

# RAPTOR User Manual

## Contents

RAPTOR Clinical Functions .....	4
Worklist Data .....	4
<b>Pass Box</b> .....	5
URL .....	5
Sample .....	5
Protocol Page .....	7
URL .....	7
Sample .....	7
Medication Tab .....	10
Sample .....	10
Vitals Tab .....	10
Sample .....	11
Allergy Tab .....	12
Sample .....	12
Laboratory (Labs) Tab .....	12
Sample .....	12
<b>Rad Watch Tab</b> .....	13
Sample .....	13
Clin Reports Tab .....	13
Sample .....	14
Problem List Tab .....	14
Sample .....	15
Notes Tab .....	15
Sample .....	16
Radiology Reports Tab .....	16
URL .....	17
Sample .....	17
Library Tab .....	18
Sample .....	18

Contraindication Alerts .....	19
Sample.....	19
Timer Warning .....	20
Sample.....	20
Collaboration Feature .....	21
Sample.....	21
Ready for Examination Worklist Filter Mode.....	22
Interpretation Worklist Filter Mode .....	23
QA Worklist Filter Mode .....	23
Needs Cancel Replace Worklist Filter Mode.....	23
Revision History .....	24

**Table of Figures and Tables**

Figure 1- Worklist Data .....	4
Figure 2 Customize Column Sequence within Worklist .....	5
Figure 3 <b>Pass Box</b> .....	6
Figure 4 <b>Pass Box</b> Calendar Feature .....	6
Figure 5 Protocol Tab - Patient Header, Medication Status, Protocol Name Options .....	7
Figure 6 Protocol Tab - Vitals Status, Contrast and Consent Options.....	8
Figure 7 Protocol Tab - Hydration Options, Allergy, Labs and Radiology Reports Status.....	8
Figure 8 Protocol Tab - Sedation, Allergy and Claustrophobic Options.....	9
Figure 9 Protocol Tab – Protocol Notes Boilerplate Text Helpers .....	9
Figure 10 Protocol Tab - Contraindications Requiring Acknowledgement.....	10
Figure 11 Medication Tab .....	10
Figure 12 Vitals Tab Graphical Display .....	11
Figure 13 Vital Tab - Table Display.....	11
Figure 14 Allergy Tab .....	12
Figure 15 Lab Tab .....	13
Figure 16 Rad Watch Tab .....	13
Figure 17 Clinical Report Tab - Report List.....	14
Figure 18 Clinical Reports - Surgery Report .....	14
Figure 19 Problem List Tab.....	15
Figure 20 Problem List - Problem Details.....	15
Figure 21 Notes Tab - List of Notes .....	16
Figure 22 Notes Tab - Notes Detail .....	16
Figure 23 Radiology Report List .....	17
Figure 24 Radiology Report Details.....	17
Figure 25 Radiology Report - X-ray Image .....	18
Figure 26 Library Tab - List and Links to Radiology Protocol Procedures .....	19
Figure 27 Contraindication Alerts .....	20
Figure 28 Timer Warning .....	21
Figure 29 Collaboration Request .....	22
Figure 30 Collaboration Request Status.....	22
Figure 31- Needs Cancel/Replace Worklist.....	23

## RAPTOR Clinical Functions

### Worklist Data

The worklist shows all the available orders for a user to protocol. The user can customize the order of the worklist columns to suit their needs.

View mode is for non-clinical users, such as department executive. There are no edits in view mode.

The lock icon is to designate that the record is being worked on. When multiple users are in the system, this visual aide helps to avoid the users duplicating work.

Tracking ID	Patient	Date/Time Desired	Date Ordered	Modality	Study	Urgency	Transport	Patient Category / Location	Anatomy Imaging Subspecialty	Workflow Status	Assignment
987654111	Doe5, John	2013-08-10 @1530	2013-08-05	CT	CT GUIDANCE FOR CYST ASPIRATION S&I	STAT	Transport	Inpatient	Cervical Spine	Active	Open
987654114	Doe3, John	2013-08-07 @1100	2013-08-03	CT	CT GUIDANCE FOR NEEDLE BIOPSY CP	STAT	Transport	Inpatient	Cervical Spine	Active	Open
987654116	Doe4, John	2013-08-07 @1000	2013-08-03	MRI	MRI BRAIN WITHOUT CONTRAST	STAT	Transport	Inpatient	Brain	Active	Open
987654118	Doe3, John	2013-08-07 @1000	2013-08-03	NUCLEAR	RADIONUCLIDE ABLATION OF THYROID GLAND FOR THYROID CARCINOMA	STAT	Transport	Inpatient	Radiation Oncology	Active	Open
987654120	Doe5, John	2013-08-06 @1000	2013-08-03	MRI	MAGNETIC IMAGE,THORACIC SPINE	STAT	Transport	Outpatient	Thoracic Spine	Active	Open

Figure 1- Worklist Data

Figure 2 Customize Column Sequence within Worklist

## Pass Box

The Pass Box screen allows the user to assign work, note the status of room scheduling and track utilization. It also allows the user to comment on the cancel/replace status of an order.

---

*NOTE: Pass Box can be used to facilitate the communications between radiologists and schedulers.*

---

## URL

<http://184.73.210.16/RSITE500/raptor/worklist>

## Sample

Below is a sample Pass Box page

**Pass Box for ONEZEROONEONEONESEVEN, PATIENT**

Tracking ID	500-2028	Patient Name	ONEZEROONEONEONESEVEN, PATIENT
Study	CT HEAD W&WO CONT	Patient DOB	01/03/1948
Requested Date	DEC 02, 2013@16:53	Urgency	ROUTINE

Scheduling Details (Not Integrated With Enterprise Scheduling System)

Location	Patient Notified										
Labs Notified	Nurse Notified	Patient Notified	Provider Note	RM 158	RM 250	RM 255	RM 390				
Event Date	07/26/2015										
Start Time	12:06	Use Current Time	10	Duration (minutes)	10	15	20	30	45	60	
Confirmed by patient		<input type="radio"/> No	<input checked="" type="radio"/> Yes (2015-07-26 12:07:00)								
Has the patient confirmed this appointment?											

Request Cancel Or Replace (Moves In RAPTOR But Does Not Change VISTA Attributes)

Reason for cancellation or replace order request	<input type="button" value="▼"/>
Select reason for requesting cancellation of this procedure.	

Protocol attention of

Suggested for the attention of a specific Resident or Radiologist (Needs Attention)

Figure 3 Pass Box

**Schedule for ZZZRETFIVESEVENTYFOUR, PATIENT**

Tracking ID	443	Patient Name	ZZZRETFIVESEVENTYFOUR, PATIENT
Study	CT THORAX W/O CONT	Patient DOB	04/07/1935
Requested Date	APR 23, 1993	Urgency	ROUTINE

Location

Event Date

Start Time

Duration (minutes)

Confirmed by  No  Yes (2014-08-12 23:09:00)  Has the patient confirmed this appointment?

Reason for cancellation (If canceled)

Attention of suggestion

Suggested for the attention of a specific Resident or Radiologist

Scheduler Notes

Notes contain patient care information?  No  Yes

Should system ask Radiologist and Technologist to confirm reading the note?

Figure 4 Pass Box Calendar Feature

## Protocol Page

The Protocol page allow users to be able to view and select protocol options for the order and links to patient medical history extracted from VistA. The Privileged user can approve, reserve, cancel or replace the order.

---

*NOTE: The header of the page includes patient and order information. The left side of the page is a dashboard of VistA patient status. The right side of the page is the action space where the Privileged user can enter pre-medication information. The bottom of the page has the workflow buttons.*

---

### URL

<http://184.73.210.16/RSITE500/raptor/protocol>

### Sample

Below is a sample Protocol Tab.

Tracking ID	Procedure	Image Type	Requested By	Submit Request To	Category of Exam	
500-2925	ARTHROGRAM ANKLE S&I	GENERAL RADIOLOGY	PROVIDER,FIVEHUNDREDTHREE	CHEST ROOM	OUTPATIENT	
<b>Ordered/Due Date</b>	<b>Requesting Location</b>	<b>Reason for Study</b>	<b>SSN</b>	<b>PCP</b>	<b>Transport</b>	<b>Urgency</b>
APR 21, 2014@09:30 / APR 21, 2014	RADIOLOGY	TEST	666-00-0012	Unknown	AMBULATORY	ROUTINE
<b>Patient Name</b>	<b>Age</b>	<b>Clinical History</b>	<b>DOB</b>	<b>Ethnicity</b>	<b>Attending</b>	<b>Gender</b>
TWELVE, PATIENT	80		04/07/1935	WHITE, NOT OF HISPANIC ORIGIN	Unknown	M

• Age risk  
• Renal risk

Figure 5 Protocol Tab - Patient Header, Medication Status, Protocol Name Options

**TWELVE, PATIENT**

Medications		
Med	At Risk ?	Status
ASPIRIN TAB,EC	no	Active
(see medications detail )		

**Vitals**

Date	Vital	Value
03/05/2010 09:00 am	Temperature	98.5 F
03/05/2010 09:00 am	Blood Pressure	134/81 mmHg
08/24/2009 02:00 pm	Height	71 in (180.3 cms)
03/05/2010 09:00 am	Weight	178 lb (80.7 kgs)
03/05/2010 09:00 am	Body Mass Index	25

**PROTOCOL NAME\***  
CT Abdomen and pelvis with IV and oral contrast  
A standard protocol from the hospital's radiology notebook.

**SECONDARY PROTOCOL NAME**  
CT Abdomen and pelvis with IV and oral contrast  
Select a second protocol only if more than one is needed for this study.

**CONTRAST\***

None RESET

Enteric [CUSTOMIZE]  
Ultravist 300 [CUSTOMIZE]

IV

**CONSENT REQUIRED\***

Unknown

No

Yes

Figure 6 Protocol Tab - Vitals Status, Contrast and Consent Options

**TWELVE, PATIENT**

(see vitals detail )		
----------------------	--	--

**Allergies**

Allergy Reactant	Allergy Type	O/H
CHOCOLATE	DRUG, FOOD	
PENICILLIN	DRUG	

(see allergies detail )

**Labs**

RENAL PANEL		
Date	Creatinine	eGFR
03/16/2010 10:23 am	1.3 mg/dL	56 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:21 am	1.1 mg/dL	68 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:20 am	1.3 mg/dL	56 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:18 am	II 1.5 mg/dL II	48 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:17 am	1.2 mg/dL	62 mL/min/1.73 m <sup>2</sup>

(see labs detail )

**Radiology Reports**

Title	Date
CHEST-SINGLE VIEW	04/21/2014 09:29 am
THYROID CA METASTASES IMAGING, LIMITED AREA ONLY	04/18/1994 02:15

**HYDRATION\***  
 None

Oral [CUSTOMIZE]  
500cc H2O over 2hr pre-scan + post-scan

IV [CUSTOMIZE]  
Other (See protocol notes)

**SEDATION\***

**RADIONUCLIDE\***

**ALLERGY (PATIENT HAS)\***  
 Unknown  No  Yes

**CLAUSTROPHOBIC (PATIENT IS)\***  
 Unknown  No  Yes

Figure 7 Protocol Tab - Hydration Options, Allergy, Labs and Radiology Reports Status

RENAL PANEL		
Date	Creatinine	eGFR
03/16/2010 10:23 am	1.3 mg/dL	56 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:21 am	1.1 mg/dL	68 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:20 am	1.3 mg/dL	56 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:18 am	!! 1.5 mg/dL !!	48 mL/min/1.73 m <sup>2</sup>
03/16/2010 10:17 am	1.2 mg/dL	62 mL/min/1.73 m <sup>2</sup>

(see labs detail )

Radiology Reports	
Title	Date
CHEST-SINGLE VIEW	04/21/2014 09:29 am
THYROID CA METASTASES IMAGING, LIMITED AREA ONLY	04/18/1994 02:15 pm
BONE DENSITY STUDY, DUAL PHOTON ABSORPTIOMETRY	04/15/1994 08:00 am

(see radiology detail )

**TWELVE, PATIENT**

**SEDATION\***

None

Oral

IV

Adavant  
Midazolam  
Valium 10mg PO 20 min before scan  
Other (See protocol notes)

**RADIONUCLIDE\***

None

Enteric

IV

**ALLERGY (PATIENT HAS)\***

Unknown  No  Yes

**CLAUSTROPHOBIC (PATIENT IS)\***

Unknown  No  Yes

Figure 8 Protocol Tab - Sedation, Allergy and Claustrophobic Options

BONE DENSITY STUDY, DUAL PHOTON ABSORPTIOMETRY	04/15/1994 08:00 am
--	---------------------

(see radiology detail )

**TWELVE, PATIENT**

**ALLERGY (PATIENT HAS)\***

Unknown  No  Yes

**CLAUSTROPHOBIC (PATIENT IS)\***

Unknown  No  Yes

**PROTOCOL NOTES BOILERPLATE TEXT HELPERS**

General

Labs Needed  Mass Markers  On Table Check  Unauthorized Provider

Hydration

IV Inpatient  IV Outpatient  Oral

Premedication

Diphenhydramine  Emergency  Methylprednisolone  Prednisone

Protocol Notes

Application/Chief Complaint: R/O abscess, FUO, Abdominal Pain, Diverticulitis, Cancer staging. Image Order: Dome of the diaphragm through the pubic symphysis IV: Scan delay 65 sec.

Figure 9 Protocol Tab – Protocol Notes Boilerplate Text Helpers

**TWELVE, PATIENT**

**CONTRAINdications NOT REQUIRING ACKNOWLEDGEMENT**

Notification: Age risk

- Patient age of 60 years or older carries increased risk for IV contrast complications. Consider noncontrast exam or alternate imaging modality.

**CONTRAINdications REQUIRING ACKNOWLEDGEMENT\***

- Acknowledgement of Renal risk
  - Patient medication use increases risk for IV contrast complications.
  - Impaired renal function, consider non-contrast study or alternative imaging modality
  - Impaired renal function, consider pre and post-exam hydration for renal protection if IV contrast will be administered.
  - Impaired renal function, consider reduced dose of IV contrast if IV contrast will be administered
- Acknowledgement of Age risk
  - Patient is over age 60

**Buttons:** Approve, Collaborate, Release back to Worklist without Saving, Reserve, Replace Order, Cancel Order

Figure 10 Protocol Tab - Contraindications Requiring Acknowledgement

## Medication Tab

The Medication Tab allows users to be able to view the status of known medications the patient is taking extracted from VistA patient record information. This table can be sorted, searched and expanded by the user.

---

*NOTE: At-risk medication is searched and visually highlighted when matched to the medications list.*

---

## Sample

Below is a sample Medication Tab

Medication	At Risk ?	Status
ASPIRIN TAB,EC	no	Active

Figure 11 Medication Tab

## Vitals Tab

The Vitals Tab allow users to be able to view the status of key vital signs taken from all recorded patient encounters stored in VistA. This table can be sorted, searched and expanded by the user.

*NOTE: The temperature and pulse is graphed to assist the user to understand the condition of the patient.*

## Sample

Below is a sample Vitals Tab

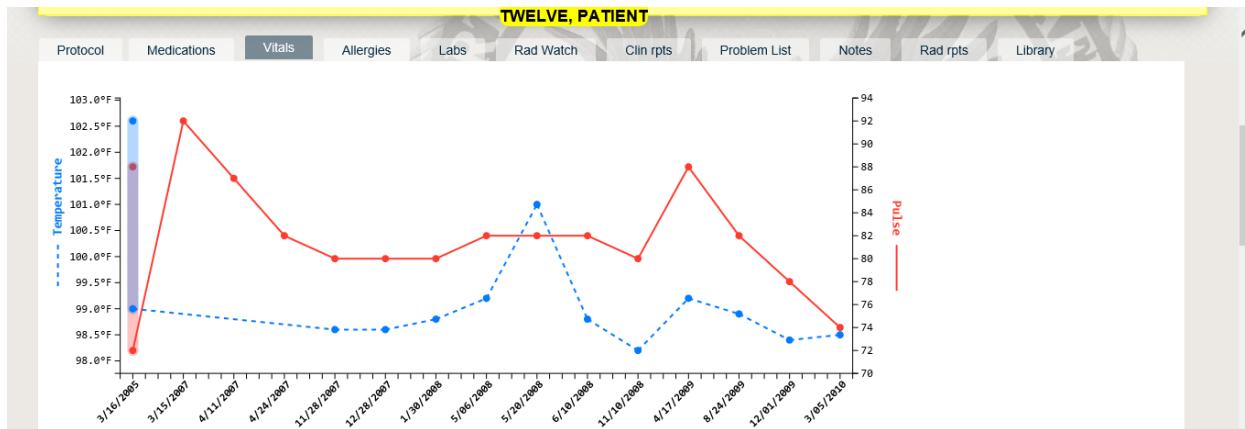


Figure 12 Vitals Tab Graphical Display

TWELVE, PATIENT														
Show 10 ▾ entries		Search: <input type="text"/>												
Date	Temp	Height	Weight	BMI	Blood Pressure	Pulse	Resp	Pain	C/G	Pox	CVP	Blood Glucose		
03/05/2010 09:00 am	98.5 F		178 lb (80.7 kg)	25	134/81 mmHg	74 /min		1						
12/01/2009 08:53 am	98.4 F		182 lb (82.6 kg)	25	143/87 mmHg	78 /min		2		98 % SpO2				
08/24/2009 02:00 pm	98.9 F	71 in (180.3 cm)	190 lb (86.2 kg)	27	154/90 mmHg	82 /min	18 /min	6		97 % SpO2				
04/17/2009 12:00 pm	99.2 F		185 lb (83.9 kg)	26	143/90 mmHg	88 /min	17 /min	4		97 % SpO2				
11/10/2008 08:00 am	98.2 F		180 lb (81.6 kg)	25	135/86 mmHg	80 /min	18 /min	2		97 % SpO2				
06/10/2008 11:00 am	98.8 F	71 in (180.3 cm)	172 lb (78 kg)	24	124/80 mmHg	82 /min		0		98 % SpO2				
05/20/2008 11:00 am	101 F	71 in (180.3 cm)	170 lb (77.1 kg)	24	158/104 mmHg	82 /min		3		98 % SpO2				
05/06/2008 10:00 am	99.2 F	71 in (180.3 cm)	174 lb (78.9 kg)	24	156/96 mmHg	82 /min		3		98 % SpO2				
01/30/2008 11:00 am	98.8 F				145/94 mmHg	80 /min		2		98 % SpO2				

Figure 13 Vital Tab - Table Display

## Allergy Tab

The Allergy Tab allows users to be able to view the status of known allergies the patient has based on extracted VistA patient record information. This table can be sorted, searched and expanded by the user.

---

*NOTE: A short list of patient's allergies is displayed on the protocol page and a full list is displayed on the allergy page.*

---

### Sample

Below is a sample Allergy Tab

Date Reported	Item	Causative Agent	Signs/Symptoms	Observed/Historical
12/17/2007	CHOCOLATE	DRUG, FOOD	DIARRHEA	
03/20/2005	PENICILLIN	DRUG	ITCHING, WATERING EYES	

Showing 1 to 2 of 2 entries

Previous 1 Next

[Back to Protocol](#)

Figure 14 Allergy Tab

## Laboratory (Labs) Tab

The Labs Tab allows users to be able to view the status of key laboratory test results extracted from VistA patient record information. This table can be sorted, searched and expanded by the user. Creatinine values out of reference range are visually highlighted.

---

*NOTE: A patient's eGFR is calculated and graphed to assist the user to understand the condition of the patient.*

---

### Sample

Below is a sample Lab Table

Figure 15 Lab Tab

## Rad Watch Tab

The Rad Watch Tab provides a summarized history of the radiology tests performed on the patient in order to conduct radiation exposure surveillance for patient safety. This tab can be sorted, searched and expanded by the user.

*NOTE: Rad Watch summarizes historical RAPTOR notes for patients.*

## Sample

Below is a sample Rad Watch Tab.

Figure 16 Rad Watch Tab

## Clin Reports Tab

The Clin Reports Tab displays the information extracted from the VistA patient record that pertains to clinical services and procedures such as Pathology and Surgery reports. These tables can be sorted, searched and expanded by the user.

*NOTE: Users can search for note contents via the search box in the upper right corner of each table.*

## Sample

Below is a sample Clinical Reports Tab.

Figure 17 Clinical Report Tab - Report List

Figure 18 Clinical Reports - Surgery Report

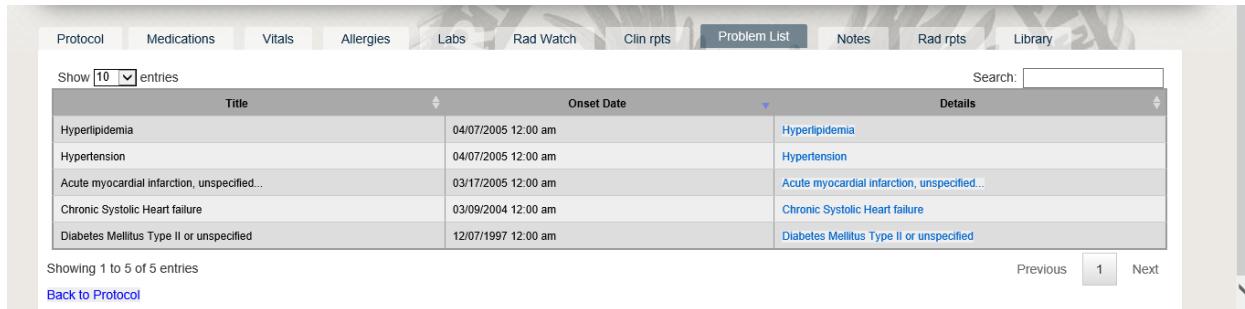
## Problem List Tab

The Problem List Tab provides a list of the clinical problems extracted from the VistA patient record. This table can be sorted, searched and expanded by the user.

*NOTE: Users can search for note contents via the search box in the upper right corner of the table.*

## Sample

Below is a sample Problem List tab.

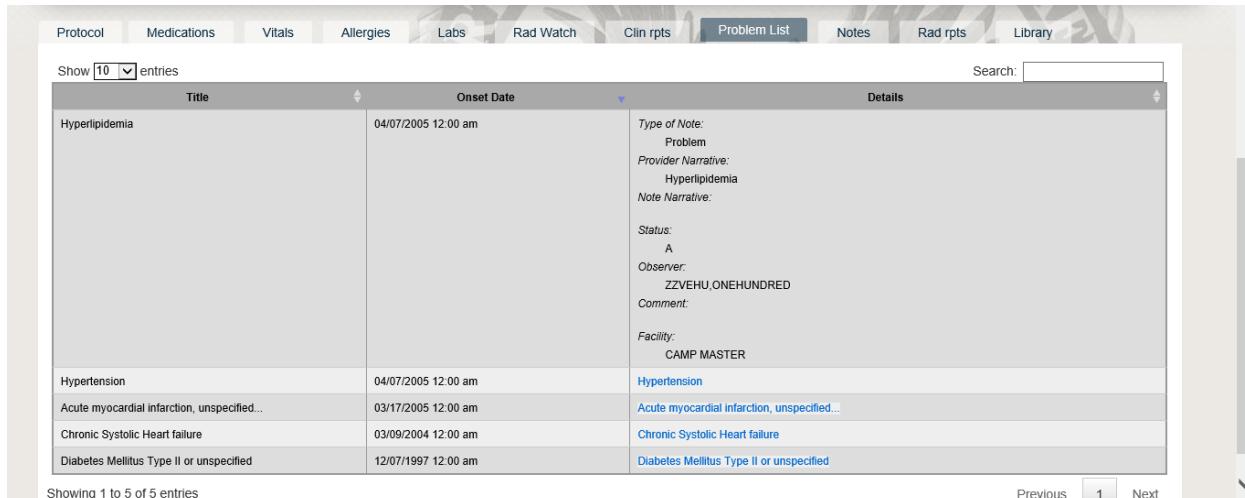


The screenshot shows the RAPTOR interface with the 'Problem List' tab selected. The table displays five entries:

Title	Onset Date	Details
Hyperlipidemia	04/07/2005 12:00 am	Hyperlipidemia
Hypertension	04/07/2005 12:00 am	Hypertension
Acute myocardial infarction, unspecified...	03/17/2005 12:00 am	Acute myocardial infarction, unspecified...
Chronic Systolic Heart failure	03/09/2004 12:00 am	Chronic Systolic Heart failure
Diabetes Mellitus Type II or unspecified	12/07/1997 12:00 am	Diabetes Mellitus Type II or unspecified

Below the table, it says 'Showing 1 to 5 of 5 entries' and has 'Previous' and 'Next' buttons. A 'Back to Protocol' link is also present.

Figure 19 Problem List Tab



The screenshot shows the RAPTOR interface with the 'Problem List' tab selected. The table displays five entries, with the first entry expanded to show detailed notes:

Title	Onset Date	Details
Hyperlipidemia	04/07/2005 12:00 am	<p>Type of Note: Problem</p> <p>Provider Narrative: Hyperlipidemia</p> <p>Note Narrative:</p> <p>Status: A</p> <p>Observer: ZZVEHU, ONEHUNDRED</p> <p>Comment:</p> <p>Facility: CAMP MASTER</p>
Hypertension	04/07/2005 12:00 am	Hypertension
Acute myocardial infarction, unspecified...	03/17/2005 12:00 am	Acute myocardial infarction, unspecified...
Chronic Systolic Heart failure	03/09/2004 12:00 am	Chronic Systolic Heart failure
Diabetes Mellitus Type II or unspecified	12/07/1997 12:00 am	Diabetes Mellitus Type II or unspecified

Below the table, it says 'Showing 1 to 5 of 5 entries' and has 'Previous' and 'Next' buttons.

Figure 20 Problem List - Problem Details

## Notes Tab

The Notes Tab provides a list and details of the notes extracted from the VistA patient record. This table can be sorted, searched and expanded by the user.

*NOTE: By default, the most recent 10 table entries are displayed. The user can display additional entries by selecting the desired number of entries in the upper left hand corner of the table.*

## Sample

Below is a sample Notes Tab.

Title	Date	Details
ADVANCE DIRECTIVE COMPLETED	05/16/2007 09:59 am	ADVANCE DIRECTIVE COMPLETED
AUDIOLOGY - HEARING LOSS CONSULT	04/01/2004 11:12 pm	AUDIOLOGY - HEARING LOSS CONSULT
GENERAL MEDICINE NOTE	03/31/2004 03:22 pm	GENERAL MEDICINE NOTE
DIABETES	03/31/2004 12:11 pm	DIABETES
Zzcamper02	05/23/2001 03:50 am	Zzcamper02
21 DAY CERTIFICATION	05/23/2001 03:49 am	21 DAY CERTIFICATION
ADVANCE DIRECTIVE	10/18/2000 04:04 pm	ADVANCE DIRECTIVE
ADVANCE DIRECTIVE	10/18/2000 04:04 pm	ADVANCE DIRECTIVE
CRISIS NOTE	05/21/2000 12:04 pm	CRISIS NOTE
CRISIS NOTE	05/21/2000 11:56 am	CRISIS NOTE

Showing 1 to 10 of 14 entries

Previous 1 2 Next

[Back to Protocol](#)

Figure 21 Notes Tab - List of Notes

Title	Date	Details
ADVANCE DIRECTIVE COMPLETED	05/16/2007 09:59 am	<p>Type of Note: ADVANCE DIRECTIVE COMPLETED</p> <p>Author: ZZLABTECH</p> <p>Note Text:</p> <p>LOCAL TITLE: ADVANCE DIRECTIVE COMPLETED</p> <p>STANDARD TITLE: ADVANCE DIRECTIVE</p> <p>DATE OF NOTE: MAY 16, 2007@09:59</p> <p>ENTRY DATE: MAY 16, 2007@09:59:21</p> <p>AUTHOR: ZZLABTECH, FIFTYNINE EXP COSIGNER</p> <p>URGENCY: STATUS: COMPLETED</p> <p>Facility: VistA Imaging - Scanned Document</p> <p>/es/ GuE!?dIW02{_hw&amp;})</p> <p>Signed: 05/16/2007 09:59</p>
AUDIOLOGY - HEARING LOSS CONSULT	04/01/2004 11:12 pm	AUDIOLOGY - HEARING LOSS CONSULT
GENERAL MEDICINE NOTE	03/31/2004 03:22 pm	GENERAL MEDICINE NOTE
DIABETES	03/31/2004 12:11 pm	DIABETES
Zzcamper02	05/23/2001 03:50 am	Zzcamper02

Figure 22 Notes Tab - Notes Detail

## Radiology Reports Tab

The Radiology Reports Tab provides a list and details of the radiology reports extracted from the VistA patient record. This table can be sorted, searched and expanded by the user.

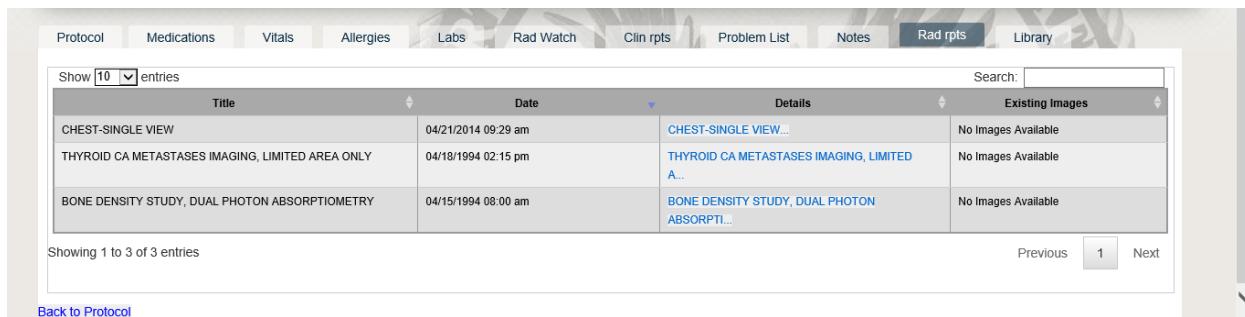
*NOTE: When an image thumbnail is displayed, an image may be selected to view with an embedded viewer.*

## URL

[http://184.73.210.16/RSITE500/raptor/protocol?rawrtid=\[2028\]](http://184.73.210.16/RSITE500/raptor/protocol?rawrtid=[2028])

## Sample

Below is a sample Radiology Reports Tab.



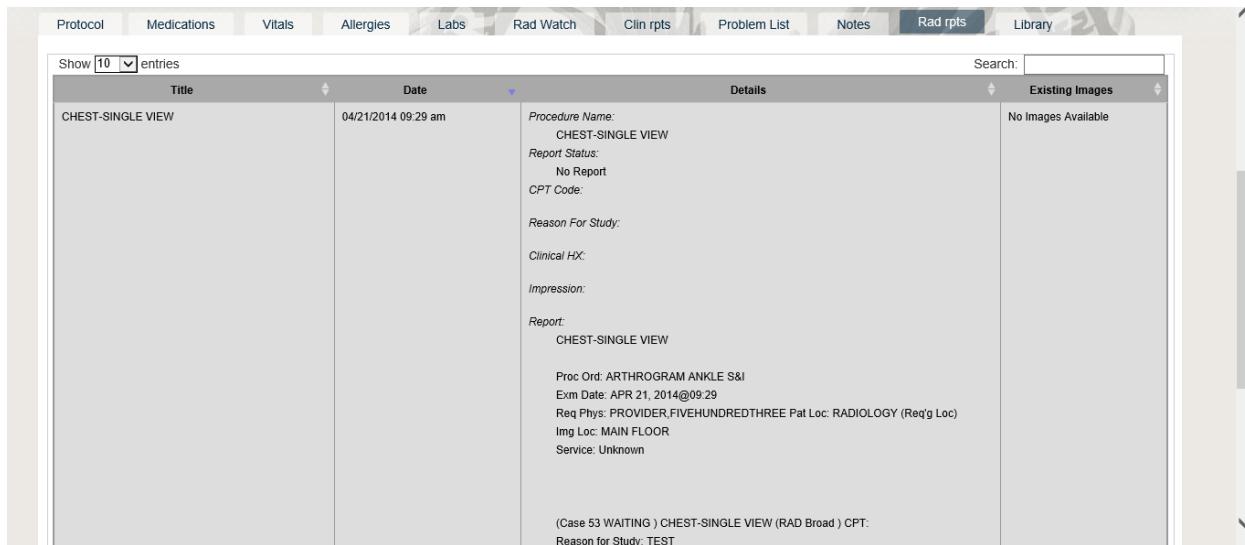
Radiology Reports			
Protocol	Medications	Vitals	Allergies
Labs	Rad Watch	Clin rpts	Problem List
Show 10 entries			Search: <input type="text"/>
Title	Date	Details	Existing Images
CHEST-SINGLE VIEW	04/21/2014 09:29 am	CHEST-SINGLE VIEW...	No Images Available
THYROID CA METASTASES IMAGING, LIMITED AREA ONLY	04/18/1994 02:15 pm	THYROID CA METASTASES IMAGING, LIMITED A...	No Images Available
BONE DENSITY STUDY, DUAL PHOTON ABSORPTIOMETRY	04/15/1994 08:00 am	BONE DENSITY STUDY, DUAL PHOTON ABSORPTI...	No Images Available

Showing 1 to 3 of 3 entries

Previous 1 Next

[Back to Protocol](#)

Figure 23 Radiology Report List



Report Details			
Protocol	Medications	Vitals	Allergies
Labs	Rad Watch	Clin rpts	Problem List
Show 10 entries			Search: <input type="text"/>
Title	Date	Details	Existing Images
CHEST-SINGLE VIEW	04/21/2014 09:29 am	<p>Procedure Name: CHEST-SINGLE VIEW</p> <p>Report Status: No Report</p> <p>CPT Code:</p> <p>Reason For Study:</p> <p>Clinical HX:</p> <p>Impression:</p> <p>Report: CHEST-SINGLE VIEW</p> <p>Proc Ord: ARTHROGRAM ANKLE S&amp;I Exam Date: APR 21, 2014@09:29 Req Phys: PROVIDER,FIVEHUNDREDTHREE Pat Loc: RADIOLOGY (Req'd Loc) Img Loc: MAIN FLOOR Service: Unknown</p> <p>(Case 53 WAITING ) CHEST-SINGLE VIEW (RAD Broad ) CPT: Reason for Study: TEST</p>	No Images Available

Figure 24 Radiology Report Details

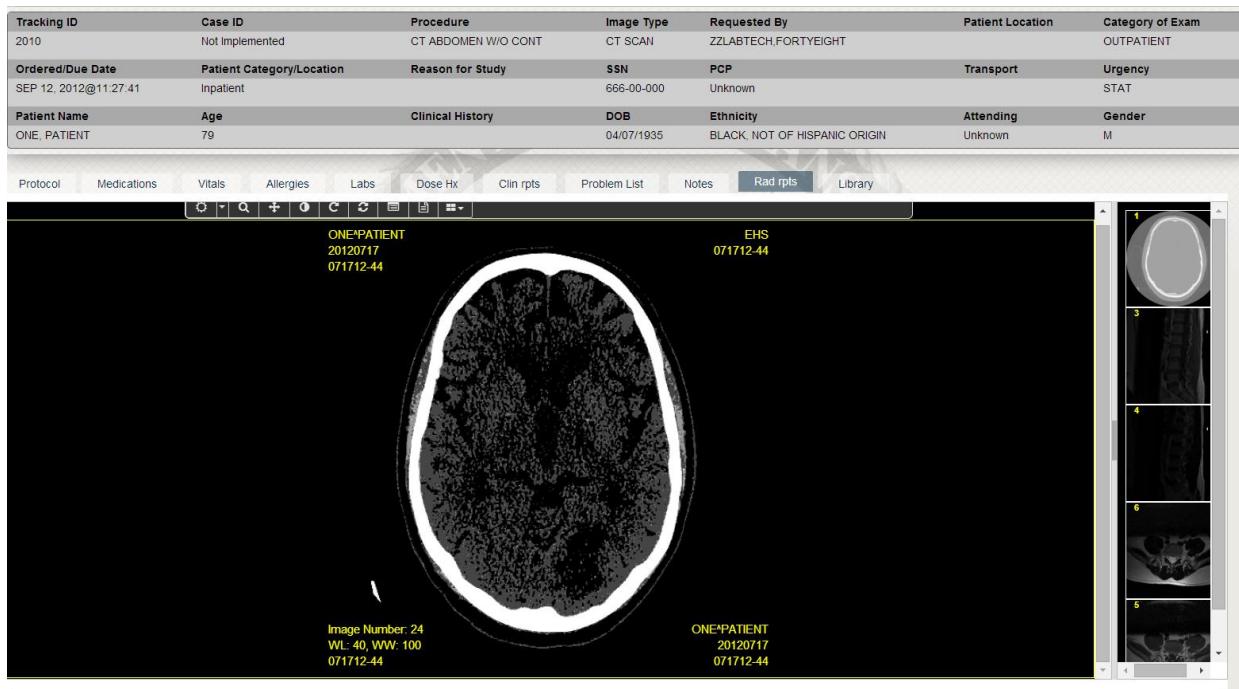


Figure 25 Radiology Report - X-ray Image

## Library Tab

The Library Tab provides a list and details of Radiology protocol procedure documentation in electronic format, which has been provided by the Radiology Department for reference when conducting the ordered study for the patient. This table can be sorted, searched and expanded by the user.

---

*NOTE: Each entry can be selected from the library. This selection is populated on the protocol page.*

---

## Sample

Below is a sample Library Tab.

ONEZEROONEONEONESEVEN, PATIENT												
Protocol	Medications	Vitals	Allergies	Labs	Rad Watch	Clin rpts	Problem List	Notes	Rad rpts	Library		
RPID159	8	select	CT HEAD-POSTERIOR FOSSA (3mm) with Contrast (axial) A	CT	None found	unknown	1. HEAD, NEURAL			• Ultravist 300		
RPID160	8	select	CT HEAD-POSTERIOR FOSSA (3mm) Non-Contrast (axial) B	CT	None found	yes	1. HEAD, NEURAL	• 500cc H2O over 2hr pre-scan + post-scan				
RPID22	8	select	CT HEAD Non-Contrast (axial)	CT	None found	yes	1. HEAD, NEURAL	• 500cc H2O over 2hr pre-scan + post-scan				

Figure 26 Library Tab - List and Links to Radiology Protocol Procedures

## Contraindication Alerts

Contraindication alerts are displayed once the patient is selected. Alerts are viewed on the Protocol page in the yellow frame at the top of the tab and at the bottom of the page under the **“CONTRAINDICATIONS REQUIRING ACKNOWLEDGEMENT”**.

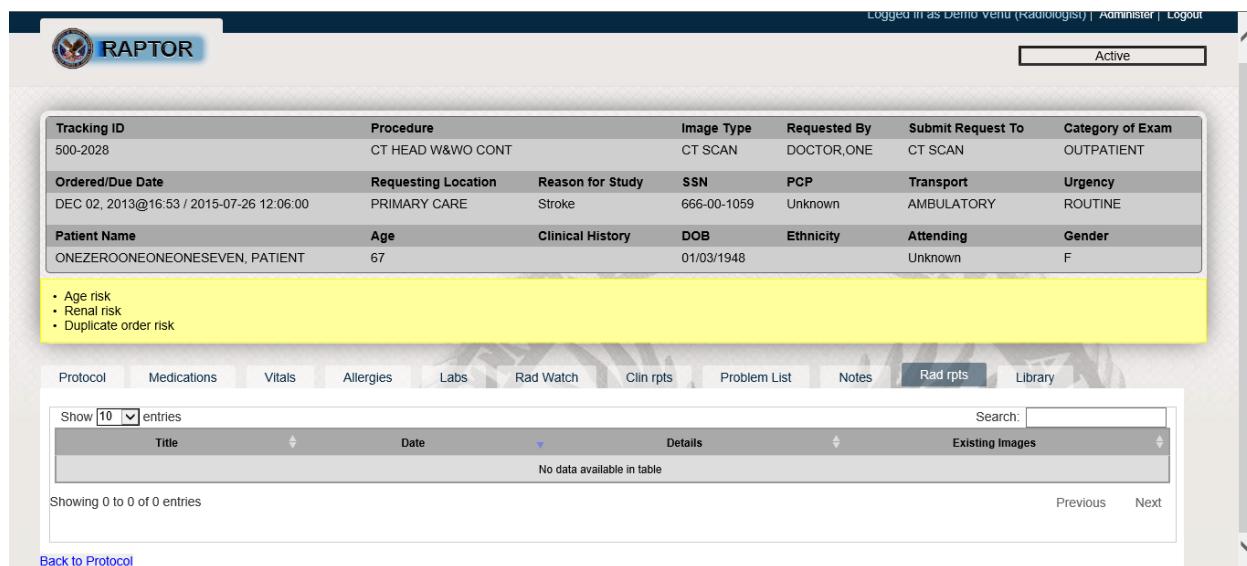
---

*NOTE: Users can view the Contraindications engine in the Admin area. Alerts must be acknowledged to move the workflow forward.*

---

## Sample

Below is a sample of Contraindication alerts, highlighted in the in yellow region of this screen.



The screenshot shows the RAPTOR software interface. At the top, there is a navigation bar with the RAPTOR logo, the user status 'Logged in as Demo Venu (Radiologist) | Administer | Logout', and a 'Active' button. Below the navigation bar is a table with patient and procedure details:

Tracking ID	Procedure	Image Type	Requested By	Submit Request To	Category of Exam	
500-2028	CT HEAD W&WO CONT	CT SCAN	DOCTOR,ONE	CT SCAN	OUTPATIENT	
Ordered/Due Date	Requesting Location	Reason for Study	SSN	PCP	Transport	Urgency
DEC 02, 2013@16:53 / 2015-07-26 12:06:00	PRIMARY CARE	Stroke	666-00-1059	Unknown	AMBULATORY	ROUTINE
Patient Name	Age	Clinical History	DOB	Ethnicity	Attending	Gender
ONEZEROONEONEONESEVEN, PATIENT	67		01/03/1948		Unknown	F

Below the table, a yellow box contains a bulleted list of risks:

- Age risk
- Renal risk
- Duplicate order risk

At the bottom of the interface, there are tabs for 'Protocol', 'Medications', 'Vitals', 'Allergies', 'Labs', 'Rad Watch', 'Clin rpts', 'Problem List', 'Notes', 'Rad rpts' (which is selected), and 'Library'. There is also a search bar and buttons for 'Previous' and 'Next'.

Figure 27 Contraindication Alerts

## Timer Warning

Timer Warnings will be displayed at the worklist to notify the user to confirm if they want to remain logged into the system before being automatically logged off.

---

*NOTE: The user can select addition time when the warning is displayed, "Yes, keep me signed in".*

---

## Sample

Below is a sample of a Timer Warning outlined in the red-lined box.

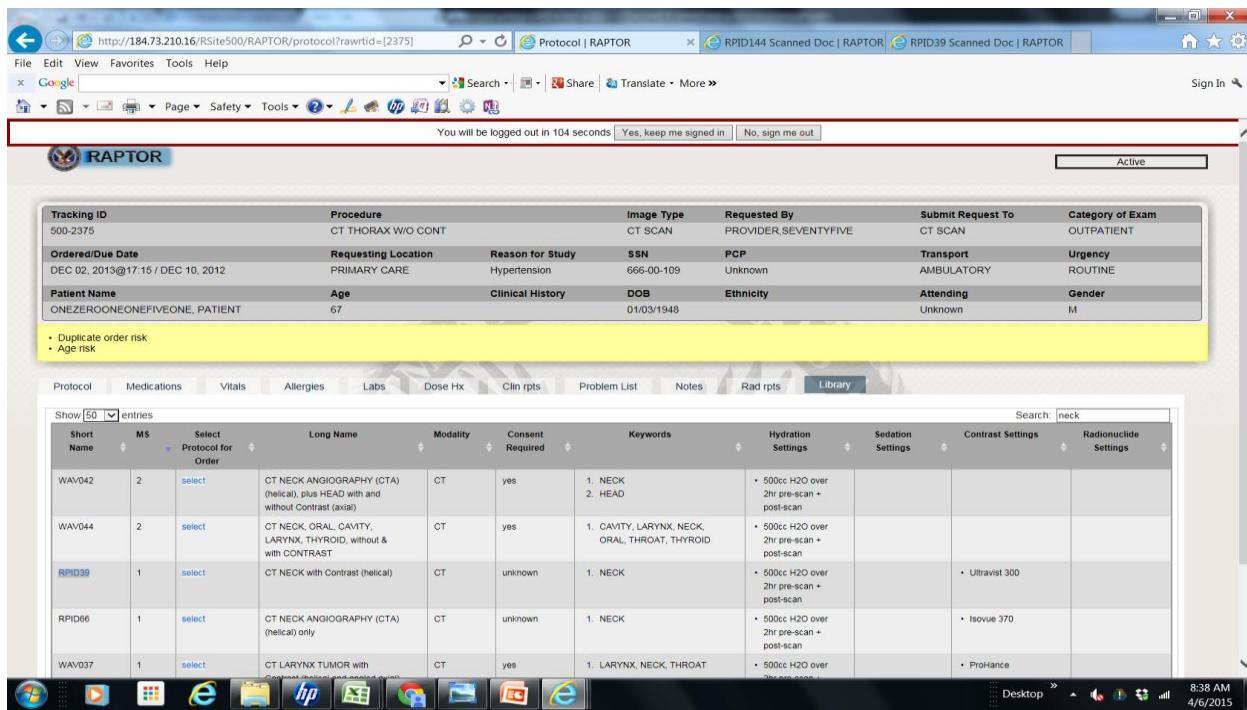


Figure 28 Timer Warning

## Collaboration Feature

The Collaboration feature can enable the user to request or recommend a peer-to-peer collaboration effort for the study in question.

---

*NOTE: Collaboration allows the ability to assign a protocol. The collaboration request note is required.*

---

## Sample

Below is a sample of a Collaboration request.

**Request Collaboration**

Total of 10 users are available for collaboration

Show 10 entries

Search: Radiologist

Name	Role	Modality Specialties	Anatomy Specialties	Phone	Email
Dr. Fresno Radiologist PhD	Radiologist	CT MR	BODY HEAD NM		
Dr. Innovations Radiologist	Radiologist	CT	HEAD		
Dr Portland Radiologist	Radiologist		CHEST MR		
Dr Tucson Radiologist PhD	Radiologist	CT IR MR US	CT THORAX		
Dr Seattle Radiologist	Radiologist	CT MR US	HEAD LEG THORAX	202-123-4567	radiologist@va.gov

Showing 1 to 5 of 5 entries (filtered from 10 total entries)

Previous 1 Next

**Collaboration Request Notes**

Request Collaboration with Selected RAPTOR User | Cancel

Figure 29 Collaboration Request

**Radiology Reports**

**ONEZEROONEONEONESEVEN, PATIENT**

**Title** **Date**

(see radiology detail )

2015-07-26 12:07:00 Scheduler (07/26/2015@12:06)

Assigned a suggested collaborator Wolff's law – increase in bone stress shifts balance to greater bone production due to microfractures.

2015-07-26 12:07:47 Collaboration request from Dr Seattle Radiologist

Needs Attention

**CONTRAINdicATIONS REQUIRING ACKNOWLEDGEMENT\***

Acknowledgement of Duplicate order risk

Please review potential duplicate studies in the worklist.

Acknowledgement of Age risk

Patient is over age 60

Approve | Collaborate | Release back to Worklist without Saving | Reserve (already assigned to Dr. Innovations Resident) | Replace Order | Cancel Order

Figure 30 Collaboration Request Status

## Ready for Examination Worklist Filter Mode

Once approved by a privileged user, the protocol is ready for examination.

*NOTE: Technologists are entered into Ready for Examination mode by default.*

## Interpretation Worklist Filter Mode

The Interpretation Worklist is populated by protocols that have been examined. The radiologists can review and make notes regarding the work and then create the RAPTOR notes.

---

*NOTE: RAPTOR creates two notes, the complete protocol workflow and the safety checklist note. This checklist can be used to respond to Joint Commission audits.*

---

## QA Worklist Filter Mode

The QA worklist can be used by the privileged users to note the quality of protocoling workflow.

---

*NOTE: The ability to manage the QA criteria is described in the Manage Lists, Edit QA Criteria section of the Users Manual.*

---

## Needs Cancel Replace Worklist Filter Mode

The needs cancel/Replace worklist can be used by the privileged user (in example, the OREMAS key) to display orders that need to be canceled.

---

*NOTE: Technologists are entered into Ready for Examination mode by default.*

---

Tracking ID	R\$	Patient	Date Desired	Date Ordered	Modality	Image Type	Study	Urgency	Patient Category / Location	Workflow Status	Assignment	#P Pass Box
2028		ONEZEROONEONESEVEN.PATIENT	JAN 12, 2012	DEC 02, 2013@16:53	CT	CT SCAN	CT HEAD W&WO CONT	ROUTINE	OUTPATIENT	Needs Cancel/Replace	13	Cancel requested 2015-09-30 08:33:00 See Notes...
2051		ONEZEROONEONEONETHREETWO.PATIENT	JAN 12, 2012	DEC 02, 2013@16:53	CT	CT SCAN	CT HEAD W&WO CONT	ROUTINE	OUTPATIENT	Needs Cancel/Replace	16	Unknown

Figure 31- Needs Cancel/Replace Worklist

## Revision History

When	Who	Description
August 2015	SAN	Initial draft.
September 2015	SAN	Updated draft.