



Radiology/Nuclear Medicine Release Notes

Patch RA*5.0*99

January 2010

Department of Veterans Affairs
Health Systems Design & Development
Provider Systems

Release Notes for Patch RA*5*99

Patch RA*5*99 implements two enhancements within the VistA Radiology/Nuclear Medicine application for the Summary Verification Timeliness Report and the Pregnancy Status.

Note: Refer to the Patch Description for installation instructions and background information about these two enhancements; refer to the updated Radiology/Nuclear Medicine 5.0 User Manual for new user instructions and examples related to this patch.

I. Summary Verification Timeliness Report

The Summary Verification Timeliness Report enhancement resulted in several changes.

- Adds a new menu option on the Management Reports Menu: **Radiology Timeliness Performance Report**.
- Adds another report to the automated monthly “Radiology Summary Verification Timeliness” Outlook email: the **Summary Radiology Outpatient Procedure Wait Time Report**.
 - Changes the reporting period from monthly to quarterly.
 - Adds two new performance summary values.
 - Inserts a 14 day reporting interval to the **Summary Radiology Outpatient Procedure Wait Time Report** so that facilities can track their performance to a 14 day performance standard rather than a 30 day standard if they choose to do so.

The **Timeliness Reports Option [RA TIMELINESS MENU]** option is modified as follows (shown with upper menus):

- a. The ‘**Outpatient Procedure Wait Time**’ option [**RA TIMELINESS OUTPATIENT MENU**], on the ‘Summary/Detail report’ sub-option, the Detail report now has a 92 day MAX reporting parameter, replacing the 31 day MAX reporting parameter.
- b. Two sub-options on the ‘Verification Timeliness’ option [**RA TIMELINESS VER MENU**] are moved to a new option, Radiology Timeliness Performance Reports option:
 - i. ‘Enter/Edit OUTLOOK mail group’
 - ii. ‘Run Previous Quarter’s Summary Report’ – changes are:
 1. All references to “OQP Performance Management” are removed.
 2. The word **Month** is replaced with **Quarter**.
 3. The report request queued is changed from “Radiology Verification Timeliness Report” to **Radiology Timeliness Performance Reports**.
 - iii. The ‘**Verification Timeliness**’ option now only has one sub-option, ‘Summary/Detail report.’ The Detail report now has a 92 day MAX reporting parameter, replacing the 31 day MAX reporting parameter.

- c. The new ‘**Radiology Timeliness Performance Reports**’ option has two sub-options:

Radiology Timeliness Performance Reports	←New Option
[RA TIMELINESS PERFORMANCE MENU]	
Enter/Edit OUTLOOK mail group	←Moved from ‘Verification Timeliness’ option
Run Previous Quarter's Summary Report	←Moved from ‘Verification Timeliness’ option

The Radiology Timeliness Performance Reports Outlook Message is modified.

- a. The Outlook email message is no longer automatically generated each month.
- The report will be generated each quarter, reporting quarterly data.
 - The report will run in the first month following the quarter-end, on or prior to the 15th (the job run-date/time is configurable by each site).

Month that Outlook email is generated	Report data range (Quarter)
On or before January 15 th	October, November, December
On or before April 15 th	January, February, March
On or before July 15 th	April, May, June
On or before October 15 th	July, August, September

- a. The subject is changed from “Radiology Summary Verification Timeliness“ to “Radiology Timeliness Performance Reports.”
- b. Two new performance summary values display:
- i. The first performance value summary, the “Report verification timeliness performance value,” is a single calculated value. Calculation: [% Vr Column 1 + % Vr Column 2].
 - ii. The second performance value summary, “Wait Time Performance Values,” is a table, and is separated by Procedure Types. It lists the percentage values for each procedure type. Calculation: print the “DAYS WAIT – PERCENTAGES” partial table from the “Summary Radiology Outpatient Procedure Wait Time” report. Include the headers, procedure type labels, and percentage values with the decimal point to the tenth place (.0) from the ‘<=14 Days’ and ‘<=30 Days’ columns.
- c. An example of the new Outlook email follows. Changes are indicated by a bar to the right of the text.

Gates, Shelly

From: GATES.SHELLYA@WASHINGTON.MED.VA.GOV
[mailto: GATES.SHELLY@WASHINGTON.MED.VA.GOV](mailto:GATES.SHELLY@WASHINGTON.MED.VA.GOV)
Sent: Thursday, June 26, 2009 10:45 AM
To: VHA Radiology Reports; VISN5RadiologyReports@MED.VA.GOV
Subject: Radiology Timeliness Performance Reports

Facility: SUPPORT ISC Station: 688 VISN: VISN 5
Division: HINESTEST, SUPPORT ISC
Exam Date Range: 1/1/09-3/31/09
Run Date/Time: 6/26/09 10:47 am

PERFORMANCE VALUE SUMMARY

15.4% - Report verification timeliness performance value

Wait Time performance values:

%	%	
<=14	<=30	PROCEDURE
Days	Days	TYPE
0.0	0.0	CARDIAC STRESS TEST
100.0	0.0	COMPUTED TOMOGRAPHY
100.0	0.0	GENERAL RADIOLOGY
100.0	0.0	INTERVENTIONAL PROCEDURE
0.0	0.0	MAGNETIC RESONANCE IMAGING
100.0	0.0	MAMMOGRAPHY
0.0	0.0	NUCLEAR MEDICINE
100.0	0.0	OTHER
0.0	0.0	ULTRASOUND
0.0	0.0	"unknown"

Summary Verification Timeliness Report

Page: 1

Facility: SUPPORT ISC Station: 499 VISN: 12
Division: HINESTEST, SUPPORT ISC
Exam Date Range: 1/1/09-3/31/09

Run Date/Time: 6/26/09 10:47 am

Total number of reports expected for procedures performed during specified date range: 117

Hrs	>0	>24	>48	>72	>96	>120	>144	>168	>192	>216	>240	PENDING
From	-24	-48	-72	-96	-120	-144	-168	-192	-216	-240	Hrs	
Ex Dt	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs		
#Tr	20	3	0	0	2	1	1	0	1	0	2	87
%Tr	17.1	2.6	0.0	0.0	1.7	0.9	0.9	0.0	0.9	0.0	1.7	74.4

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#Vr   17      1      1      0      0      1      0      0      0      0      1      96
%Vr  14.5    0.9    0.9    0.0    0.0    0.9    0.0    0.0    0.0    0.0    0.9    82.1

```

* Columns represent # of hours elapsed from exam date/time through date/time report entered or date/time report was verified.
e.g. ">0-24 Hrs" column represents those exams that had a report transcribed and/or verified within 0-24 hours from the exam date/time.

* Columns following the initial elapsed time column (0-24 Hrs) begin at .0001 after the starting hour (e.g. ">24-48 Hrs" = starts at 24.001 through the 48th hour.)

* PENDING means there's no data for DATE REPORT ENTERED or VERIFIED DATE. So, if the expected report is missing one of these fields, or is missing data for fields .01 through 17 from file #74, RAD/NUC MED REPORTS, or is a Stub Report that was entered by the Imaging package when images were captured before a report was entered, then the expected report would be counted in the PENDING column.

* A printset, i.e., a set of multiple exams that share the same report, will be expected to have 1 report.

* Cancelled and "No Credit" cases are excluded from this report.

Summary Radiology Outpatient Procedure Wait Time Report Page: 1

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Facility: HINES DEVELOPMENT          Station: 499      VISN: 12
Division(s): HINESTEST, SUPPORT ISC
Exam Date Range: 1/1/09-3/31/09
PROCEDURE TYPES: All, except RADIATION THERAPY
Run Date/Time: 6/26/09 10:47 am

```

Total number of procedures registered during specified exam date range: 27

DAYS WAIT -- PERCENTAGES

PROCEDURE TYPE	<=14 Days	<=30 Days	31-60 Days	61-90 Days	91-120 Days	>120 Days
CARDIAC STRESS TEST	0.0	0.0	0.0	0.0	0.0	0.0
COMPUTED TOMOGRAPHY	100.0	0.0	0.0	0.0	0.0	0.0
GENERAL RADIOLOGY	100.0	0.0	0.0	0.0	0.0	0.0
INTERVENTIONAL PROCEDURE	100.0	0.0	0.0	0.0	0.0	0.0
MAGNETIC RESONANCE IMAGING	0.0	0.0	0.0	0.0	0.0	0.0
MAMMOGRAPHY	100.0	0.0	0.0	0.0	0.0	0.0
NUCLEAR MEDICINE	0.0	0.0	0.0	0.0	0.0	0.0
OTHER	100.0	0.0	0.0	0.0	0.0	0.0
ULTRASOUND	0.0	0.0	0.0	0.0	0.0	0.0

DAYS WAIT -- COUNTS

PROCEDURE TYPE	<=14 Days	<=30 Days	31-60 Days	61-90 Days	91-120 Days	>120 Days	ROW TOTAL
CARDIAC STRESS TEST	0	0	0	0	0	0	0
COMPUTED TOMOGRAPHY	1	0	0	0	0	0	1
GENERAL RADIOLOGY	20	0	0	0	0	0	20

INTERVENTIONAL PROCEDURE	3	0	0	0	0	0	3	0
MAGNETIC RESONANCE IMAGING	0	0	0	0	0	0	0	-
MAMMOGRAPHY	2	0	0	0	0	0	2	0
NUCLEAR MEDICINE	0	0	0	0	0	0	0	-
OTHER	1	0	0	0	0	0	1	0
ULTRASOUND	0	0	0	0	0	0	0	-

The "<=14 Days" column contains data that is also in the "<=30 Days" column. The reason that performance is calculated for both <=14 days and <=30 days is so that facilities can track their performance to a 14 day performance standard rather than a 30 day standard if they choose to do so.

Number of procedures cancelled and re-ordered on the same day = 0

(There are 2 cases with negative days wait included in the first column.)

1. Cancelled, "No Credit", inpatient cases, and not the highest modality of a printset are excluded from this report. (See 3. below.)

2. Columns represent # of days wait from the Registered date (the date/time entered at the "Imaging Exam Date/Time:" prompt) backwards to the Date Desired for the ordered procedure. The calculation is based on the number of different days and not rounded off by hours. The "31-60" column represents those orders that were registered 31 days or more but less than 61 days after the Date Desired.

3. If the user did not select a specific CPT Code or Procedure Name, then the cases from a printset (group of cases that share the same report) will have only the case with the highest modality printed. The modalities have this hierarchical order, where (1) is the highest: 1) Interventional, (2) MRI, (3) CT, (4) Cardiac Stress test, (5) Nuc Med, (6) US, (7) Mammo, (8) General Rad (9) Other

4. "Procedure Types" are assigned by a national CPT code look-up table and may differ from locally defined "Imaging Types." Therefore the number of procedures in each category may not be the same as other radiology management reports.

5. "Avg. Days" is the average days wait. It is calculated from the sum of the days wait for that Procedure Type, divided by the count of cases included in this report for that Procedure Type. Negative days wait is counted as 0. A "-" means an average cannot be calculated.

II. Pregnancy Status

The Pregnancy Status enhancement resulted in a few modifications.

- For a female patient between 12 and 55 years of age, two new pregnancy screen fields capture, store, and are available to external systems **at the time of the exam**.
- Makes minor label changes.
- Fixes a defect reported in a Remedy ticket.
 - a. The two new pregnancy fields are added and/or have label changes to the following options (shown with upper menus):

Exam Entry/Edit menu [RA EXAMEDIT]

- Add Exams to Last Visit [RA ADDEXAM]
- Case No. Exam Edit [RA EDITCN]
- Edit Exam by Patient [RA EDITPT]
- Register Patient for Exams [RA REG]
- Status Tracking of Exams [RA STATRACK]
- View Exam by Case No. [RA VIEWCN]

Management Reports Menu [RA MGTRPTS]

- Complication Report (off of the Daily Management Reports option) [RA COMPLICATION]
- Patient Profile menu [RA PROFILES]
- Detailed Request Display [RA ORDERDISPLAY]
- Exam Profile (selected sort) [RA PROFSORT]
- Profile of Rad/Nuc Med Exams [RA PROFQUICK]

Radiology/Nuclear Med Order Entry menu [RA ORDER]

- Detailed Request Display [RA ORDERDISPLAY]
- Print Rad/Nuc Med Requests by Date [RA ORDERPRINTS]
- Print Selected Requests by Patient [RA ORDERPRINTPAT]
- Request an Exam [RA ORDEREXAM]

Films Reporting menu [RA RPT]

- Display a Rad/Nuc Med Report [RA RPTDISP]
- Draft Report (Reprint) [RA REPRINT]
- Report to Print by Patient [RA RPTPAT]
- On-line Verifying of Reports [RA RPTONLINEVERIFY]
- Outside Report Entry/Edit [RA OUTSIDE RPTENTRY]
- Report Entry/Edit [RA RPTENTRY]
- Resident On-Line Pre-Verification [RA RESIDENT PRE-VERIFY]

The two new pregnancy screen field prompts are:

- a. **Pregnancy Screen** – responses are Yes, No, and Unknown.
- b. **Pregnancy Screen Comment** – free text field, up to 240 characters. This field will display only if the response to the **Pregnancy Screen** field is Yes or Unknown.

The prompts are added in order to capture the pregnancy status of a female patient between the ages of 12 and 55 **at the time of the exam** rather than at the time the order is placed.

- The new prompts are **editable** in the ‘Register Patient for Exams,’ ‘Case No. Exam Edit,’ and ‘Edit Exam by Patient’ options only.
- These two fields are display-only in other options and reports.

Editing the ‘Pregnancy Screen Comment’ Prompt

- The ‘Pregnancy Screen Comment’ field is a required field, so the “@” command will not work. The workaround for this is to replace the entire comment with a new comment.
- If there are multiple occurrences of the word that you are replacing, only the first occurrence is replaced.
- The text is case-sensitive, so you must use the exact same case when entering the new text, in order for the replacement to take place.

Note: For additional editing information, refer to the *Fileman Getting Started Manual*, sections: **Default Responses** and **Longer Default Responses and the ‘Replace...With’ Editor**

<http://www.va.gov/vdl/application.asp?appid=5>

How to replace a comment that is 20 characters or less

Enter the replacement text after the double slashes (//). For example, at the ‘Pregnancy Screen Comment’ prompt:

PREGNANCY SCREEN COMMENT: The patient had// ← **Enter the replacement text here**

How to replace single and multiple words/line

- At the ‘Replace’ prompt, enter the one word or multiple words/line you want to replace and press **Enter**.

At the ‘With’ prompt, enter a new word or multiple words /line and press **Enter**. The ‘Replace’ prompt displays again.

To keep the word or multiple words /line just entered, press **Enter**.

To replace this word or these multiple words /line just entered, repeat steps 1 and 2 until all of the words/line are replaced.

At the ‘Replace’ prompt, press **Enter**.

The updated comment displays and the system advances to the next prompt.

How to replace an entire comment

- At the ‘Replace’ prompt, enter 3 periods (...) and press **Enter**. The ‘With’ prompt displays.

- At the ‘With’ prompt, enter a new comment and press **Enter**. The ‘Replace’ prompt displays again.

To keep the comment just entered, press **Enter**.

To replace this comment just entered, enter another comment, and press **Enter**.

- At the ‘Replace’ prompt, press **Enter**.

The updated comment displays and the system advances to the next prompt.

- c. The existing **Pregnant** field label is replaced with **Pregnant At Time Of Order Entry** in several options and reports.
 - No functionality is changed.
 - This field reflects the pregnancy status for a female patient between 12 and 55 years old at the **time the order was placed**.

On the Complication Report (on the 'Daily Management Reports' option), the **Interpreting Stf.** field label is changed to **Staff Imaging Phys** for both instances.

The defect reported on the 'Request an Exam' option, Remedy ticket# HD0000000309290, is fixed.

- The issue: in order to populate the pregnancy status, you must edit the pregnancy status in the same session in which you entered the request.
- This is a defect because the **PREGNANT** prompt should display when initially entering the request (rather than going back and editing the request at the 'Do you want to change any of the above? NO//' prompt).

On the 'Display a Rad/Nuc Med Report' and 'Resident On-Line Pre-Verification' options (off of the 'Films Reporting' menu), the **Staff Phys** field label is changed to **Staff Imaging Phys**.

The following automated emails are updated with the **Pregnancy Screen** and **Pregnancy Screen Comment** fields:

- a. The VistA email report when a user verifies a report.
- b. The VistA/CPRS alert when an image contains abnormal results.

In CPRS, Detailed Report on the Reports tab is updated with the **Pregnancy Screen** and **Pregnancy Screen Comment** fields.