**Radiology/Nuclear Medicine
Release Notes**

**Patch RA*5.0*70
March 2009**

Department of Veterans Affairs
Health Systems Design & Development
Provider Systems

Release Notes for Patch RA*5.0*70

Patch RA*5.0*70 supports the EVC R2 Project 112/SHAD - Southwest Asia Conditions. The implementation of EVC R2 at all sites is an emergency release with 24-hour compliance, scheduled for installation on March 28, 2009.

Overview

Patch RA*5.0*70 allows sites to collect and store the Project 112/Shipboard Hazard and Defense (SHAD) exposure information related to the medical care the sites provide, and to share that information with PCE. The patch also renames the Environmental Contaminants (EI) label to Southwest Asia Conditions (SWAC), while keeping internal values for EI the same.

> **Note:** Associated patches RA*5*57 and SD*5.3*441 must be installed before you install RA*5*70.

Patch RA*5.0*70 Features

Patch RA*5.0*70 provides new prompts and some reformatted screens/reports.

1. This patch adds two data dictionary fields.
   a. PRIMARY DX RELATED TO SHAD field (#100) of the RAD/NUC MED ORDERS file (#75.1)
   b. SECONDARY DX RELATED TO SHAD field (#9) of the RAD/NUC MED ORDERS subfile (#75.13)

2. This patch modifies two data dictionary fields.
   a. PRIMARY DX RELATED TO SWAC field (#95) of the RAD/NUC MED ORDERS file (#75.1)
   b. SECONDARY DX RELATED TO SWAC field (#5) of the RAD/NUC MED ORDERS subfile (#75.13)

3. New prompts are displayed in Radiology options that are used to place new orders: Add Exams to Last Visit [RA ADDEXAM], Register Patient for Exams [RA REG], and Request an Exam [RA ORDEREXAM].

Example of ordering a detailed procedure

User has the PROVIDER key. You can select diagnoses and associated clinical indicators from a previous order. The **SC** and **SHAD** indicators are displayed (if available), as well as the "Copy Diagnosis?" prompt.

```
Select Radiology/Nuclear Med Order Entry Menu Option: Request an Exam


Select PATIENT NAME:     RADPATIENT,ONE        8-12-50    000000001      YES
    SC VETERAN      FHCFLGJ
 Enrollment Priority: GROUP 2    Category: ENROLLED      End Date:


RADPATIENT,ONE  (000-00-0001)       SC VETERAN


   * * * Eligibility Information and Service Connected Conditions * * *


     Primary Eligibility: SC LESS THAN 50%
     A/O Exp.: NO      ION Rad.: NO       SWAC: NO          SHAD: NO


Patient Location: EMERGENCY ROOM
Person Requesting Order: RADPROVIDER,FOUR//        FR          OI&T STAFF


Case #    Last 5 Procedures/New Orders Exam Date   Status of Exam  Imaging Loc.
------    --------------------------- ---------   --------------  ------------
3    +    GASTRIC EMPTYING SCAN (SOLID JUL 17,2007 WAITING FOR    NUC MED DIV
4    .    ACUTE GI BLOOD LOSS IMAGING  JUL 17,2007 WAITING FOR    NUC MED DIV
5    .    CARDIAC BLOOD POOL IMAGING   JUL 17,2007 WAITING FOR    NUC MED DIV
          ABDOMEN 1 VIEW               JUL 14,2006 COMPLETE       RADIOLOGY DI
          CHEST 2 VIEWS PA&LAT                     Ord 7/17/07    RADIOLOGY DI
          SINUSES 3 OR MORE VIEWS                  Ord 7/17/07    RADIOLOGY DI


Press <RETURN> key to continue.
Copy a previous order's ICD codes and SC/EI values? NO// YES


#         Last Procedures/New Orders   Order Date   Imaging Loc.
------    --------------------------- ------------ ------------
1         ABDOMEN 1 VIEW               7/14/06      RADIOLOGY DI
2         CHEST 2 VIEWS PA&LAT         7/17/07      RADIOLOGY DI
3         SINUSES 3 OR MORE VIEWS      7/17/07      RADIOLOGY DI
4         GASTRIC EMPTYING STUDY       7/17/07      NUC MED DIV
Select Order # to copy:  1


Select one of the following imaging types:
   GENERAL RADIOLOGY
   NUCLEAR MEDICINE
   ULTRASOUND
   CT SCAN
   VASCULAR LAB


Select IMAGING TYPE: GENERAL RADIOLOGY
```

```
           COMMON RADIOLOGY/NUCLEAR MEDICINE PROCEDURES (GENERAL RADIOLOGY)
           ----------------------------------------------------------------
 1) ABDOMEN 1 VIEW                          8) HIP 2 OR MORE VIEWS
 2) ABDOMEN 2 + PA CHEST                    9) KNEE 3 VIEWS
 3) CHEST 2 VIEWS PA&LAT                   10) SHOULDER 2 OR MORE VIEWS
 4) CHEST SINGLE VIEW                      11) FOOT 3 OR MORE VIEWS
 5) SPINE CERVICAL MIN 2 VIEWS            12) UPPER GI W/O KUB
 6) SPINE LUMBOSACRAL MIN 2 VIEWS         13) COLON BARIUM ENEMA
 7) SINUSES 3 OR MORE VIEWS               14) DEXA SCAN
Select Procedure (1-14) or enter '?' for help: 10


Processing procedure: SHOULDER 2 OR MORE VIEWS

Select PROCEDURE MODIFIERS: LEFT

Select PROCEDURE MODIFIERS:

DATE DESIRED (Not guaranteed): T  (JUL 17, 2007)

REASON FOR STUDY: Followup
CLINICAL HISTORY FOR EXAM
  1>This is the clinical history
  2>
EDIT Option:

Primary Ordering ICD-9 Diagnosis: LEPTOSPIROS ICTEROHEM  100.0
     SC Related? YES                    SHAD Related? YES
Ordering ICD-9 Diagnosis: 100.0//    100.0   LEPTOSPIROS ICTEROHEM
         ...OK? Yes//   (Yes)

  Was treatment for a SC Condition? Yes//   YES
```
  Was treatment related to PROJ 112/SHAD? Yes//   **YES**
```

Secondary Ordering ICD-9 Diagnosis: RETICULOSARCOMA HEAD  200.01
     SC Related? NO                     SHAD Related? YES
Secondary Ordering ICD-9 Diagnosis: 200.01//   200.01   RETICULOSARCOMA HEAD (C/
C)
         ...OK? Yes//   (Yes)

  Was treatment for a SC Condition? NO//
```
  Was treatment related to PROJ 112/SHAD? Yes//   **YES**
```

Secondary Ordering ICD-9 Diagnosis:
-------------------------------------------------------------------------------
           Patient: RADPATIENT,ONE
         Procedure: SHOULDER 2 OR MORE VIEWS
   Proc. Modifiers: LEFT
          Category: OUTPATIENT                  Mode of Transport: AMBULATORY
      Desired Date: Jul 17, 2007           Isolation Procedures: NO
   Request Urgency: ROUTINE                 Scheduled for Pre-op: NO
  Request Location: EMERGENCY ROOM              Nature of order:  SVC CORRECTION
   Reason for Study: Followup

Primary Ordering ICD-9 Diagnosis: LEPTOSPIROS ICTEROHEM  100.0
```
     SC Related? YES   SHAD Related? **YES**
```

Secondary Ordering ICD-9 Diagnosis: RETICULOSARCOMA HEAD  200.01
```
     SC Related? NO   SHAD Related? **YES**
```

Clinical History:
```

```
This is the clinical history
--------------------------------------------------------------------------
Do you want to change any of the above? NO//


      ...request submitted to: RADIOLOGY DIV 442 OOS ID 105
```

4. This patch displays the new SHAD indicator (if available) and corrects a defect in the display
   of a comma (,) between two or more clinical indicators in these Radiology options: Print
   Rad/Nuc/ Med Requests by date [RA ORDERPRINTS], Print Selected Requests by Patient
   [RA ORDERPRINTPAT], and Detail Request Display [RA ORDERDISPLAY].
   The defect was reported in Remedy ticket #138200.

   **Example of where the new SHAD data is displayed in a request report and the proper
   display of a comma (,) for two or more clinical indicators**

```
Select Radiology/Nuclear Med Order Entry Menu Option: Detailed Request Display


Select PATIENT NAME: RADPATIENT,ONE            8-12-50    000000001
   YES     SC VETERAN     FHCFLGJ
 Enrollment Priority: GROUP 2   Category: ENROLLED      End Date:


Select Rad/Nuc Med Location: All//


Another one (Select/De-Select):


Imaging Location(s) included:    ADMISSIONS   BASE HOSPITAL
                                 CT SCAN DIV 442 OOS ID 150    DEXA
                                 INTERMEDIATE MEDICINE
                                 NUC MED DIV 442 OOS ID 109
                                 RADIOLOGY DIV 442 OOS ID 105
                                 ULTRASOUND DIV 442 OOS ID 115    Unknown
                                 VASCULAR LAB    ZZ2 MEDICINE    ZZOUTPATIENT NURSE
                                 ZZPT


Enter RETURN to continue or '^' to exit:


             **** Requested Exams for RADPATIENT,ONE ****  1  Requests
    St  Urgency  Procedure / (Img. Loc.)    Desired     Requester    Req'g Loc
    --  -------  ------------------------   ----------  -----------  -----------
 1  c   ROUTINE  ABDOMEN 1 VIEW             07/14/2006  RADPROVIDER  TELEPHONE R
                 (RADIOLOGY DIV 442 OOS I)


Select Request(s) 1-1 to Display or '^' to Exit:  Exit// 1


                     **** Detailed Display ****
Name: RADPATIENT,ONE         (000-00-0001)   Date of Birth: AUG 12,1950
--------------------------------------------------------------------------
Requested : ABDOMEN 1 VIEW                      (RAD Detailed 74000)


Current Status:       COMPLETE (c)
Requester:            RADPROVIDER,TWO
 Tel/Page/Dig Page: Unknown
Patient Location:     TELEPHONE RAD/NUC ME
Entered:              Jul 14, 2006 10:12 am  by RAPROVIDER,TWO
Desired Date:         Jul 14, 2006
Transport:            AMBULATORY
```

```
Ordering Diagnoses:
  100.0   LEPTOSPIROS ICTEROHEM
          Clinical Indicator(s):  SC,SHAD
  200.01  RETICULOSARCOMA HEAD
          Clinical Indicator(s):  SHAD
```

```
Clinical History:     TEST 2


Exam Status:          COMPLETE
Request Submitted to: RADIOLOGY DIV 442 OOS ID 105


Do you wish to display request status tracking log? NO// YES


                    *** Request Status Tracking Log ***
Date/Time           Status       User        Reason
----------------  -----------  -----------  -----------------------------------
07/14/06 10:12 AM PENDING      RADPROVIDER
07/14/06 10:13 AM ACTIVE       RADPROVIDER
07/14/06 10:16 AM COMPLETE     RADPROVIDER


Press return to continue or "^" to escape
```

5. This patch sets **Yes** as the default for the "Was treatment related to Combat Vet (Combat Related)?" prompt. If the provider copies a previous order's ordering diagnoses and clinical indicators, the default is still **Yes** for this prompt, even though its value from the previous order may be **No**.

    Note: This enhancement supports a VA Chief Business Office request that the care provided to combat veterans is related to their combat experience.

    Example of the "Yes" default for the Combat Vet indicator

```
Please select a sign-on Imaging Location: RADIOLOGY DIV 442 OOS ID 105//
                              (GENERAL RADIOLOGY-442)
Default Flash Card Printer: HOME//   TELNET TERMINAL


Default Jacket Label Printer: HOME//   TELNET TERMINAL


-------------------------------------------------------------------------------
Welcome, you are signed on with the following parameters:


                              Printer Defaults
 Version  : 5.0                ----------------
 Division : CHEYENNE VAMC      Flash Card  : None
 Location : RADIOLOGY DIV 442 OO             No cards
 Img. Type: GENERAL RADIOLOGY    Jacket Label: None
 User     : RADPROVIDER,ONE
                              Report      : B101  RADIOLOGY
-------------------------------------------------------------------------------


Select Rad/Nuc Med Total System Menu Option: RADiology/Nuclear Med Order Entry M
enu

        Cancel a Request
        Detailed Request Display
        Hold a Request
        Log of Scheduled Requests by Procedure
```

```
            Pending/Hold Rad/Nuc Med Request Log
            Print Rad/Nuc Med Requests by Date
            Print Selected Requests by Patient
            Rad/Nuc Med Procedure Information Look-Up
            Request an Exam
            Schedule a Request
            Ward/Clinic Scheduled Request Log


Select Radiology/Nuclear Med Order Entry Menu Option: REQuest an Exam

Select PATIENT NAME: RADPATIENT,ONE  RADPATIENT,ONE        7-7-71    000000000
YES    SC VETERAN
   Combat Vet Status: ELIGIBLE                              End Date: 12/31/2008

RADPATIENT,ONE  (000-00-0000)        SC VETERAN

   * * * Eligibility Information and Service Connected Conditions * * *

     Primary Eligibility:
     A/O Exp.: NO    ION Rad.: NO      SWAC: NO        SHAD: NO

Patient Location: DENVER-PAIN CLINIC
Person Requesting Order: RADPROVIDER,ONE//        OR        OI&T STAFF


Case #    Last 5 Procedures/New Orders Exam Date   Status of Exam  Imaging Loc.
------    --------------------------- ---------   --------------  ------------

     No registered exams filed for this patient.

Press <RETURN> key to continue.

Select one of the following imaging types:
   GENERAL RADIOLOGY
   NUCLEAR MEDICINE
   ULTRASOUND
   CT SCAN
   VASCULAR LAB

Select IMAGING TYPE: GENERAL RADIOLOGY

        COMMON RADIOLOGY/NUCLEAR MEDICINE PROCEDURES (GENERAL RADIOLOGY)
        ----------------------------------------------------------------
 1) ABDOMEN 1 VIEW                        8) HIP 2 OR MORE VIEWS
 2) ABDOMEN 2 + PA CHEST                  9) KNEE 3 VIEWS
 3) CHEST 2 VIEWS PA&LAT                  10) SHOULDER 2 OR MORE VIEWS
 4) CHEST SINGLE VIEW                     11) FOOT 3 OR MORE VIEWS
 5) SPINE CERVICAL MIN 2 VIEWS           12) UPPER GI W/O KUB
 6) SPINE LUMBOSACRAL MIN 2 VIEWS        13) COLON BARIUM ENEMA
 7) SINUSES 3 OR MORE VIEWS              14) DEXA SCAN
Select Procedure (1-14) or enter '?' for help: 10


Processing procedure: SHOULDER 2 OR MORE VIEWS
Select PROCEDURE MODIFIERS: LEFT
Select PROCEDURE MODIFIERS:
DATE DESIRED (Not guaranteed): T  (SEP 12, 2007)
REASON FOR STUDY: This is a test
```

```
CLINICAL HISTORY FOR EXAM
  1>This is the clinical history
  2>
EDIT Option:
Ordering ICD-9 Diagnosis: 719.41    JOINT PAIN-SHLDER
   Was treatment related to Combat Vet (Combat Related)? Yes//    YES

Secondary Ordering ICD-9 Diagnosis: 719.42  719.42    JOINT PAIN-UP/ARM
        ...OK? Yes//    (Yes)

   Was treatment related to Combat Vet (Combat Related)? Yes//    YES

Secondary Ordering ICD-9 Diagnosis:

------------------------------------------------------------------------------
           Patient: RADPATIENT,ONE
         Procedure: SHOULDER 2 OR MORE VIEWS
   Proc. Modifiers: LEFT
          Category: OUTPATIENT                 Mode of Transport: AMBULATORY
      Desired Date: Sep 12, 2007            Isolation Procedures: NO
   Request Urgency: ROUTINE                 Scheduled for Pre-op: NO
  Request Location: DENVER-PAIN CLINIC         Nature of order:  SVC CORRECTION
  Reason for Study: This is a test

Primary Ordering ICD-9 Diagnosis: JOINT PAIN-SHLDER  719.41
     CV Related? YES

Secondary Ordering ICD-9 Diagnosis: JOINT PAIN-UP/ARM  719.42
     CV Related? YES

Clinical History:
This is the clinical history

------------------------------------------------------------------------------
Do you want to change any of the above? NO//

DATE DESIRED (Not guaranteed): Sep 12, 2007//    (SEP 12, 2007)
     ...request submitted to: RADIOLOGY DIV 442 OOS ID 105
```

6. When orders are placed via CPRS, this patch stores the new SHAD data in two new fields described in item 1 on page 3.

   Example of entering an order via CPRS and where the Primary diagnosis for the order is stored in the new PRIMARY DX RELATED TO SHAD field (#100) of the RAD/NUC MED ORDERS file (#75.1)
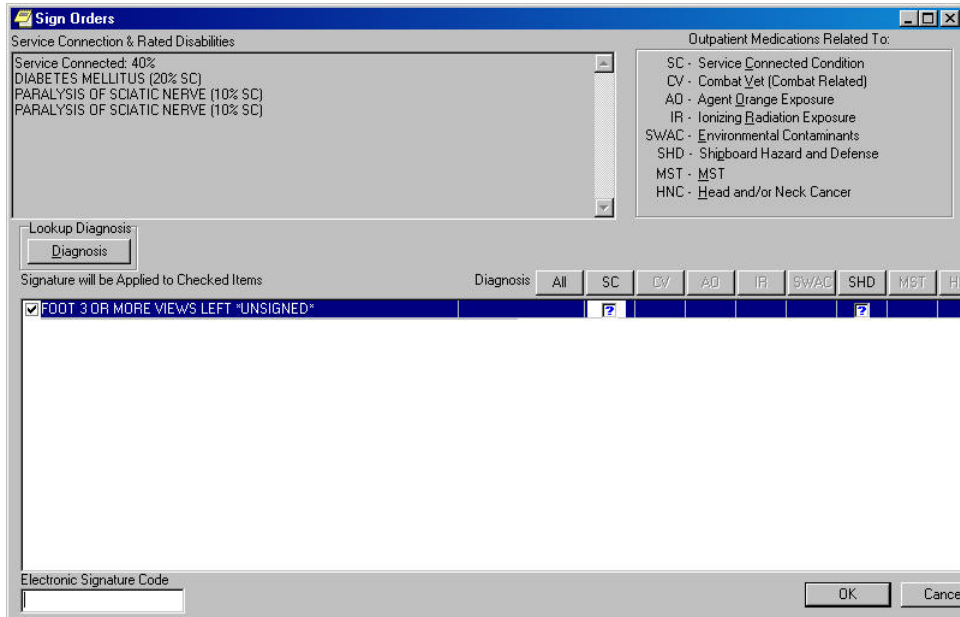
   In the Order an Imaging Procedure window, data is entered for **Imaging Type**, **Imaging Procedure**, **Modifiers**, **Reason for Study**, **Clinical History**, and **Date Desired**.

The Sign Orders window shows **?** in the **SC** and **SHD** boxes for this patient.

In the Sign Orders window, click **Diagnosis** and select ordering diagnosis **729.5** as the Primary Diagnosis.
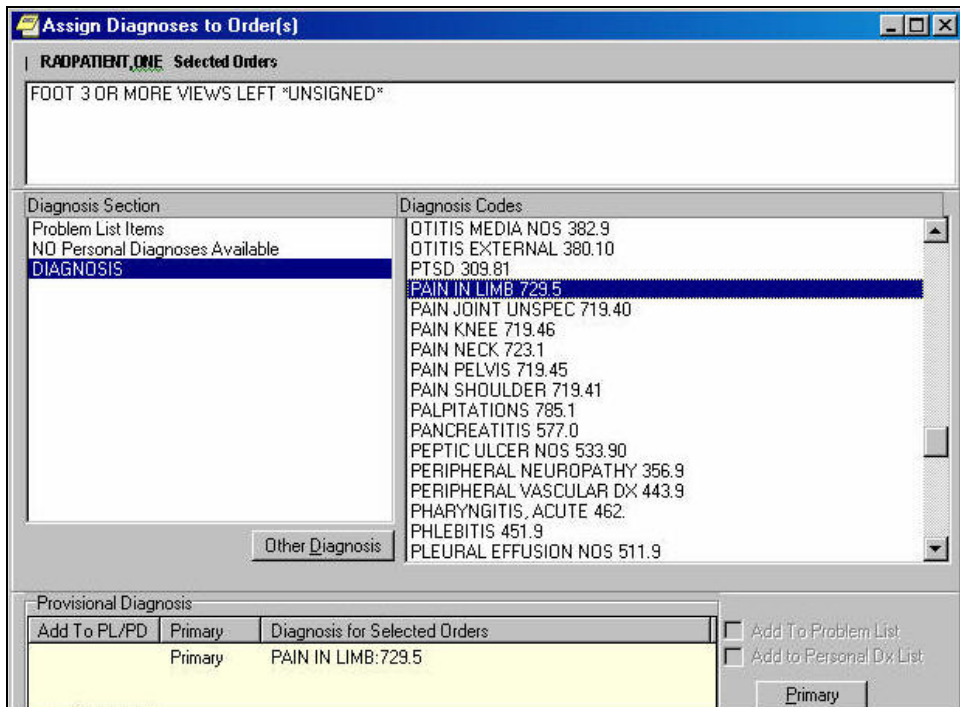
Select the **SC** check box to indicate **Yes**, and clear the **SHD** check box to indicate **No**. Enter your electronic signature.

In the Radiology application, the ordering ICD diagnosis **729.5** and its associated clinical indicators are stored in the RAD/NUC MED ORDER file #75.1.

```
RAD/NUC MED ORDERS LIST                       JUL 20,2007  11:41    PAGE 1
-----------------------------------------------------------------------------


NAME: RADPATIENT,ONE                     PROCEDURE: FOOT 3 OR MORE VIEWS
  TYPE OF IMAGING: GENERAL RADIOLOGY     CATEGORY OF EXAM: OUTPATIENT
  REQUEST STATUS: PENDING                REQUEST URGENCY: ROUTINE
  ORDER: 2595790                         REQUESTING PHYSICIAN: RADPROVIDER,TWO
  USER ENTERING REQUEST: RADPROVIDER,TWO
  REQUEST ENTERED DATE/TIME: JUL 20, 2007@11:39:56
  LAST ACTIVITY DATE/TIME: JUL 20, 2007@11:39:56
  MODE OF TRANSPORT: AMBULATORY
  IMAGING LOCATION: RADIOLOGY DIV 442 OOS ID 105
  DATE DESIRED (Not guaranteed): JUL 20, 2007
  REQUESTING LOCATION: EMERGENCY ROOM    ISOLATION PROCEDURES: NO
  REASON FOR STUDY: check for possible fracture
  PRIMARY ORDERING ICD DIAGNOSIS: 729.5
  PRIMARY DX RELATED TO SC: YES          PRIMARY DX RELATED TO SHAD: NO
 CLINICAL HISTORY FOR EXAM:   patient slipped and fell on oily concrete
 pavement
PROCEDURE MODIFIERS: LEFT
STATUS CHANGE DATE/TIME: JUL 20, 2007@11:39:56
  NEW STATUS: PENDING                    COMPUTER USER: RADPROVIDER,TWO
```

7. This patch replaces the "Environmental Contaminants" label on reports and screen prompts with the "Southwest Asia Condition" label.