



**Radiology/Nuclear Medicine
Release Notes**

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

Department of Veterans Affairs
Health Systems Design & Development
Provider Systems

This page intentionally left blank for double-sided printing.

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:

Version : 5.0
Division : CHEYENNE VAMC
Location : RADIOLOGY DIV 442 OO
Img. Type: GENERAL RADIOLOGY
User : RADPROVIDER,ONE

Printer Defaults
-----
Flash Card : None
No cards
Jacket Label: None
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 00000000
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

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

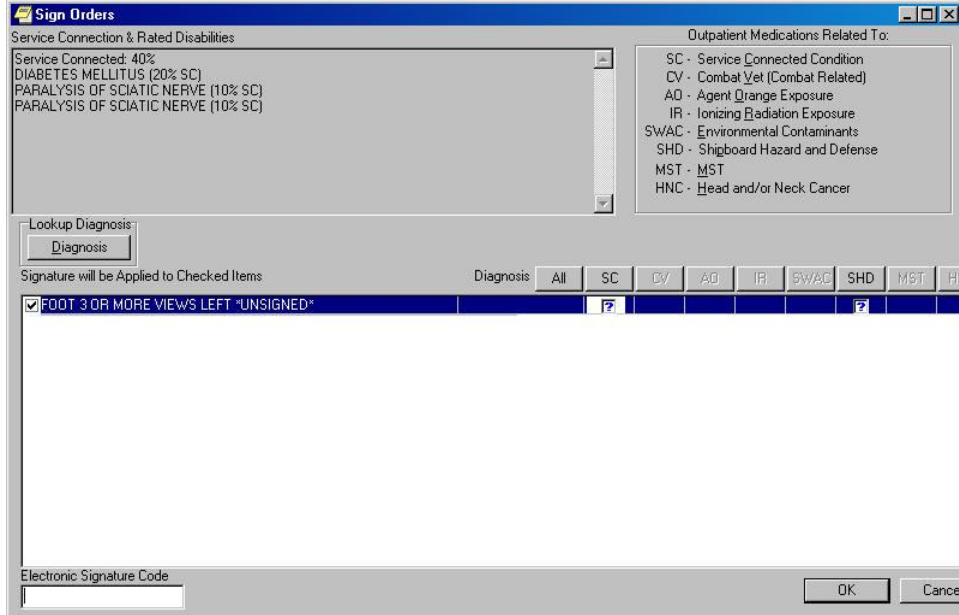
Example of entering an order via CPRS and where the Primary diagnosis for the order is stored in the new PRIMARY DX RELATED TO SHAD field (#100) of the RAD/NUC MED ORDERS file (#75.1)

In the Order an Imaging Procedure window, data is entered for **Imaging Type**, **Imaging Procedure**, **Modifiers**, **Reason for Study**, **Clinical History**, and **Date Desired**.

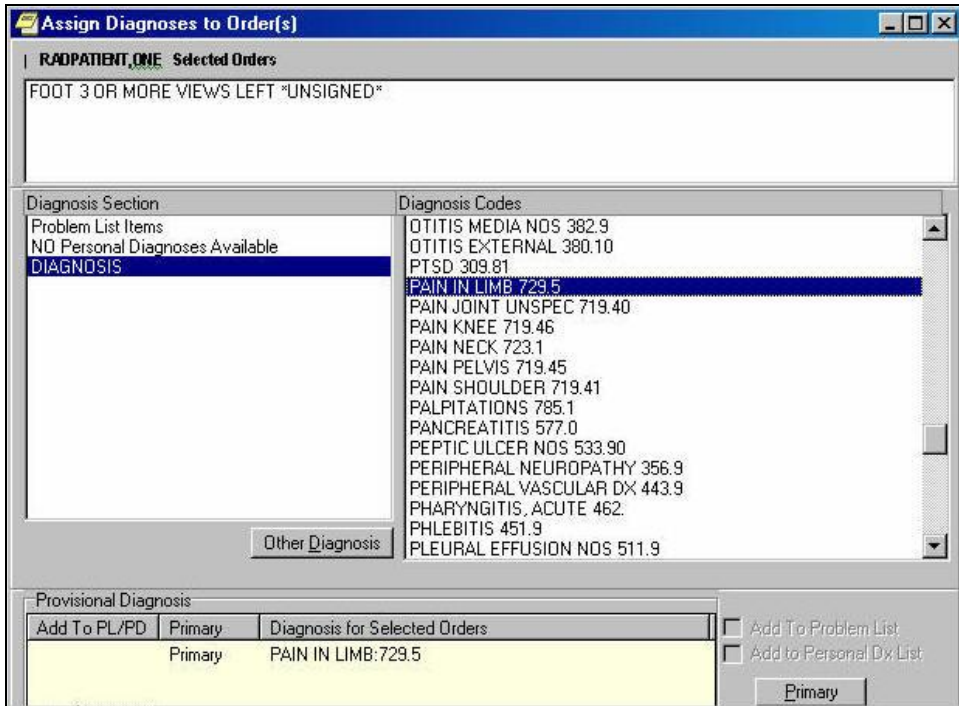
The screenshot shows a software window titled "Order an Imaging Procedure". The window contains several sections for data entry:

- Imaging Type:** A dropdown menu with "GENERAL RADIOLOGY" selected.
- Reason for Study (REQUIRED):** A text field containing "check for possible fracture".
- Imaging Procedure:** A list box with "FOOT 3 OR MORE VIEWS" selected. Other options include ABDOMEN 1 VIEW, ABDOMEN 2 + PA CHEST, CHEST 2 VIEWS PA&LAT, CHEST SINGLE VIEW, COLON BARIUM ENEMA, and DEXA SCAN.
- Clinical History (Optional):** A text area containing "patient slipped and fell on oily concrete pavement".
- Date Desired:** A date field showing "Jul 20, 2007".
- Urgency:** A dropdown menu with "ROUTINE" selected.
- Transport:** A dropdown menu with "AMBULATORY" selected.
- Available Modifiers:** A list box with "LEFT" selected. Other options include GASTROGRAFF, IAC'S, INDEX, LATERAL, and LEFT.
- Selected Modifiers:** A list box with "LEFT" selected.
- Category:** A dropdown menu with "OUTPATIENT" selected.
- Submit To:** A dropdown menu with "RADIOLOGY DIV 442 OC" selected.
- Exams Over the Last 7 Days:** An empty text area.
- Isolation:** A checkbox that is unchecked.
- Pregnant:** Radio buttons for "Yes", "No", and "Unknown", with "Unknown" selected.
- PreOp Scheduled:** A date field with a dropdown arrow.
- Footer:** A summary bar showing "FOOT 3 OR MORE VIEWS LEFT" and buttons for "Accept Order" and "Quit".

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
    
```

- This patch replaces the “Environmental Contaminants” label on reports and screen prompts with the “Southwest Asia Condition” label.