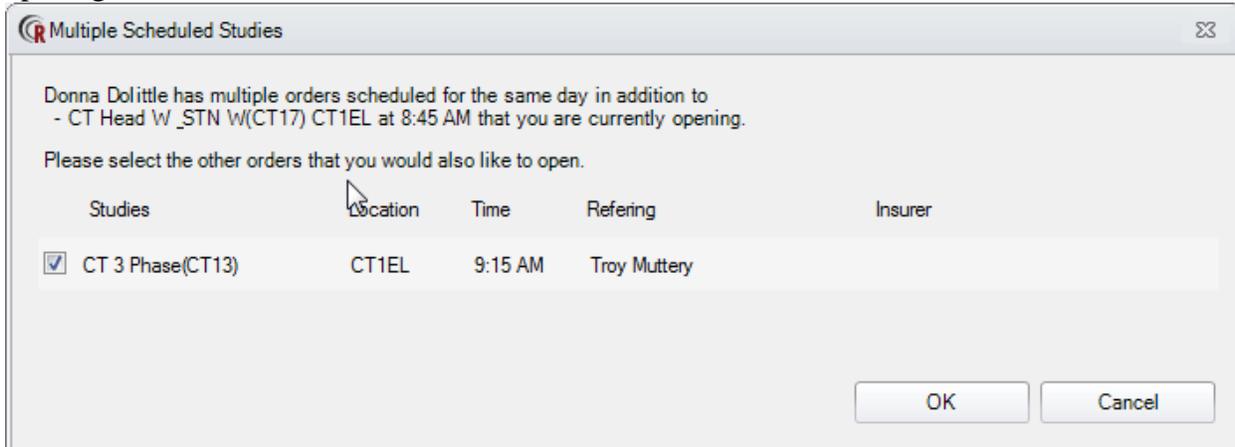


Figure 5.6.1.1 – Confirmation – Multiple Scheduled Studies

If the user chooses so they can open the other study(s) for confirmation. The data windows have the same fields as scheduled order, with the exception of the Exam tab which doesn't have the advance search options. Selecting the Confirmation button will remove this patient's study(s) from the Confirmation work list. The exams will remain on the Reception work list.

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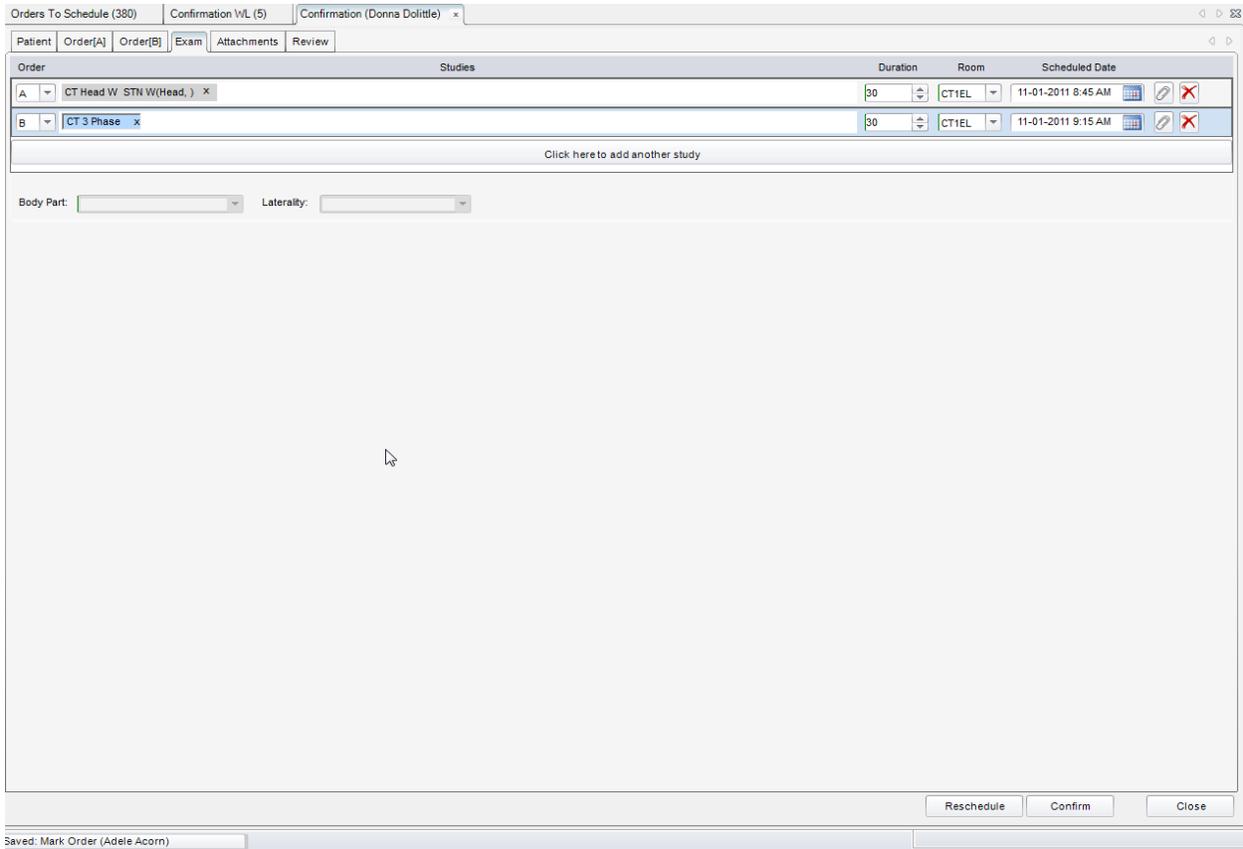


Figure 5.6.1.2 – Confirmation Data Window

The user also has the option to Reschedule, or to simply close the data window without saving any changes and the patient’s study(s) will remain on the work list.

5.7 Closed Rooms Reschedule work list

The cancelled orders work list will contains all scheduled orders that are scheduled in a room that has been closed. The button options from this work list are to reschedule the order. The context menu also has the reschedule option as well as the option to change the status of the exam. The exams will drop off the work list as they are rescheduled or when the time of the original exam has passed.

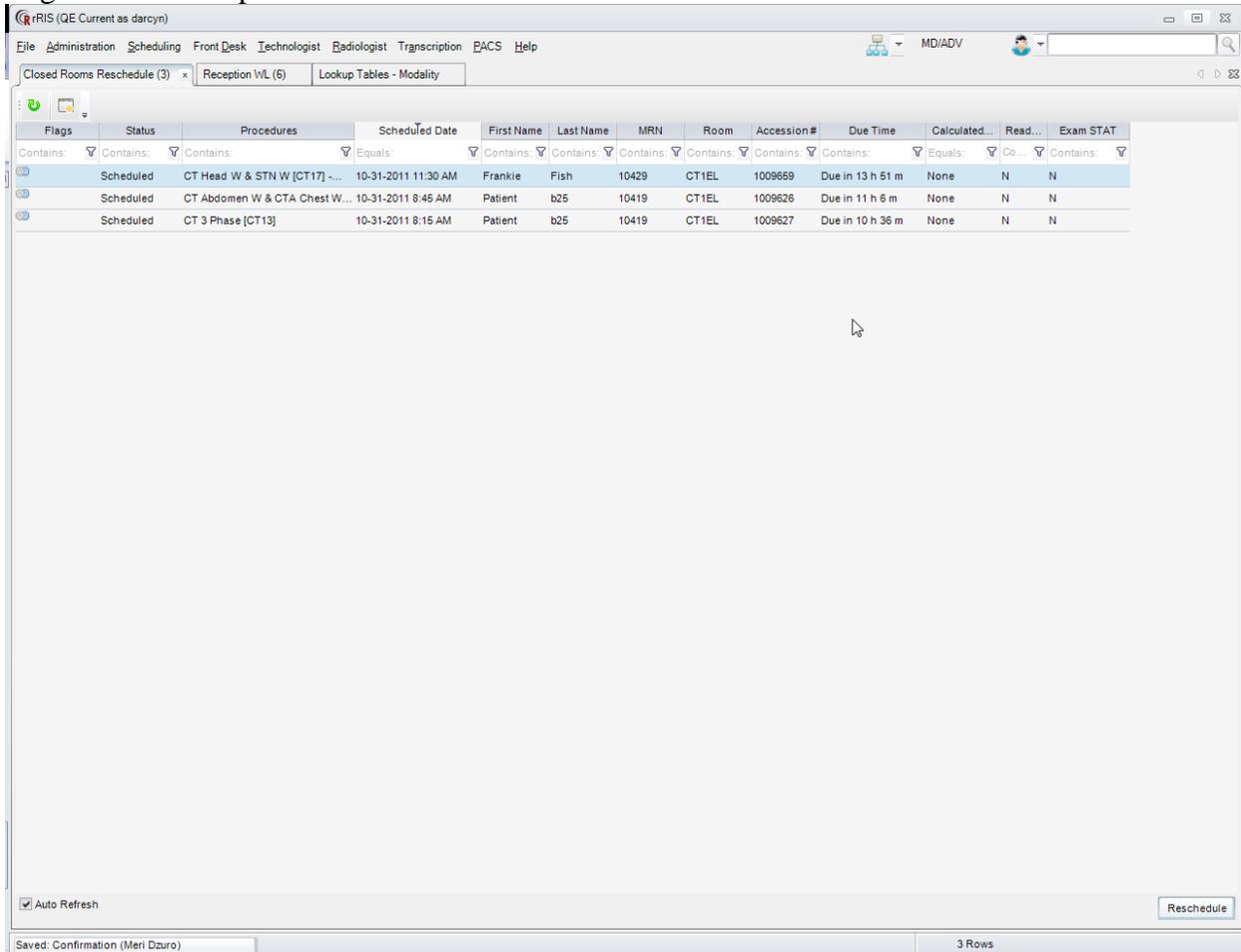


Figure 5.7.1 – Closed Rooms work list

5.8 Cancelled Orders work list

The Cancelled orders work list contains all of the orders that have been cancelled. As of right now, this work list is only a visual confirmation of what has been cancelled. At this time you cannot re-order or create a new order from this work list. The user can check the Audit History to see who and when the order was cancelled.

Flags	Status	Procedures	Order Date	Referring	First Name	Last Name	MRN	Patient Key	Placer Order Number	Requested By Address Key	Requested By
	OrderCancelled		09-27-2011 1:40 PM	Jerry Piled	Barry	Meinose	10155	161302	23752	20180	
	OrderCancelled	XR THORACIC SPINE 2 VIEWS [72070] - Lumbar spine	09-28-2011 8:33 AM	Ian Power	Harry	Knotter	10095	161282	23748	20123	
	OrderCancelled	CT Abdomen W & CTA Chest W/Wo [CT66] - Abdomen	10-28-2011 2:25 PM	Grace Harding	Sally	Norton	296	296	23779	20219	
	OrderCancelled	XR RIBS 3 VIEWS, BILAT [71110] - Chest/Bilateral	10-28-2011 11:22 AM	Darcy Noye	David	Dolittle	10378	161373	23750	20178	

Figure 5.8.1 – Closed Rooms work list

5.9 Reschedule

Reschedule can take place from the Reception work list, Confirmation work list, Appointment Book, and the No Show work list. Upon select to Reschedule, the user will be prompted with the window displayed in figure below.

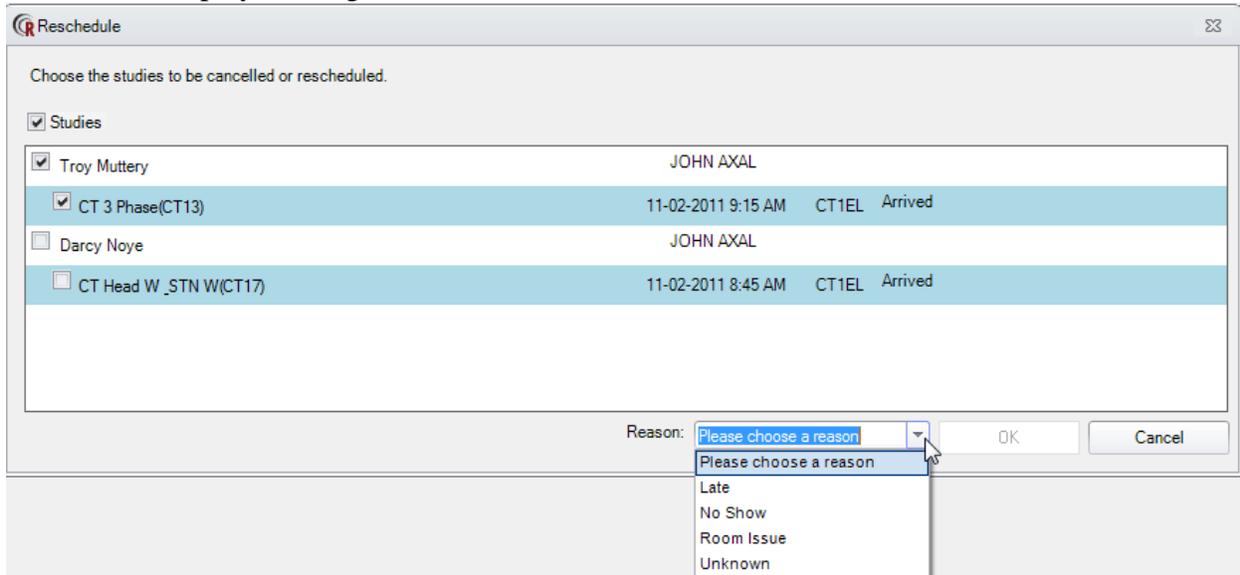


Figure 5.9.1 – Reschedule

If the patient has multiple scheduled exams for that day the user can choose to reschedule one or all. The exam selected from the work list is checked by default. The user must select a reason code for the reschedule to enable the OK button.

6. 6. Front Desk

6.1 Reception work list

The Reception work list is a daily view of the exams scheduled. The calendar Icon allows the user chooses a different day, month, or year. The user can also navigate to other days using the left and right green arrows on either side of date and calendar control. Possible buttons actions are Registration, Reschedule, Edit Order and Mark Order. Context menu options are Registration, Reschedule, Edit Patient, Forms and Labels, Patient Folder, Audit History, Copy Cell, Change Status to... which contains its own sub-menu, and Request Copies of Images.

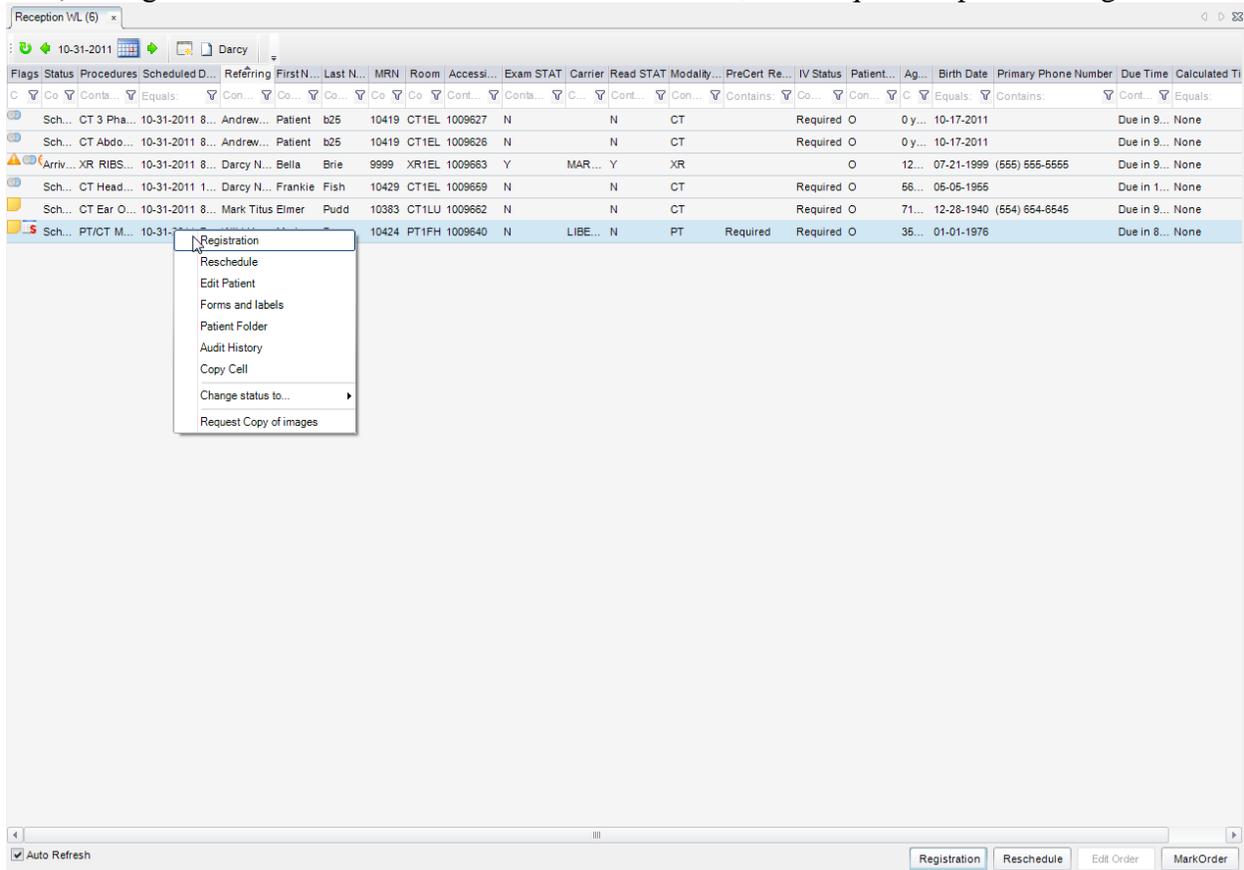


Figure 6.1.1 – Reception work list with context menu displayed

Registration is to be completed to get the patient status to checked in or arrived status. Much of the registration data fields will already have been complete. Required fields at the time of Registration are the Verified ID flag, Responsible party, and the user will be prompted for policy information, which can be bypassed.

6.2 Registration

Registration is accessed from different places in the application. A user can complete Registration from Orders to Schedule work list, bypassing the schedule order stage. The Reception work list also has the ability to complete Registration. The actions from Registration are to Check In the patient Arrive the patient, save changes to the data window and leaving it in a state of scheduled if accessed from Reception work list, or advancing the order to scheduled status if registration was accessed from Orders to Schedule work list. The use can also close the Registration data window. If changes were made in the data window the user will be prompted to save changes.

6.2.1 Patient Tab

The patient tab is the same as new order with the exception of a Labels and Forms button giving the user the ability to print any label or form that may be associated with the procedure. Also there are two additional check boxes for Arbitration Signed and Verified ID, which is mentioned above as being a required field.

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Reception WL (11) Registration (Yeesh Yolanda) ×

Patient | Contacts / Demographics | Order[A] | Order[B] | Exam | Visit History | Image Request (0)

General Information

Prefix: MRN: Claustrophobic
First Name: Gender: Arbitration Signed
Last Name: Birth Date: Verified ID
Middle: Suffix: Place of Birth:

Contact Information

Address 1: Zip: Primary Phone:
Address 2: Country: No Alternate Phone
City: Work Phone:
State: Email: Other Phone:
Preferred Contact Method: Preferred Delivery Method:

Patient Origin

Primary Language:
Education Level:
Religion:
Race:
Ethnicity:

Patient Notes

10-31-11 dtn -
10-29-11 dtn - Patient notes are captured in this text box.

Labels and Forms

Checking In | Arrive | Save | Close

Figure 6.2.1.1 – Patient tab at Registration

6.2.2 Contacts / Demographics

Again this tab is essentially the same as in new order with the exception of the Demographics at Encounter that is located on the Visit History tab for Registration. The Responsible Party is required.

The screenshot displays the 'Contacts / Demographics' tab within a software application. At the top, there is a navigation bar with tabs: Patient, Contacts / Demographics (selected), Order[A], Order[B], Exam, Visit History, and Image Request (0). Below this, the 'Responsible Party' section contains fields for Relation (Self), State (Mystate), First Name (Yolanda), Zip, Last Name (Yeesh), Home Phone ((555) 555-5555), Address 1 (132 My St.), Address 2, and City (MyCity). The 'Emergency Contact' section has similar fields, with Home Phone set to (-). Below these sections is the 'Approved Medical Record Access' table:

Relation	Name	Expiry	Details
Spouse	Yeesh, Yuri	12-31-2011	The patient's husband is granted medical record access until the end of year

At the bottom of the form, there are buttons for 'Previous', 'Edit', 'Add', and 'Remove'. The application footer includes 'Checking In', 'Arrive', 'Save', and 'Close' buttons.

Figure 6.2.2.1- Contacts/Demographics Tab

6.2.3 Order Tab

The order tab of the Registration data window has the same fields as Schedule Order with the addition of Payments.

The screenshot displays the 'Order' tab in the RADNET rRIS Registration data window. The interface is organized into several sections:

- Referring Details:** Includes fields for Referring Physician (Waite, Andrew R), Visited at (no address on file), and a checkbox for Direct Referral.
- Preferred Location:** Features a dropdown for Practice (Advanced Radiology), a Site dropdown, and checkboxes for STAT Exam, STAT Read, and STAT Precert.
- Flags:** Includes checkboxes for STAT Exam, STAT Read, and STAT Precert, along with a Class dropdown (Outpatient) and a Sedation dropdown.
- Insurance Policies:** Contains a table with columns: Note, Carrier Code, Carrier Name, Policy Number, Group Name, Group Number, Phone, and Priority. A single policy is listed for DERENBERGER EDWARD.
- Payments:** Includes a table with columns: Posted By, Amount, Payment Method, and Date. A payment of \$100.00 Cash is recorded on 11-01-2011.
- OrderNotes:** A text area for entering notes, currently containing '11-01-11 dtn -'.

At the bottom of the window, there are buttons for 'Checking In', 'Arrive', 'Save', and 'Close'. The status bar at the very bottom indicates 'Saved: Registration (Bree Buella)'.

Figure 6.2.3.1 – Registration Order tab

Payments can be made and a history of who accepted the payment, the amount, method of payment, and the date the payment was entered. Payment details may be edited after being posted.

The screenshot shows a software window titled "Front Desk Payment" with a close button in the top right corner. The window is divided into two main sections: "Payment" and "Notes".

Payment Section:

- Amount to Collect:** A text box containing "\$400.00".
- Amount:** A text box containing "\$100.00", which is highlighted with a blue selection box.
- Method:** A dropdown menu with "Cash" selected.
- Check Number:** An empty text box.
- Credit Card Type:** A dropdown menu.
- Credit Card Number:** An empty text box.
- Name on Credit Card:** An empty text box.
- Credit Card Expiry:** An empty text box.

Notes Section:

A text area containing the note: "Patient made cash payment at time of procedure".

At the bottom of the window, there are two buttons: "Save" and "Cancel".

6.2.3.2 – Payment window

6.2.3 Exam Tab

The exam tab displays the study(s) orders, duration, room and date of the procedure. Attachments may be accessed or added. You will remember in the Schedule Order window, this area was used to display the advanced scheduling availability. The prep instructions occupy this space in Registration. Also on this tab are the PreCer t#, Expiry Date, and Billable Item.

The screenshot shows the 'Exam' tab in the rRIS registration interface. At the top, there are navigation tabs: Patient, Contacts / Demographics, Order, Exam, Visit History, and Image Request (0). Below these, there are fields for 'Studies', 'Duration', 'Room', and 'Scheduled Date'. The 'Studies' field contains 'CT 3 Phase x', 'Duration' is '30', 'Room' is 'CT1EL', and 'Scheduled Date' is '11-01-2011 7:45 AM'. There are icons for adding, editing, and deleting studies. Below this is a button that says 'Click here to add another study'. Further down, there are dropdown menus for 'Body Part' and 'Laterality'. A checkbox labeled 'Prep Instructions Reviewed' is present. The main area contains 'Prep Instructions' for a 'General CT' scan, including weight limits, iodine injection history, asthma, diabetes, and pregnancy questions. At the bottom right, there are buttons for 'Checking In', 'Arrive', 'Save', and 'Close'.

Figure 6.2.3.1 – Registration Exam tab

6.2.4 Visit History

The Demographics at Encounter is located on the Visit History tab. Also included on this tab are the patient’s drug allergies and Patient Immunizations with the ability to Export to HL7.

The screenshot displays the 'Visit History' tab in the rRIS system. The interface includes a navigation bar at the top with tabs for 'Patient', 'Contacts / Demographics', 'Order', 'Exam', 'Visit History', and 'Image Request (0)'. The main content area is divided into three sections:

- Demographics at Encounter:** Contains input fields for Height (ft in), Weight (lbs), BMI, Blood Pressure, and Smoking Status. It also includes checkboxes for 'Is Pregnant', 'Requested Educational Resources', and 'Provided Educational Resources'.
- Drug Allergies:** Features a dropdown menu to 'Show drug allergies for the current patient's visit?' (set to 'None') and a table with columns: DrugAllergy, Start Date, End Date, Reaction, and Status.
- Patient Immunizations:** Includes a table with columns: Vaccine, Date, Qty, Units, Lot #, and Manufacturer.

An 'Export HL7' button is located at the bottom left of the main content area. At the bottom right, there are four buttons: 'Checking In', 'Arrive', 'Save', and 'Close'.

Figure 6.2.4.1 – Visit History tab

6.2.5 Image Request

The Image Request tab is a work list view displaying the request for images for this scheduled procedure. From this tab the user may add, edit or remove edit requests. The user may also print the release form. Creating Image requests will be covered later in this document. The Image Request data window is present on the Schedule Order, Registration and Perform Exam data windows.

The Image request tab will contain the number of image requests for the study. A study with no requests for images will show “Image Request (0)” in the tab page title.

Only new requests can be removed (i.e. not save to the db). In order to “remove” other requests they have to be cancelled. This can be accomplished via the Image request tab or by editing the request from the Image Request work list.

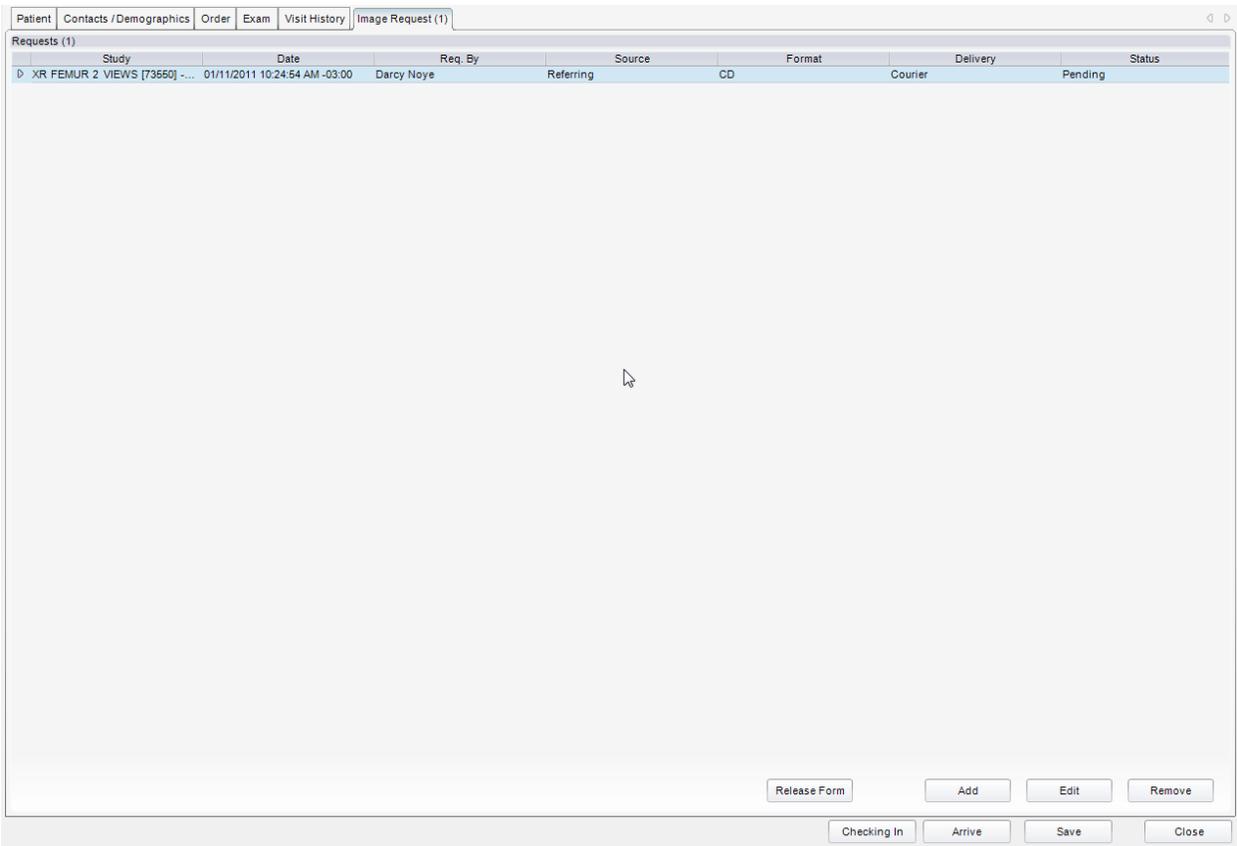


Figure 6.2.5.1 – Image Request Tab

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From the Image Request tab, a new request can be added, or a previous request edited. The remove button will only work for requests in a status of “New”. In the example above the status is Pending. The request would have to be edited and cancelled.

The screenshot shows the 'Image Request' window with the following data:

Studies (1)				
	Date	Last Name	First Name	Study
<input checked="" type="checkbox"/>	01/11/2011 8:44:00 AM	Acorn	Adele	73550*XR FEMUR 2 VIEWS

Previous Requests (1)						
	Date	Req. By	Source	Format	Delivery	Status
<input checked="" type="checkbox"/>	01/11/2011 10:24:54...	Darcy Noye	Referring	CD	Courier	Pending

Requested By

Patient Referring Other Doctor Other

Doctor: Noye, Darcy T
Location: 154 Workdown Dr., 1, Worktown, MD, 45742
Name: Darcy Noye
Organization:
Phone Number: (541) 574-5855

Deliver To / Pickup By

Patient Referring Other Doctor Other

Same as requested by

Doctor: Noye, Darcy T
Location: 154 Workdown Dr., 1, Worktown, MD, 45742
Prefix:
First Name: Darcy
Last Name: Noye
Suffix:
Address: 154 Hangdown Dr.
City: Hangtown
State: MD
Country: United States
ZipCode: 45742
Phone Number: (541) 574-5855

Details

Format: CD
Notes:

Delivery Instructions

Method: Courier
Instructions:

Image Request Status

Pending Cancelled Copied Sent Picked Up Identification Verified

OK Cancel

Figure 6.2.5.2 – Image Request window

Within the Image Request window the user will have the ability to change its status when creating a request. This will allow a user create and complete the request in one step. The “complete” status has been split. . Available statuses for the request are Pending, Cancelled, Copied, Sent and Picked Up. The statuses of Sent and Picked Up enable the system to

differentiate how a request was completed. Also, when a request is picked up, the “Identification Verified” check box is enabled and becomes required.

6.3 Walk In Data Window

The Walk In data window is essentially a mirror copy of the Registration data window with no data. This gives the user the ability to skip the New Appointment and / or Schedule Order process. The idea is a patient shows up with order in hand requesting a procedure. Please refer to screenshots in section 6.2

7. Technologist

7.1 Technologist work list

The Technologist work list is a daily view for the Technologist role. As exams are completed, the record will be removed from the work list. If the exam is completed, it will advance the status to exam done. Alternatively the exam may be aborted, and thus the exam will sent back to the pending orders work list if the user so chooses or can simply be discontinued. Discontinued exams remain on the Technologist work list.

Button actions are Perform Exam and Edit Patient. Context menu options are Perform Exam, Edit Patient, Forms and Labels, Change status to... (which has a sub menu), Patient Folder, Audit History, Copy Cell and Request Copy of Images.

Flags	Status	Procedures	Scheduled Date	Referring	First Name	Last Name	MRN	Room	Accession #	Read STAT	Sedation	Exam STAT	Modality Ty...	PreCert Re...	Patient Ty...	Age At...	Tech...	Birth Date
	Arrived		10-31-2011 8:15 AM	Andrew W...	Patient	b25	10419	CT1EL	1009627	N	N	CT		O	0 years			10-17-2011
	Arrived	CT Abdomen...	10-31-2011 8:45 AM	Andrew W...	Patient	b25	10419	CT1FH	1009626	N	N	CT		O	0 years			10-17-2011
	Arrived	CT Head WW...	10-31-2011 8:45 AM	Mark Titus	Elmer	Pudd	10383	CT1LU	1009662	N	N	CT	Required	O	71 years	Date...		12-28-1940
	Arrived	XR RIBS 3 VIE...	10-31-2011 8:15 AM	Darcy Noye	Bella	Brie	9999	XR1EL	1009663	Y	T1	Y	XR	O	12 years			07-21-1999

Figure 7.1.1 – Technologist work list

7.2 Technologist Data Window

Accessing the Technologist data window the user selects a procedure from the work list and then selects the Perform Exam button. This covered in 7.2.8 of this document.

7.2.1 Patient Tab

The patient tab has the same look and feel as in Schedule Order and Registration.

7.2.2 Order Tab

The Order tab has the Referring details, Chief Complaint, Preferred Location, Flags, and Order Notes.

The screenshot displays the 'Perform Exam Order tab' interface. At the top, a header bar contains several tabs: 'Patient', 'Order' (which is selected), 'Documentation', 'Billing Codes', 'Attachments', 'Notes / Exam Times', and 'Image Request (1)'. Below the header, a data row shows patient information: 'Arrived CT 3 Phase [CT13]', '11-01-2011 7:45 AM', 'Andrew Walte', 'CT1FH 1009669', 'N', 'N', and 'CT'. The main content area is divided into several sections: 'Referring Details' with fields for 'Referring:' (Walte, Andrew R), 'Visited at:' (no address on file), and 'CC Physicians:'. 'Chief Complaint' is an empty text area. 'Preferred Location' includes 'Practice:' (Advanced Radiology) and 'Site:'. 'Flags' section has checkboxes for 'Stat Exam', 'Stat Precert', 'Stat Read', and 'Special Accommodations'. 'Class:' is set to 'Outpatient' and 'Sedation:' is empty. 'OrderNotes' shows a single note: '11-01-11 dtn -'. At the bottom, a row of buttons includes 'Start', 'Suspend', 'Complete', 'Abort', 'Save', and 'Close'.

Figure 7.2.2.1 – Perform Exam Order tab

7.2.3 Documentation Tab

The Documentation tab captures the Techs notes, the techs that performed and assisted on the exam, patient details, the equipment used and procedure to be performed and any reasons for change and associated radiologists.

To start the exam, the Primary Tech field needs to be populated. If the patient the exam is being performed on is a female between the ages of 12 and 55, the LMP and Pregnant / Not Pregnant fields become required fields.

To complete the exam the Technologist Notes field must be completed.

The referring physician may have a Preferred assigned to the Personnel profile. If they do, the Assigned Radiologist field will be pre-populated this Radiologist. In a case where there is more than one preferred reader, the Assigned Radiologist field will not have a default value. Upon starting the exam a dialog box will inform the user that preferred radiologists are assigned to this referrer. Ok to the message will mark the field with ! indicating that a preferred radiologist is configured and may be selected. The preferred radiologists will be prefixed with Preferred:

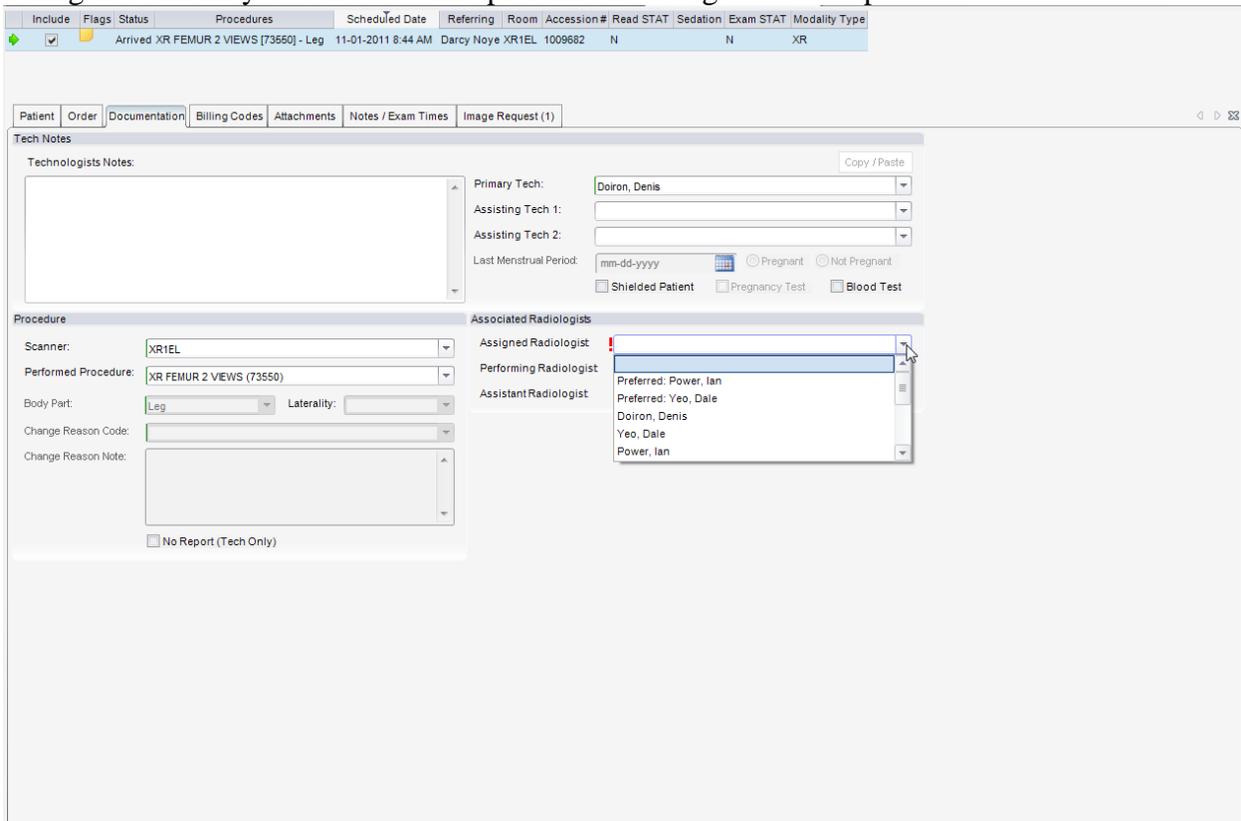


Figure 7.2.3.1 – Perform Exam Documentation tab

If the exam being performed is flagged with No Report (Tech Only) and / or Report External to rRIS, additional check boxes will appear on the Documentation tab. If both of these check boxes are present when Performing Exam, only one will be permitted to be checked as they contradict one another. A warning message will be presented to the user when one of the checkboxes is selected.

The screenshot shows the 'Perform Exam' window in the RADNET rRIS system. The 'Documentation' tab is selected, showing a 'Tech Notes' section with a text area and a 'Copy / Paste' button. Below this is the 'Procedure' section, which includes dropdown menus for 'Scanner' (DE1EL), 'Performed Procedure' (DX Appendicular Skeleton (77081)), 'Body Part', and 'Laterality'. There is also a 'Change Reason Code' dropdown and a 'Change Reason Note' text area. At the bottom of the procedure section are two checkboxes: 'No Report (Tech Only)' and 'Report External to rRIS'. To the right of the procedure section is the 'Associated Radiologists' section, which includes dropdown menus for 'Assigned Radiologist', 'Performing Radiologist', and 'Assistant Radiologist'. At the bottom of the window are buttons for 'Start', 'Suspend', 'Complete', 'Abort', 'Save', and 'Close'.

Figure 7.2.3.2 – Perform Exam showing No Report and Report External check boxes

Completing an exam with either “No report (Tech Only)” or “Report External to rRIS” will send the exam to a status of “ExamDoneTechOnly” and will not be added to the Radiologists work list of Exam Done.

After the exam is started, the rest of the buttons will become enabled. If the exam is aborted, the Abort Exam window opens. The user must select a reason why the exam has been aborted. The list of reasons can be sorted and / or filtered. A right click on the column header gives the user more sorting options.

When a reason code is selected and you hit the OK button a dialog box will open asking if you would like to send this order back to the Orders to Scheduled work list. Select Yes will do so. Select No will cancel the exam and set the status to Discontinued.

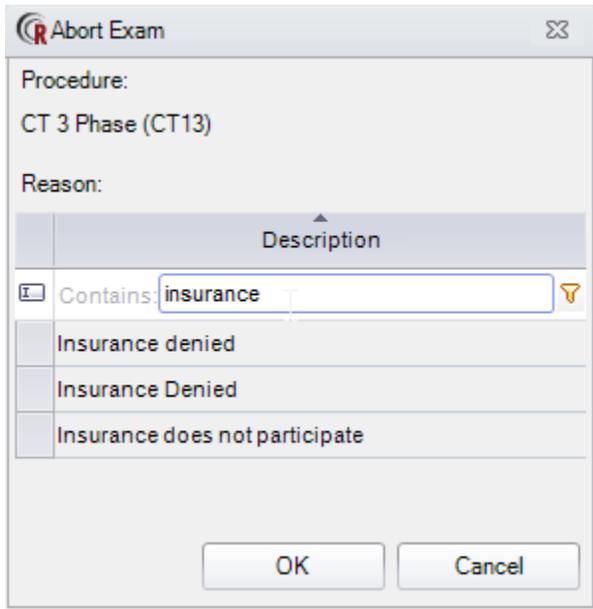


Figure 7.2.3.3 – Abort Exams reason codes

7.2.4 Billing Codes

The Billing codes tab allows the tech to edit the details of the billing codes, add cpt modifiers, units used, change reason, and precert status.

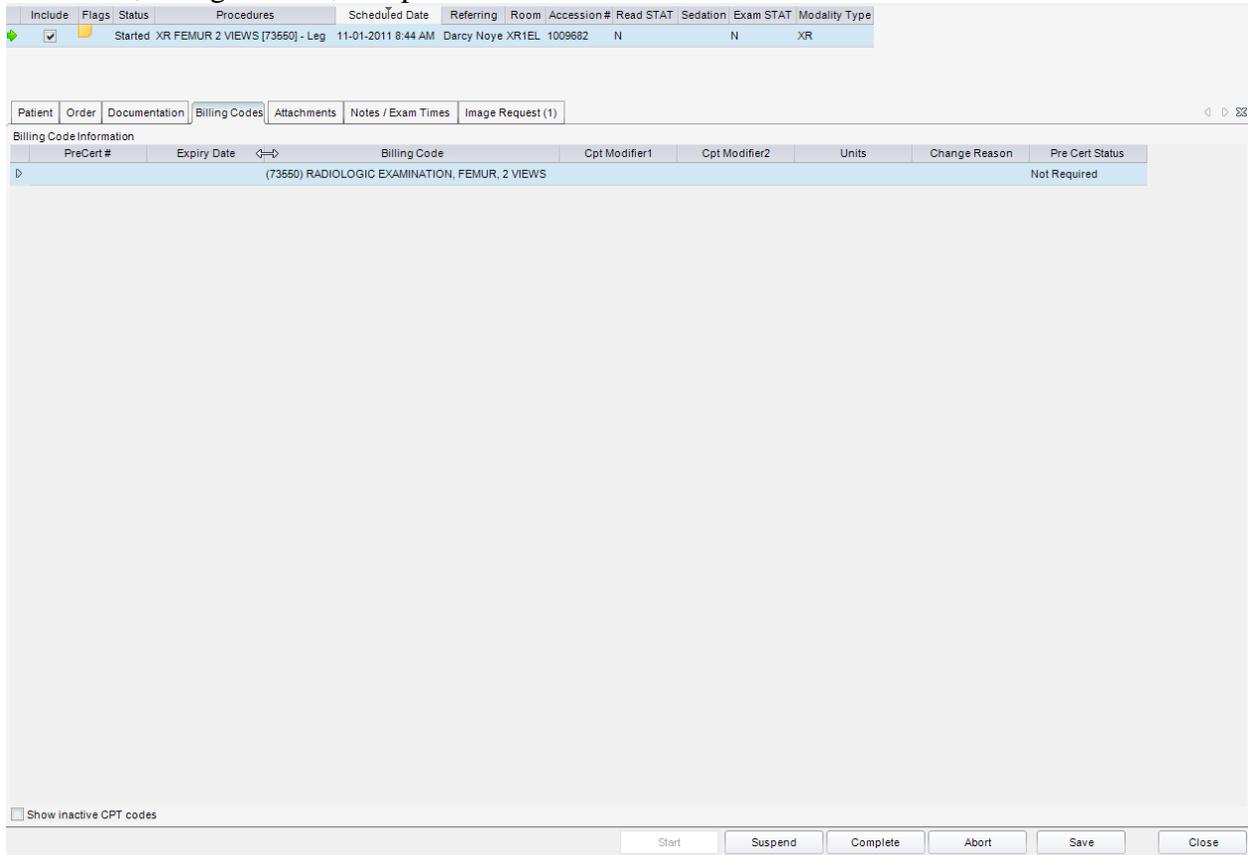


Figure 7.2.4.1 – Perform Exam Billing Codes

7.2.5 Attachments Tab

The Attachments Tab is the same as in previous data window.

7.2.6 Notes / Exams Times

The Notes / Exam times tab captures the Scheduled / Arrival time and who scheduled and arrived the patient.

The time that exam was started and completed and by whom is also captured.

Appointment notes and a duplicate view of the patient notes is present. Both of these text boxes can be edited. The patient notes entered here will also display in the patient notes field on the Patient tab.

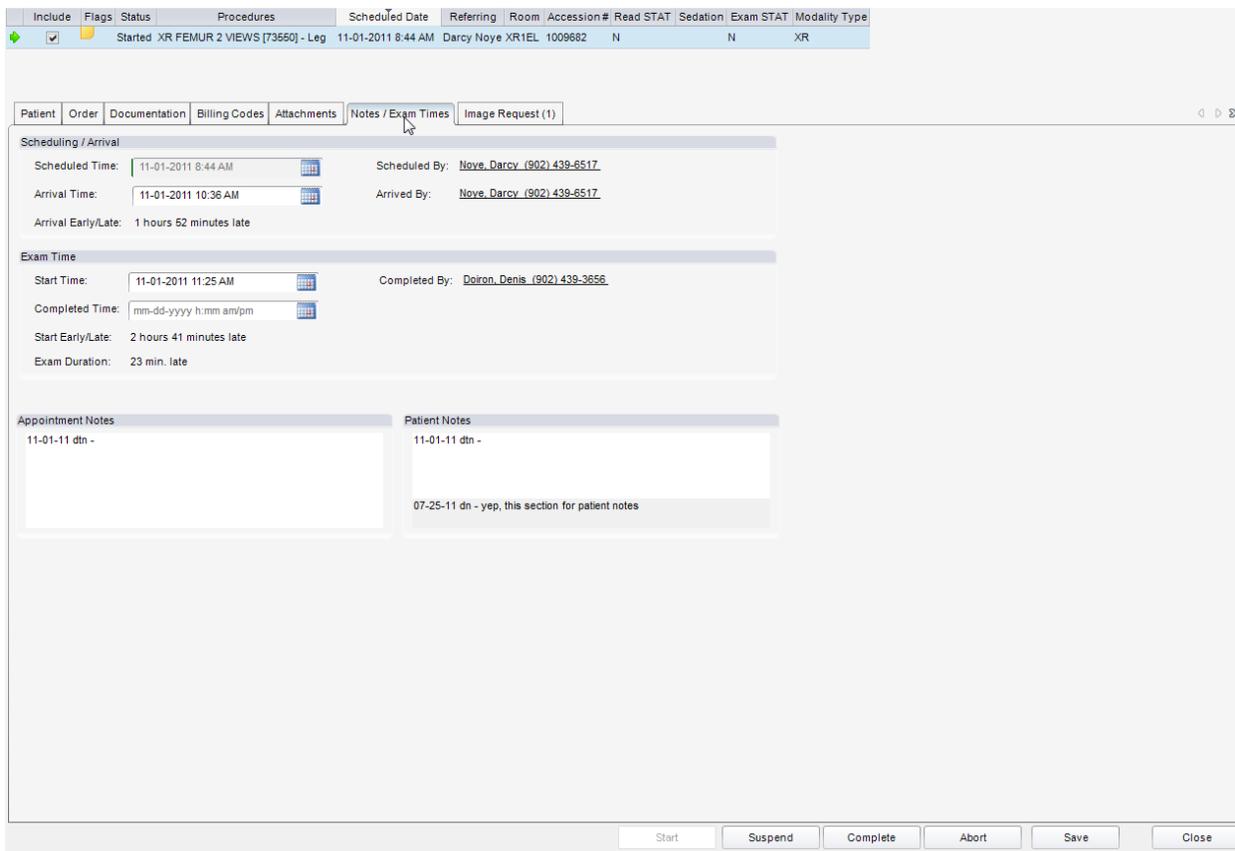


Figure 7.2.6.1 – Perform Exam Notes / Exam Times tab

7.2.7 Image Request

There are no changes to the Image Request tab. Please see section 6.2.5 of this document.

7.2.8 Credential Switch

To assist in auditing in shared workstation environments where a common login may be used, Credential Switch has been developed. This flag is added at the user's personnel level. If the users account has this flag checked, they will receive prompt. If valid credentials are entered the user will be permitted to continue workflow.

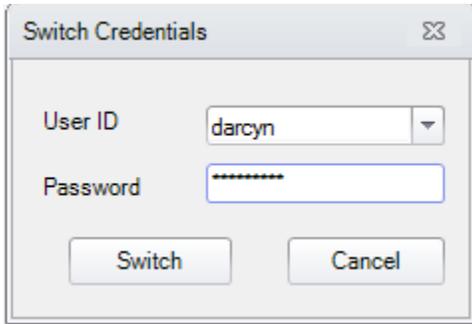


Figure 7.2.8.1 Switch Credential dialog box

The user will be prompted every time either of these Data Windows is accessed, even when the user may currently have a data window open where credentials have been passed. If a second user clicks on the first user's tab, rRIS will allow them to see the tab, without being prompted for credentials again. In this manner, it is possible for the second user to save the data of the first user, and it will be saved under the credentials of the first user. This was preferred to having the system prompt yet again for credentials. When the user leaves the Perform Exam or the Edit Patient, the credentials will be set back to the user logged into the application. The dialogue box will keep a history of User ID's enter as long as the current rRIS session is active.

8. Radiologist

8.1 Pending Dictation

The Pending Dictation work list has two different default views. For most users who access this work list they will see the Pending Dictation option from the Radiologist menu. There is also a menu option of Pending Dictation (all) that displays all pending dictations for all users. The work list that opens for the user will not display exams that are assigned to another Radiologist, or exams that have been dictated on or suspended by another Radiologist. Beside tab contains the name of the work list as well as the count of records in the work list. The number is updated jobs are completed. When a filter is applied it will display the number of records currently on work list followed by the overall count. (Example 9 of 25)

Button actions from this work list are only to Dictate. Context menu options are Dictate, Patient Folder Audit History, Copy Cell, Forms and Labels, Stat Case (which has a sub menu), Assign to Radiologist and Request Copy of Images

The Pending Dictation work list has a large selection of columns available to be viewed. I have included 2 screenshots to capture all columns.

RADNET, Inc. – rRIS Release Notes

First Name	Last Name	MRN	Accession #	Flags	Status	Procedures	Scheduled Date	Birth Date	Age At Study	Room	Modality Type	Exam STAT	Read STAT	Problem	QA	Performed End Date	Performed Start D...	Transcriptionist
Clare	Cone	100...	1009491			ExamDo... DX Append...	10-05-2011 2...	07-20-1999	12 years	DE1EL BD	N	N				10-27-2011 12:58...	10-27-2011 12:58...	
Zelda	Zoom	100...	1009511			ExamDo... DX Append...	10-13-2011 9...	07-20-1966	55 years	DE1EL BD	N	N				10-27-2011 12:57...	10-27-2011 12:57...	
Yolanda	Yeesh	100...	1009488			ExamDo... CT Ear Orb...	10-04-2011 11...	07-21-1966	55 years	CT1EL CT	N	N				10-27-2011 1:00 PM	10-27-2011 1:00 PM	
Zelda	Zoom	100...	1009489			ExamDo... CT Cervical...	10-04-2011 2...	07-20-1966	55 years	CT1EL CT	Y	Y				10-27-2011 12:59...	10-27-2011 12:59...	
two	studies	103...	1009500			ExamDo... CT 3 Phase...	10-07-2011 7...	06-19-2011	4 months	CT1EL CT	N	N	N	N		10-06-2011 3:46 PM	10-06-2011 3:46 PM	
Xena	Xroller	100...	1009517			ExamDo... CT Cervical...	10-19-2011 2...	07-22-1966	55 years	CT1EL CT	N	N				10-27-2011 12:56...	10-27-2011 12:56...	
DGI	Test	102...	1009412			ExamDo... CT 3 Phase...	09-14-2011 7...	08-31-1988	23 years	CT1LU CT	N	Y				09-13-2011 3:13 PM	09-13-2011 3:12 PM	
Jason	Campbell	102...	1009417			ExamDo... CT Ear Orb...	09-14-2011 9...	09-21-1978	33 years	CT1LU CT	N	Y				09-14-2011 8:35 AM	09-14-2011 8:35 AM	
Michael	Vick	102...	1009419			ExamDo... CT Abdom...	09-14-2011 10...	08-30-1987	24 years	CT1LU CT	N	N	N	N		09-14-2011 8:53 AM	09-14-2011 8:52 AM	
Sally	Norton	296	1009638			ExamDo... CT Ear Orb...	09-21-2011 12...	07-28-1985	26 years	Outs... CT	N	Y				09-21-2011 12:00...	09-21-2011 12:00...	
two	studies	103...	1009499			ExamDo... MA DIGITA...	10-07-2011 8...	06-19-2011	4 months	MA1... MA	N	Y				10-06-2011 3:47 PM	10-06-2011 3:47 PM	
Tina	Timeless	100...	1009551			ExamDo... MA DIGITA...	10-21-2011 11...	07-21-1965	56 years	MA1... MA	N	Y	N	N		10-27-2011 12:54...	10-21-2011 11:48...	
Marc	Schweikert	103...	1009496			ExamDo... PT/CT Myo...	10-07-2011 8...	12-12-1981	30 years	PT1FH PT	N	N				10-27-2011 12:58...	10-27-2011 12:57...	
Lisa	Bonnet	101...	1009566			ExamDo... US Chest [...]	10-27-2011 9...	02-07-1984	27 years	US1EL US	N	Y				10-27-2011 9:03 AM	10-27-2011 9:03 AM	
Bella	Brie	9999	1009472			ExamDo... XR Wrist 2...	09-28-2011 12...	07-21-1999	12 years	DX1... XR	N	N				10-27-2011 1:02 PM	10-27-2011 1:02 PM	
Zelda	Zoom	100...	1009353			ExamDo... XR CHEST...	09-01-2011 12...	07-20-1966	55 years	Outs... XR	N	N	N	N		09-01-2011 12:00...	09-01-2011 12:00...	
Zelda	Zoom	100...	1009354			ExamDo... XR CHEST...	09-01-2011 12...	07-20-1966	55 years	Outs... XR	N	Y				09-01-2011 12:00...	09-01-2011 12:00...	
Xena	Xroller	100...	1009357			ExamDo... XR Chest P...	09-02-2011 12...	07-22-1966	55 years	Outs... XR	N	Y	N	N		09-02-2011 12:00...	09-02-2011 12:00...	
Adele	Acorn	9998	1009358			ExamDo... XR Chest...	09-02-2011 12...	07-20-2000	11 years	Outs... XR	N	N	N	N		09-02-2011 12:00...	09-02-2011 12:00...	
Bella	Brie	9999	1009359			ExamDo... XR ABDO...	09-02-2011 12...	07-21-1999	12 years	Outs... XR	N	Y				09-02-2011 12:00...	09-02-2011 12:00...	
Bernice	Barry	102...	1009468			ExamDo... XR Should...	09-27-2011 12...	06-17-1964	47 years	Outs... XR	N	Y				09-27-2011 12:00...	09-27-2011 12:00...	
Bernice	Barry	102...	1009476			ExamDo... XR FINGE...	09-29-2011 2...	06-17-1964	47 years	XR1EL XR	N	N				10-27-2011 1:01 PM	10-27-2011 1:01 PM	
Elmer	Yeesh	101...	1009516			ExamDo... XR Spine 1...	10-19-2011 1...	06-13-1944	67 years	XR1EL XR	N	N				10-27-2011 12:56...	10-27-2011 12:56...	
William	Bonnie	103...	1009532			ExamDo... XR Foot 2...	10-21-2011 8...	11-23-1859	162 years	XR1... XR	N	N				10-27-2011 12:55...	10-21-2011 8:43 AM	
Brooke	Trout	101...	1009457			ExamDo... XR Femur...	09-26-2011 9...	06-12-1984	27 years	XR1... XR	N	N				10-27-2011 1:04 PM	10-27-2011 1:04 PM	

Figure 8.1.1 – Pending Dictation work list #1

RADNET, Inc. – rRIS Release Notes

Pending Dictation (25)

Radiologist	Technologist	Audio Size (Byt...	Time Pending...	MModal Job Id	MModal-Lear...	MModal-Learning Compl...	Transcribed By	Transcribed D...	Dictated By	Dictated Date	Suspe...	Suspe...	Locke...	Chair Id	Chair...	Site C...
Laurie Graves																EL
Andrew Waite																EL
Andrew Waite					N	N				darcyn	10-13-...					EL
Darcy Alken														N		EL
Andrew Waite																LU
Dale Yeo																LU
Dale Yeo					N	N				darcyn	10-20-...					LU
Dale Yeo																EL
Technologis...														N		EL
Susan Holla...																LU
Andrew Waite																EL
Dale Yeo					N	N								N		EL
Outside Tech														N		EL
Darcy Noye					N	N										EL
Darcy Noye																EL
Darcy Noye					N	N										EL
Darcy Noye										darcyn	10-20-...					EL
Darcy Noye																EL
Outside Tech																EL
Andrew Waite																FH
Dale Yeo														N		EL
Stick Powell																EL
Stick Powell														N		EL
Stick Powell														N		FH
Spencer Ma...																LU

Auto Refresh

Figure 8.1.2 – Pending Dictation work list #2

8.2 Dictating Data Window

When the Dictating data window is opened a new menu option “View” becomes present. This menu has options for the dictating data window. This menu is present in the dictate and reporting windows. Expanding the menu allows the user to select which data panes they wish to view. If one of the data panes is accidentally closed, it can be re-opened from this menu. You will also notice that you can “Save Layout” changes and “Reset Layout” changes. Adjusting the layout during the session doesn’t automatically save the layout on exit of the window. If the user adjusts the layout to their liking, select Save Layout will retain the layout for all future sessions. Reset layout will remove any changes made and revert back to the default layout.

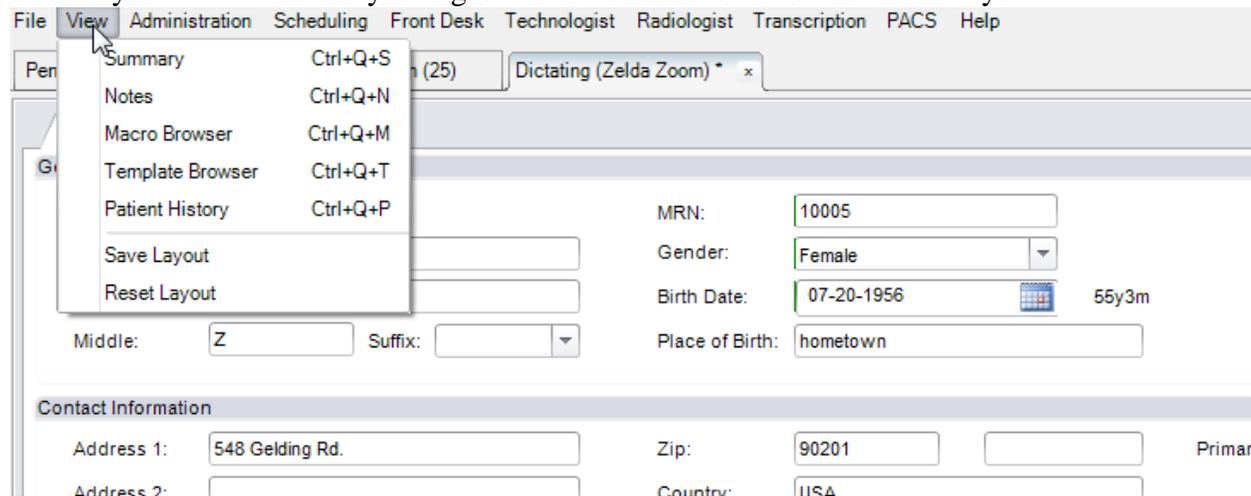


Figure 8.2.1 – View Menu

The dictating data window has 3 tabs, the Patient Tab with the patient’s name, address origin, and notes. The Exam tab that shows the technologists work flow. Lastly, the report tab which has the dictation control, and report editor. The data tabs can be moved and docked within the main document frame area. A user can list the tabs in the order they like or dock them individually. On the outer frames of the data windows are data panes. These data panes include the patient summary, a section to enter notes, Macro Browser, Template Browser, and a Patient History list box.

These controls are much more flexible, they can be docked anywhere in the bounds of the reporting screen, they can be displayed as a tabbed document window next to the document window as if it was one. It can be floating above the rRIS, or on another screen. They can be pinned so that they stay visible or they can be unpinned so that they auto hide to a small tab. I have provided examples in an attempt to show the versatility of the data pane.

RADNET, Inc. – rRIS Release Notes

General Information

Prefix: [] MRN: 10005 Claustrophobic
First Name: Zelda Gender: Female Arbitration Signed
Last Name: Zoom Birth Date: 07-20-1956 55y3m Verified ID
Middle: Z Suffix: [] Place of Birth: hometown

Contact Information

Address 1: 548 Gelding Rd. Zip: 90201 Primary Phone: (902) 156-5466
Address 2: [] Country: USA No Alternate Phone
City: Bell Work Phone: (902) 548-7854
State: California Email: [] Other Phone: 0 - []
Preferred Contact Method: [] Preferred Delivery Method: []

Patient Origin

Primary Language: English
Education Level: High School
Religion: Christian
Race: Asian
Ethnicity: Asian

Patient Notes

11-01-11 dtn -
10-04-11 dtn - This is the patient notes field

Summary

Initial Report **STAT**
Accession ID: 1009354
Procedure: 71020:XR CHEST PA LAT
MRN: 10005
Patient: Zelda Zoom(55y3m / F)
Date: 09-01-2011 12:00 AM
Referring: [Noye, Darcy \(541\) 574-5855](#)
Dictated by:
Trans By:
Tech notes: [Noye, Darcy \(902\) 439-6517](#)

Notes

Assign to: []
Assign to WL: General Problem QA

Macro Browser

Show All []
Macros:
booger
booger
StickTest

Template Browser

Show All []

Patient History

Flags	Nuggets	Status	Procedures	Scheduled Date	Accession #	Dictated Date	Transcribed Date	Signed Date	Locked By
N	Contains: []	Contains: []	Contains: []	Equals: []	Contains: []	Equals: []	Equals: []	Equals: []	Contains: []
		Arrived	US Chest [76604] - Chest	08-03-2011 1:00 PM	1009175				

Emergency Access **STAT** Images

Submit Sign Suspend Skip

Figure 8.2.2 – Dictating data window sample view 1 tabbed

RADNET, Inc. – rRIS Release Notes

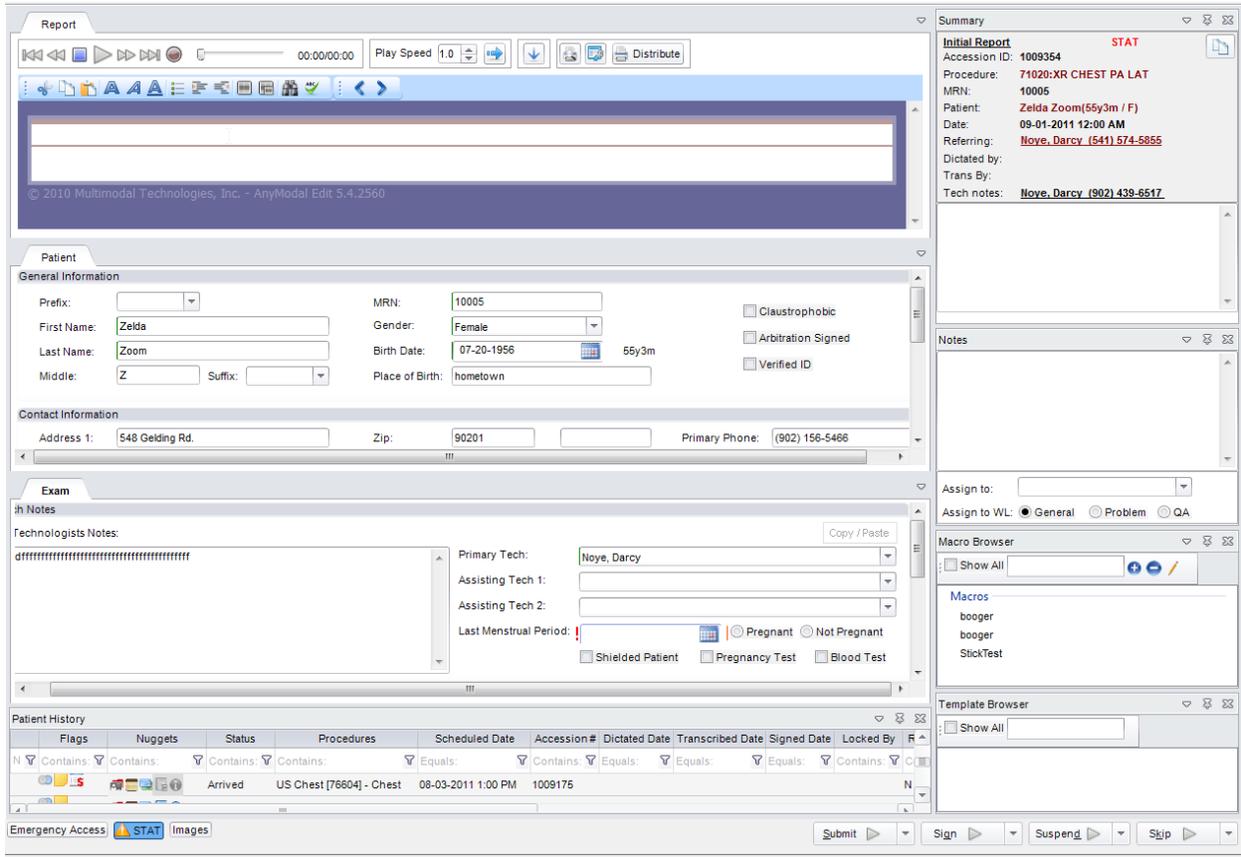


Figure 8.2.3 – Dictating data window sample view 2 horizontal

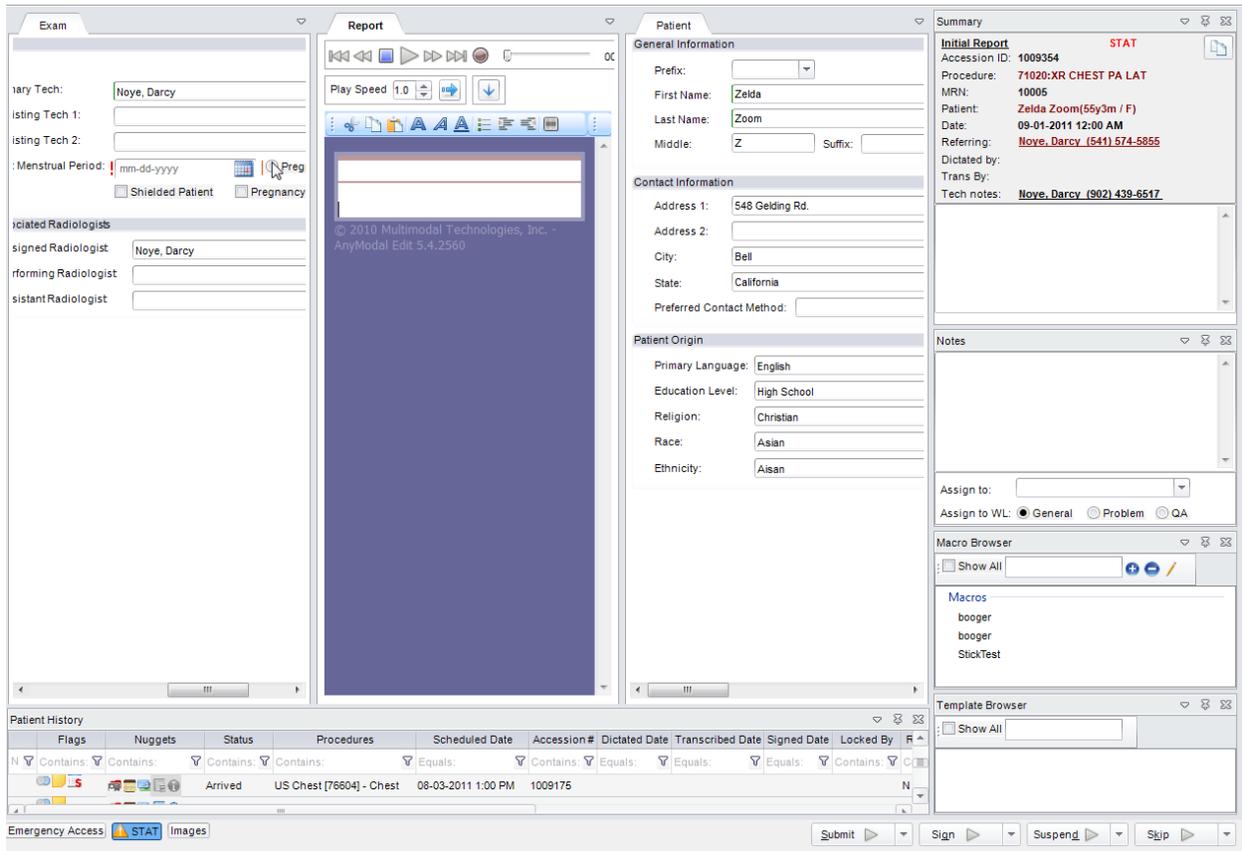


Figure 8.2.4 – Dictating data window sample view 3 vertical

The user can have one or two tabs horizontal / vertical and the other(s) tabbed. The layout can be saved in the users desired configuration. If the layout is changed, but not desired, the user can select reset layout to revert back to the original.

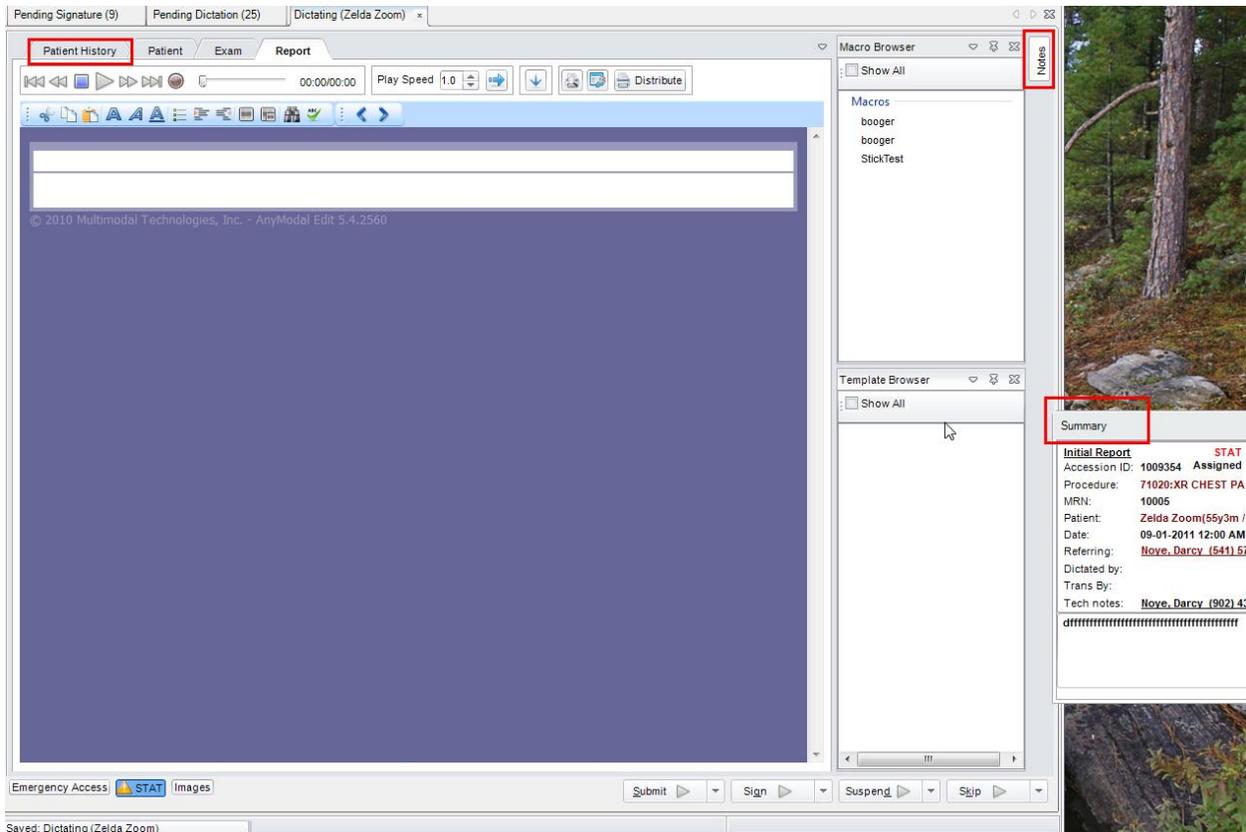


Figure 8.2.5 - Dictating data window sample view 4 permitter panes layout changed

In Figure 8.25 we have the summary screen that is floating on the desktop on the right of the rRIS. Patient history is a tab next to the patient tab (sequence of tabs can be re-arranged), and the notes are unpinned to make them auto hide on the left side of the window. Hover the mouse over the unpinned data panes will expand that data pane into view.

8.2.1 Patient Tab

Figure 8.2.2 shows the patient tab. The information available are the patients general Information such has name, gender date of birth, contact information, patient Origin, and patient notes.

8.2.2 Exam Tab

The exam tab is a view of the technologist’s notes, the tech that performed the exam, procedure details, and assigned radiologists.

8.2.3 Report Tab

On the report tab the user will find the report template, the dictation control, the ability to adjust play back speed, distribute report, report history, and preview report.

Dictation Control

The dictation control buttons in use will be lit to easily identify the current state. The buttons will light up in a blue color, with the exception of the record button which will be red. When no buttons are selected from either the Speechmike, or the dictation control, the stop button will be lit blue.



Figure 8.2.3.1 – Dictation control in a stopped state



Figure 8.2.3.2 – Dictation control in record state

A right click within the report template will open context menu. From this menu the option of text expander is available. The text expander has a preconfigured list, but the user may also add to this list.

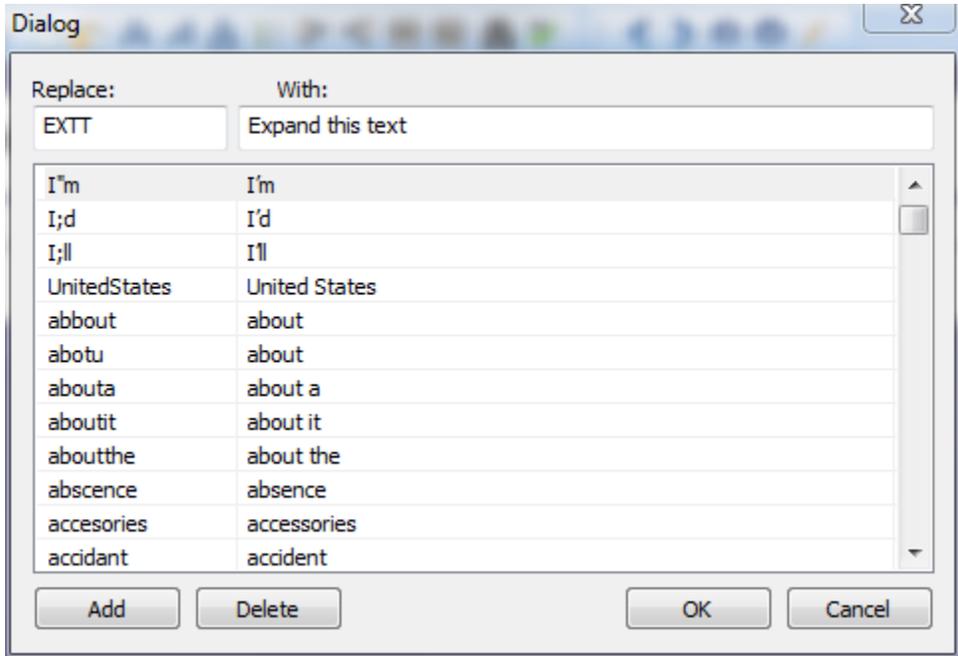


Figure 8.2.3.3 – Text expander dialog window

Report History

Report history is accessed from the Icon outlined in red below. Selecting this button will open the Report History window.

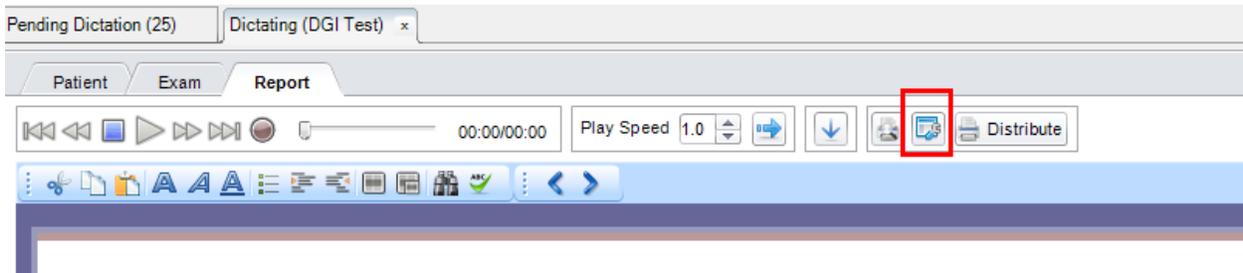


Figure 8.2.3.4 – Report History Icon

The user can select which version they would like to view as well as play back the dictation for that interpretation. The user may also enter another accession number to view the report and play back the dictation. The study info panel displays information about the patient and specific history of the study.

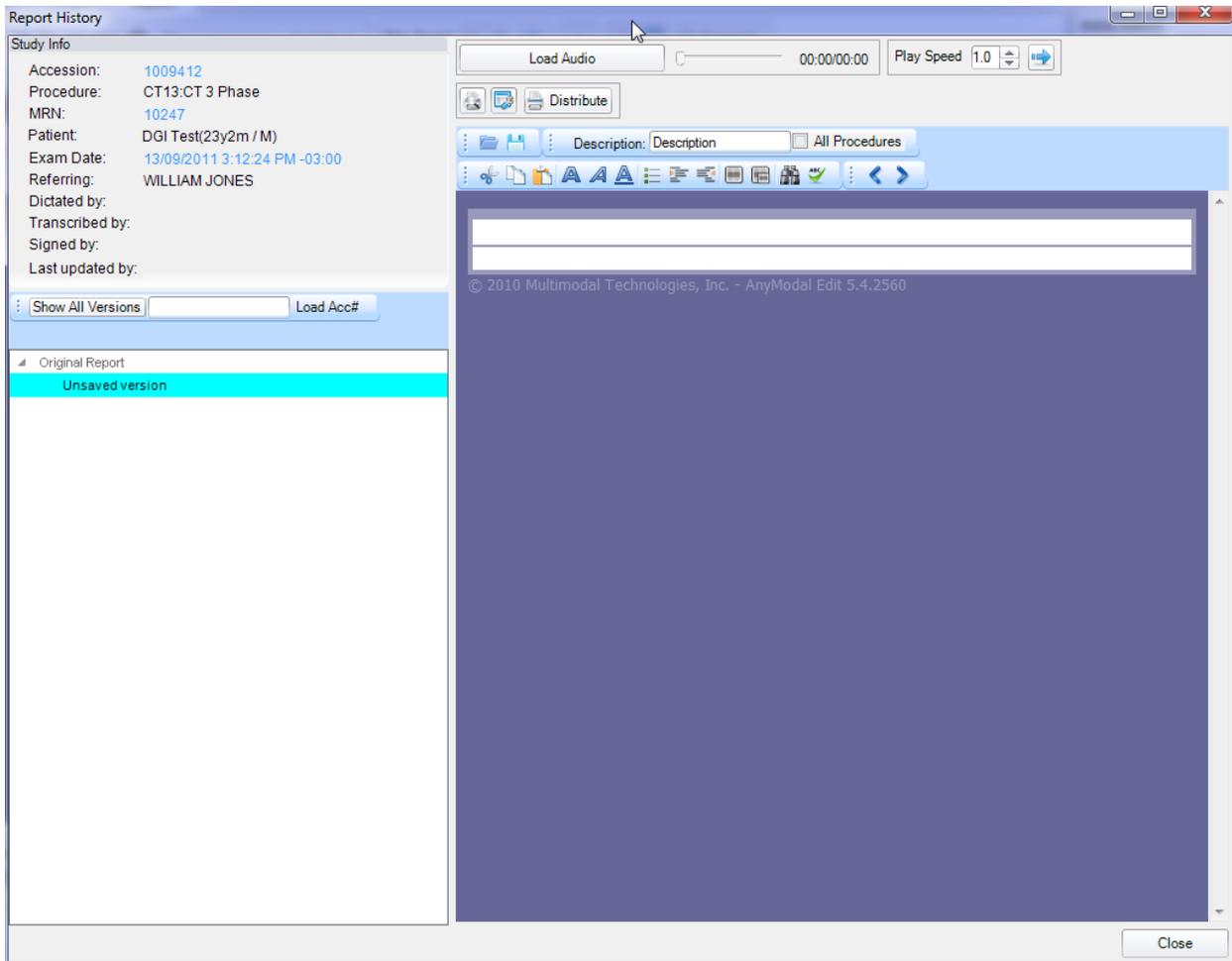


Figure 8.2.3.5 – Report History Window

The Report Preview button outlined in red below provides the radiologist and the technologist the ability to preview diagnostic reports.

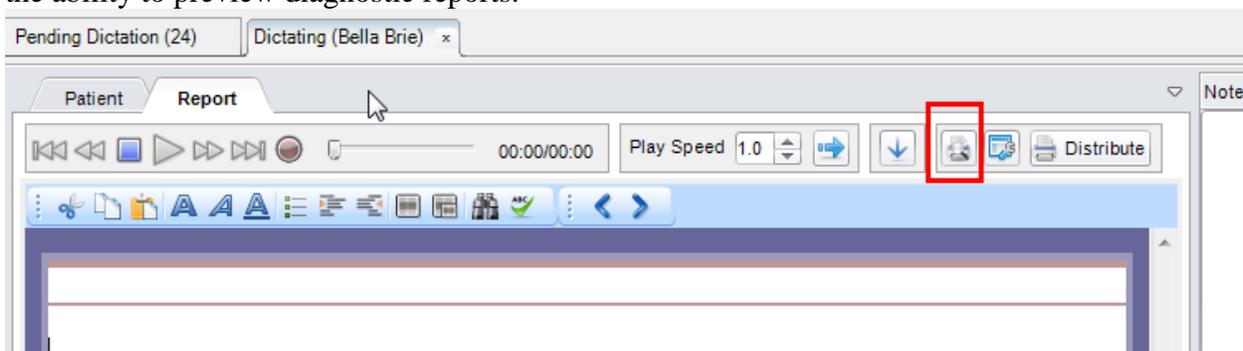


Figure 8.2.3.6 – Report Preview

From within the diagnose window or create reports windows will display a print layout view of the report even when the interpretation is not saved to the DB.

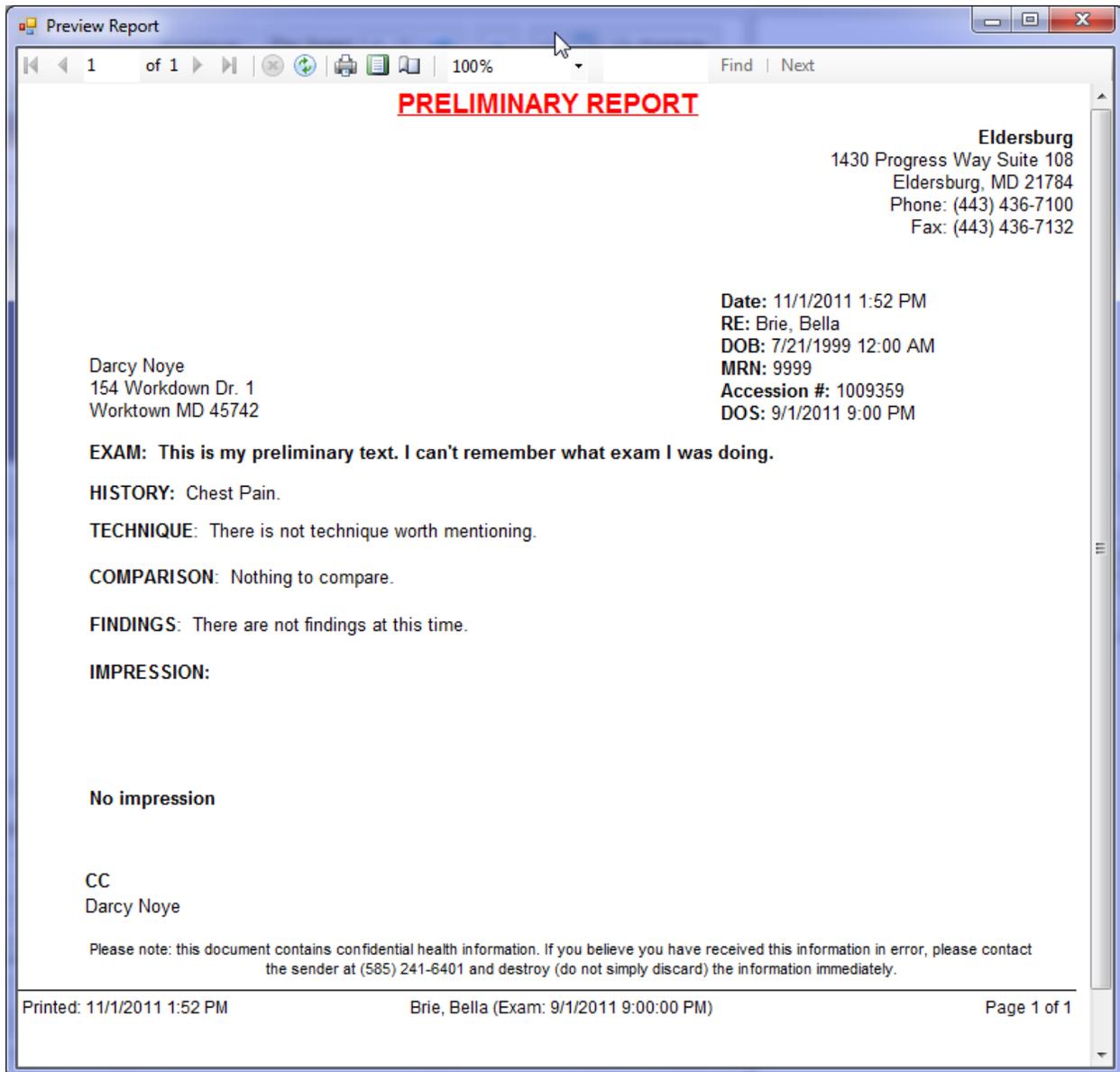


Figure 8.2.3.7 – Report Preview

Dictating and Create Report Configurable Default Buttons

The button controls on the Dictating, and Reporting windows for Radiologists and Transcriptionists have a downward arrow next to the button indicating that there is more than one potential action that can be completed on a particular button control. Figure 8.2.3.8 displays these buttons, with the Submit button menu expanded showing alternate actions. Hover the mouse pointer over the button will show its default value. Clicking directly on the button will perform the assigned default action.

You can see in Figure 8.2.3.8 that two option from this buttons drop down list have bypass VR. Selecting one of this menu options will submit the dictation skipping voice recognition.

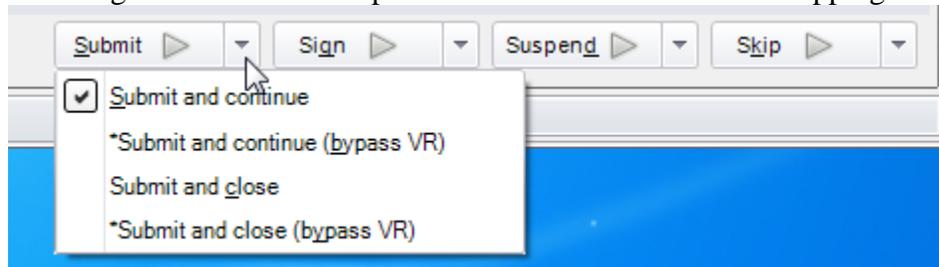


Figure 8.2.3.8 – Radiologist drop down buttons

To change the default action of the button, hold down the CTRL key on the keyboard and select the action from the drop down list. The option selected from the list will be performed as well as change the default setting for the button. When the default action is changed for a button, the text on the button will also change.

Some actions are preceded by an ‘*’ (as displayed in figure 8.2.3.8), these are the actions that cannot be defaulted. If the user attempts to default that action a message box would be displayed.

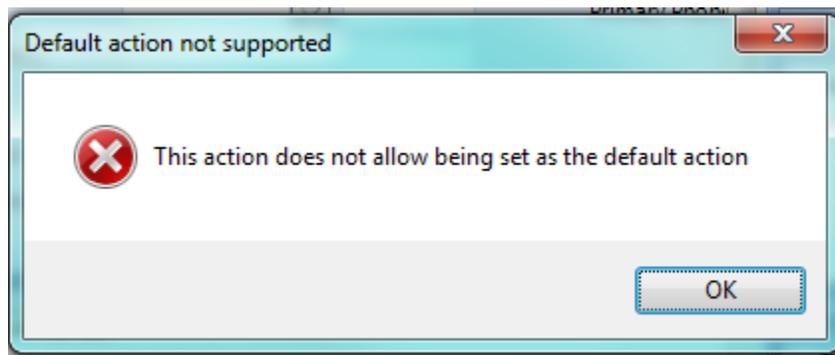


Figure 8.2.3.8 – Message informing user the action cannot be defaulted to the button

Actions are defined as “button action” and continue or “button action” and close. Referring to Figure 8.2.3.9, you will notice ICONS on the buttons as play ► or stop ◻. Assigning actions that are to continue to the next record on the work list display the play ICON, and actions that are to complete action and close data window to return to the work list will have the stop ICON.

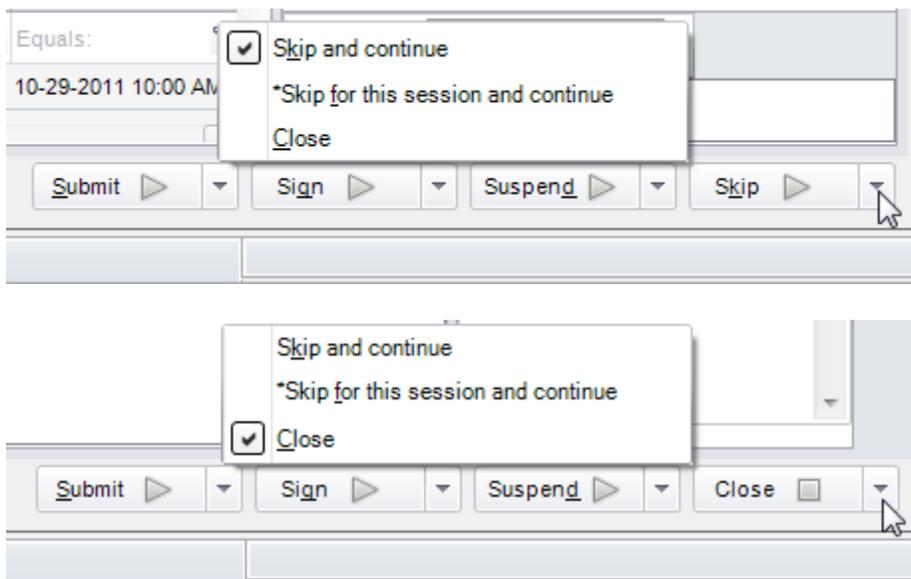


Figure 8.2.3.9 – Default button changed. Default action checked in drop menu with text on button also changed.

In figure 8.2.3.9 the menu options are to skip the current exam and a specified following action. In this example Skip and Close is defaulted with the action being to simply close the Dictate window.

Skip and continue will skip the item for the current workflow instance. To access this exam in the Dictate window again, it can be opened directly from the work list as normal, or if the user completes the entire work list, then the skipped rows are accessed next.

The final menu option of “*Skip for this session and continue” will mark this exam as such. Unlike “Skip and Continue” once the user completes the work list, exams flagged “*Skip for this session and continue” will not be accessed during the normal “next available exam” work flow. If the user so chooses, they can access the exam via the work list, or if the exam(s) are to be added back into the “next exam” work flow, the user does have the ability to manually add these skipped exams back into the workflow by resetting skipped rows via the Radiologist menu option displayed in Figure 8.2.3.10. Also in Figure 8.2.3.10 is the window that opens. The user can reset individual rows or all of the skipped rows in this list.

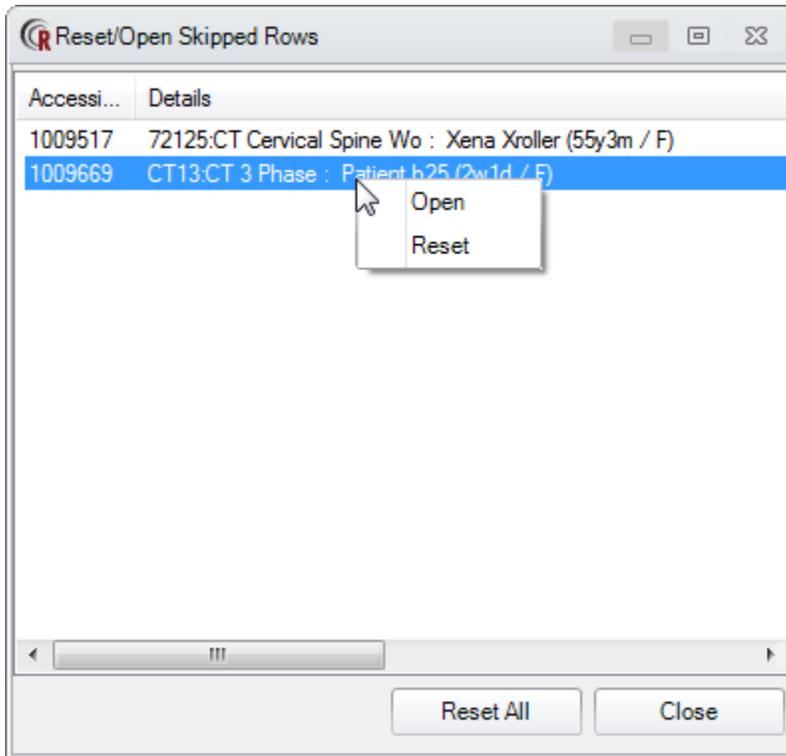
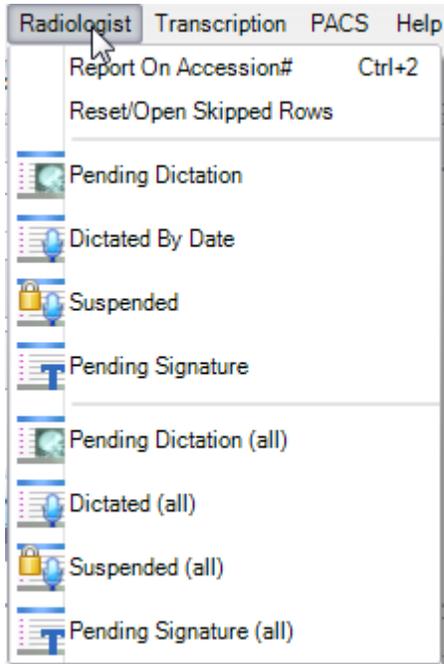


Figure 8.2.3.10 – Reset/Open Skipped Rows menu option and Window

Emergency Access

If the user has the Emergency Access flag, they will be permitted to override a lock to an exam and continue workflow. Figure 8.2.3.11 shows the Dictate window open by a user that has the Emergency Access flag. This exam is not owned by this particular user. Selecting the Emergency Access button will enable the “Submit, Sign, and Suspend” buttons, permitting the user to continue workflow for this exam. The emergency access flag is set for the user in the personnel editor.

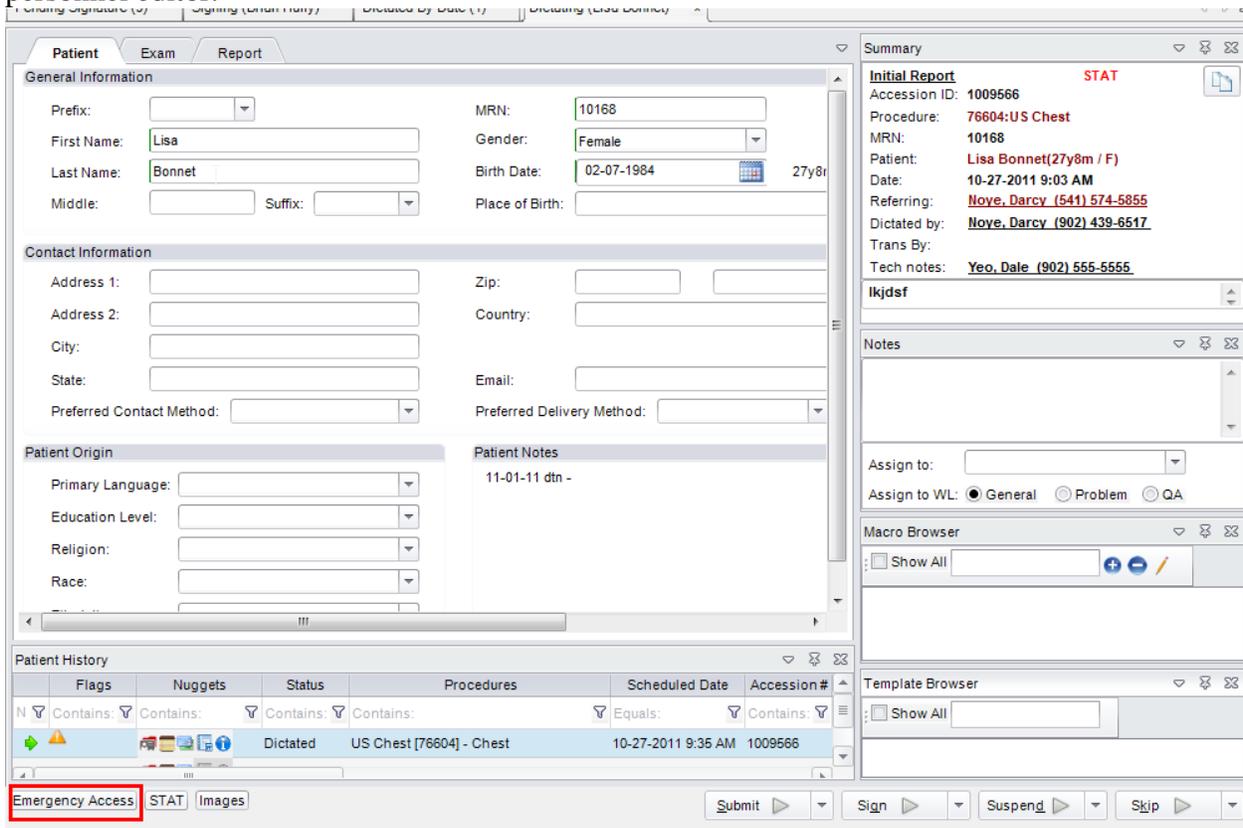


Figure 8.2.3.11 – Emergency access

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The screenshot displays the RADNET rRIS interface with the following sections:

- Patient** (selected tab):
 - General Information:** Prefix, First Name: Lisa, Last Name: Bonnet, Middle, Suffix, MRN: 10168, Gender: Female, Birth Date: 02-07-1984, Place of Birth.
 - Contact Information:** Address 1, Address 2, City, State, Zip, Country, Email, Preferred Contact Method, Preferred Delivery Method.
 - Patient Origin:** Primary Language, Education Level, Religion, Race.
 - Patient Notes:** 11-01-11 dtn -
- Summary:**
 - Initial Report** (STAT): Accession ID: 1009566, Procedure: 76604:US Chest, MRN: 10168, Patient: Lisa Bonnet(27y8m / F), Date: 10-27-2011 9:03 AM, Referring: [Noye, Darcy \(541\) 574-5855](#), Dictated by: [Noye, Darcy \(902\) 439-6517](#), Trans By, Tech notes: [Yeo, Dale \(902\) 555-5555](#).
 - ikjdsf
- Notes:** Assign to, Assign to WL: General Problem QA.
- Macro Browser:** Show All []
- Template Browser:** Show All []

- Patient History:**

Flags	Nuggets	Status	Procedures	Scheduled Date	Accession#
N	Contains: [v]	Contains: [v]	Contains: [v]	Contains: [v]	Contains: [v]
		Dictated	US Chest [76604] - Chest	10-27-2011 9:35 AM	1009566
- Emergency Access:** **STAT** (highlighted in red), Images
- Buttons:** Submit, Sign, Suspend, Skip
- Footer:** Connected: QE Current 1.1.25.6949

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8.3 Dictated by Date

The Dictated by date work list is a daily view of jobs completed by the logged in user. It shows jobs in all status from Dictated to Signed.

Buttons actions from the Dictated by Date work list is only Dictate. Context menu options are Assign to Transcriptionist, Stat case (has sub menu to assign/unassign), Problem Queue (sub menu to assign/unassign) , QA Queue (sub menu to assign/unassign), Change Status To Report Drafted, Delete the dictation/report and reset the status, Patient Folder Audit History, Copy Cell and Request Copy of Images.

Again, the work list columns available are numerous so I have added two screenshots with an overlap of the columns displayed.

Flags	Status	Procedures	First Name	Last Name	MRN	Locked By	Room	Accession #	Transcribed By	Transcribed Date	Dictated By	Dictated Date	Suspended By	Suspended Date	Study Key	Transcriptionist	Read STAT	Problem	Qz
	ReportDraf...	CT 3 Ph...	Claire107	Chaney	34500		CT1EL	1009290	darcyn	10-20-2011 12:...	darcyn	10-20-2011...			22504		N	N	N
	ReportDraf...	US Ches...	Barry	Melrose	10155		US1EL	1009311	darcyn	10-20-2011 8:2...	darcyn	10-20-2011...			22525		N	N	N
	ReportDraf...	XR Ches...	Bella	Brie	9999		XR1EL	1009336	darcyn	10-20-2011 12:...	darcyn	10-20-2011...			22550		N	N	N
	Transcribed	NM Testi...	Gretchen	Doctorson	10196		Outsid...	1009365	darcyn	10-29-2011 9:2...	darcyn	10-20-2011...			22569		N	N	N
	ReportDraf...	CT 3 Ph...	DGI	Test	10247		CT1LU	1009413	System	10-20-2011 11:...	darcyn	10-20-2011...			22623		N	N	N
	ReportDraf...	CT 3 Ph...	Jason	Campbell	10255		CT1EL	1009418	System	10-20-2011 11:...	darcyn	10-20-2011...			22628		N	N	N
	ReportDraf...	CT Head...	Artie	Houphm...	10240		CT1EL	1009477	darcyn	10-20-2011 8:1...	darcyn	10-20-2011...			22687		N	N	N
	Transcribed	CT Lumb...	Harriet	Thespy	10303		CT1LU	1009478	darcyn	10-29-2011 9:4...	darcyn	10-20-2011...			22688		N	N	N
	Signed1	XR HEE...	Garret	Bundigger	10347		XR1EL	1009530	darcyn	10-20-2011 7:2...	darcyn	10-20-2011...			22740		N	N	N

Figure 8.3.1 – Dictated by Date

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Pending Signature (8) | Dictated By Date (9) x

10-20-2011

ribed Date	Dictated By	Dictated Date	Suspended By	Suspended Date	Study Key	Transcriptionist	Read STAT	Problem	QA	Audio Size (bytes)	Audio Length	MModal Job Id	MModal-Learning Submitted	MModal-Learning Complete	Exam STAT
011 12:...	darcyn	10-20-2011...			22504	N	N	N	0	00:00:00		N	N	N	N
011 8:2:...	darcyn	10-20-2011...			22525	N	N	N	25208	00:00:06		N	N	N	N
011 12:...	darcyn	10-20-2011...			22550	N	N	N	0	00:00:00		N	N	N	N
011 9:2:...	darcyn	10-20-2011...			22569	N	N	N	0	00:00:00		N	N	N	N
011 11:...	darcyn	10-20-2011...			22623	N	N	N	0	00:00:00		N	N	N	N
011 11:...	darcyn	10-20-2011...			22628	N	N	N	0	00:00:00		N	N	N	N
011 8:1:...	darcyn	10-20-2011...			22687	N	N	N	59866	00:00:15		N	N	N	N
011 9:4:...	darcyn	10-20-2011...			22688	N	N	N	23826	00:00:06	2.16.840.1.1...	N	N	N	N
011 7:2:...	darcyn	10-20-2011...			22740	N	N	N	44050	00:00:11		N	N	N	N

Auto Refresh Dictate

Figure 8.3.2 - Dictated by Date

8.4 Suspended work list

There are two views of the Suspended work list. Most users will only see the one that displays the current exams in Suspended state by the current logged in user. Admin types can also view the Suspended (all) which shows all jobs in suspended state for all users.

There is only one button action of Dictate from this work list.

The context menu options are Assign to Radiologist, Stat Case (sub menu to assign/unassign), Patient Folder, Audit History, Copy Cell and Request Copy of Images.

Two screen shots are needed to display all of the columns for this work list.

Flags	Status	Procedures	First Name	Last Name	MRN	Locked By	Room	Accession #	Transcribed By	Transcribed Date	Dictated By	Dictated Date	Suspended By	Suspended Date	Study Key	Transcriptionist	Read STA
ExamDone	CT 3 Phase [CT13]	two	studies	10324	CT1EL	1009600							darcyn	10-13-2011 10:...	22709		N
ExamDone	CT Abdomen W &...	Michael	Vick	10254	CT1LU	1009419							darcyn	10-20-2011 11:...	22629		N
ExamDone	XR Chest Min 4 Vi...	Adele	Acorn	9998	Outsid...	1009358							darcyn	10-20-2011 12:...	22672		N

Figure 8.4.1 – Suspended work list

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The screenshot shows a software interface with a table of suspended work items. The table has the following columns: Dictated By, Dictated Date, Suspended By, Suspended Date, Study Key, Transcriptionist, Read STAT, Problem, QA, Audio Size (bytes), Audio Length, MModal Job Id, MModal-Learning Submitted, MModal-Learning Complete, and Exam STAT. The table contains three rows of data, all with 'N' values in the Read STAT, Problem, QA, and Exam STAT columns. The first row has an Audio Size of 13056 bytes and an Audio Length of 00:00:03. The second and third rows have an Audio Size of 0 bytes and an Audio Length of 00:00:00. The interface also includes a search bar at the top, a scroll bar at the bottom, and a 'Dictate' button.

Dictated By	Dictated Date	Suspended By	Suspended Date	Study Key	Transcriptionist	Read STAT	Problem	QA	Audio Size (bytes)	Audio Length	MModal Job Id	MModal-Learning Submitted	MModal-Learning Complete	Exam STAT
darcyn	10-13-2011 10:...	22709				N	N	N	13056	00:00:03		N	N	N
darcyn	10-20-2011 11:...	22629				N	N	N	0	00:00:00		N	N	N
darcyn	10-20-2011 12:...	22572				N	N	N	0	00:00:00		N	N	N

Figure 8.4.2 – Suspended work list additional columns

8.5 Pending Signature work list

The Pending Signature work list contains the exams that require sign off by the logged in user. Users of resource type Radiologist will have their Pending Signature work list launch when they log into the application.

Again admin types will also have an additional Radiologist menu option of Pending Signature (all) display a view of reports from all users that needing final signature.

The only button action available is Sign Reports.

Context menu options are Dictate, Patient History, Audit History, Copy Cell, Change Status To Report Drafted, Delete the dictation/report and reset the status, Forms and Labels, Stat Case...(sub menu to assign/unassign) and Request Copy of Images.

The following two figures were required to display all columns available in the Pending Signature work list.

Flags	Status	Procedures	Scheduled Date	First Name	Last Name	MRN	Birth Date	Age At Stu...	Room	Modality...	Accessio...	Exam STAT	Read STAT	Problem	QA	Performed End Date	Performed Start Date	Transcriptionist	Radiol...	Techno...
		Tran... CT Sinus...	08-30-2011 1:...	Zelda	Zoom	10...	07-20-1...	55 years	CT1...	CT	1009334	N	N	N	N	08-31-2011 11:38...	08-31-2011 11:38...			Darcy...
		Tran... CT Chest...	10-06-2011 8:...	Brian	Huffy	10...	07-12-1...	32 years	CT1...	CT	1009493	N	N	N	N	10-06-2011 8:49 AM	10-06-2011 8:49 AM			Dale Yeo
		Tran... CT Chest...	08-23-2011 8:...	Stuart	Hughes	92...	05-12-1...	47 years	CT1...	CT	1009273	N	N	N	N	08-23-2011 1:52 PM	08-23-2011 1:51 PM			Dale Yeo
		Tran... CT Lumb...	09-30-2011 1:...	Harriet	Thespy	10...	06-14-1...	17 years	CT1...	CT	1009478	N	N	N	N	09-30-2011 11:28...	09-30-2011 11:28...			Dale Yeo
		Tran... CT 3 Pha...	09-02-2011 12:...	Bob	Harris	10...	04-04-1...	34 years	Out...	CT	1009356	N	N	N	N	09-02-2011 12:00...	09-02-2011 12:00...	LGraves		Dale Yeo
		Tran... NM Testi...	09-01-2011 12:...	Gretchen	Doctorson	10...	04-04-1...	34 years	Out...	NM	1009365	N	N	N	N	09-01-2011 12:00...	09-01-2011 12:00...			Darcy...
		Tran... XR ELBO...	09-27-2011 12:...	Bernice	Barry	10...	06-17-1...	47 years	Out...	XR	1009467	N	N	N	N	09-27-2011 12:00...	09-27-2011 12:00...			Outside...
		Tran... XR Hand...	10-12-2011 9:...	Jazzy	George	10...	02-17-1...	27 years	XR1...	XR	1009505	N	N	N	N	10-12-2011 9:29 AM	10-12-2011 9:22 AM			Dale Yeo

Figure 8.5.1 – Pending Signature work list

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Audio Size...	Time Pending Sign...	MModal Job Id	MModal-Learning Submit...	MModal-Learning Complete	Transcribed...	Transcribed Date	Dictated...	Dictated Date	Suspended By	Suspended Date	Locked By	Chair Id	Chair Qc Flag	Site Code
31d 0h 25m	2.16.840.1.1...	Y	Y	Y	Y	09-30-2011 10...	09-27-2011...							EL
2d 1h 28m		N	N	N	N	10-29-2011 9.4...	10-13-2011...							EL
31d 22h 7m		N	N	N	N	09-29-2011 1.0...	09-27-2011...							LU
2d 1h 29m	2.16.840.1.1...	N	N	N	N	10-29-2011 9.4...	10-20-2011...							LU
2d 1h 43m	2.16.840.1.1...	N	N	N	N	10-29-2011 9.2...	10-04-2011...							EL
2d 1h 45m		N	N	N	N	10-29-2011 9.2...	10-20-2011...							EL
2d 1h 43m	2.16.840.1.1...	N	N	N	N	10-29-2011 9.2...	10-04-2011...							EL
2d 1h 47m		N	N	N	N	10-29-2011 9.2...	10-12-2011...					N		EL

Figure 8.5.2 – Pending Signature work list

Selecting the context menu item Delete the dictation/ report and reset the status will prompt the user with a confirmatory message.

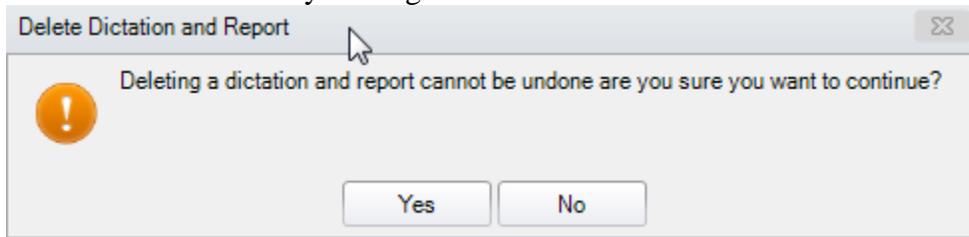


Figure 8.5.3 Delete the dictation / report confirmation dialog

When the delete dictation/report happens the system will remove the current dictation and set the status back to exam done with the exception of an addendum. If the dictation is for an addendum then the application will reset the status back to Signed where it can be dictated on once again if needed.

A dictation deletion can only be performed when the study is in Dictated, ReportDrafted or Transcribed status.

8.5.1 Sign Reports Data window

The data window tabs, panes and features are the same as the dictating data window pictured in section 8.2 of this document. Once the report is signed the exam the accessed from the patient folder.

8.5.2 Amending Reports

From the patient folder select the Exam in the list. This will enable the Dictate button. Selecting the Dictate button will prompt the user with the following message.

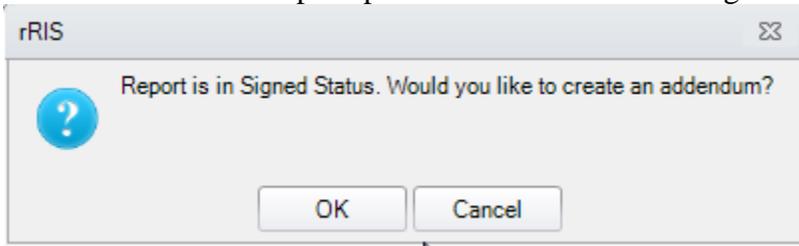


Figure 8.5.2.1 – Create addendum message

After selecting the OK button to the message above will open the Dictating (patient name) window, and the user can complete the dictation or add template normal text, or cancel out and the status of the exam stays in in signed status.

8.6 Report on Accession Number

This feature will allow the user to open the Diagnose screen on a study based on a specified accession number. This provides the user with the ability to bypass the worklist type workflow and run rRis in a “slave” type mode. The input of this accession number can come in different forms as tcp listener, file watcher, etc. These are all used as methods to drive workflow from another system such as a PACS system.

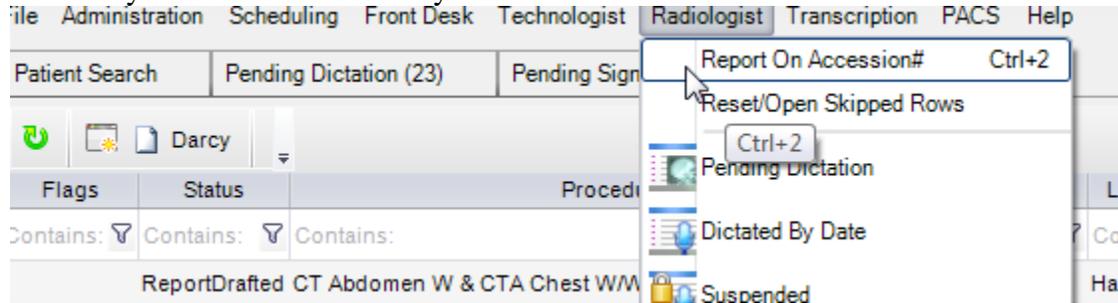


Figure 8.6.1 – Report on Accession Number

The user also has the ability to manually enter an Accession Number and let rRIS search for it. This can be done by using the menu option or the right-click context menu on the system tray icon. If the Accession Number is not found, the user is prompted accordingly.

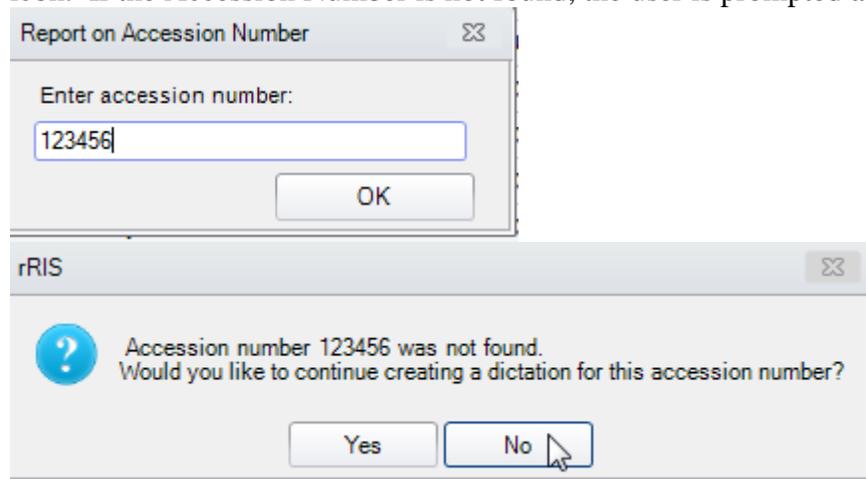


Figure 8.6.2 – Enter Accession Number Dialog and Confirmation Message

9. Transcription

9.1 Report Drafted

The Reported Drafted is a work list for the Transcription role and is a complete list of all jobs that require action to move to Transcribed status (transcribed exams are displayed in the Pending signature work list).

The only button action is Create/Edit Reports.

Context menu options are Assign to Transcriptionist, Stat Case (sub menu to assign/unassign), Problem Queue (sub menu to assign/unassign), QA Queue (sub menu to assign/unassign), Change Status To Report Drafted, Delete the dictation/ report and rest the status, Patient Folder, Audit History, Copy Cell and Request Copy of Images.

The following 2 figures display the columns available from the Reports Drafted work list.

Flags	Status	Procedures	First Name	Last Name	MRN	Locked By	Room	Accession #	Transcribed By	Transcribed Date	Dictated By	Dictated Date	Suspended By	Suspended Date	Study Key	Transcriptionist	Read STAT
	Con...	Cont...	Cont...	Cont...	C...	Cont...	C...	Contains	Contains	Equals	Contains	Equals	Contains	Equals	Contains	Contains	
	ReportD...	CT Abdom...	MC	Hammer	9743		CT1EL	1008813	Terry	05-12-2011 2:17...	Terry	05-12-2011 1...					22024
	ReportD...	XR Chest...	Tricia	Grothen	8611		XR1FH	1007721	Service: rRISS...	05-12-2011 2:34...	Terry	05-12-2011 2...					20932
	ReportD...	XR RECA...	Marty	Callinan	7839		XR2FH	1007084	Terry	05-12-2011 2:36...	Terry	05-12-2011 2...					20296
	ReportD...	MaxDigi...	Hye	Cregor	5716		MA1EL	1005172	Service: rRISS...	05-12-2011 2:47...	Terry	05-12-2011 2...					18383
	ReportD...	XR FOOT...	Sudie	Liebross	8518		XR2FH	1007797	Service: rRISS...	05-12-2011 2:52...	Terry	05-12-2011 2...					21008
	ReportD...	MR MRCP...	Merrill	Dienhart	4952		MR1EL	1004262	Service: rRISS...	05-12-2011 2:57...	Terry	05-12-2011 2...					17473
	ReportD...	MR x Brea...	Janita	Santacruz	5073		MR1EL	1004299	Service: rRISS...	05-12-2011 3:15...	Terry	05-12-2011 3...					17510
	ReportD...	XR FEMU...	Julietta	Vanderli...	8334		XR2FH	1007890	Terry	05-12-2011 3:26...	Terry	05-12-2011 2...					21101
	ReportD...	NM Miralu...	Modesta	Clowes	4084		NM1FH	1003604	Service: rRISS...	05-12-2011 3:31...	Terry	05-12-2011 3...					16815
	ReportD...	XR Femur...	Kala	Nuffer	8569		XR1FH	1007885	Service: rRISS...	05-12-2011 3:32...	Terry	05-12-2011 3...					21096
	ReportD...	XR ELBO...	Johnetta	Lindinha	7950		XR1LU	1007130	Service: rRISS...	05-12-2011 3:32...	Terry	05-12-2011 3...					20341
	ReportD...	XR CHES...	Penelope	Fludd	7818		XR1FH	1007140	Service: rRISS...	05-12-2011 3:34...	Terry	05-12-2011 3...					20351
	ReportD...	XR Cystog...	Veronique	Majocka	8336		XR1FH	1007816	Service: rRISS...	05-12-2011 3:35...	Terry	05-12-2011 3...					21027
	ReportD...	XR Bone...	Shoshana	Marsilli	8415		XR1EL	1007536	Service: rRISS...	05-12-2011 3:35...	Terry	05-12-2011 3...					20747
	ReportD...	CTA Neck...	Mahalia	Fourre	4252		CT1EL	1004220	Service: rRISS...	05-12-2011 3:36...	Terry	05-12-2011 3...					17431
	ReportD...	MR x Che...	Rosella	Bachas	4841		MR1FH	1004198	Service: rRISS...	05-12-2011 3:37...	Terry	05-12-2011 3...					17409
	ReportD...	MaxDigi...	Sherita	Siewing	5225		MA1EL	1005160	Service: rRISS...	05-12-2011 3:38...	Terry	05-12-2011 3...				ian	18371
	ReportD...	MR Lumb...	Daniel	Ayhens	4973		MR1LU	1004385	Service: rRISS...	05-12-2011 3:42...	Terry	05-12-2011 3...					17696
	ReportD...	US OB FO...	Lloyd	Hankinson	4525		US1FH	1004072	Service: rRISS...	05-12-2011 3:45...	Terry	05-12-2011 3...					17283
	ReportD...	DX Appen...	Pa	Luxon	4431		DE1FH	1004346	Service: rRISS...	05-12-2011 3:50...	Terry	05-12-2011 3...					17557
	ReportD...	US Chest...	Jamey	Poling	4011		US2EL	1003901	Terry	05-12-2011 3:51...	Terry	05-12-2011 3...					17112
	ReportD...	PT/CT A...	Omar	Ravitz	9124		PT1FH	1008347	Service: rRISS...	05-12-2011 3:51...	Terry	05-12-2011 3...					21558
	ReportD...	US OB Fol...	Antoinette	Hurrington	4751		US1EL	1003929	Service: rRISS...	05-12-2011 3:52...	Terry	05-12-2011 3...					17140
	ReportD...	XR ELBO...	Ruben	Gaunt	8545		XR1LU	1007880	Service: rRISS...	05-12-2011 3:53...	Terry	05-12-2011 3...					21091
	ReportD...	MR Lumb...	Pauletta	Mellom	4862		MR1EL	1004292	Service: rRISS...	05-12-2011 3:53...	Terry	05-12-2011 3...					17503
	ReportD...	MaxDigi...	Gerald	Weniger	5555		MA1LU	1005003	Service: rRISS...	05-12-2011 4:21...	Terry	05-12-2011 3...					18214
	ReportD...	US Hyster...	Kallin	Litz	4964		US2FH	1004096	Service: rRISS...	05-12-2011 4:21...	Terry	05-12-2011 3...					17307
	ReportD...	MaxDigi...	Lida	Sowl	5092		MA1LU	1004533	Service: rRISS...	05-12-2011 4:21...	Terry	05-12-2011 3...					17744
	ReportD...	XR CHES...	Elena	Downy	7927		XR2FH	1007087	Service: rRISS...	05-12-2011 4:21...	Terry	05-12-2011 3...					20298
	ReportD...	US Neona...	Kristie	Nina	4847		US1EL	1004086	Service: rRISS...	05-12-2011 4:21...	Terry	05-12-2011 3...					17297
	ReportD...	MR Pelvis...	Earlie	Hettinger	4759		MR1FH	1004366	Service: rRISS...	05-12-2011 4:21...	Terry	05-12-2011 3...					17577
	ReportD...	XR FORE...	Catarina	Odonell	7710		XR1LU	1007149	Service: rRISS...	05-12-2011 4:21...	Terry	05-12-2011 3...					20360

Figure 9.1.1 Report Drafted work list

ID	Suspended Date	Study Key	Transcriptionist	Read STAT	Problem	QA	Audio Size (Bytes)	Audio Length	MModal Job Id	MModal-Learning Submitted	MModal-Learning Complete	Exam STAT
22024		N	N	Y		264307	00:01:09	2.16.840.1.113883.3.21.11740.2011.5.1...	Y	N	N	
20932		N	N	Y		169963	00:00:45	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
20295		N	N	N		83151	00:00:22	2.16.840.1.113883.3.21.11740.2011.5.1...	Y	N	N	
18383		N	N	Y		945032	00:04:10	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
21008		N	N	Y		202437	00:00:53	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17473		N	N	N		209487	00:00:55	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17510		N	N	N		975049	00:04:18	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
21101		N	N	N		1382215	00:06:06	2.16.840.1.113883.3.21.11740.2011.5.1...	Y	N	N	
16815		N	N	N		354147	00:01:33	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
21096		N	N	N		395082	00:01:44	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
20341		N	N	N		992562	00:04:22	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
20351		N	N	N		94470	00:00:25	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
21027		N	N	N		297293	00:01:18	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
20747		N	N	N		992562	00:04:22	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17431		N	N	N		220937	00:00:58	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17409		N	N	N		1375629	00:06:04	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
18371	ian	N	N	N		192382	00:00:50	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17596		N	N	N		945032	00:04:10	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17283		N	N	N		69432	00:00:18	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17557		N	N	N		145673	00:00:38	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17112		N	N	N		418748	00:01:50	2.16.840.1.113883.3.21.11740.2011.5.1...	Y	N	N	
21558		N	N	Y		120672	00:00:31	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17140		N	N	N		143003	00:00:37	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
21091		N	N	N		515869	00:02:16	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17503		N	N	N		354147	00:01:33	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
18214		N	N	N		992562	00:04:22	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17307		N	N	N		158387	00:00:41	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17744		N	N	N		73546	00:00:19	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
20298		N	N	N		145673	00:00:38	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17297		N	N	N		94470	00:00:25	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
17577		N	N	N		177160	00:00:46	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	
20360		N	N	N		250733	00:01:06	2.16.840.1.113883.3.21.11740.2011.5.1...	N	N	N	

Figure 9.1.2 Report Drafted work list

Selecting the context menu item Delete the dictation/ report and reset the status will prompt the user with a confirmatory message.

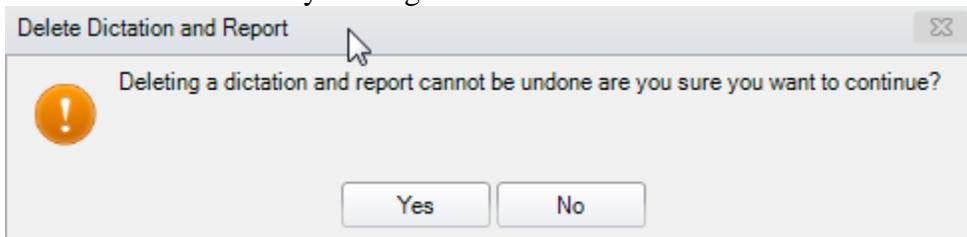


Figure 9.1.3 Delete the dictation / report confirmation dialog

When the delete dictation/report happens the system will remove the current dictation and set the status back to exam done with the exception of an addendum. If the dictation is for an addendum then the application will reset the status back to Signed where it can be dictated on once again if needed.

A dictation deletion can only be performed when the study is in Dictated, ReportDrafted or Transcribed status.

9.1.1 Reported Drafted Data Window

The Transcription Editor is a mirror image of the Dictating data windows with the exception of the button available to skip and close.

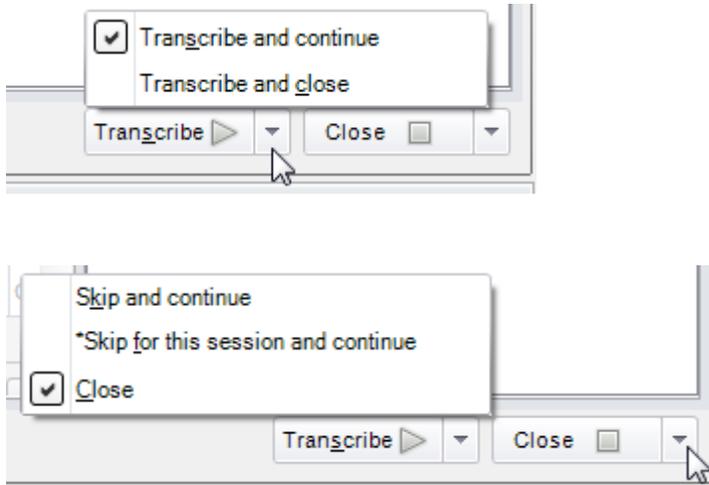


Figure 9.1.1.1 Transcription Editor buttons for transcribing and closing

9.1.2 Diagnostic – Note to Radiologist

Note to Radiologist has been added in this build. Utilizing the pre-existing “Transcription Notes” data pane in the reporting data window, a checkbox was added. When checked it marks the notes are meant for the radiologist to review. Also when this checkbox is selected the “Assign to:” and Assign to WL:” are disabled.

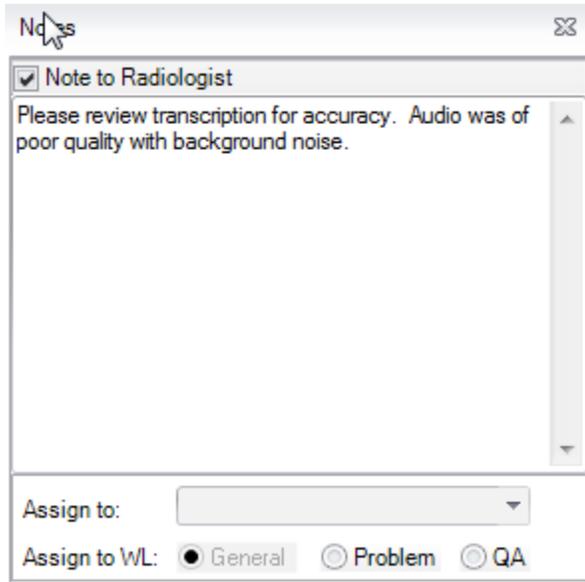


Figure 9.1.2.1 – Note to Radiologist selecting, disabling Assign to and Assign to WL

When the transcriptionist submits this study with “Note to Radiologist” checked, the Radiologist must acknowledge the note before the study can be signed off.

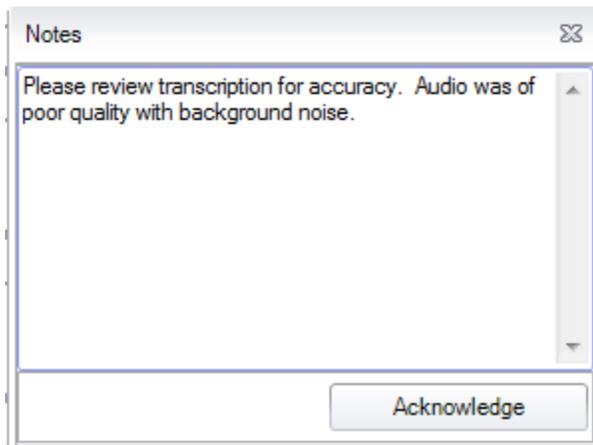


Figure 9.1.2.2 – Note to Radiologist – Note to be acknowledged.

The Radiologist can choose to re-dictate, edit report, or edit data window fields without having to acknowledge the “Note to Radiologist”. If the exam is moved to a status of Dictated or Report Drafted, the flag for “Note to Radiologist” is retained. The radiologist still has to acknowledge the note before it can be signed. If the exam status was changed to Report Drafted by a radiologist, the transcriptionist can remove the “Note to Radiologist” flag and the exam will no longer have to be acknowledged by the Radiologist.

If the Radiologist attempts to sign off a report that has not been acknowledged, they will be presented with a confirmatory message that provides the option to acknowledge and sign off, or select No and return to the data window.

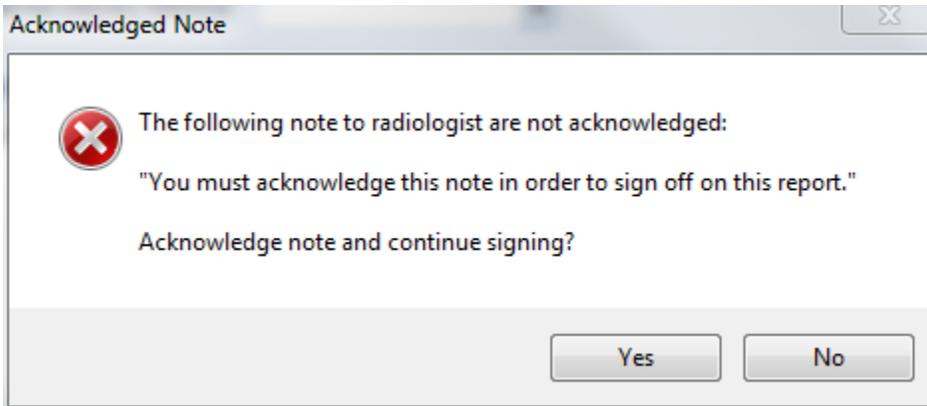


Figure 9.1.2.3 – Confirmation of signing before acknowledging Note To Radiologist

9.1.3 Optimizing Dictation Playback

On the reporting control there is an Optimize Playback toggle buttons . When this button is enabled, rRIS will skip any dead space in the report/dictation. The button state is stored at the user level so the application will remember the setting when the next report is loaded.

9.1.4 Playback Speed per Radiologist

Transcription can adjust the playback per radiologist. If Radiologist A has a slower talking rate when dictating, and Radiologist B has a faster, the transcriptionist can adjust the playback speed. The speed selected will be auto saved and the next dictation the transcriptionist completes on Radiologist A or B, etc... is maintained.

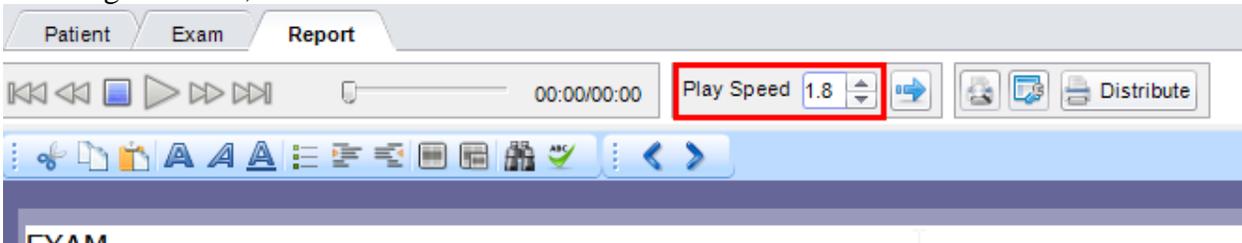


Figure 9.1.2.4 – Playback speed

9.2 Pending Review

The Pending Review work list contains jobs that may have been dictated on but the accession number was not recognized by the system, the job will be added to this work list.

Only the Create/Edit Reports button action is available from this work list.

The context menu options are

Again 2 figures were needed to show the columns available.

Please Note that in rRIS first release, although the menu item and work list is accessible, the feature is not complete, therefore there will be no records assigned to the work list. This is listed as a known limitation.

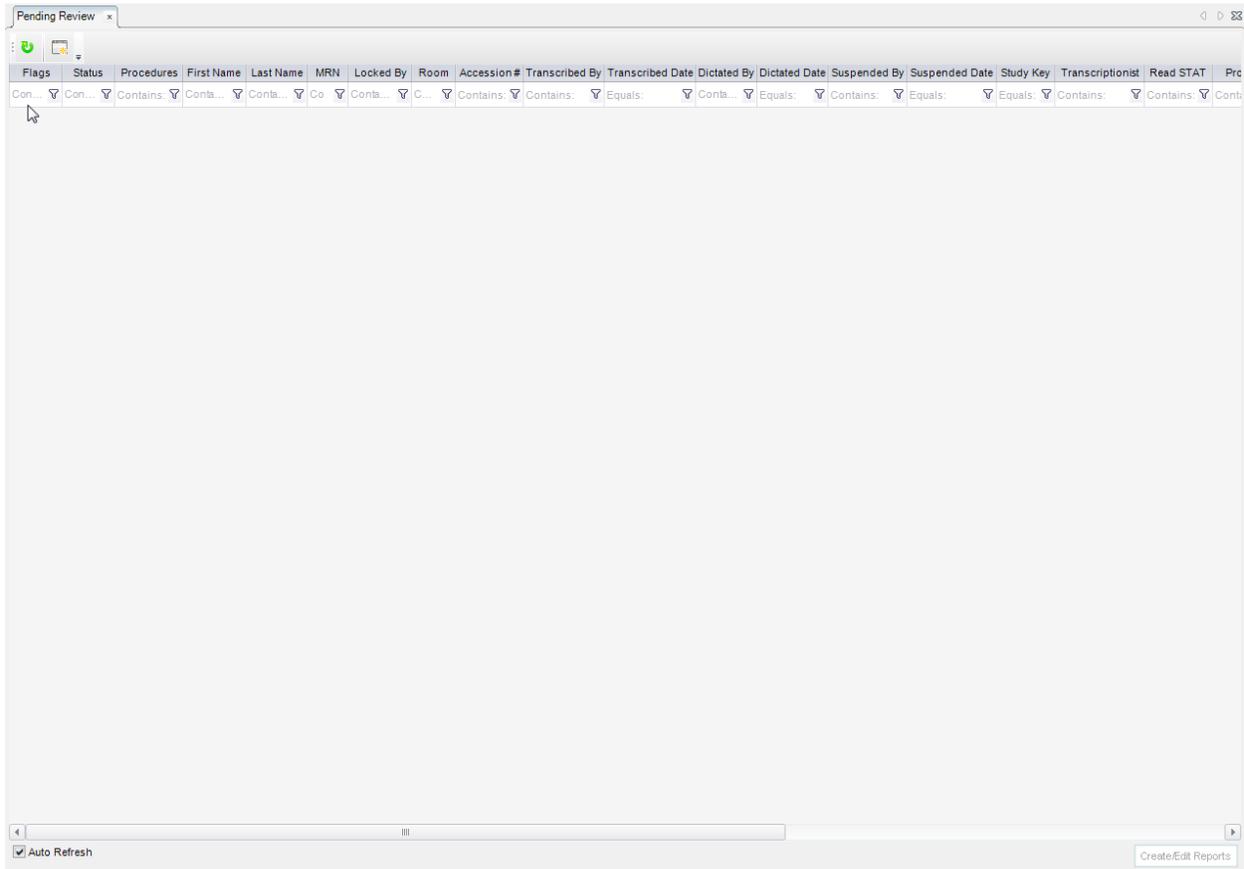


Figure 9.2.1 – Pending Review work list

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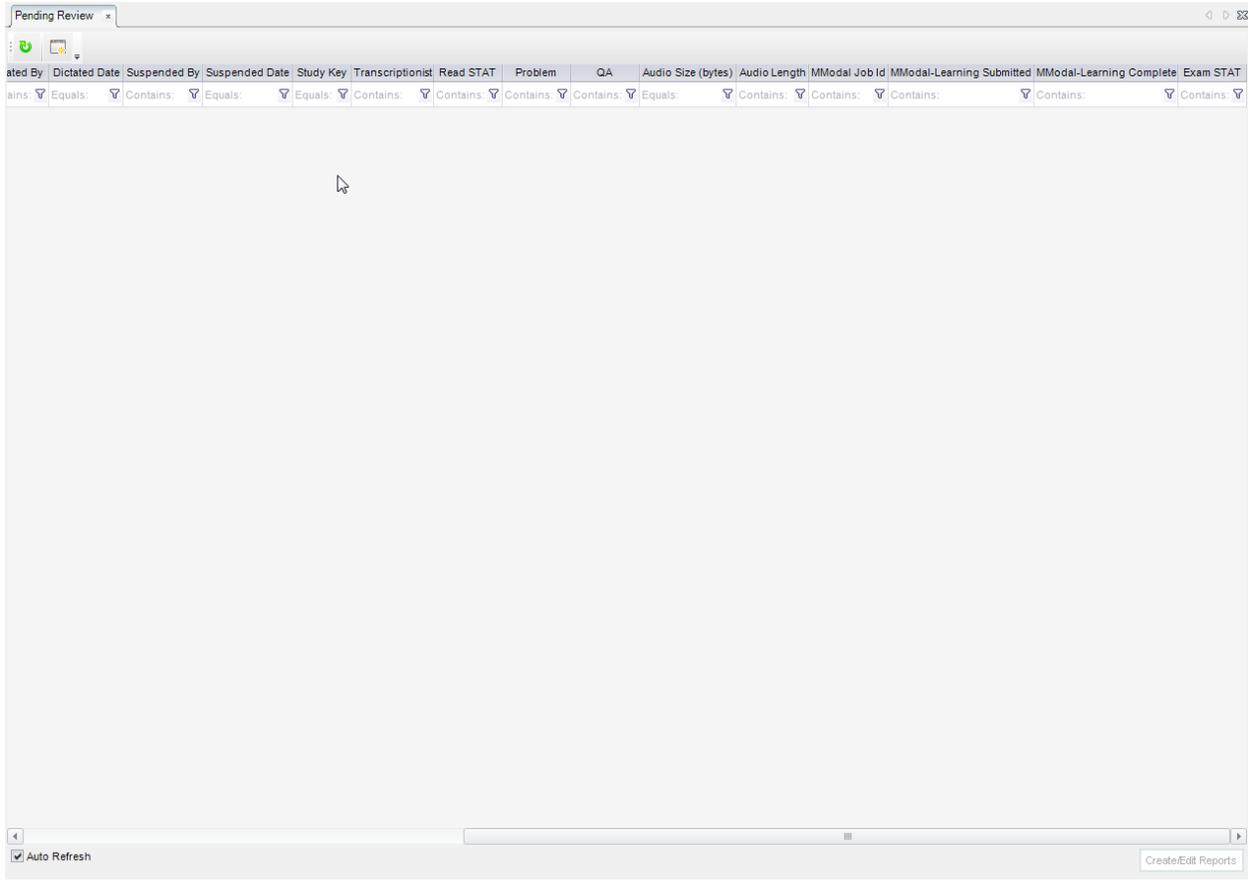


Figure 9.2.2 – Pending Review work list

10. CDS Job Manager

The CDS Job Manager is an application that handles communication with our MModal partner for voice recognition. You can access the CDS Job Manager console from within the rRIS main GUI application. Under the menu option Administration>CDS Job Manager.

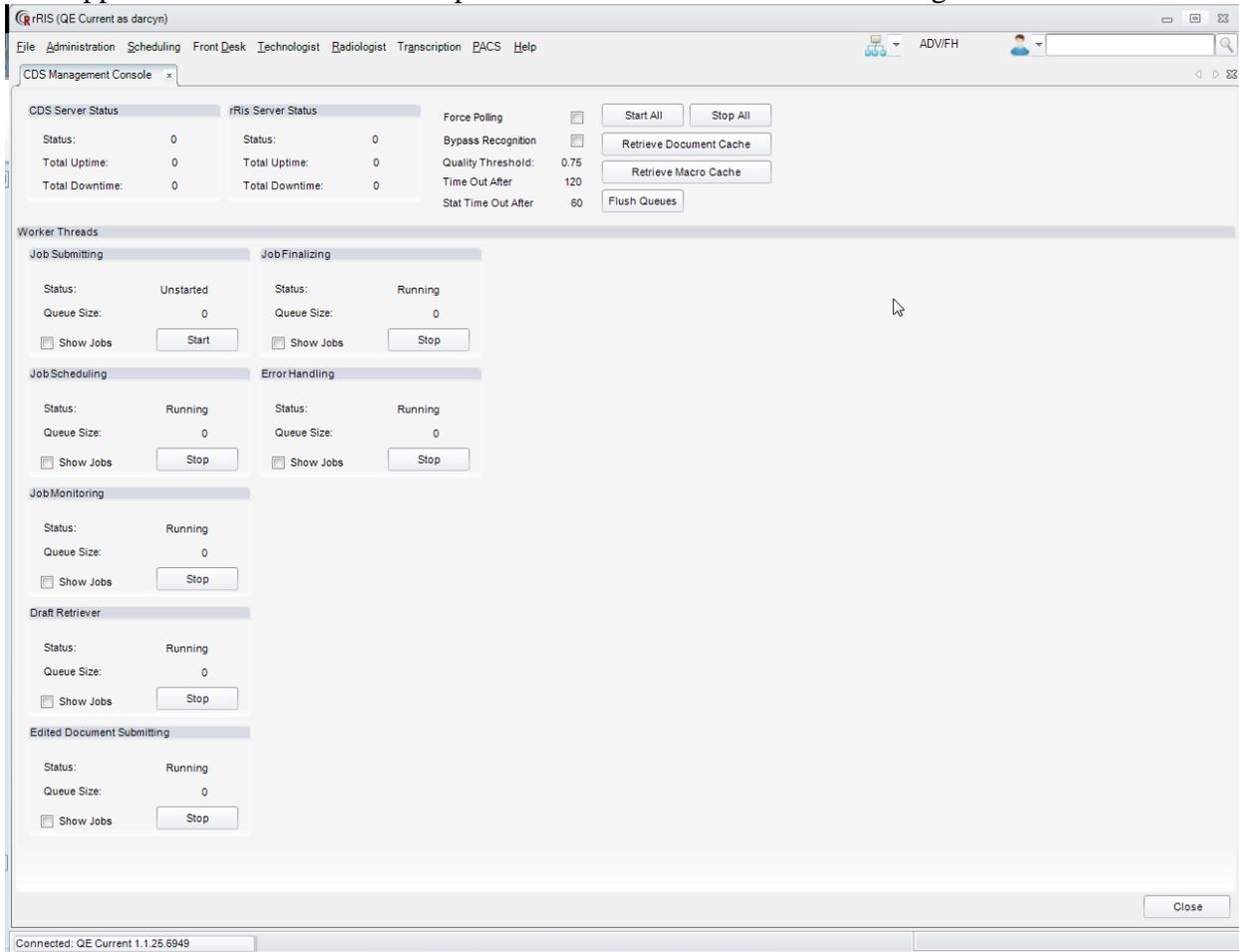


Figure 10.1 CDS Job Manager Console

CDS Server Status: shows the amount of uptime and downtime since the last service restart that the CDS service has been communicating with MModal servers.

rRIS Server Status: shows the amount of uptime and downtime since the last service restart that the CDS service has been communicating with rRIS servers

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Force Polling: normally we poll MModal for completed jobs every 10 minutes for normal cases and 5 minutes for stat cases. If this option is checked we will poll every minute. This should only be turned on in cases where you are trying to catch jobs or when trouble shooting.

Bypass Recognition: if this option is checked we will always return typing documents to the MT's and bypass the recognition process completely. This is added in the event a site wants digital dictation only if the MModal servers go down for an extended period of time.

Quality Threshold (70): reflects the system configuration value stored in the lookup table. When a dictation is submitted for recognition we get a quality score. If the quality score is higher than this value we will wait for the recognized draft to be returned from MModal. If the quality score is below the value we will bypass recognition and return a typing document.

Time out after: reflects the CDSTimeOutInMinutes.

Stat Time out after: reflects the CDSStatTimeOutInMinutes.

Start All : this will start all of the worker threads (processes)

Stop All: this will stop all of the worker threads (processes)

Retrieve Document Cache: this will download all of the templates from MModal into the rRIS database

Retrieve Macro Cache: this will download all of the macros (normal) from MModal in the rRIS database

Flush Queues: this will clear all of the worker threads of any data (jobs) that may be in each process

11. Organization Picker

The ability to change between organizations has been built into the application. A new ICON



was added to the menu bar. Selecting the arrow next to the ICON will expand to a drop down list enabling the user to change from current site. Expanding the list will display all the Orgs and Sites the current logged in user is configured for. When the selected Org or site changes, work lists will refresh as will the label next to the ICON. The org and site codes of your currently selected Organization and site are displayed to the right of the ICON.

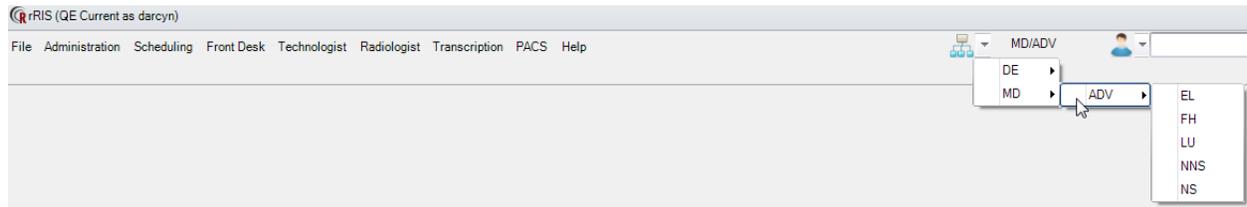


Figure 11.1 – Expanded Organization Picker

12. Search Functionality

Within rRIS there are multiple search options. Users with the proper permissions have the ability to not only search for patients, but also for staff, sites, and insurance carriers. The search functionality also supports the ability to add multiple search providers such as Google and / or WebMD.

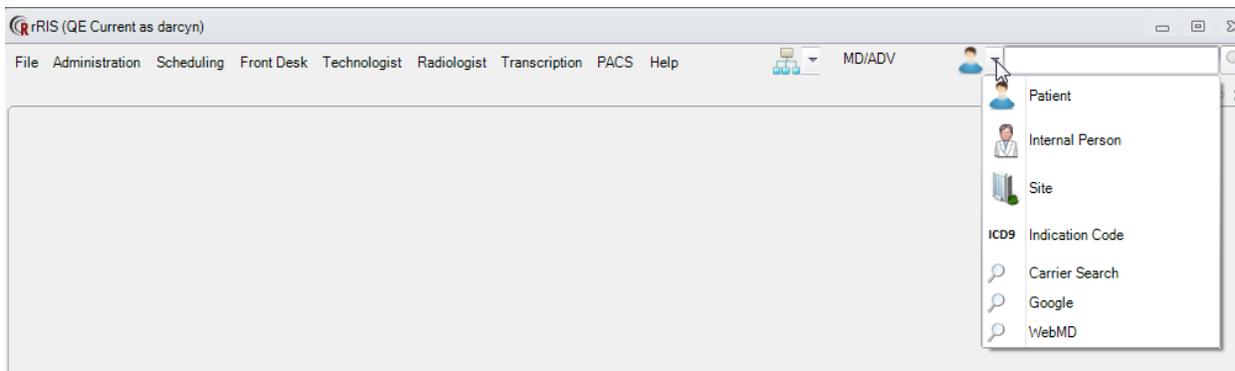


Figure 12.1 – Accessing search options available

The internal person search is a great utility to quickly find the resources such as referring doctors, techs, radiologists, etc. within the application.

The site search allows users to lookup contact information for other sites within the organization.

Multiple search providers can also be added to the search functionality selection.

12.1 Enhanced Patient Search

Patients can be searched on by last name, first name, birthdate, or MRN. In the event that the patient’s name changed, a search can be performed on the patient’s previous name(s) or MRN.

The screenshot shows a 'Patient Search' window with the following search criteria:

- First Name: bella
- Last Name: brie
- Birth Date: mm-dd-yyyy
- Phone #: (empty)
- Search Other Variations
- MRN: (empty)

Buttons for 'Search' and 'Reset' are present.

First Name	Last Name	Middle Name	Birth Date	MRN	Issuer	Gender	Address	City	State	Home Phone	Mobile Phone	Matching Alternate MRN	Matching Alternate First Name	Matching Alternate Last Name
Bella	Brie		07-21-1999	9999	system	F	897 Sculltebute Lane	Newark	Delaware	(555) 555-5555			Bella, buella	Brie, Bree

Figure 12.1.1 – Previous name

You will also notice in the above figure the check box “Search Other Variations” is selected. When this checkbox is selected rRIS will complete a more extensive search. Patients name “starts with” Search first, then a “sounds like” search as well as search for birthdate variations (‘12/01/1970’, ‘01/12/1970’). If the name field only has one character, the sounds like search will do a starts with instead.

Example - firstname sounds like s, lastname sounds like smith will be converted to firstname starts with s, lastname sounds like smith.

13. User Preferences

13.1 Font Size

User can adjust the font size within the application. Three font sizes are offered, small, medium and large. Adjusting font size is accessed from the File > Font Size menu.

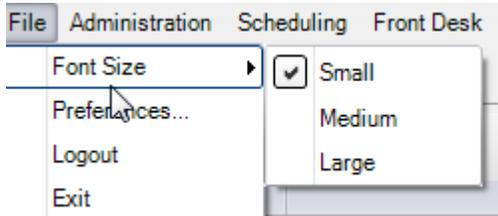


Figure 13.1.1 – Adjusting Font Size

13.2 User Preferences

User preferences are also accessed from the file menu. Most the preferences are for Radiologist and Technologist workflow.

13.2.1 General Tab

MT Polling – Used for transcription. When user logs in they don't see a work list, the create / edit report window opens automatically.

Screen Lock – There is a system config setting “MaxUILockTimeoutMin” which is the maximum inactivity time the user can set their user preferences to. So for example if the system max is set to 10, everyone will be locked out after 10 minutes of inactivity and users can only set their local preference to 10 minutes or less.

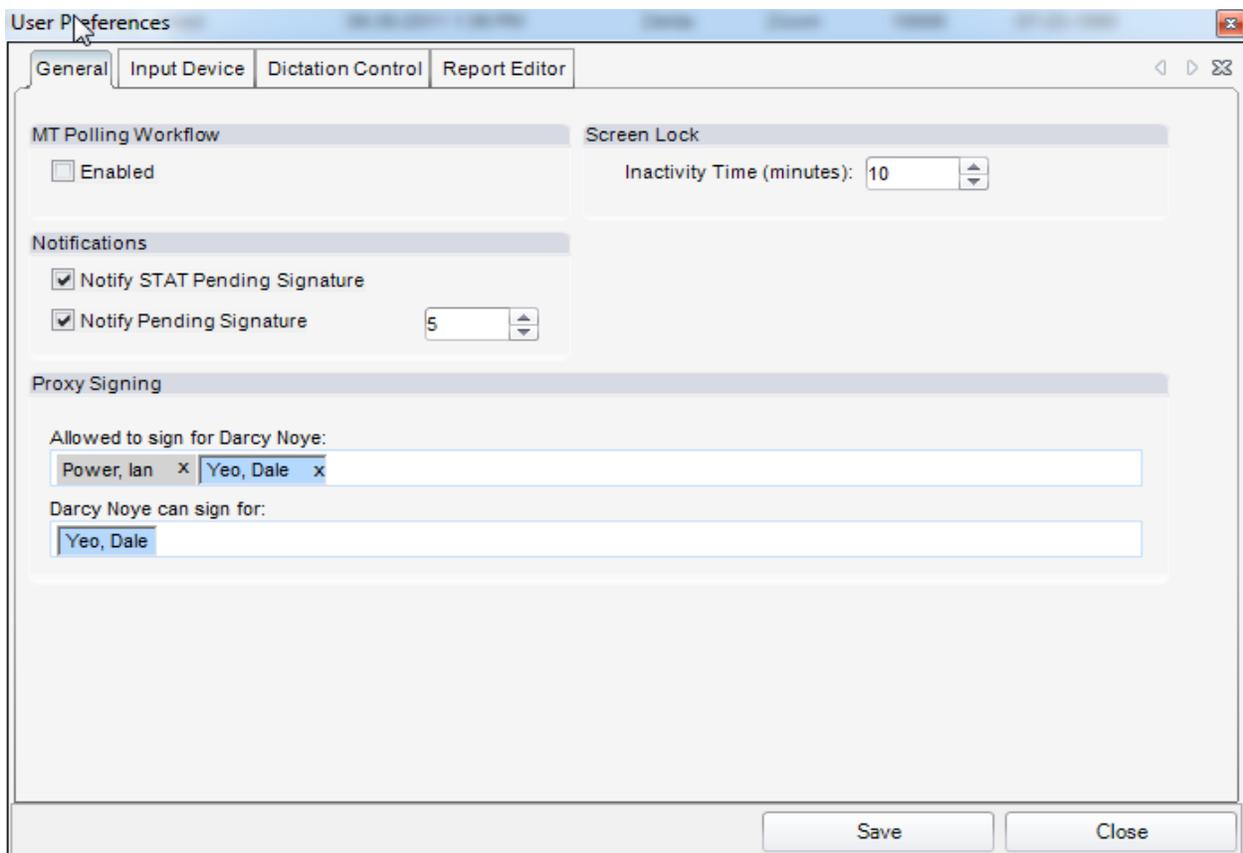


Figure 13.2.1.1 – General tab of User Preferences

Notifications -

Proxy Signing - Users can specify who will be able to proxy sign on their behalf. Also as a display only, it will inform who you (the user preferences of the user logged in) that you may sign for.

13.2.2 Input Device Tab

SpeechMike Buttons – Used to configure the user preferences of the Philips SpeechMike Function 1-4 keys, the EOL button and Instr (INS / OVR on speechmike) on the face of the SpeechMike and also the trigger button located on the underside of the SpeechMike.

Foot Pedals – Used to configure foot pedals the users desired preference

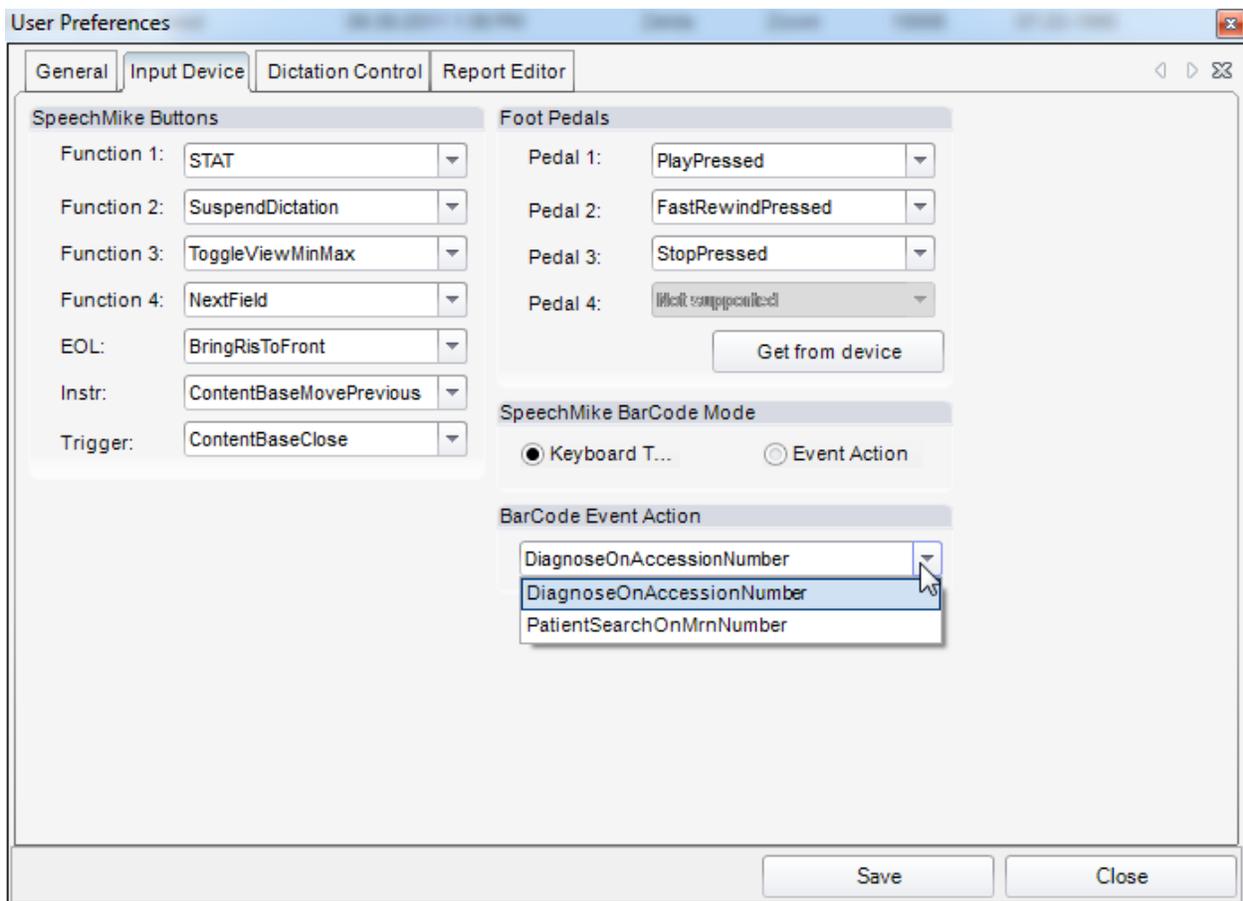


Figure 13.2.2.1 – User Preferences Input Device tab

SpeechMike BarCode Mode –

- Keyboard Text - Takes the scanned barcode and essentially keyboards it into whatever field is active. This is the standard barcode implementation
- Event Action - This will cause the Barcode to trigger a configurable event to be fired in rRis and a corresponding action will be taken.

Barcode Event Action – Scanning barcode event action. Scanning the patients folder barcode will either Diagnose on the Accession Number or Search for the patient using their MRN

13.2.3 Dictation Control tab

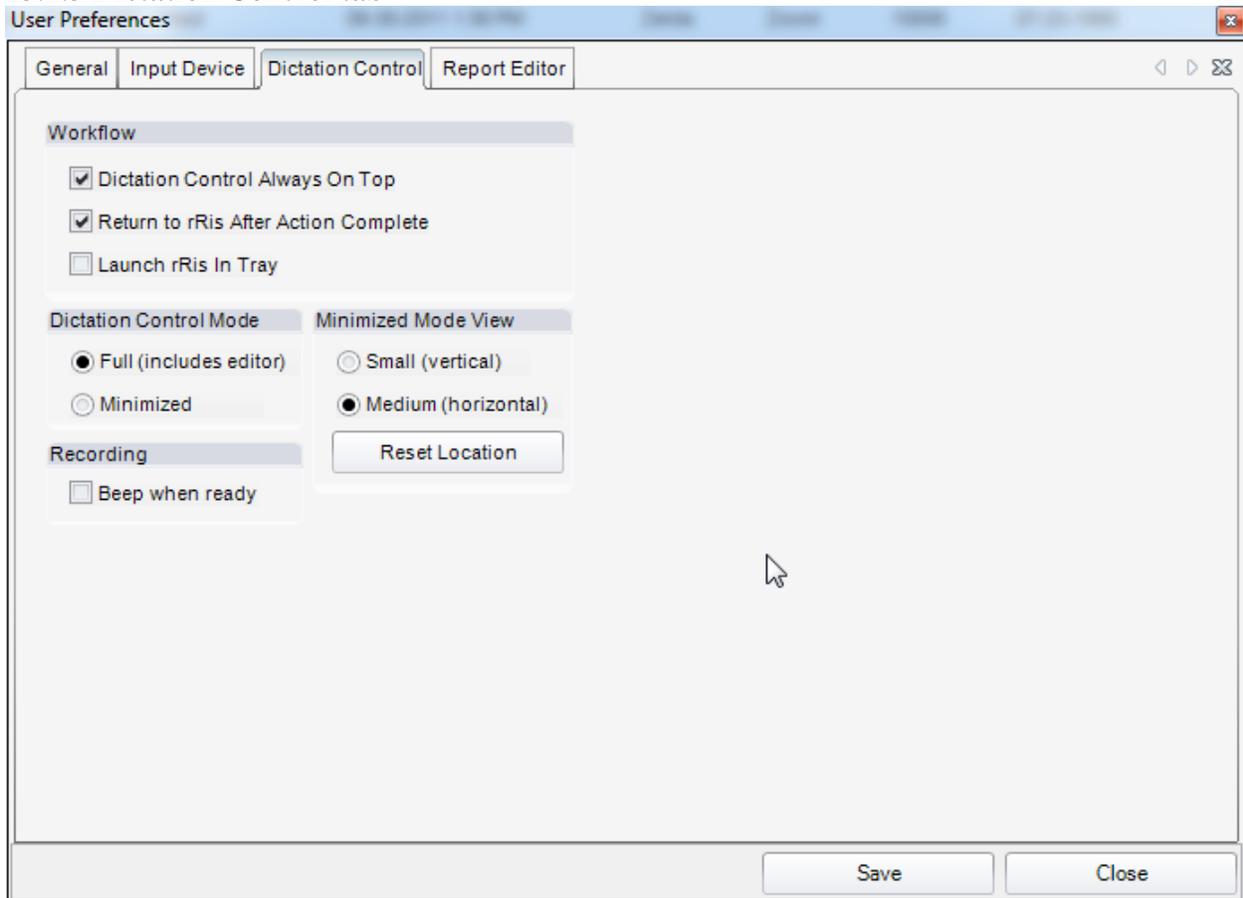


Figure 13.2.3.1 – User Preference Dictation Control tab

WorkFlow-

- **Dictation Control Always On Top** - when turned on will force the control to remain on top of other windows even if the other window has focus.
- **Return to rRIS After Action Complete** – If this is selected, and Dictation Control Mode is set to Minimized, once the Radiologist has completed dictation and exits the Dictation window they will be returned to rRIS in Full view
- **Launch rRIS tin Tray** - If rRIS is configured to launch in tray, immediately after logging in the application will not show on the screen as usual but appear in the system tray as a small “R” icon. When rRis is shown and this mode is configured, minimizing or closing rRis using the icons at the top right of the application window will simply return rRis to the tray icon. To actually exit rRis the user needs to select File -> Exit from the file menu when rRis is onscreen, or using the tray icons context menu -> Exit.
 - **User id** - identifies currently logged in user
 - **Show rRis** - Will bring rRis on the screen, same as double clicking
 - **Report on accession #** - Prompt user for the accession number
 - **Info** - Will display information about rRis such as version
 - **Exit** - Will exit rRis completely

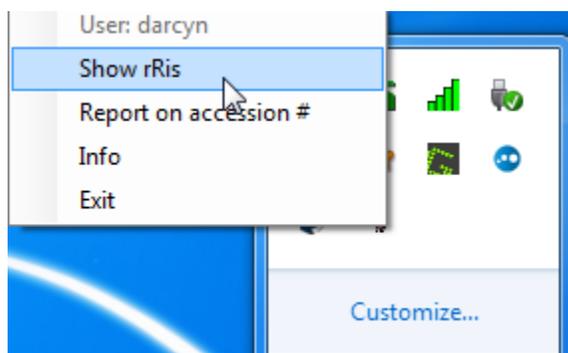


Figure 13.2.3.2 – rRIS launched to system tray

Dictation Control Mode – Full (includes editor) is the standard mode. Minimized will open as one of the two options in figure 13.2.3.3.

Minimized Mode View – Two different dictation control layouts have been implemented; a vertical (small) and a horizontal (medium). These controls exist outside of the rRis GUI. They have the ability to float on the screen and can be place where they will least interfere with the radiologist’s existing RIS/PACS workstation.



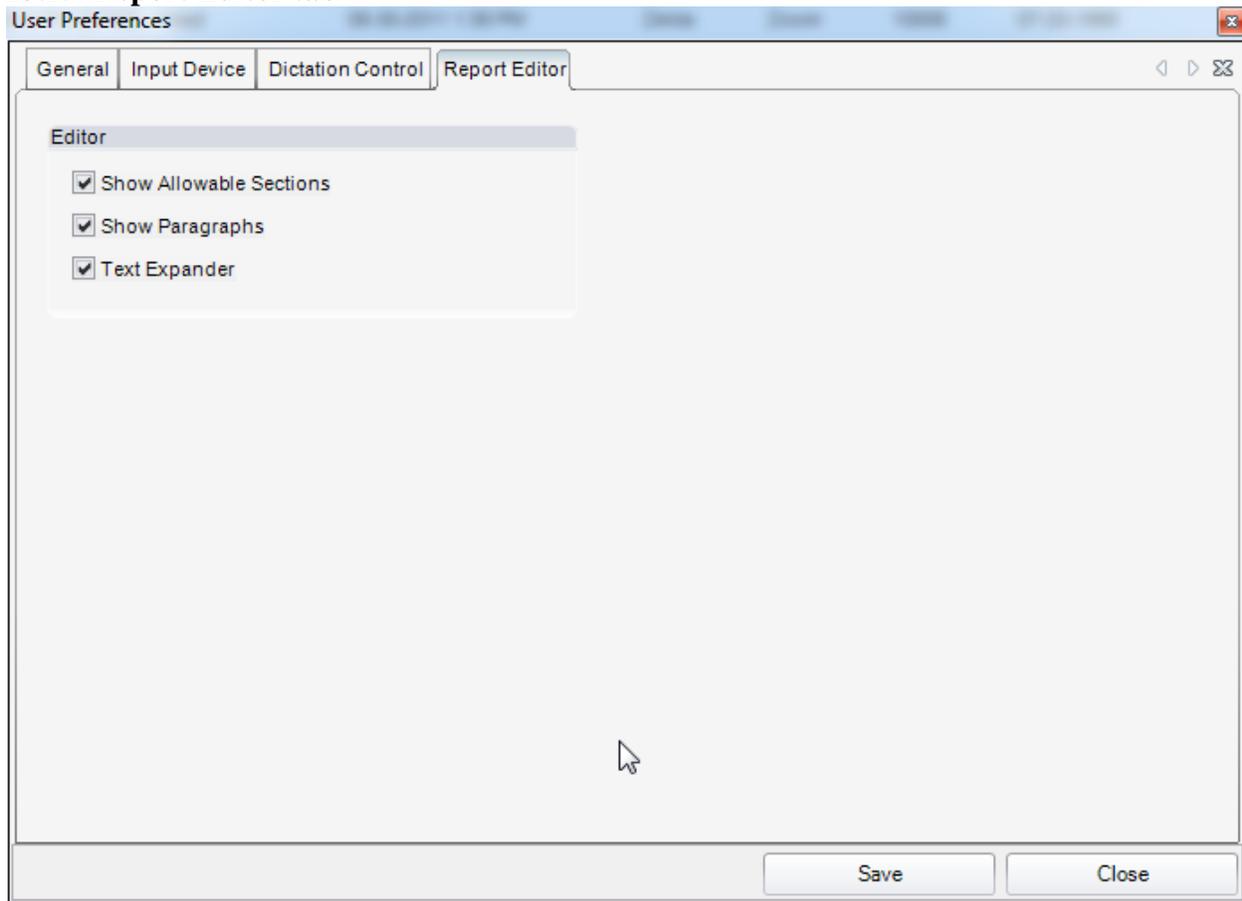
Figure 13.2.3.3 – Horizontal (medium) control and Vertical (small) control

The minimized views can be placed anywhere on the screen and their location will be remembered forever. In the unlikely event that the location was saved to make them appear in an area which is not visible, in the user preferences the user can select “Reset Location” which will reset the control’s location to position 0,0 (top left of screen 1).

Recording -

A user preference called Beep when ready was added to the Dictation Control tab. This feature will play an audible sound to alert the user as to when the control is ready for recording.

13.2.4 Report Editor tab



13.2.4.1 – User Preference Report Editor tab

Editor

Show allowable Sections – In the report editor, selecting a section name within the editor will display the allowable sections available. With focus within the section header and typing will open a window displaying the allowable sections.

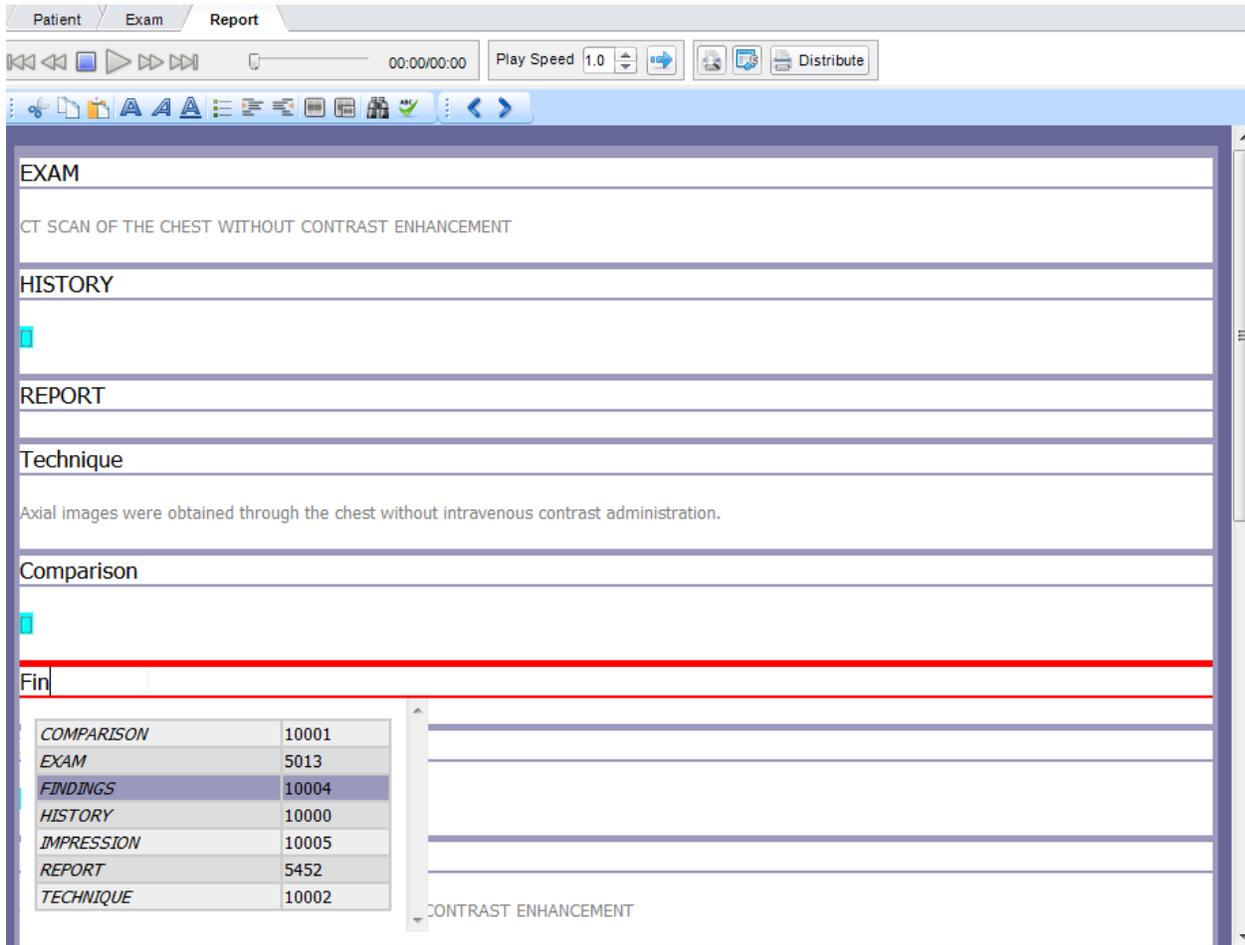


Figure 13.2.4.2 – Show allowable sections

Show Paragraphs – Separates the text into paragraphs in report editor.

The breast tissue is heterogeneously dense limiting in both breasts particularly for the upper outer quadrant medial right breast adult posterior third. This however well.

No abnormal microcalcifications or other primary secondary breast ultrasound is to be performed.

Bilateral breast ultrasound standard technique findings: The breast was performed and demonstrates an irregular in hyperechoic position measuring approximately 2.4 x 1.9 x 1.2 cm.

13.2.4.2 Show Paragraph Enabled

in both breasts particularly for the upper outer quadrants medial right breast adult posterior third. This however well.

No abnormal microcalcifications or other primary secondary breast ultrasound is to be performed.

Bilateral breast ultrasound standard technique findings: The breast was performed and demonstrates an irregular in hyperechoic position measuring approximately 2.4 x 1.9 x 1.2 cm.

13.2.4.3 Show Paragraphs Disabled

Text Expander – Enables the Text Expander utility. See section 8.2.3 of this document for more information on Text Expander.

14. Forms and Labels

Forms and Labels can be configured to print when the order reaches a specific status or the user can manually print from the context menu accessed from Patient Folder, Reception work list, Confirmation work list, Technologist work list, and Radiology work lists. Also from the Registration data window, and Technologist work list.

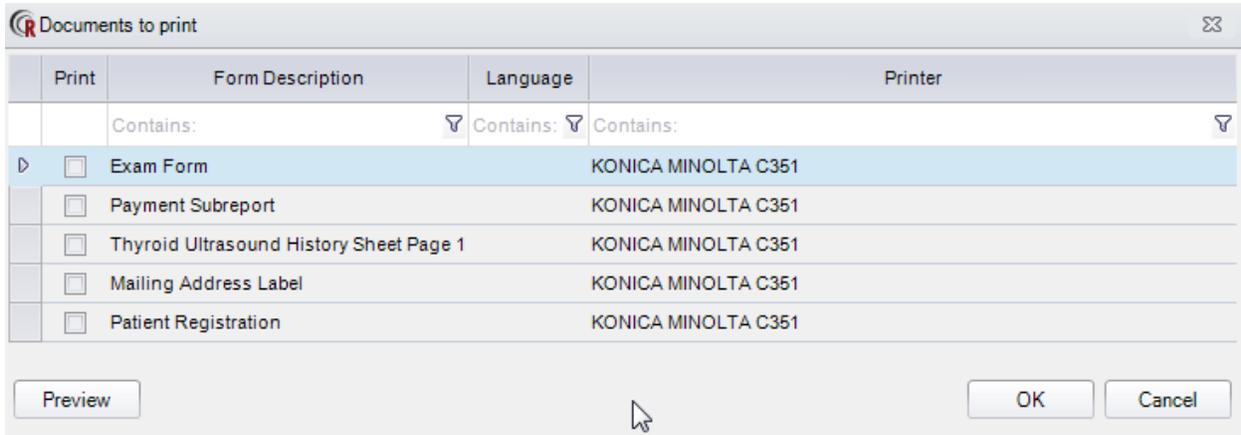


Figure 14.1 – Forms and Labels.

Forms and Labels can be configured to print for a specific modality type, procedure type, specific carrier, gender, and practice.

15. Help menu

The help provides important information of the versions, where the application was installed from, current connection, logged on user, etc.

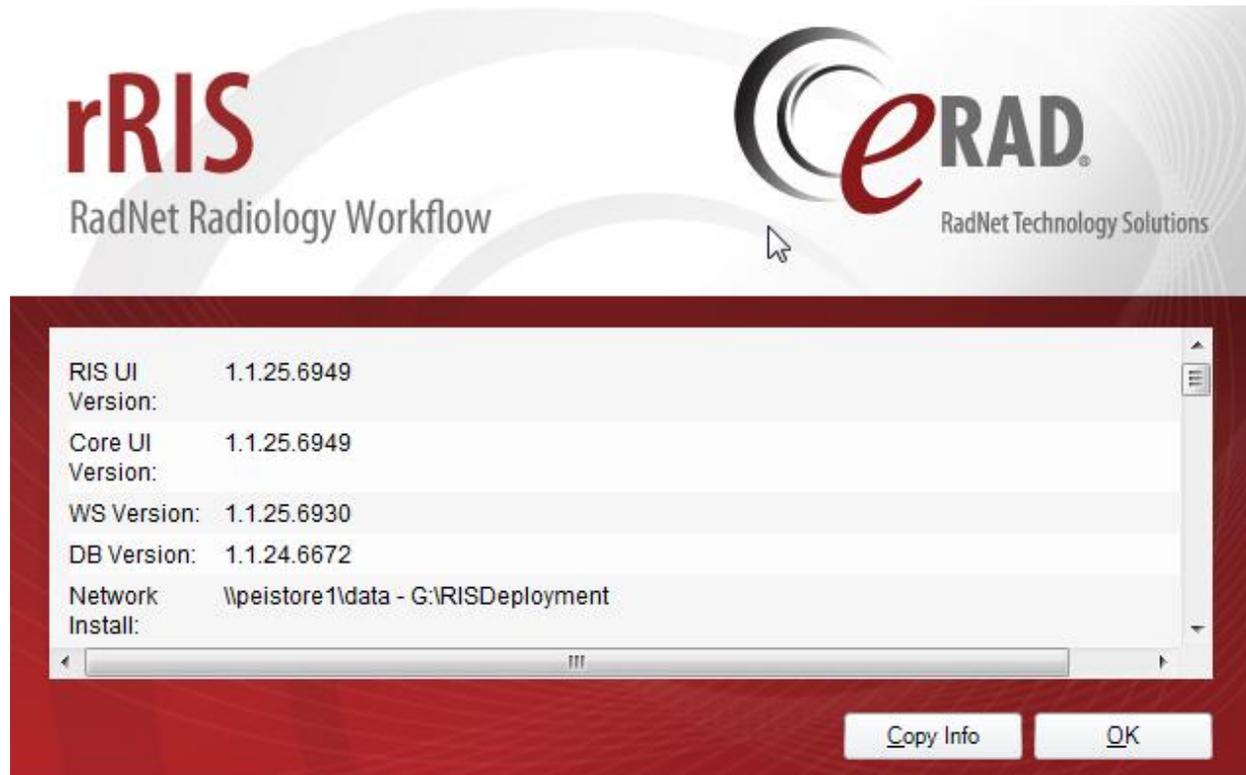


Figure 15.1 – Help About Window

Selecting the Copy Info button will capture the data window the Help About window, and then the user can easily paste the contents into an editor.

16. Shortcuts

rRIS application shortcuts will be covered in a separate document.

17. Known Limitations

#	Status	Project	Subject	Category	Target version
660	New	Radnet RIS	Outside reads will eventually end in billing exceptions.	Thick Client GUI	1.25
560	New	Radnet RIS	Column filter range of same day - no results returned	Thick Client GUI	1.21
644	New	Radnet RIS	Cannot close application if there is a data window open.	Thick Client GUI	1.25
659	New	Radnet RIS	Manage policies > Injury Details keeps history of last selected	Thick Client GUI	1.25
665	New	Radnet RIS	fk error when adding new order	Thick Client GUI	1.25
438	New	Radnet RIS	User Preferences - Should enable or disable speech preferences based on resource type	Admin Tools	1.16
447	New	Radnet RIS	Dictation - User is able to start dictating with SpeechMike when it is not the recording device	Thick Client GUI	1.17
667	New	Radnet RIS	Dictating > Adding tech notes and submit throws error	Thick Client GUI	1.25
671	New	Radnet RIS	Launch rRIS to system tray Icon needs to be updated.	Thick Client GUI	1.25
360	New	M Modal Interim Reporting	Audio not played to the end message		
639	New	Radnet RIS	Work list column not expanded when opening work list.	Thick Client GUI	1.25
657	New	Radnet RIS	Opening dictate window on signed exam or suspended message conflicts with pacs message	Thick Client GUI	1.25

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668	New	Radnet RIS	User Preference > Stat Notification not working	Thick Client GUI	1.25
670	New	Radnet RIS	Diagnose > Report preview can be opened multiple times	Thick Client GUI	1.25
639	New	Radnet RIS	Work list column not expanded when opening work list.	Thick Client GUI	1.25
675	New	Radnet RIS	Edit Order > Verbal Order returns error	Thick Client GUI	1.25
677	New	Radnet RIS	Edit order tab missing patient name	Thick Client GUI	1.25
678	New	Radnet RIS	Transcription > Save playback speed for dictating rads	Thick Client GUI	1.25
674	New	Radnet RIS	Cancelled Orders work list buttons not enabled	Thick Client GUI	1.25
358	New	M Modal Interim Reporting	Accession Number for Memo recordings		
74	New	Radnet RIS	Patients with deleted_flag = 'Y' are still showing up on worklists	Thick Client GUI	1.07
252	New	Radnet RIS	ScheduleGroup - Slowness when saving lookup	Web Services/DB	1.11
406	New	Radnet RIS	New Appointment - Unhandled WCF exception	Web Services/DB	1.15
463	New	Radnet RIS	Concurrency error on scheduling	Web Services/DB	1.17
469	New	Radnet RIS	After deleting 1 User cannot save for other users	Web Services/DB	1.17
633	New	Radnet RIS	Walk in image request	Thick Client GUI	1.24
640	New	Radnet RIS	Installer error > Windows xp cannot register spellchecker - wspell.ocx	Thick Client GUI	1.23
652	New	Radnet RIS	The recently used patient list sometimes return an empty patient folder		
663	New	Radnet RIS	Add outside read does not have new attachment Icon	Thick Client GUI	1.25

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669	New	Radnet RIS	Data nugget for notes has study notes where data windows have order notes	Thick Client GUI	1.25
649	New	Radnet RIS	System menu location error	Thick Client GUI	
650	New	Radnet RIS	Deleting study from exam tab with multiple exams	Thick Client GUI	1.25
635	New	Radnet RIS	Build 1.25 - new color scheme		
647	New	Radnet RIS	Labels can be partial hidden when using large text size	Thick Client GUI	1.25
648	New	Radnet RIS	Fullscreen covers taskbar	Thick Client GUI	
658	New	Radnet RIS	Order tab > OrderNotes spelled as one word	Thick Client GUI	1.25
522	New	Radnet RIS	Search for available times incomplete based on criteria	Thick Client GUI	1.2
529	New	Radnet RIS	Reschedule study search returning incorrect times	Thick Client GUI	1.21
624	New	Radnet RIS	Schedule exam, selecting time from Advance tab can make available times "jump"	Thick Client GUI	1.23
321	New	Radnet RIS	DataSet Visualizer - Does not show for Studys and CC Physician	Thick Client GUI	1.12
448	New	Radnet RIS	Receipt - Registration screen should stay in foreground when prompted for receipt	Thick Client GUI	1.17
666	New	Radnet RIS	Abort exams window resize issue	Thick Client GUI	1.25
655	New	Radnet RIS	Document Distribution History > formatting of fax number	Thick Client GUI	1.25
106	In Progress	Radnet RIS	Worklist - Issue with refreshing when web services are down	Thick Client GUI	1.12
224	In Progress	Radnet RIS	Order - Exception when scheduling a modified order	Thick Client GUI	1.11
357	In Progress	Radnet RIS	Lookup table filters with dropdown datatype don't work		1.13
643	QE Rejected	Radnet RIS	Dictate window > Blank error is displayed and rRIS stops	Thick Client GUI	1.25

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418	QE Rejected	Radnet RIS	IVT workflow -Object reference not set to an instance of an object	Thick Client GUI	1.15
579	QE Rejected	Radnet RIS	IVT PreCert column does not update	Thick Client GUI	1.22
310	QE Rejected	Radnet RIS	Appointment Book - Needs to default to a configurable start of day	Thick Client GUI	1.12
613	QE Rejected	Radnet RIS	If patient mode is already open, and you try to go to patient mode for a different study...	Thick Client GUI	1.24