

# **User Pre-Release Notes**

for RADNET rRIS  
Build 1.13 & 1.14

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### **1. Purpose**

This document describes some of the new features and changes implemented in rRIS as of the end of Sprints 13 and 14. This pre-release version of rRIS is referred to as Build 1.14.

Only features which can be visually demonstrated to the user will be outlined in this document.

### **2. Intended Audience**

This document is created by the rRIS Development team for the RadNet RIS management team.

### **3. Installing/Accessing the Application**

The installation instructions for the rRIS client have been posted to the RadNet Wiki page at <http://mdbal01rdtweb/Wiki/>

Under the RIS menu, click on the rRIS page. The credentials to access the page are:

Username: rRIS

Password: Summerside

Build 1.14 is considered a new core release of the application and will require a reinstallation of rRIS.

If you experience difficulties accessing the application, please do not hesitate to contact Spencer MacDougall with the PEI RIS Development Team.

## 4. New Features and Enhancements

### Export to Microsoft Excel for Worklist Printing

In Build 1.14, users now have the ability to export worklists to Microsoft Excel. This is available through the right-click export option on the worklist. This feature allows the user to not only print the worklist via page setup in Excel, but also perform analysis on the data.

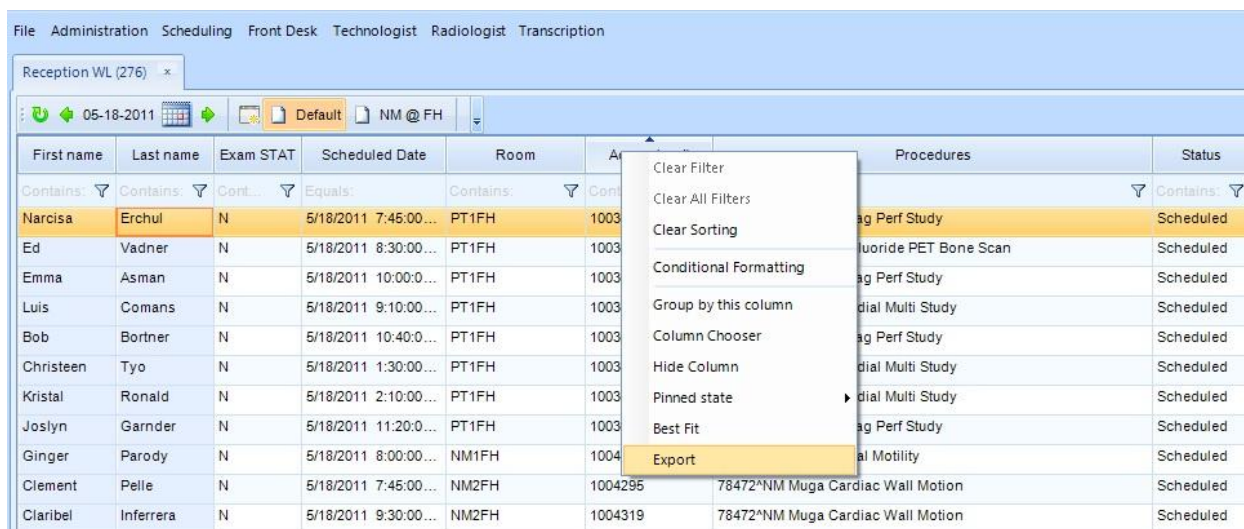


Figure 4.1 – Worklist Export Option

|    | A                   | B         | C         | D               | E     | F           | G  | H         |
|----|---------------------|-----------|-----------|-----------------|-------|-------------|--|-----------|
| 1  | Reception WL (276)  |           |           |                 |       |             |  |           |
| 2  | 05-18-2011 11:34 AM |           |           |                 |       |             |  |           |
| 3  | First name          | Last name | Exam STAT | Scheduled Date  | Room  | Accession # | Procedures                                   | Status    |
| 4  | Narcisa             | Erchul    | N         | 5/18/2011 7:45  | PT1FH | 1003313     | 78459*PT/CT Myo Imag Perf Study              | Scheduled |
| 5  | Ed                  | Vadner    | N         | 5/18/2011 8:30  | PT1FH | 1003315     | PT4*PT/CT Sodium Fluoride PET Bone Scan      | Scheduled |
| 6  | Emma                | Asman     | N         | 5/18/2011 10:00 | PT1FH | 1003318     | 78459*PT/CT Myo Imag Perf Study              | Scheduled |
| 7  | Luis                | Comans    | N         | 5/18/2011 9:10  | PT1FH | 1003320     | 78492*PT/CT Myocardial Multi Study           | Scheduled |
| 8  | Bob                 | Bortner   | N         | 5/18/2011 10:40 | PT1FH | 1003324     | 78459*PT/CT Myo Imag Perf Study              | Scheduled |
| 9  | Christeen           | Tyo       | N         | 5/18/2011 13:30 | PT1FH | 1003328     | 78492*PT/CT Myocardial Multi Study           | Scheduled |
| 10 | Kristal             | Ronald    | N         | 5/18/2011 14:10 | PT1FH | 1003336     | 78492*PT/CT Myocardial Multi Study           | Scheduled |
| 11 | Joslyn              | Garnder   | N         | 5/18/2011 11:20 | PT1FH | 1003357     | 78459*PT/CT Myo Imag Perf Study              | Scheduled |
| 12 | Ginger              | Parody    | N         | 5/18/2011 8:00  | NM1FH | 1004289     | 78258*NM Esophageal Motility                 | Scheduled |
| 13 | Clement             | Pelle     | N         | 5/18/2011 7:45  | NM2FH | 1004295     | 78472*NM Muga Cardiac Wall Motion            | Scheduled |
| 14 | Claribel            | Inferrera | N         | 5/18/2011 9:30  | NM2FH | 1004319     | 78472*NM Muga Cardiac Wall Motion            | Scheduled |
| 15 | Mandie              | Mimes     | N         | 5/18/2011 10:00 | NM1FH | 1004341     | NM9*NM EKG Tracing CARDIOLOGIST              | Scheduled |
| 16 | Cleveland           | Megill    | N         | 5/18/2011 13:00 | NM1FH | 1004408     | NM9*NM EKG Tracing CARDIOLOGIST              | Scheduled |
| 17 | Corie               | Kurokawa  | N         | 5/18/2011 13:00 | NM2FH | 1004413     | 78464*NM Myocard Imag W Spec Sngl            | Scheduled |
| 18 | Kalyn               | Galston   | N         | 5/18/2011 15:00 | US1EL | 1005099     | 93978*US Iliac Artery Duplex Comp            | Scheduled |
| 19 | Linnea              | Mormile   | N         | 5/18/2011 8:30  | US1EL | 1005104     | US61*US OB Follow Up 1 Fetus 1st Tri & OB TV | Scheduled |
| 20 | Tonda               | Cutia     | N         | 5/18/2011 9:00  | US1EL | 1005105     | 76942*US Fine Needle Aspiration              | Scheduled |
| 21 | Timothy             | Alcantas  | N         | 5/18/2011 13:00 | US1EL | 1005110     | 76880*US Extrem Non Vascular                 | Scheduled |
| 22 | Terrilyn            | Hefferman | N         | 5/18/2011 7:45  | US1EL | 1005112     | 93976*US Duplex Abd Pel Retro Lmt            | Scheduled |

Figure 4.2 – Worklist shown in Microsoft Excel

### Read-Only Notes Field

A common problem with the current RadNet RIS applications is having notes on the order and patient totally editable. Notes from past edits can be modified and removed as the order progresses through the system making it impossible to understand what happened to the patient and upsets users as notes they added are getting removed.

In Build 1.14 a new notes control has been introduced which allows any user to add notes in the top area of the control and everyone can see the past notes as read-only. Each log entry is prefixed with the date followed by the user's initials. Super users will have the ability to edit the notes so invalid data can be cleaned up.

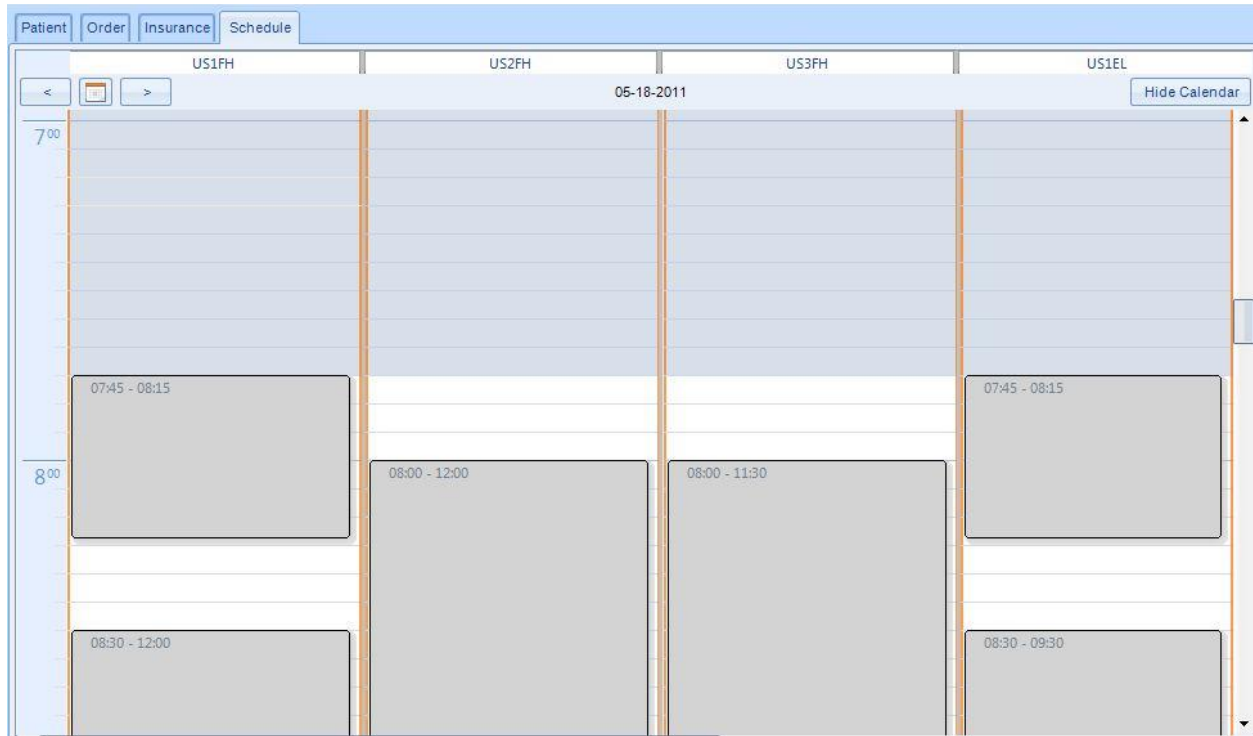
The screenshot displays the RADNET rRIS interface with three tabs: Patient, Order, and Insurance. The 'Order' tab is selected, showing the following sections:

- Referring Details:** Includes fields for Referring (AJALA, YOLANDA), Delivery Location (Work: 4437777869), Visited at (Work: 9105 FRANKLIN SQUARE DR, SUITE 309, BALTIMORE, MD, 21237), CC Physicians (JACKSON, WILLIAM B ( x)), and Delivery Location for CC (Work: 4106822783).
- Exam Requested:** Includes fields for Practice (Advanced Radiology), Site, Study(s) (CT 3 Phase x), Body Part, Laterality, and checkboxes for Stat Exam and Stat Read.
- OrderNotes:** A list of notes with timestamps and user initials (sbm):
  - 05-18-11 sbm - Patient requires an interpreter
  - 05-18-11 sbm - Insurance was denied. Patient has been contacted
  - 05-18-11 sbm - Patient called and is taking vacation, would like to move appt to the 25th
  - 05-18-11 sbm - Patient prefers early morning appointment

**Figure 4.3 – Read-Only Past Notes**

## **Availability Templates on the Schedule Calendar**


The availability template that is mapped to a scanner/room is now reflected in the calendar view when scheduling procedures. Available timeslots are shown in white while unavailable are represented by blue. In the example below, the ultrasound rooms are open at 7:45am.



**Figure 4.4 – Availability Template reflected in Scheduling Calendar View**

## Patient History Control

There is now a patient context aware history control that can be placed on user forms. Users like technologists and radiologists will have easy access to a patient's prior exams with the embedded patient history control.

| Perform Exam (jeff carter) * x  |                                     |                      |       |             |           |           |                                    |           |
|---|-------------------------------------|----------------------|-------|-------------|-----------|-----------|------------------------------------|-----------|
|   | Include                             | Scheduled Date       | Room  | Accession # | Locked by | Status    | Procedures                         | Read STAT |
|   | <input type="checkbox"/>            | 5/4/2011 3:30:00 PM  | CT1FH | 1001767     |           | Signed1   | CT22^CT Head W & Sinus W           | Y         |
|   | <input type="checkbox"/>            | 5/7/2011 8:00:00 AM  | CT1FH | 1001987     |           | Signed1   | CT42^CT Chest W & Abdomen W/Wo     | N         |
|   | <input type="checkbox"/>            | 5/7/2011 8:30:00 AM  | XR1EL | 1003181     |           | Signed1   | 73615^FL Arthrogram Ankle Fluoro   | N         |
|   | <input type="checkbox"/>            | 5/11/2011 2:10:00 PM | US2FH | 1008763     |           | Signed1   | 76604^US Chest                     | N         |
|   | <input type="checkbox"/>            | 5/6/2011 3:30:00 PM  | US1FH | 1008769     |           | Signed1   | 76604^US Chest                     | Y         |
|   | <input type="checkbox"/>            | 5/19/2011 3:30:00 PM | CT1EL | 1008998     | spencer   | Arrived   | CT13^CT 3 Phase                    | N         |
|  | <input checked="" type="checkbox"/> | 5/19/2011 3:30:00 PM | CT1LU | 1008999     | spencer   | Arrived   | CT66^CT Abdomen W & CTA Chest W/Wo | N         |
|   | <input type="checkbox"/>            | 5/20/2011 3:30:00 PM | CT1LU | 1009000     |           | Scheduled | CT55^CT Foot & Ankle               | N         |

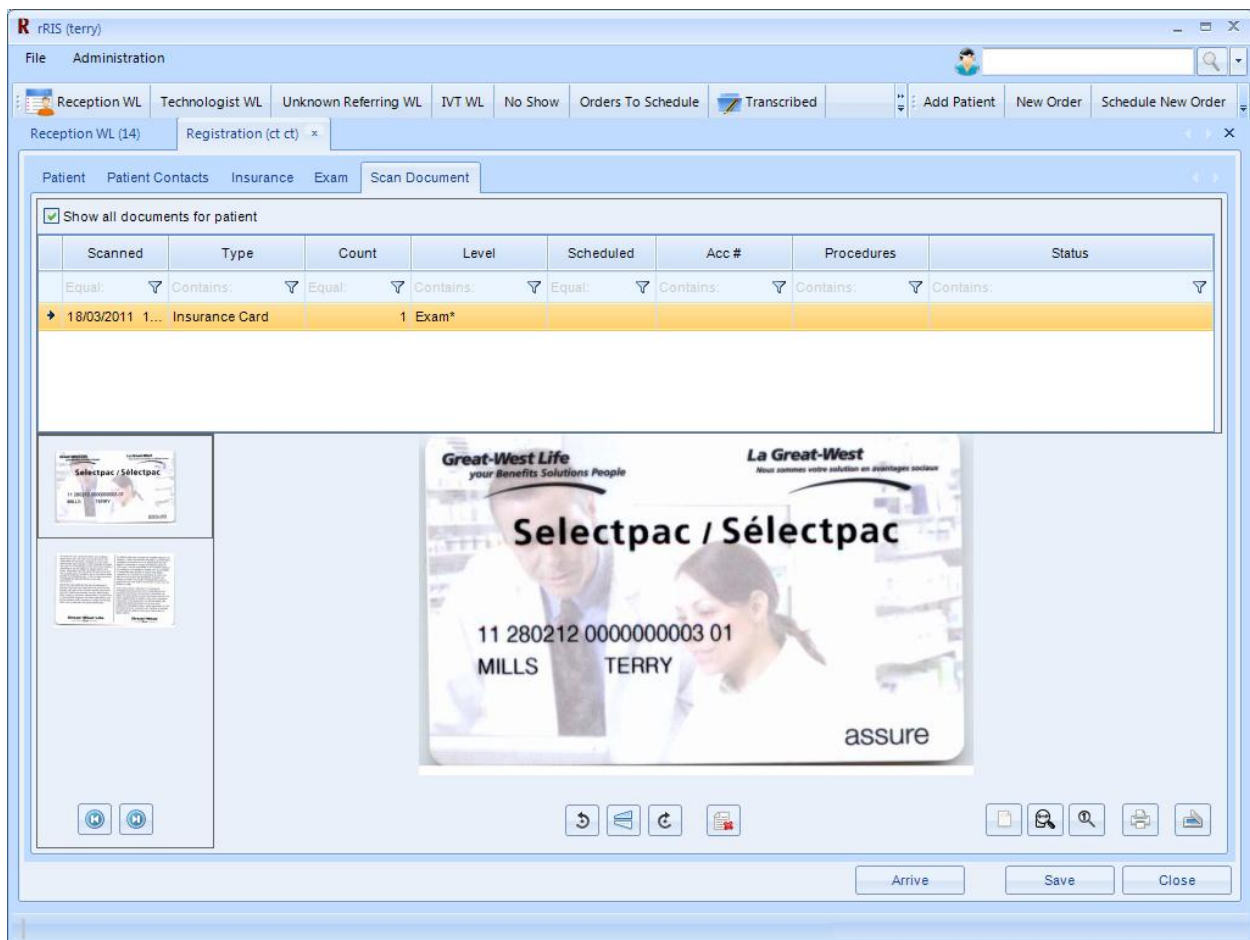
**Figure 4.5 – Patient History Control shown on Technologist Screen**

## Scanning Control

A scanning control has been implemented to give rRIS users the ability to scan and view scanned documents. The scan control depends on pre-defined scan document types. A scan document type has the following properties:

| Property                  | Description  |
|---------------------------|--|
| Width                     | The width in inches of the document.   |
| Height                    | The height in inches of the document.  |
| Resolution                | The resolution to scan the document at.  |
| Colour                    | Whether colour should be capture in the scan document or use gray scale.   |
| Duplex                    | Whether the scanner or the scanner control should scan both sides of the document.   |
| Document association type | PatientLevel or ExamLevel. If PatientLevel, then this scanned document will be pinned to the patient. If ExamLevel, then this scanned document will be pinned to the patient and the exam. |

A Scan control has been implemented as a user control. The screen shot below shows the scan control embedded in the registration screen.



**Figure 4.6 – Scan Control on Registration Screen**

Screen Geography:










- The top of the control contains a grid of the scan documents for the patient and/or exam. If the scan control is instantiated at the exam level, then by default the list will include scan documents for the exam and scan documents for the patient that are not associated to other scanned documents (i.e. patient level scan documents)
- There is a “Show all documents for patient” check box at the top of the control. When checked, this will show all scan documents for the patient, including scanned documents from other exams. When not checked, it will show exam documents for this exam only plus patient level scan documents.

- The bottom 2/3 of the control contains the thumbnail strip and the image.
- The thumbnail strip is only visible when the scan document has more than one image, for example a front and back, multiple pages or combinations of both.

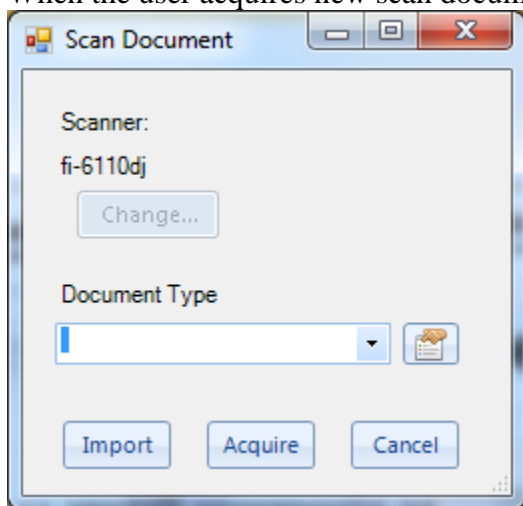


**Figure 4.7 – Scan Control Thumbnail Strip**


- At the bottom of the thumbnail strip contains some navigation buttons that allow the user to move up and down the thumbnail list.
- A user can also click the thumbnail image to change the displayed image.
- At the bottom of the scan control contains image controls.

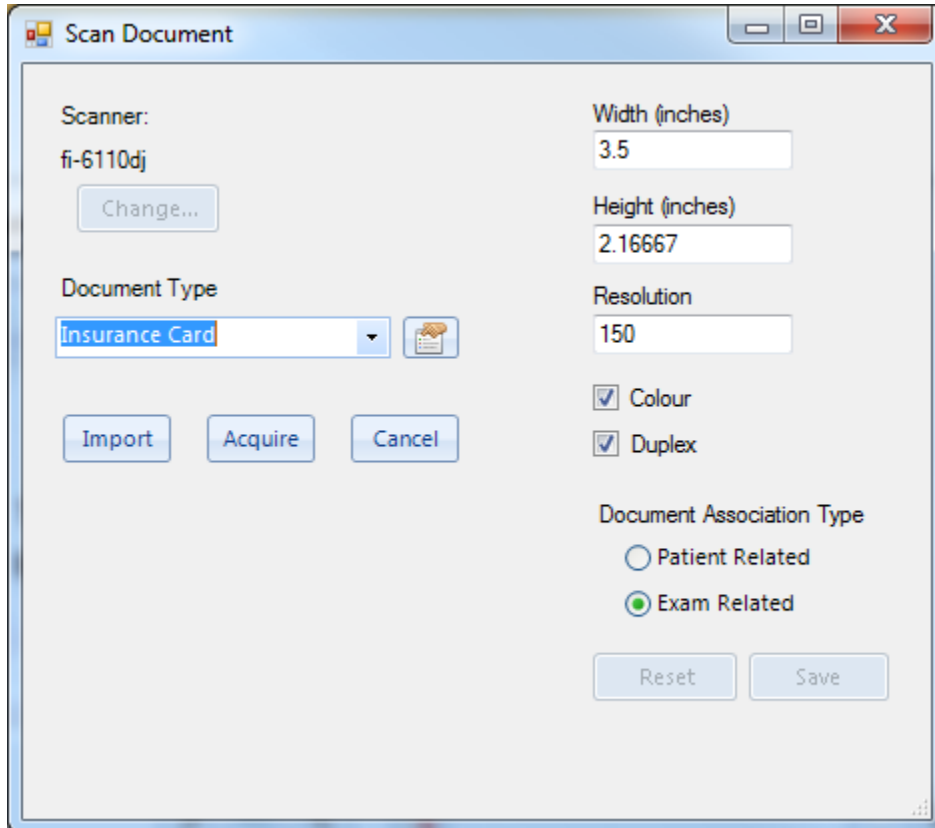
|   |   |
|---|---|
|    | Rotate the image 90 degrees to the right. This will always be enabled for newly acquired images to allow the user to correctly orient the image. However, it depends on permission if the button will be enabled for previously scanned documents.                                |
|    | Flip the image on the horizontal axis (same as rotating it 180 degrees). This will always be enabled for newly acquired images to allow the user to correctly orient the image. However, it depends on permission if the button will be enabled for previously scanned documents. |
|    | Rotate the image 90 degrees to the left. This will always be enabled for newly acquired images to allow the user to correctly orient the image. However, it depends on permission if the button will be enabled for previously scanned documents.                                 |
|    | Delete the image. This will always be enabled for newly acquired images to allow the user to remove unwanted images. However, it depends on permission if the button will be enabled for previously scanned documents.  |
|    | Zoom out to fit the full image within the control   |
|    | Zoom out or in to fit the page width within the control (i.e. no horizontal scroll bars, but may include a vertical scroll bar)   |
|  | Show the original image size.   |
|  | Print the scan document.  |
|  | Scan or import new documents. This button is enabled based on a permission.   |

When the user acquires new scan documents, the following screen appears.



**Figure 4.8 – New Scan Document Form**

The “Change” allows the user to switch to a different scanner. If there is zero or only one scanner connected to the computer then the button is disabled. If there is only one scanner connected then the control will default to use that scanner. If there is more than one scanner, the button is enabled and there is no scanner selected by default. The document type combo is use to identify the type of document to be scanned or imported. The properties button  is used to allow the user to see the document type properties and change them if necessary. This button is only enabled if the user has permission. When pressed, the screen changes to the following:



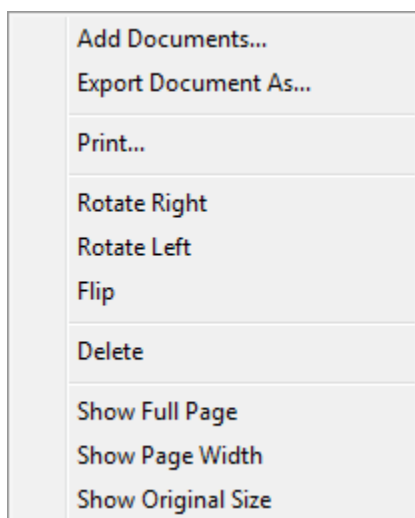
**Figure 4.9 – Scan Document Properties Screen**

The user now has the ability to change the scan document properties and save them back to the database. The scan document properties are discussed below:

- The “Import” button is used to import an image from the file system.
- The “Acquire” button initiates the scanner to scan a document.

If the scanner has an auto sheet feeder, the scanner will continue until all pages are scanned. When finished the “Scan Document” window will close and return to the scan control. If the scanner is a flatbed scanner then each document will have to be scanned separately. If the scanner is a flatbed scanner and the document type is duplex, the user will be prompted to flip the page.

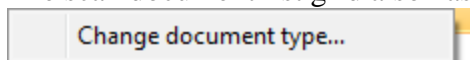
The image area of the control has the following context menu:



**Figure 4.10 – Scan Document Context Menu**

Most of the items on the menu match a button on the control. Like the buttons on the scan control these menu items will be visible, invisible, enabled and/or disabled based on permissions. The only feature on the context menu not included via a button is the “Export document as...” item. This item is also permission based. When clicked, the user is prompted with the file save dialog and asked to choose a path and file to save the current image to.

The scan document list grid also has a context menu.



This allows the user to change the document type of a newly acquired or existing document. This is also enabled/ disabled based on permission.

## Associating Scanned Documents

There are two ways to associate a scanned document to more than one exam:

1. During acquisition
2. Post-acquisition in the scan document list

### During Acquisition

The acquire scan screen was modified to include the patient jacket.

The screenshot shows a window titled "Scan Document" with a table of exams. The table has columns: Select, Study key, Accession #, Status code, Procedures, and Scheduled start date. The first row is highlighted with a blue background. Below the table, there is a "Document Type" dropdown menu, a folder icon, and three buttons: "Import", "Scan", and "Cancel".

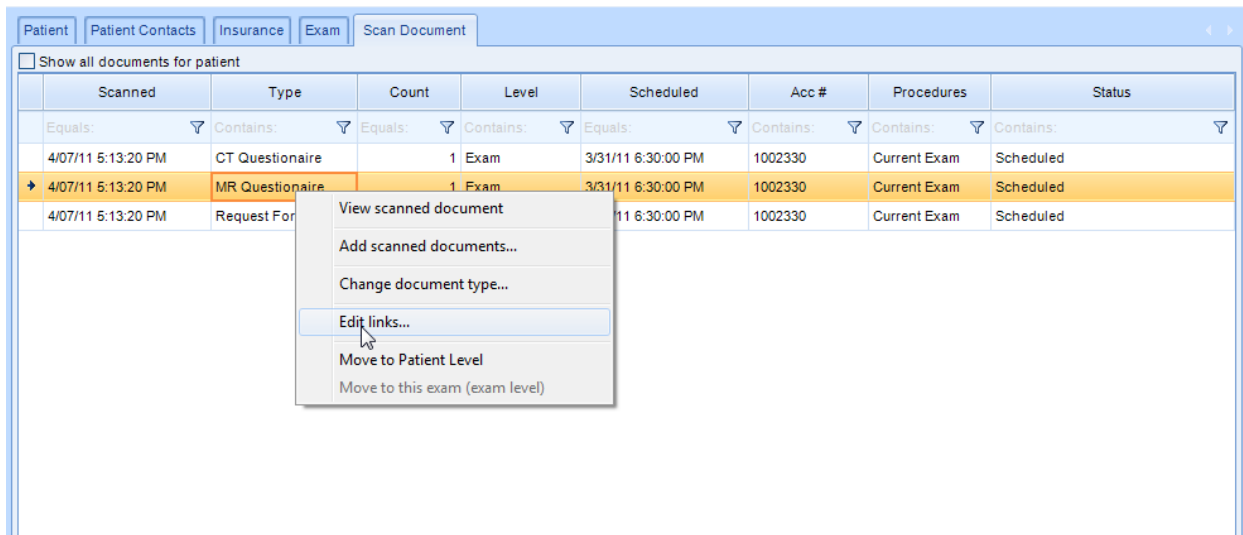
| Select                              | Study key | Accession # | Status code | Procedures            | Scheduled start date |
|-------------------------------------|-----------|-------------|-------------|-----------------------|----------------------|
| <input checked="" type="checkbox"/> | 15331     | 1002330     | Scheduled   | 76604^US Chest        | 3/31/11 3:30:00 PM   |
| <input type="checkbox"/>            | 15324     | 1002315     | ExamDone    | 74170^CT Abdomen W/Wo | 3/29/11 1:00:00 PM   |

**Figure 4.11 – Associating a Scanned Document to a Study during Acquisition**

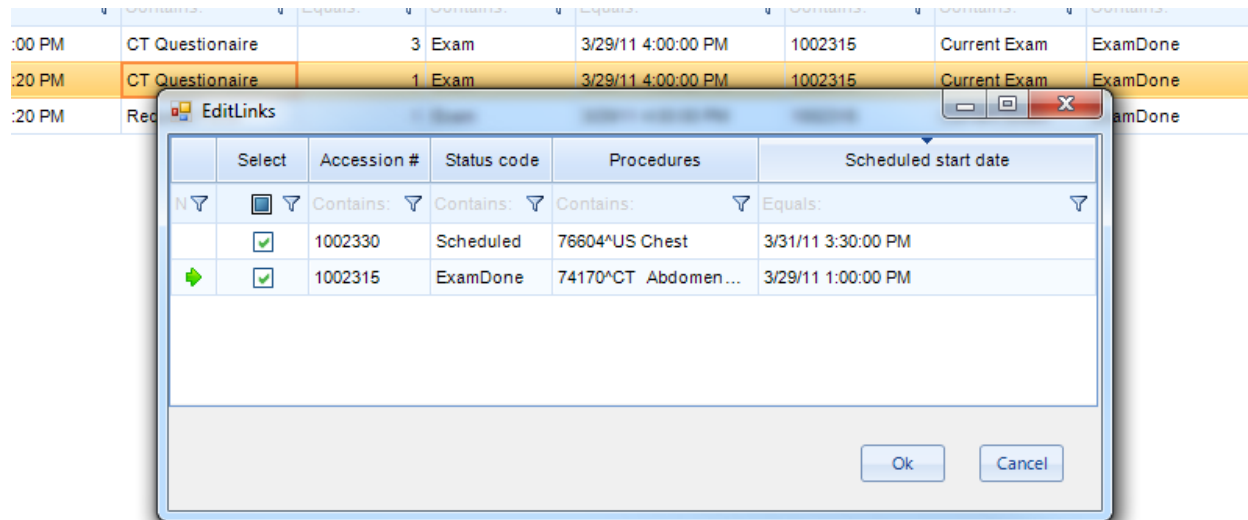
The patient jacket contains a complete list of the patient exams. A check box was added for each row. The current exam is always checked and cannot be unchecked. The user can check other exams. The newly acquired or imported image will be linked to every exam “checked” in the patient jacket. However, there is one exception. If the scan document acquired or imported is at the patient level, then the “checked” exams will be ignored as the scanned document will be related to all of the patient exams.

## Post-Acquisition in the Scan Document List

If the user wants to “link” a scan document to other exams they can use the right click “Edit links...” menu items. Also available is the “Move to patient level” and “Move to exam level”.



**Figure 4.12 – Scan Document Context Menu**



**Figure 4.13 – Associating a Scanned Document to a Study after Acquisition**

Below is a detailed explanation of the menu items available on the scan document context menu.

| <b>Function</b>       | <b>Description</b>  |
|-----------------------|---|
| Edit Links...         | <p>This menu option is only enabled when the user has the “Clinical.ScanDocs.AllowModifyScanDocuments” permission.</p> <p>This menu option is only enabled for exam level scan documents.</p> <p>The Edit Links feature will allow the user to link this scan document to one or more exams. It is very similar to the control on the “Acquire Documents” screen. The user must have one exam selected before pressing the “Ok” button.</p>   |
| Move to patient level | <p>This menu option is only enabled when the user has the “Clinical.ScanDocs.AllowModifyScanDocuments” permission.</p> <p>This menu option is only enabled for exam level scan documents.</p> <p>The “move to patient level” will promote the scan document to the patient level and therefore will be shown in the scan document list for all of the patient exams.</p> <p>There is no undo function once the user promotes to the patient level. The user will need to “move to exam level” and then pin to each individual exam. However, the user can choose to close the form and not save changes, but this will also ignore any and all changes in the form.</p> |
| Move to exam level    | <p>This menu option is only enabled when the user has the “Clinical.ScanDocs.AllowModifyScanDocuments” permission.</p> <p>This menu option is only enabled for patient level scan documents.</p> <p>The “move to exam level” will demote the scan document to the current exam.</p>   |

## Bulk Printing of Forms

Build 1.14 supports the ability to select multiple rows in a worklist and print a form or label for each row. Instead of generating many instances of the same form, the application will generate one form with many pages.

The screenshot shows a web application window titled 'Reception WL (263)'. It contains a table with columns: First name, Last name, Exam STAT, Scheduled Date, Room, Accession #, Procedures, and Status. The table lists various patients and their scheduled exams. A context menu is open over the table, showing options: Registration, Edit Patient, Forms and labels (selected), Patient Folder, Audit History, and Copy Cell. The 'Forms and labels' submenu is also open, showing options: Exams (selected), CT History Sheet, Exam Form, IV Contrast Consent, Medicare Questionnaire, Patient Registration, Payment Receipt, payments\_subreport, Stat Results Form, Thyroid Ultrasound History Sheet Page 1, Thyroid Ultrasound Worksheet Page 2, and WhoAmI.

| First name  | Last name    | Exam STAT | Scheduled Date       | Room   | Accession # | Procedures                                    | Status    |
|-------------|--------------|-----------|----------------------|--------|-------------|---|-----------|
| Cheree      | Layland      | N         | 5/19/2011 7:45:00... | PT1FH  | 1003364     | 78492*PT/CT Myocardial Multi Study            | Scheduled |
| Rozella     | Strothers    | N         | 5/19/2011 7:45:00... | NM1FH  | 1004435     | NM10*NM Miraluma                              | Scheduled |
| Violette    | Goodreau     | N         | 5/19/2011 7:45:00... | US1EL  | 1005421     | 76506*US Neonatal Head                        | Scheduled |
| Luanne      | Forchione    | N         | 5/19/2011 7:45:00... | US3FH  | 1005439     | 76811*US OB III 2-3 Tri Ta 1 Fet              | Scheduled |
| Christopher | Fehrenbach   | N         | 5/19/2011 7:45:00... | US2LU  | 1005485     | USMC10*US (MC) Arterial/Pseudoaneurysm Unilat | Scheduled |
| Winter      | Reinhardt    | N         | 5/19/2011 7:45:00... | CT1FH  | 1005639     | 72191*CTA Pelvis W/Wo                         | Scheduled |
| Jong        | Lichstein    | N         | 5/19/2011 7:45:00... | CT1LU  | 1005668     | 72128*CT Thoracic Spine Wo                    | Scheduled |
| Orval       | Hrbacek      | N         | 5/19/2011 7:45:00... | DE1FH  | 1005783     | 77080*DX AXIAL SKELETON                       | Scheduled |
| Garnet      | Prenatt      | N         | 5/19/2011 7:45:00... | MA1EL  | 1006828     | MA11*MA xDigi Mam Scr Bil & Diag Bil          | Scheduled |
| Cara        | Lapidus      | N         | 5/19/2011 7:45:00... | MA1FH  | 1006831     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Maryrose    | Deroos       | N         | 5/19/2011 8:00:00... | US2EL  | 1005424     | 76801*US OB 1ST TRI TA 1 FETUS -LESS 14 WKS   | Scheduled |
| Cathi       | Griner       | N         | 5/19/2011 8:00:00... | US1FH  | 1005433     | 93926*US Lwr Ext Art Duplex Unil              | Scheduled |
| Desiree     | Stewart      | N         | 5/19/2011 8:00:00... | US2LU  | 1005434     | US62*US OB Follow Up 1 Fetus 2-3 Tri & OB TV  | Scheduled |
| Lynne       | Lage         | N         | 5/19/2011 8:00:00... | US11US | 1005460     | US11*US OB III 2-3 Tri TA TV 1 Fetus          | Scheduled |
| Teodora     | Feit         | N         | 5/19/2011 8:00:00... | US2LU  | 1005786     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Luke        | Llera        | N         | 5/19/2011 8:00:00... | US2LU  | 1005984     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Olympia     | Stringfellow | N         | 5/19/2011 8:00:00... | US2LU  | 1005996     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Ines        | Welch        | N         | 5/19/2011 8:00:00... | MR1LU  | 1006034     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Diedre      | Pomiecko     | N         | 5/19/2011 8:00:00... | MA2FH  | 1006835     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Leonida     | Perrett      | N         | 5/19/2011 8:00:00... | MA3FH  | 1006839     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Shawnta     | Halpert      | N         | 5/19/2011 8:00:00... | MA1LU  | 1006851     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Hallie      | Dopico       | N         | 5/19/2011 8:00:00... | MA1EL  | 1006868     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Lin         | Vanlier      | N         | 5/19/2011 8:05:00... | MA1FH  | 1006898     | 77031*MA Stereotactic Biopsy                  | Scheduled |
| Ruthe       | Pauda        | N         | 5/19/2011 8:05:00... | US3FH  | 1005487     | US2LU   | Scheduled |
| An          | Koria        | N         | 5/19/2011 8:15:00... | CT1LU  | 1005676     | 72129*CT Thoracic Spine W                     | Scheduled |
| Rosemarie   | Vick         | N         | 5/19/2011 8:15:00... | CT1LU  | 1005676     | 72129*CT Thoracic Spine W                     | Scheduled |

**Figure 4.14 – Dynamic Worklist Context Menu showing Forms and Labels**

| Patient Registration  |  |                              |  |
|---|--|------------------------------|--|
| Advanced Imaging Partners   |  | <b>Patient Registration</b>  |  |
| ARCHIBOLD, GILBERTO SIM   |  | 1004498                      |  |
| <b>Patient Information</b>  |  |                              |  |
| Last Name: ARCHIBOLD  |  | First Name: GILBERTO MI: SIM |  |
| Date Of Birth: 11/3/2005  |  | Gender: Marital Status:      |  |
| Address 1:  |  |                              |  |
| Address 2:  |  |                              |  |
| City:   |  | State: Zip Code:             |  |
| Home:   |  | Work: Cell: Email:           |  |
| <b>Responsible Party Information</b>  |  |                              |  |
| Last Name:  |  | First Name: MI:              |  |
| Patient's Relationship to Responsible Party:  |  |                              |  |
| Responsible Party Address:  |  |                              |  |
| City:   |  | State: Zip Code:             |  |
| Responsible Party Home #:   |  | Responsible Party Work#:     |  |
| <b>Medical Information</b>  |  |                              |  |
| Referring Physician: WILLIAM RAYFIELD MD  |  |                              |  |
| Is this visit related to an auto accident? Y N Is this visit related to an injury sustained while at work? Y N  |  |                              |  |
| Date of Injury _____  |  |                              |  |
| <p><b>To Our Female Patients:</b><br/>           Some imaging procedures are contra-indicated (not recommended) for patients who may be pregnant. If you may be pregnant, please notify one of our team members.</p> <p>By my signature below, I acknowledge that I have read and understand this statement and state that I am not pregnant and there is no chance that I may be pregnant.</p> <p>_____/_____/_____<br/>           Signature of Patient or Personal Representative Date</p> <p>Date of Last Menstrual Period : _____</p> |  |                              |  |
| <b>AUTHORIZATION AND AGREEMENT</b>  |  |                              |  |
| I hereby authorize and direct my insurance carrier to pay directly to this provider of medical services any benefits due under my   |  |                              |  |

**Figure 4.15 – Patient Registration Form with One Page per Worklist Row**

## Mapping Forms and Labels

Below is a screen show of the configuration screen for specifying form criteria and mapping to procedure codes.

The screenshot shows the 'Lookup Tables - FormsAndLabels' configuration window. It contains a table of forms and two lists for mapping forms to procedures.

| Form Location   | Event           | description                             | display order | active | form category | gender | carrier |
|---|-----------------|---|---------------|--------|---------------|--------|---------|
| /Demo/Forms/Exams/CT History Sheet                        | Patient Arrived | CT History Sheet                        | 3             | Y      | Exam          |        |         |
| /Demo/Forms/Exams/Exam Form                               | Patient Arrived | Exam Form                               | 4             | Y      | Exam          |        |         |
| /Demo/Forms/Exams/IV Contrast Consent                     | Patient Arrived | IV Contrast Consent                     | 2             | Y      | Exam          |        |         |
| /Demo/Forms/Exams/Patient Registration                    | Patient Arrived | Patient Registration                    | 1             | Y      | Exam          |        |         |
| /Demo/Forms/Exams/Thyroid Ultrasound History Sheet Page 1 | Patient Arrived | Thyroid Ultrasound History Sheet Page 1 | 5             | Y      | Exam          |        |         |
| /Demo/Forms/Exams/Thyroid Ultrasound Worksheet Page 2     | Patient Arrived | Thyroid Ultrasound Worksheet Page 2     | 6             | Y      | Exam          |        |         |

Below the table are two lists for mapping forms to procedures:

- Unassigned Procedures:**
  - DX Body Composition Study (0028T)
  - FL Arthrocentesis Inject Intermediate Jt (20605)
  - XR ORBITS FOR FOREIGN BODY (70030)
  - XR Mandible 1-3 Views (70100)
  - XR MANDIBLE 4 VIEWS (70110)
  - XR Mastoid 1-2 View, Ea, Side (70120)
- Assigned to Procedures:**
  - US Thyroid (76536)
  - NM Thyroid Uptake Single (78000)
  - NM Thyroid Uptake Multi Det (78001)
  - NM Thyroid w/Uptake Single Det (78006)
  - NM Thyroid Mult Uptake and Scan\_131 (78007)
  - NM Thyroid Mult Intake and Scan\_131 (78007B)

Buttons: Save, Close

**Figure 4.16 – Mapping Thyroid History Sheet to Procedures**

The upper grid displays a list of all of the forms that are available for On Demand printing from a Content Window (e.g. registration) or event driven forms generation. The form location field uniquely identifies the form. The entries in this column are a drop down list of forms that have been published to the report server. The event column has a dropdown list of events that are eligible for automatic form generation (e.g. OrderCreated, PatientArrived, etc). The description column is for freeform text to add additional descriptive information to a form. Form category is used to help classify a form that may be useful for filtering to find the appropriate form. There is a form category lookup table that an administrator can use to specify additional values for the categories.

Gender and Carrier are fields that are used to help determine when a form should be generated. For example, an administrator may choose to configure the system to generate a specific form whenever a female patient is arrived. For an event of “PatientArrived”, the system will generate a form for all patients as they are arrived if no gender filter is specified. If a gender filter is specified, the system will look for the PatientArrived event AND a patient matching the specified gender.

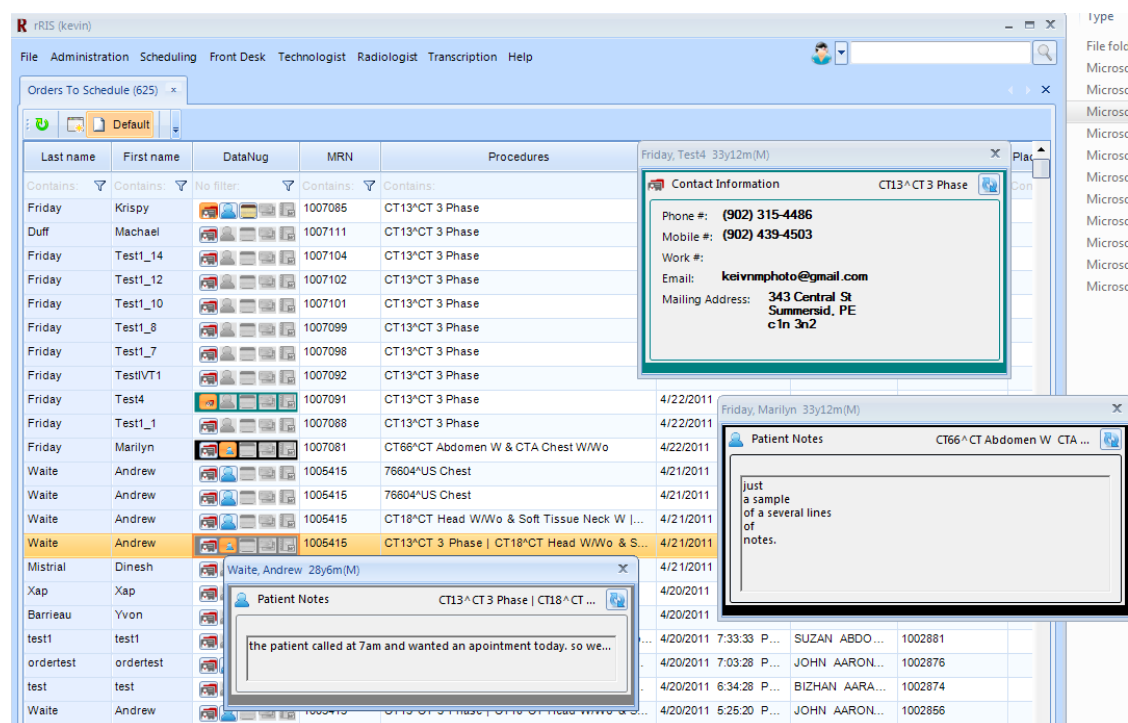
With the insurance carrier dropdown, the system can apply an additional criteria (again using AND logic). The system can be configured to generate a certain form on Patient Arrived when the patient is a female and the patient has a specific insurance carrier.

The last criteria that can be applied is on procedure code. The system can be configured to generate forms only for particular procedures (for a given event, gender, and/or carrier). The assigned procedure and existing procedure lists are used to associate forms with procedures. If no procedures are specifically assigned to a form, the form is considered to be general purpose and is eligible to be generated whenever any type of exam is used.

### Data Nuggets

Data Nuggets are buttons which are enabled on the worklist that show a small summary amount of clinical data for each worklist row. The data will pop-up in a window, which the user can move around and dock. The windows can be moved and closed though the standard windows actions; however, the user can also single click and drag a data nugget to open it in an alternate position and if he or she clicks on the button for a data nugget a second time the popup closes.

In addition the data nuggets for a particular worklist row will show as highlighted in a particular color when activated, which will match the outline of the popup window.



**Figure 4.17 – Data Nuggets on the Orders To Schedule Worklist**

### IVT Workflow

There are two separate but combinable workflows to consider in IVT. The first is insurance verification (IV). The second is pre-certification (authorization) (PC).

**IV (Insurance Verification)** is based on an insurance carrier, along with a modality type. If a procedure is ordered or scheduled and it meets the carrier to modality type rule, then it will be flagged for IV. This flagging must occur if the order is a single study, multiple studies, or composite code of studies. The flagging of these orders will be done completely by the RIS, transparent to the scheduler/order taker. It will immediately appear on the screen, so that the scheduler will know if IV is required before the screen is even saved. On save, the order will appear on the IVT worklist. A worklist will be created that contains these orders (IVT Worklist), and a data collection screen will be created where the IVT person will see sufficient information to be able to contact the insurance company and determine if the patient has insurance.

The data collection screen is where the IVT specialist can enter notes, and have a checkbox where they can indicate when the IV is complete. If necessary, insurances can be added/changed/deleted while that screen is open, and the system will immediately show if IV is required for the newly entered insurance. If insurance is ultimately denied, the order will likely be manually cancelled, which will remove it from the worklist. The worklist can be filtered by practice.

Whether or not an order requires and/or meets IV is stored at the Visit level, which for Radnet is perceived at the order level, since typically there is a 1-1 relationship of visit to order.

The three “statues” for IV are **Not Required**, **Required**, and **Done**. The system sets **Required** and **Not Required** automatically, and the user sets the status to **Done** by selecting the Verification Complete checkbox. Note that these statuses are completely distinct from study statuses, and the order can be in any status while going through the IV workflow simultaneously. There are no rules to stop workflow based on the lack of IV.

**Pre-cert (PC)** is the collection of a pre-cert (also called authorization) number from the insurance company. Whether or not a study requires PC is based on rules configured in the insurance table. The relationship is Insurance Carrier to (Modality Type(s) and/or CPT code(s)) and Practice.

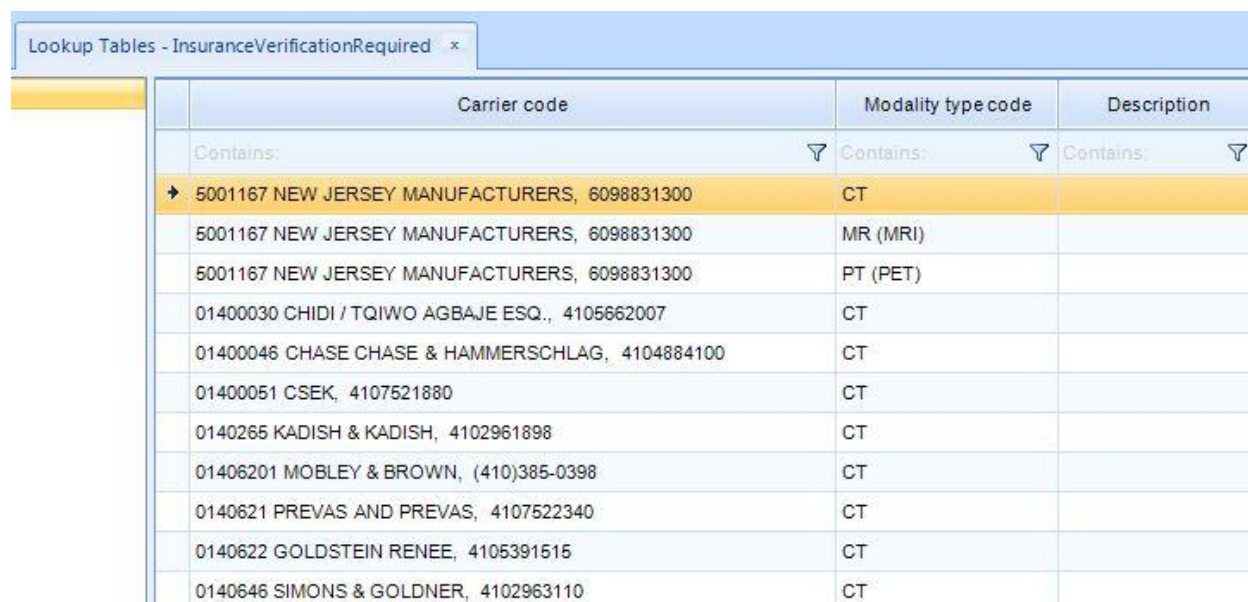
Whether or not a CPT code requires pre-cert will be determined automatically by rRIS, but unlike IV, it does not need to be immediately presented on the scheduler’s screen. It will be determined as the order is saved or scheduled, and sent to the IVT worklist. It is determined and stored at the CPT code level. Note that an order can have multiple procedure codes, and each procedure code can have one or more CPT codes, any of which could require pre-cert based on

the rules above and each pre-cert needs to be stored at that same (CPT) code level. To avoid overload on the worklists however, an order that contains multiple required PC's should appear on the worklist only once per order, but within the order all required PC's should be clear.

It is also a requirement that the system be able to collect PC when the study is in any status. The way that rRIS stores the order before it is scheduled adds internal complexity, however this is in no way visible to the user.

It is also a requirement that during the initial stages of the workflow (ordering, checking in, tech workflow) that studies and/or insurances may be altered. This may invalidate PC numbers and must be able to automatically send these orders back to the IVT worklist without losing any data that was already collected. Note that these rules apply to single studies, multiple studies, and composite codes. For example, if a study is removed from an order and a new series added instead, the pre-cert (if captured) for the original study pre-cert number must be maintained by the system, but (if necessary) the newly added studies may require pre-cert numbers of their own.

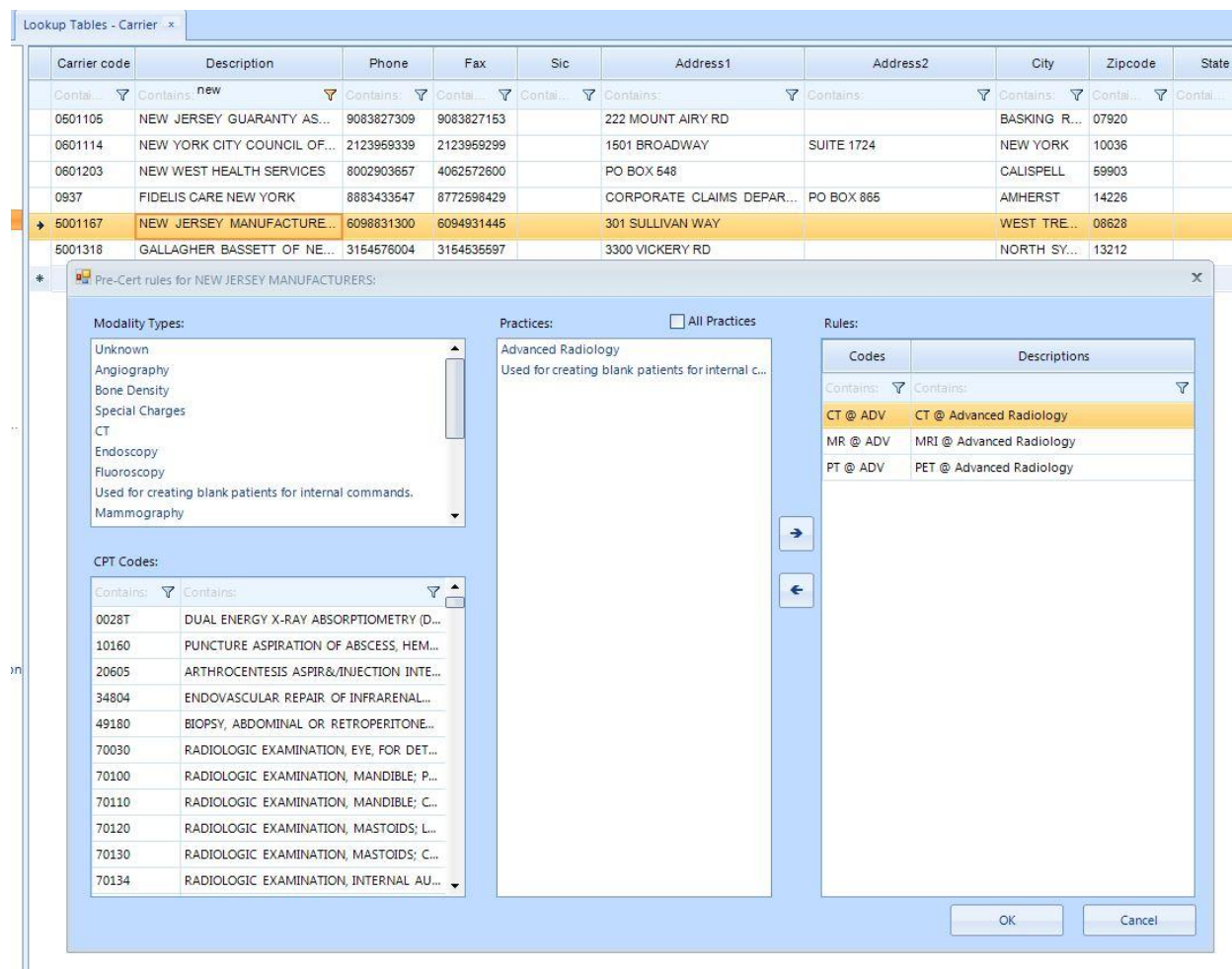
A configuration screen called Insurance Verification Required allows the administrator to correlate an insurance carrier and a modality type.



| Carrier code                                    | Modality type code | Description |
|---|--------------------|-------------|
| Contains: ▼                                     | Contains: ▼        | Contains: ▼ |
| 5001167 NEW JERSEY MANUFACTURERS, 6098831300    | CT                 |             |
| 5001167 NEW JERSEY MANUFACTURERS, 6098831300    | MR (MRI)           |             |
| 5001167 NEW JERSEY MANUFACTURERS, 6098831300    | PT (PET)           |             |
| 01400030 CHIDI / TQIWO AGBAJE ESQ., 4105662007  | CT                 |             |
| 01400046 CHASE CHASE & HAMMERSCHLAG, 4104884100 | CT                 |             |
| 01400051 CSEK, 4107521880                       | CT                 |             |
| 0140265 KADISH & KADISH, 4102961898             | CT                 |             |
| 01406201 MOBLEY & BROWN, (410)385-0398          | CT                 |             |
| 0140621 PREVAS AND PREVAS, 4107522340           | CT                 |             |
| 0140622 GOLDSTEIN RENEE, 4105391515             | CT                 |             |
| 0140646 SIMONS & GOLDNER, 4102963110            | CT                 |             |

**Figure 4.18 – Insurance Verification Required matching Carrier to Modality Type**

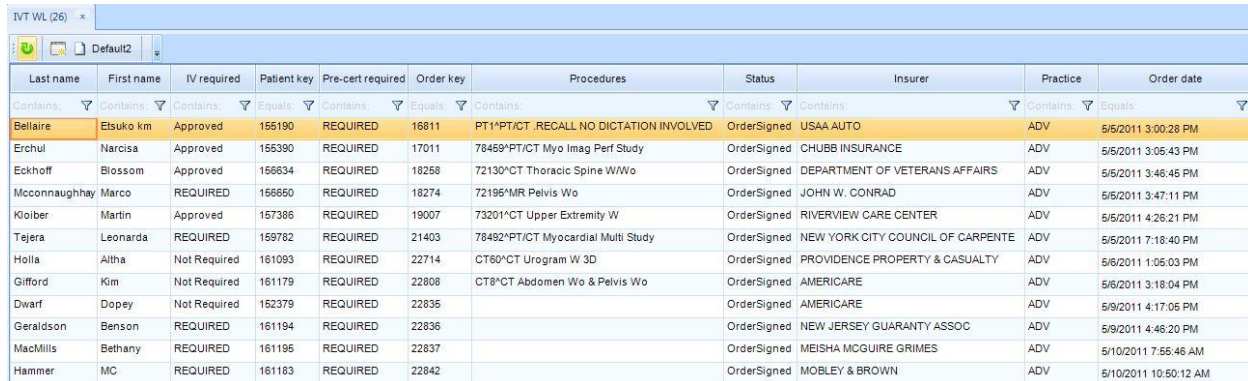
A new admin screen was also built to configure the rules under which a study may require a pre-cert. The relationship is Insurance carrier to Modality type (or CPT code) and practice. This is found in Configuration – Carrier. The user selects a carrier then right-clicks and selects “Pre-Cert Rules”.



**Figure 4.19 – Defining Pre Cert Rules at an Insurance Carrier Level**

## RADNET, Inc. – rRIS Pre-Release Notes

The IVT worklist contains columns for Patient name, Practice, Procedure(s), Insurance Carrier, Pre-cert Status, Insurance Verified Status, Requested Date, and Study Status. Items appear on this worklist by having a pre-cert status of anything other than Done, or a Verify Insurance status of Pending Confirmation.



The screenshot shows a web application window titled "IVT WL (26)". It contains a table with 11 columns: Last name, First name, IV required, Patient key, Pre-cert required, Order key, Procedures, Status, Insurer, Practice, and Order date. The table lists 15 patient records. The first record, Bellaire Etsuko km, is highlighted in orange and has a "REQUIRED" pre-cert status. The other records have various pre-cert statuses, including "REQUIRED", "Not Required", and "Approved". The "Status" column for all records is "OrderSigned". The "Insurer" column lists various insurance carriers, and the "Practice" column lists "ADV". The "Order date" column shows dates from 5/5/2011 to 5/10/2011.

| Last name    | First name | IV required  | Patient key | Pre-cert required | Order key | Procedures                              | Status      | Insurer                           | Practice | Order date            |
|--------------|------------|--------------|-------------|-------------------|-----------|---|-------------|-----------------------------------|----------|-----------------------|
| Bellaire     | Etsuko km  | Approved     | 155190      | REQUIRED          | 16811     | PT1*PT/CT, RECALL NO DICTATION INVOLVED | OrderSigned | USAA AUTO                         | ADV      | 5/5/2011 3:00:28 PM   |
| Erchul       | Narcisa    | Approved     | 155390      | REQUIRED          | 17011     | 78459*PT/CT Myo Imag Perf Study         | OrderSigned | CHUBB INSURANCE                   | ADV      | 5/5/2011 3:05:43 PM   |
| Eckhoff      | Blossom    | Approved     | 156834      | REQUIRED          | 18258     | 72130*CT Thoracic Spine W/Wo            | OrderSigned | DEPARTMENT OF VETERANS AFFAIRS    | ADV      | 5/5/2011 3:46:45 PM   |
| Mcconnaughay | Marco      | REQUIRED     | 156650      | REQUIRED          | 18274     | 72195*MR Pelvis Wo                      | OrderSigned | JOHN W. CONRAD                    | ADV      | 5/5/2011 3:47:11 PM   |
| Kiolber      | Martin     | Approved     | 157386      | REQUIRED          | 19007     | 73201*CT Upper Extremity W              | OrderSigned | RIVERVIEW CARE CENTER             | ADV      | 5/5/2011 4:26:21 PM   |
| Tejera       | Leonarda   | REQUIRED     | 159782      | REQUIRED          | 21403     | 78492*PT/CT Myocardial Multi Study      | OrderSigned | NEW YORK CITY COUNCIL OF CARPENTE | ADV      | 5/5/2011 7:18:40 PM   |
| Holla        | Altha      | Not Required | 161093      | REQUIRED          | 22714     | CT60*CT Urogram W 3D                    | OrderSigned | PROVIDENCE PROPERTY & CASUALTY    | ADV      | 5/6/2011 1:05:03 PM   |
| Gifford      | Kim        | Not Required | 161179      | REQUIRED          | 22808     | CT8*CT Abdomen Wo & Pelvis Wo           | OrderSigned | AMERICARE                         | ADV      | 5/6/2011 3:18:04 PM   |
| Dwarf        | Dopey      | Not Required | 152379      | REQUIRED          | 22835     |   | OrderSigned | AMERICARE                         | ADV      | 5/9/2011 4:17:05 PM   |
| Geraldson    | Benson     | REQUIRED     | 161194      | REQUIRED          | 22836     |   | OrderSigned | NEW JERSEY GUARANTY ASSOC         | ADV      | 5/9/2011 4:46:20 PM   |
| MacMills     | Bethany    | REQUIRED     | 161195      | REQUIRED          | 22837     |   | OrderSigned | MEISHA MCGUIRE GRIMES             | ADV      | 5/10/2011 7:55:46 AM  |
| Hammer       | MC         | REQUIRED     | 161183      | REQUIRED          | 22842     |   | OrderSigned | MOBLEY & BROWN                    | ADV      | 5/10/2011 10:50:12 AM |

**Figure 4.20 – IVT Worklist showing Insurance Verification Required**

The IVT screen uses a patient tab and an IVT tab. On the IVT tab there is a grid of insurances for the selected order. One column of this grid is “Insurance verification required”, which will show the Y/N based on the Insurance Carrier and Modality Type. There is a text box for IVT notes where the user can enter any notes and checkbox to indicate that the verification is complete. Once the user enters that verification complete and the study is saved, this item will fall off the IVT worklist. If the screen is later re-opened, the IV checkbox will be greyed out so that it cannot be un-checked. There should never be a reason on un-set IV.

The CPT codes are listed in the grid named “Billing Code Information”. This will show all CPT codes for the selected order. Each grid row has a data collection field for the pre-cert number. It also has a pre-cert status, which is a drop down list box which contains the statuses “REQUIRED”, “Approved”, “Denied”, and “Pending response”. It is the job of the user to collect the pre-cert number per CPT code, and change the status as appropriate. Only when the status is Approved or Denied does this item fall off the IVT worklist. There is a checkbox below this grid “Show inactive CPT codes”. If a CPT code was pre-certified and then the study was later changed, rRIS must maintain the original pre-cert codes but also allow the new codes to be pre-certified. Setting this checkbox on will show the other CPT codes and their pre-cert statuses.

The screenshot displays the IVT (Insurance Verification Tab) interface. At the top, there are tabs for 'Patient' and 'Insurance Verification Pre-Cert'. Below the tabs, the 'Insurance Policies' section contains a table with columns: Note, Carrier code, Carrier name, Policy number, Group name, Group number, Phone, Notes, Insurance verification, and Priority. A single row is visible for carrier 'MEISHA MCGUIRE GRIMES' with policy number '65629' and status 'REQUIRED'. Below this is a 'Manage Policies' button. The 'Verification and Pre-Cert Notes' section includes a checkbox for 'Verification Complete' (checked) and a text area with the note '05-20-11 sbm - Verification completed by phone'. The 'Billing Code Information' section contains a table with columns: billing code, pre certification number, and pre cert required flag. A single row is visible for code '(74170) COMPUTED TOMOGRAPHY, ABDOMEN; WITHOUT CONTRAST MATERIAL, FOLLOWED BY CONTRAST MATERIAL(S) AND FURTHER SECTIONS' with pre-cert number '7845' and status 'Approved'. At the bottom, there is a checkbox for 'Show inactive CPT codes'.

**Figure 4.21 – Updating IVT with Verification Notes and Authorization Number**

## Technologist Workflow

A technologist workflow has been introduced in Build 1.14. The Technologist Worklist is a date-driven worklist that shows patients that are marked as Arrived, Started, Suspended, and Discontinued for the day. The Perform Exam screen is the main data form for the technologist. It consists of an embedded Patient History Worklist at the top of the screen, Patient tab, Documentation tab, Billing Codes tab, Scan Documents tab, and Notes/Exam Times tab.

| Include                             | Room  | Accession# | Locked by | Status       | Procedures                         | Read STAT | Scheduled Date       |
|-------------------------------------|-------|------------|-----------|--------------|------------------------------------|-----------|----------------------|
| <input type="checkbox"/>            | CT1LU | 1009000    |           | Scheduled    | CT55^CT Foot & Ankle               | N         | 5/20/2011 3:30:00 PM |
| <input type="checkbox"/>            | CT1EL | 1008998    |           | Discontinued | CT13^CT 3 Phase                    | N         | 5/19/2011 3:30:00 PM |
| <input checked="" type="checkbox"/> | CT1LU | 1008999    | spencer   | Started      | CT66^CT Abdomen W & CTA Chest W/Wo | N         | 5/19/2011 3:30:00 PM |
| <input type="checkbox"/>            | US2FH | 1008763    |           | Signed1      | 76604^US Chest                     | N         | 5/11/2011 2:10:00 PM |
| <input type="checkbox"/>            | XR1EL | 1003181    |           | Signed1      | 73615^FL Arthrogram Ankle Fluoro   | N         | 5/7/2011 8:30:00 AM  |
| <input type="checkbox"/>            | CT1FH | 1001987    |           | Signed1      | CT42^CT Chest W & Abdomen W/Wo     | N         | 5/7/2011 8:00:00 AM  |
| <input type="checkbox"/>            | US1FH | 1008769    |           | Signed1      | 76604^US Chest                     | Y         | 5/6/2011 3:30:00 PM  |

**Tech Notes**

Technologists Notes:

Patient has trouble lying down

Primary Tech: Molyneaux, Levin

Assisting Tech 1:

Assisting Tech 2:

Last Menstrual Period: mm-dd-yyyy ☐ Pregnant ☐ Not Pregnant

☒ Shielded Patient

**Procedure**

Scanner: CT1LU

Performed Procedure: CT Abdomen W & CTA Chest W/Wo (CT66)

Laterality/Body Part: / Abdomen

Change Reason Code:

Change Reason Note:

**Chief Complaint**

Referring Physician: AJALA, YOLANDA Phone: 4437778300

Chief Complaint: Patient is complaining of back pain

**Figure 4.22 – Technologist Perform Exam Screen – Documentation Tab**

The **Technologist Notes** text box is a simple mapping to a tech notes field that allows the technologist to enter notes.

The **Primary Tech**, assisting tech 1, and assisting tech 2 are study level attributes. They are filtered to include all Techs in the Practice in which the study was scheduled. The Primary Tech field is mandatory if the status is Started.

**Last Menstrual Period** – this field is disabled if the gender is “Male”. There is a configuration value that indicates which gender represents Male.

**Pregnancy** – these are represented as radiobuttons so the application can force the tech to answer the question before advancing the study to started.

**Shielded Patient** – a yes/no flag that indicates whether the tech shielded the patient. This is not a required field.

**Scanner** – defaults to the scheduled modality. The list is filtered to all modalities of a particular type for a particular site. E.g. if the study is scheduled on a CT in the Summerside clinic, the tech cannot choose either an MRI in Summerside or a CT in Charlottetown. Scanner is a required field.

**Performed Procedure** – defaults to the scheduled procedure. The list is filtered to show only procedures that can be performed on the modality that was specified when the exam was scheduled. If the Performed Procedure changes, the change reason code dropdown box becomes enabled. This will also restart the Insurance Verification Process.

**Change Reason Code** – required, but only enabled if the procedure changes.

**Change Reason Note** – freeform text that only becomes enabled if the procedure changes.

**Referring Physician (hyperlink)** – show the name and phone number of the referring physician for the current order. The link performs a personnel search so that the user sees more contact detail for the physician

| First Name | Last Name | Summary                                    | Home Addresses | Work Addresses  | Resource Details             |
|------------|-----------|--|----------------|---|------------------------------|
| YOLANDA    | AJALA     | Gender: M<br>Cell: 1619164852<br>ID: 18020 |                | Fax Reports to 443777869<br>9105 FRANKLIN SQUARE E<br>SUITE 309<br>BALTIMORE, MD<br>21237 (US)<br>Phone #: 4437778300 | Referring<br>NPI: 1619164852 |

**Figure 4.23 – Referring Physician Search**

**Chief Complaint** – this is mapped to Order Indication.

|   |   |                                |                          |           |               |                                    |           |                      |                        |
|---|---|--------------------------------|--------------------------|-----------|---------------|------------------------------------|-----------|----------------------|------------------------|
| Technologist WL (4)   |   | Perform Exam (jeff carter) * x |                          |           |               |                                    |           |                      |                        |
|   | Include                                 | Room                           | Accession #              | Locked by | Status        | Procedures                         | Read STAT | Scheduled Date       |                        |
|   | <input type="checkbox"/>                | CT1LU                          | 1009000                  |           | Scheduled     | CT55*CT Foot & Ankle               | N         | 5/20/2011 3:30:00 PM |                        |
|   | <input type="checkbox"/>                | CT1EL                          | 1008998                  |           | Discontinued  | CT13*CT 3 Phase                    | N         | 5/19/2011 3:30:00 PM |                        |
|   | <input checked="" type="checkbox"/>     | CT1LU                          | 1008999                  | spencer   | Started       | CT66*CT Abdomen W & CTA Chest W/Wo | N         | 5/19/2011 3:30:00 PM |                        |
|   | <input type="checkbox"/>                | US2FH                          | 1008763                  |           | Signed1       | 76604*US Chest                     | N         | 5/11/2011 2:10:00 PM |                        |
|   | <input type="checkbox"/>                | XR1EL                          | 1003181                  |           | Signed1       | 73615*FL Arthrogram Ankle Fluoro   | N         | 5/7/2011 8:30:00 AM  |                        |
|   | <input type="checkbox"/>                | CT1FH                          | 1001987                  |           | Signed1       | CT42*CT Chest W & Abdomen W/Wo     | N         | 5/7/2011 8:00:00 AM  |                        |
|   | <input type="checkbox"/>                | US1FH                          | 1008769                  |           | Signed1       | 76604*US Chest                     | Y         | 5/6/2011 3:30:00 PM  |                        |
| <div><div>Patient</div><div>Documentation</div><div>Billing Codes</div><div>Scan Documents</div><div>Notes / Exam Times</div></div> |   |                                |                          |           |               |                                    |           |                      |                        |
| Billing Code Information  |   |                                |                          |           |               |                                    |           |                      |                        |
|   | billing code                            |                                | pre certification number |           | cpt modifier1 | cpt modifier2                      | units     | change reason        | pre cert required flag |
|   | (71275) COMPUTED TOMOGRAPHIC ANGIOGR... |                                | 7845                     |           |               |                                    |           |                      | Approved               |

**Figure 4.24 – Technologist Perform Exam Screen – Billing Codes Tab**

This grid will show all active billing/CPT codes for the studies that the tech is currently documenting. In the event that the tech is working on two studies at once, CPT codes from both will be displayed – the tech does not need to switch rows on the patient history grid to see the different bill codes.

**Billing Code** – billing codes relate to procedures, the tech screen does not directly add new rows to this grid, but does call out to other IVT code libraries when the procedure changes.

**Precert #/ precert required flag.** – Shows the pre-cert status of the study.

**CPT Modifiers** – Factors that could affect the cost of the procedure (extra surgeons required, etc).

**Units** – the number of units of contrast used.

**Change reason** – a hard coded list that explains the reason for the CPT modifiers. This will be lookup table driven later.

| Include                             | Room  | Accession# | Locked by | Status       | Procedures                         | Read STAT | Scheduled Date       |
|-------------------------------------|-------|------------|-----------|--------------|------------------------------------|-----------|----------------------|
| <input type="checkbox"/>            | CT1LU | 1009000    |           | Scheduled    | CT55^CT Foot & Ankle               | N         | 5/20/2011 3:30:00 PM |
| <input type="checkbox"/>            | CT1EL | 1008998    |           | Discontinued | CT13^CT 3 Phase                    | N         | 5/19/2011 3:30:00 PM |
| <input checked="" type="checkbox"/> | CT1LU | 1008999    | spencer   | Started      | CT66^CT Abdomen W & CTA Chest W/Wo | N         | 5/19/2011 3:30:00 PM |
| <input type="checkbox"/>            | US2FH | 1008763    |           | Signed1      | 76604^US Chest                     | N         | 5/11/2011 2:10:00 PM |
| <input type="checkbox"/>            | VB1EL | 1002181    |           | Signed1      | 72615^EL Arthrogram Ankle Elbow    | N         | 5/7/2011 8:30:00 AM  |

**Notes / Exam Times**

**Scheduling / Arrival**

Scheduled Time: 05-19-2011 3:30 PM      Scheduled By: [MacDougall, Spencer Phone: \(902\) 456-1231](#)

Arrival Time: 05-18-2011 1:49 PM      Arrived By: [MacDougall, Spencer Phone: \(902\) 456-1231](#)

Arrival Early/Late: 25 hours 41 minutes early

**Exam Time**

Start Time: 05-20-2011 11:22 AM      Completed By: [MacDougall, Spencer Phone: \(902\) 456-1231](#)

Completed Time: mm-dd-yyyy h:mm am/pm

Start Early/Late: n/a

Exam Duration: n/a

**Appointment Notes**

05-20-11 sbm -

**Patient Notes**

05-20-11 sbm -

Start    Suspend    Complete    Abort    Save    Close

**Figure 4.25 – Technologist Perform Exam Screen – Notes/Exam Times Tab**

This tab shows the Scheduled Time, Arrival Time, Start Time and completed time for the study. It also shows a hyperlink for the user that scheduled, arrived, or performed the exam (the behaviour matches the behaviour for the referring physician hyperlink). There are some calculated fields that show whether the patient arrived early or late, whether the exam was started early or late, and whether the exam duration was greater than or less than the duration indicated for that procedure. The appointment notes and patient notes are mapped to notes columns at the visit and patient level respectively.

The status buttons available to the tech at the bottom of the screen are conditionally enabled based on the current status of the study. For example, the tech cannot Start an exam after it has already been set to Discontinued.

## 5. Known Limitations

Bugs, Suggested Features, and Support Issues are now tracked in a web based system called Redmine. The following is a snapshot of the issues found in Build 1.13 and 1.14. A number of issues had been found and immediately resolved as part of the clean-up process in preparation for the demos during the week of May 9<sup>th</sup>.

| #   | Status      | Subject  | Category         | Found | %Done | Resolved |
|-----|-------------|--|------------------|-------|-------|----------|
| 368 | New         | Tech - Patient History should be scrollable  | Thick Client GUI | 1.14  | 0     |          |
| 367 | New         | Scan Document - Form does not cascade properly   | Thick Client GUI | 1.14  | 0     |          |
| 366 | New         | Scan Document - Missing scroll bar on patient history grid   | Thick Client GUI | 1.14  | 0     |          |
| 365 | New         | ProcedureCode - Procedure group code should be a required field  | Admin Tools      | 1.14  | 0     |          |
| 364 | New         | Insurance - Prompted for Claim Number when not using carrier   | Thick Client GUI | 1.14  | 0     |          |
| 363 | Resolved    | Order DW - Patient Height  | Thick Client GUI | 1.13  | 100   | 1.15     |
| 362 | Resolved    | When cancelling a study it does not free up the booked time in the booking summary   | Web Services/DB  | 1.13  | 100   | 1.15     |
| 361 | In Progress | changing a scheduled procedure causes multiple rows in c_study_item and the gui and service does not know which code is active | Web Services/DB  | 1.13  | 0     |          |
| 357 | Resolved    | Lookup table filters with dropdown datatype don't work   |                  | 1.13  | 100   | 1.14     |
| 356 | Closed      | Edit Order - Same user can Edit and Schedule the same order causing exception  | Thick Client GUI | 1.13  | 0     |          |
| 355 | Resolved    | Edit Order - Does not retrieve or save CC Physicians   | Thick Client GUI | 1.13  | 100   | 1.14     |
| 354 | New         | Context Menus ignore access strings  | Thick Client GUI | 1.13  | 0     |          |
| 353 | New         | Labels and Forms - System does not check to see if parameter is available  | Thick Client GUI | 1.13  | 0     |          |
| 352 | Resolved    | Registration - User can Arrive patient again late in the workflow  | Thick Client GUI | 1.13  | 100   | 1.14     |
| 351 | Resolved    | Technologist Workflow - Scanner not displaying for Exam  | Thick Client GUI | 1.13  | 100   | 1.14     |
| 350 | Resolved    | Scan Error - Move to Patient Level   | Thick Client GUI | 1.13  | 100   | 1.14     |
| 349 | Resolved    | Scanning - Technologist WL   | Thick Client GUI | 1.13  | 100   | 1.14     |
| 348 | Resolved    | Scanning - Click Patient Folder Error  | Thick Client GUI | 1.13  | 100   | 1.14     |
| 347 | Resolved    | Scheduling - ReadOnly Notes strategy   | Thick Client GUI | 1.13  | 100   | 1.14     |
| 346 | Resolved    | Roles should not display if there are no child items   | Thick Client GUI | 1.13  | 100   | 1.14     |
| 345 | Resolved    | Exam Done WL - Export to Excel   | Thick Client GUI | 1.13  | 100   | 1.14     |
| 344 | Resolved    | Order - CC Physicians show key values on refresh   | Thick Client GUI | 1.13  | 100   | 1.14     |