Radiology/Nuclear Medicine
Release Notes

Patch RA*5.0*56
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Department of Veterans Affairs
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Provider Systems

Release Notes for Patch RA*5.0*56

Patch RA*5.0*56 is the first of three phases of the Radiology Outside Reporting project. This patch addresses the New Service Request (NSR) 20040201. Dr. Steve Kastin requested the ability to integrate contracted outside radiology studies into VistA radiology workload, clinical reporting, ordering, and tracking.

Overview

Patch RA*5.0*56 allows an outside exam with an outside report to be completed without the need to verify the outside report. The outside report has a new report status of **Electronically Filed** and can be edited later with regard to diagnostic codes.

A deleted report is no longer deleted from the database. Patch RA*5.0*56 allows a deleted report to be marked *deleted*, but remain in the database. The deleted report can be retrieved and re-linked to its associated case, as long as the case does not have another report added in the interim (between report deletion and restoration).

Patch RA*5.0*56 Features

Patch RA*5.0*56 provides two new report statuses, **Electronically Filed** and **Deleted**, and two new options: 'Outside Report Entry/Edit' [RA OUTSIDE RPTENTRY] and 'Restore a Deleted Report' [RA RESTORE REPORT]. Also, the 'Delete a Report' [RA DELETERPT] option is modified.

'Outside Report Entry/Edit' [RA OUTSIDE RPTENTRY]

In the Films Reporting Menu, the 'Outside Report Entry/Edit' option allows you to enter a canned report to record the receipt of a report that was interpreted outside your facility without the need to verify the report in order for the exam status of the case to reach 'COMPLETE.' This option prompts for 'Standard' Report to Copy, Reported Date, Report Text, Impression Text, and Diagnostic Codes. It automatically assigns an Electronically Filed (EF) report status to the report, if a canned report was selected, and/or report text and/or impression text was entered via this option. Except for the Diagnostic Code, this option ignores all other site-required items for the exam status of 'COMPLETE,' including verifying physician and verified date.

If diagnostic codes are not required for the exam status of 'COMPLETE,' this option automatically sets the exam status to 'COMPLETE'; otherwise, it automatically sets the exam status to 'COMPLETE' when a diagnostic code is entered later via this option. The requirement for diagnostic code is set via the 'Examination Status Entry/Edit' [RA EXAMSTATUS] option.

This option also allows you to enter diagnostic codes even after the case has reached the 'COMPLETE' exam status. Each time this option is used to change or add new diagnostic codes, the added or changed codes are rechecked to see if alerts should be generated. Alerts are not generated again for existing, unchanged diagnostic codes that previously triggered the generation

of alerts. The generation of alerts is based upon the value of "GENERATE ABNORMAL ALERT?" in the DIAGNOSTIC CODES file (#78.3), which is updated via the 'Diagnostic Code Enter/Edit' [RA DIAGEDIT] option. If an alert is generated, its notification appears as follows on the VistA roll-n-scroll screen:

```
RADPATIENT,ONE (R4558): Abnormal Imaging Results: CHEST 2 VIEWS PA&LAT
         Enter  "VA to jump to VIEW ALERTS option
```

A study performed and interpreted outside must be registered under a "No Credit" imaging location. If it is not, when you use this option, a warning message displays, but you can continue to enter data, provided it is an acceptable business rule in your department. (The following example shows the warning message.)

Example 1
Enter a new outside report for a case that is registered from a credit location. A warning message displays regarding the credit method.

```
Select Films Reporting Menu Option: OUTSIDE Report Entry/Edit


    +-------------------------------------------------------+
    |                                                       |
    |   This option is for entering canned text for         |
    |   outside work:  interpreted report done outside,     |
    |   and images made outside this facility.              |
    |                                                       |
    +-------------------------------------------------------+


Select Rad/Nuc Med Division: All//

Another one (Select/De-Select):

Select Imaging Type: All//

Another one (Select/De-Select):

Enter Case Number: RADPATIENT,ONE
  RADPATIENT,ONE         6-1-27    000000000


                    **** Case Lookup by Patient ****

Patient's Name: RADPATIENT,ONE  000-00-0000          Run Date: MAR  5,2008

    Case No.  Procedure                  Exam Date  Status of Report  Imaging Loc
    --------  ------------               ---------  ----------------  -----------
1     2794    CHEST 2 VIEWS PA&LAT       03/05/08                     RADIOLOGY L
2     2612    SPINE ENTIRE AP&LAT        02/13/08   ELECTRONICALLY F  RADIOLOGY L
3     2610    ELBOW 2 VIEWS              02/13/08   DRAFT             X-RAY CLINI
4     2608    HAND 1 OR 2 VIEWS          02/13/08   ELECTRONICALLY F  X-RAY CLINI
5    +2552    ABDOMEN 1 VIEW             01/31/08   DRAFT             X-RAY CLINI
6    .2553    ABDOMEN 2 VIEWS            01/31/08   DRAFT             X-RAY CLINI
7    .2554    ABDOMEN 3 OR MORE VIEWS    01/31/08   DRAFT             X-RAY CLINI
8     2551    MANDIBLE LESS THAN 4 VIEWS 01/31/08   DRAFT             X-RAY CLINI
9     2498    CLAVICLE                   12/19/07    (Exam Dc'd)      RADIOLOGY L
10    2152    FOOT 2 VIEWS               09/08/06   VERIFIED          X-RAY CLINI
11    2153    CLAVICLE                   09/08/06   ELECTRONICALLY F  X-RAY CLINI
```

```
12    2122   HIP 1 VIEW                07/07/06              RADIOLOGY L
Type a '^' to STOP, or
CHOOSE FROM 1-12: 1
--------------------------------------------------------------------------------
 Name     : RADPATIENT,ONE          Pt ID      : 000-00-0000
 Case No. : 2794   Exm. St: WAITING FOR  Procedure   : CHEST 2 VIEWS PA&LAT
 Tech.Comment: This is the tech comment entered during registration.
 Exam Date: MAR  5,2008  10:29        Technologist:
                                      Req Phys   : RADPROVIDER,ONE
--------------------------------------------------------------------------------
```

   This option is for Outside work (imaged and read), so the case should ⌐¦ Warning
   be 'No Credit', but this case has a credit method of 'Regular Credit' _¦ Message

Do you want to continue? NO// **YES**
   ...report not entered for this exam...
         ...will now initialize report entry...
```
--------------------------------------------------------------------------------
Select 'Standard' Report to Copy:
REPORTED DATE: T  (MAR 05, 2008)
CLINICAL HISTORY:
This is the clinical history entered during Request an Exam.

     +++++++++++++++++++++++++++++++++++++++++++++++++++
        Required:  REPORT TEXT and/or IMPRESSION TEXT
     +++++++++++++++++++++++++++++++++++++++++++++++++++
REPORT TEXT:
  No existing text
  Edit? NO//


IMPRESSION TEXT:
  No existing text
  Edit? NO//


     +++++++++++++++++++++++++++++++++++++++++++++++++++
        Required:  REPORT TEXT and/or IMPRESSION TEXT
     +++++++++++++++++++++++++++++++++++++++++++++++++++
REPORT TEXT:                    ⌐¦ If nothing is entered for REPORT TEXT and IMPRESSION
                                 ¦ TEXT, the option loops back to ask for both, until data is
  No existing text               ¦
                                 ¦ is entered for at least one of them.
  Edit? NO// YES                _¦
```

```
==[ WRAP ]==[ INSERT ]=============< REPORT TEXT >===========[ <PF1>H=Help ]====

This is the report text.

<=======T=======T=======T=======T=======T=======T=======T=======T=======T>======

IMPRESSION TEXT:
  No existing text
  Edit? NO//
 PRIMARY DIAGNOSTIC CODE: NORMAL
   Select SECONDARY DIAGNOSTIC CODE: 9  NO DISCRETE MASS
   Select SECONDARY DIAGNOSTIC CODE:
Report status is stored as "Electronically Filed".

   ...will now designate exam status as 'COMPLETE'... for case no. 2794
         ...exam status successfully updated.
   ...will now designate request status as 'COMPLETE'...
```

```
        Visit credited.

           ...request status successfully updated.
```

Results

- Both exam status and request status are updated to 'COMPLETE.'
- Normally, if an outside report is entered for an exam that was registered from a "No Credit" imaging location, the "Visit credited" would not appear.
- There is no alert for "Imaging Results," as would be automatically generated for Verified Reports.
- There is no Abnormal alert because the diagnostic codes here do not require alerts.
- The 'Outside Report Entry/Edit' option does not recognize the case number once the case reaches 'COMPLETE,' because the case is no longer active. You must enter the **patient name** or **Last initial and Last 4 SSN** at the Enter Case Number prompt to display a list of patient cases from which to select. This general feature is also seen from the 'View Exam by Case No.' option.

Example 1 continued

```
Select Films Reporting Menu Option:  Outside Report Entry/Edit
   +-------------------------------------------------------+
   |                                                       |
   |  This option is for entering canned text for          |
   |  outside work:  interpreted report done outside,      |
   |  and images made outside this facility.               |
   |                                                       |
   +-------------------------------------------------------+


Select Rad/Nuc Med Division: All//

Another one (Select/De-Select):


Select Imaging Type: All//

Another one (Select/De-Select):

Enter Case Number: 2794          The completed case is no longer active.
  No matches found!              So, the case cannot be found by case number.
```

Example 2
Use the same option on an existing outside report, but do not change any data.

```
Select Films Reporting Menu Option: OUTSIDE Report Entry/Edit
...

CHOOSE FROM 1-12: 1
---------------------------------------------------------------------------
 Name    : RADPATIENT,ONE             Pt ID     : 000-00-0000
 Case No. : 2794  Exm. St: COMPLETE     Procedure   : CHEST 2 VIEWS PA&LAT
 Tech.Comment: This is the tech comment entered during registration.
```

```
     Exam Date: MAR  5,2008  10:29          Technologist:
                                             Req Phys    : RADPROVIDER,ONE
     --------------------------------------------------------------------------------
     Select 'Standard' Report to Copy:
     REPORTED DATE: MAR 5,2008//
     CLINICAL HISTORY:
     This is the clinical history entered during Request an Exam.


          ++++++++++++++++++++++++++++++++++++++++++++++++++
            Required:  REPORT TEXT and/or IMPRESSION TEXT
          ++++++++++++++++++++++++++++++++++++++++++++++++++


     REPORT TEXT:
     This is the report text.

        Edit? NO//
 IMPRESSION TEXT:
   No existing text
          Edit? NO//
     PRIMARY DIAGNOSTIC CODE: NORMAL//
       Select SECONDARY DIAGNOSTIC CODE: NO DISCRETE MASS
            //
         SECONDARY DIAGNOSTIC CODE: NO DISCRETE MASS//
       Select SECONDARY DIAGNOSTIC CODE:
     Report status is stored as "Electronically Filed".

     Do you wish to print this report? No//
```

Results

- There is no update of exam and request statuses, because this exam already reached the exam status of 'COMPLETE.'
- There is no alert because none of the diagnostic codes were changed.

Example 3
Change some diagnostic codes for a previously entered outside report.

```
     Select Films Reporting Menu Option:  Outside Report Entry/Edit
...

     CHOOSE FROM 1-12: 1
     --------------------------------------------------------------------------------
      Name     : RADPATIENT,ONE           Pt ID       : 000-00-0000
      Case No. : 2794  Exm. St: COMPLETE   Procedure   : CHEST 2 VIEWS PA&LAT
      Tech.Comment: This is the tech comment entered during registration.
      Exam Date: MAR  5,2008  10:29         Technologist:
                                            Req Phys    : RADPROVIDER,ONE
     --------------------------------------------------------------------------------
     Select 'Standard' Report to Copy:
     REPORTED DATE: MAR 5,2008//
     CLINICAL HISTORY:
     This is the clinical history entered during Request an Exam.

          ++++++++++++++++++++++++++++++++++++++++++++++++++
            Required:  REPORT TEXT and/or IMPRESSION TEXT
          ++++++++++++++++++++++++++++++++++++++++++++++++++
```

```
          REPORT TEXT:
          This is the report text.


             Edit? NO//
       IMPRESSION TEXT:
         No existing text
                 Edit? NO//
          PRIMARY DIAGNOSTIC CODE: NORMAL// 4  ABNORMALITY, ATTN. NEEDED
             Select SECONDARY DIAGNOSTIC CODE: NO DISCRETE MASS
                  // @
              SURE YOU WANT TO DELETE THE ENTIRE SECONDARY DIAGNOSTIC CODE? Y  (Yes)
             Select SECONDARY DIAGNOSTIC CODE:
          Report status is stored as "Electronically Filed".

          Do you wish to print this report? No//
          Enter Case Number:


                  Batch Reports Menu ...
                  Display a Rad/Nuc Med Report
                  Distribution Queue Menu ...
                  Draft Report (Reprint)
                  On-line Verifying of Reports
                  Outside Report Entry/Edit
                  Report Entry/Edit
                  Resident On-Line Pre-Verification
                  Select Report to Print by Patient
                  Switch Locations
                  Verify Report Only


          RADPATIENT,ONE (R4558): Abnormal Imaging Results: CHEST 2 VIEWS PA&LAT
                  Enter  "VA to jump to VIEW ALERTS option
```

Result

An Abnormal alert is generated because the primary diagnostic code was changed to one that requires the generation of an alert notification.

'Restore a Deleted Report' [RA RESTORE REPORT]

In the Supervisor Menu, the 'Restore a Deleted Report' option allows you to relink a previously deleted report to its associated case, only if another report was not linked to the case in the interim (time between deletion and restoration). The restored report is re-assigned the report status it had prior to being deleted; however, the status of the exam is not updated.

If a case had a report entered and deleted, then had a second report entered and deleted for it, the case would have two deleted reports in the database. This option allows you to choose any previously deleted report for a case, not just the most recently deleted report for that case. The other deleted report that was not selected for restoration remains as a deleted report in the database.

To view a list of deleted reports to select from this option, enter "??" at the "Select Deleted Report to restore:" prompt. After you select a deleted report, the first prompt displayed is:

```
          Do you want to restore this deleted report?  NO//
```

Before allowing you to restore a report, this option checks whether the case associated with this report has another report linked to it and whether the case has data for diagnostic codes, staff, and resident. If any such data are found, the option does not continue, but displays a warning message. For example:

```
        Case #123 is already associated with a report!

        Restoration was not done.
```

This message indicates that either another previously deleted report was restored to its associated case or a new report was entered for the case during the time between report deletion and attempted restoration.

```
        Case #461 already has SECONDARY DIAGNOSTIC CODE

        Restoration was not done.
```

This message indicates that the case associated with this report already has secondary diagnostic code data, which may or may not be associated with this report. The supervisor must determine if the correct deleted report was selected for restoration; and if so, must remove the secondary diagnostic code from the case before the deleted report can be restored. The 'Diagnostic Code and Interpreter Edit by Case No.' [RA DIAGCN] option can be used to remove the diagnostic code data.

If no problems are found, then the patient name and some case data are displayed. If the patient name and case data match the case for the deleted report you want to restore, then enter "YES" to the second prompt:

```
        Are you sure you want to link this report back to the case?  NO//
```

After a report is restored to its associated case, you can view statuses for previously deleted and restored activities from the Report Activity Log section of the 'View Exam by Case No.' option.

Example of restoring a report to one case
Restore a deleted report back to its case. This option relinks the report back to its associated case and repopulates the diagnostic code(s), staff, and resident data to the case.

```
        Select Supervisor Menu Option: RESTORE a Deleted Report

           +------------------------------------------------------+
           |                                                      |
           |     This option is for restoring a deleted report.   |
           |                                                      |
           +------------------------------------------------------+

        Select Deleted Report to restore: ??

           Choose from:
           013108-2551        RADPATIENT,ONE     MANDIBLE LESS THAN 4 VIEWS
           021308-2608        RADPATIENT,ONE     HAND 1 OR 2 VIEWS
```

```
    070706-2122        RADPATIENT,ONE    HIP 1 VIEW
    072304-1608        RADPATIENT,TWO    MANDIBLE LESS THAN 4 VIEWS
    072304-1609        RADPATIENT,TWO    FOOT 3 OR MORE VIEWS
    090806-2153        RADPATIENT,ONE    CLAVICLE

Select Deleted Report to restore: 013108-2551        RADPATIENT,ONE    MANDIBLE LESS THAN
        4 VIEWS


Do you want to restore this deleted report? NO//        YES
-------------------------------------------------------------------------------
 Name    : RADPATIENT,ONE            Pt ID      : 000-00-0000
 Case No. : 2551  Exm. St: WAITING FOR  Procedure   : MANDIBLE LESS THAN 4 VIEW
 Tech.Comment: This is the tech comment during registration
 Exam Date: JAN 31,2008  10:23        Technologist:
                                      Req Phys    : RADPROVIDER,ONE
-------------------------------------------------------------------------------
Are you sure you want to link this report back to the case? NO// YES

    ... Restored 013108-2551's report status to: DRAFT.
    ... Linked restored report to case no. 2551
    ... Restored case 2551's PRIMARY DIAGNOSTIC CODE to: NORMAL
    ... Restored case 2551's SECONDARY DIAGNOSTIC CODE to: UNDICTATED FILMS NOT RETURNED,
        3 DAYS
    ... Restored case 2551's SECONDARY DIAGNOSTIC CODE to: NO DISCRETE MASS
    ... Restored case 2551's PRIMARY INTERPRETING STAFF to: RADPRIMARYSTAFF,ONE
    ... Restored case 2551's SECONDARY INTERPRETING STAFF to: RADSECONDARYSTAFF,ONE
    ... Restored case 2551's PRIMARY INTERPRETING RESIDENT to: RADPRIMARYRESIDENT,ONE


    ** You need to edit the case to update the exam status. **

Press RETURN to exit.
```

Example of restoring a report to several cases that previously shared this report
Restore the deleted report back to its cases (printset). The option relinks the report back to its associated cases and repopulates the diagnostic code(s), staff, and resident data to each of the cases.

```
Select Supervisor Menu Option: RESTORE a Deleted Report


    +-------------------------------------------------------+
    |                                                       |
    |     This option is for restoring a deleted report.    |
    |                                                       |
    +-------------------------------------------------------+

Select Deleted Report to restore: ??

    Choose from:
    013108-2553        RADPATIENT,ONE  -2552,-2554   +ABDOMEN 2 VIEWS
    021308-2608        RADPATIENT,ONE    HAND 1 OR 2 VIEWS
    070706-2122        RADPATIENT,ONE    HIP 1 VIEW
    072304-1608        RADPATIENT,TWO    MANDIBLE LESS THAN 4 VIEWS
    072304-1609        RADPATIENT,TWO    FOOT 3 OR MORE VIEWS
    090806-2153        RADPATIENT,ONE    CLAVICLE

Select Deleted Report to restore: 013108-2553        RADPATIENT,ONE  -2552,-2554
    +ABDOMEN 2 VIEWS
```

```
          Do you want to restore this deleted report? NO// YES
          -------------------------------------------------------------------------------
           Name     : RADPATIENT,ONE                      Pt ID       : 000-00-0000
           Case No. : 2553  Exm. St: WAITING FOR          Procedure   : ABDOMEN 2 VIEWS
           Tech.Comment: unable enter def CPT mod GC, 50 (case 2552, Cmod KB)
           Case No. : 2552  Exm. St: WAITING FOR          Procedure   : ABDOMEN 1 VIEW
           Tech.Comment: tech comment during registration
           Case No. : 2554  Exm. St: WAITING FOR          Procedure   : ABDOMEN 3 OR MORE
                   VIEWS
           Exam Date: JAN 31,2008  10:24                  Technologist:
                                                          Req Phys    : RADPROVIDER,ONE

          -------------------------------------------------------------------------------
          Are you sure you want to link this report back to the cases? NO// YES

             ... Restored 013108-2553's report status to: DRAFT.
             ... Linked restored report to case no. 2552
             ... Linked restored report to case no. 2553
             ... Linked restored report to case no. 2554
             ... Restored case 2552's PRIMARY DIAGNOSTIC CODE to: MINOR ABNORMALITY
             ... Restored case 2552's SECONDARY DIAGNOSTIC CODE to: NO DISCRETE MASS
             ... Restored case 2552's SECONDARY DIAGNOSTIC CODE to: UNDICTATED FILMS NOT RETURNED,
                   3 DAYS
             ... Restored case 2553's PRIMARY DIAGNOSTIC CODE to: MINOR ABNORMALITY
             ... Restored case 2553's SECONDARY DIAGNOSTIC CODE to: NO DISCRETE MASS
             ... Restored case 2553's SECONDARY DIAGNOSTIC CODE to: UNDICTATED FILMS NOT RETURNED,
                   3 DAYS
             ... Restored case 2554's PRIMARY DIAGNOSTIC CODE to: MINOR ABNORMALITY
             ... Restored case 2554's SECONDARY DIAGNOSTIC CODE to: NO DISCRETE MASS
             ... Restored case 2554's SECONDARY DIAGNOSTIC CODE to: UNDICTATED FILMS NOT RETURNED,
                   3 DAYS
             ... Restored case 2552's PRIMARY INTERPRETING STAFF to: RADPRIMARYSTAFF,ONE
             ... Restored case 2552's SECONDARY INTERPRETING STAFF to: RADSECONDARYSTAFF,ONE
             ... Restored case 2552's SECONDARY INTERPRETING STAFF to: RADSECONDARYSTAFF,TWO
             ... Restored case 2553's PRIMARY INTERPRETING STAFF to: RADPRIMARYSTAFF,ONE
             ... Restored case 2553's SECONDARY INTERPRETING STAFF to: RADSECONDARYSTAFF,ONE
             ... Restored case 2553's SECONDARY INTERPRETING STAFF to: RADSECONDARYSTAFF,TWO
             ... Restored case 2554's PRIMARY INTERPRETING STAFF to: RADPRIMARYSTAFF,ONE
             ... Restored case 2554's SECONDARY INTERPRETING STAFF to: RADSECONDARYSTAFF,ONE
             ... Restored case 2554's SECONDARY INTERPRETING STAFF to: RADSECONDARYSTAFF,TWO
             ... Restored case 2552's PRIMARY INTERPRETING RESIDENT to: RADPRIMARYRESIDENT,ONE
             ... Restored case 2553's PRIMARY INTERPRETING RESIDENT to: RADPRIMARYRESIDENT,ONE
             ... Restored case 2554's PRIMARY INTERPRETING RESIDENT to: RADPRIMARYRESIDENT,ONE


              ** You need to edit the cases to update the exam status. **

     Press RETURN to exit.
```

Modified 'Delete a Report' [RA DELETERPT] option

Prior to Patch RA*5*56, a deleted report is erased from the database. Patch RA*5*56 keeps the deleted report in the RAD/NUC MED REPORTS file (#74), but removes its association to an exam, so that it is no longer accessible via the Radiology application. The only way to view a deleted report is via VA Fileman.

Example

Delete a report shared by three cases (printset). The deletion session outwardly appears the same as before patch RA*5*56:

```
Select Supervisor Menu Option: DELETE A REPORT

Select Report Day-Case#: RADPATIENT,ONE  RADPATIENT,ONE      6-1-27    000000000
1   RADPATIENT,ONE  090806-2152   RADPATIENT,ONE   FOOT 2 VIEWS
2   RADPATIENT,ONE  090806-2153   RADPATIENT,ONE   CLAVICLE
3   RADPATIENT,ONE  013108-2551   RADPATIENT,ONE   MANDIBLE LESS THAN 4 VIEWS
4   RADPATIENT,ONE  013108-2553   RADPATIENT,ONE   +ABDOMEN 2 VIEWS
5   RADPATIENT,ONE  021308-2610   RADPATIENT,ONE   ELBOW 2 VIEWS
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 4  013108-2553   RADPATIENT,ONE   +ABDOMEN 2 VIEWS

Do you wish to delete this report? NO// Y
        ...report deletion complete.
     ...exam status remains 'WAITING FOR EXAM'.
     ...exam status remains 'WAITING FOR EXAM'.
     ...exam status remains 'WAITING FOR EXAM'.
```