Traumatic Brain Injury (TBI) Screening Reminder

PXRM*2*8

INSTALLATION & SETUP GUIDE

March 2007

Health Provider Systems
Department of Veterans Affairs

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Introduction

PXRM*2*8 distributes the new National VA-TBI SCREENING reminder definition and dialog. This reminder has been developed and sponsored by the Office of Patient Care Services.

Web Sites:

http://vaww1.va.gov/pcs/	VHA Patient Care Services (PCS)
http://vista.med.va.gov/reminders	National Clinical Reminders site

For more detailed information about use of this TBI Screening reminder, please review the PowerPoint at:
http://vista.med.va.gov/reminders/TBI%20SCREENING%20REMINDER%20PPT%203-14-07.ppt

Pre-Installation

Clinical Reminders patch PXRM*2.0*8 adds one new reminder and dialog, along with taxonomies, reminder terms, and health factors to support the TBI project.

Required Software

Package/Patch	Namespace	Version	Comments
Clinical Reminders	PXRM	2.0	Fully patched
HL7	HL	1.6	Fully patched
Kernel	XU	8.0	Fully patched
MailMan	XM	7.1	Fully patched
VA FileMan	DI	22	Fully patched

File installed

811.8 REMINDER EXCHANGE

Data is added to the following files:

801.41 REMINDER DIALOG
811.5 REMINDER TERM
811.9 REMINDER DEFINITION

Routine Installed

PXRMP8I

Estimated Installation Time

This patch can be loaded with users on the system. Installation will take less than two minutes. Installation should be coordinated with the person who manages Clinical Reminders at your site and be scheduled during a time of lower system usage.

Installation

This build can be loaded with users on the system. Updating of cross-references for the new data added to the files will occur during the install.

The install needs to be done by a person with DUZ(0) set to "@."

1. **Retrieve the PXRM*2.0*8 build**

   Use FTP to access the build, PXRM_2_0_8.KID, from one of the following locations:

Albany	ftp.fo-albany.med.va.gov	<ftp://ftp.fo-albany.med.va.gov>
Hines	ftp.fo-hines.med.va.gov	<ftp://ftp.fo-hines.med.va.gov>
Salt Lake City	ftp.fo-slc.med.va.gov	<ftp://ftp.fo-slc.med.va.gov>

2. **Install the build first in a training or test account.**

   Installing in a non-production environment will give you time to get familiar with new functionality and complete the setup for reminders and dialogs prior to installing the software in production.

3. **Load the distribution.**

   In programmer mode, D ^XUP, select the Kernel Installation & Distribution System menu (XPD MAIN), then the Installation option, then the option LOAD a Distribution. Enter your directory name and PXRM_2_0_8.KID at the Host File prompt.

Example

```
Select Installation Option: LOAD a Distribution


Enter a Host File: PXRM_2_0_8.KID

KIDS Distribution saved on
Comment: TBI Reminder
```

From the Installation menu, you may elect to use the following options:

a. Verify Checksums in Transport Global

This option will allow you to ensure the integrity of the routines that are in the transport global. If there are any discrepancies, do not run the Install Package(s) option. Instead, run the Unload a Distribution option to remove the Transport Global from your system. Retrieve the file again from the anonymous directory (in case there was corruption in FTPing) and Load the Distribution again. If the problem still exists, log a Remedy ticket and/or call the national Help Desk (1-888-596-HELP) to report the problem.

b. Print Transport Global

This option will allow you to view the components of the KIDS build.

4. Install the package.

From the Installation menu on the Kernel Installation and Distribution System (KIDS) menu, run the option Install Package(s). Select the package PXRM*2.0*8 and proceed with the install. If you have problems with the installation, log a Remedy ticket and/or call the National Help Desk to report the problem.

```
Select Installation & Distribution System Option: Installation
Select Installation Option: INSTALL PACKAGE(S)
Select INSTALL NAME: PXRM*2.0*8
```

Answer "NO" to the following prompts:

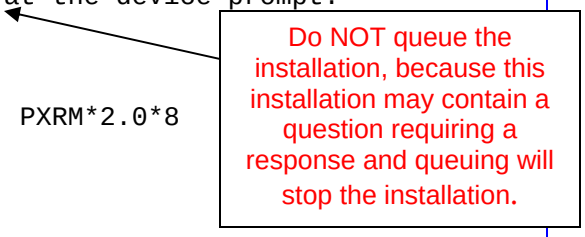
Want KIDS to INHIBIT LOGONs during install? YES// **NO**
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// **NO**

NOTE: Do NOT queue the installation, because this installation may contain a question requiring a response and queuing will stop the installation. (If for some reason, your site doesn't have GMRCOR CONSULT finding item, you'll be prompted to enter an existing Order Dialog name.)

Installation Example

```
Setting up programmer environment
Terminal Type set to: C-VT220

Select OPTION NAME: XPD MAIN       Kernel Installation & Distribution System menu

          Edits and Distribution ...
          Utilities ...
          Installation ...

Select Kernel Installation & Distribution System Option: Installation

Select Installation Option: Install Package(s)  [XPD INSTALL BUILD]

Select INSTALL NAME: PXRM*2.0*8
       Loaded from Distribution  3/7/07@15:51:24
     => NATIONAL VA-TBI SCREENING REMINDER  ;Created on Mar 07,
2007@15:14

This Distribution was loaded on Mar 07, 2007@15:51:24 with header of
   NATIONAL VA-TBI SCREENING REMINDER  ;Created on Mar 07, 2007@15:14
   It consisted of the following Install(s):
     PXRM*2.0*8
Checking Install for Package PXRM*2.0*8

Install Questions for PXRM*2.0*8

Incoming Files:
```

```
   811.8     REMINDER EXCHANGE  (including data)
Note:  You already have the 'REMINDER EXCHANGE' File.
I will OVERWRITE your data with mine.


Want KIDS to INHIBIT LOGONs during the install? YES// NO
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME//   HOME
Complete                                        PXRM*2.0*8

 Install Started for PXRM*2.0*8 :
               Mar 07, 2007@15:51:40

Build Distribution Date: Mar 07, 2007

 Installing Routines:
               Mar 07, 2007@15:51:40

 Running Pre-Install Routine: PRE^PXRMP8I

 Installing Data Dictionaries:
        Mar 07, 2007@15:51:40

 Installing Data:
               Mar 07, 2007@15:51:40

 Running Post-Install Routine: POST^PXRMP8I

Installing reminder VA-TBI SCREENING

 Updating Routine file...

 Updating KIDS files...

 PXRM*2.0*8 Installed.
               Mar 07, 2007@15:51:47

 Install Message sent #42971
Install Completed
```



6. Install File Print (optional)

Use the KIDS Install File Print option to print out the results of the installation process.

```
Select Utilities Option: Install File Print
Select INSTALL NAME: PXRM*
```

7. Build File Print (optional)

Use the KIDS Build File Print option to print out the build components.

```
Select Utilities Option: Build File Print
Select BUILD NAME: PXRM*2.0*8     CLINICAL REMINDERS
DEVICE: HOME//   HOME

PACKAGE: PXRM*2.0*8     Mar 08, 2007 8:54 am                          PAGE 1
------------------------------------------------------------------------------
TYPE: SINGLE PACKAGE
TRACK NATIONALLY: YES
NATIONAL PACKAGE: CLINICAL REMINDERS
DESCRIPTION:
Release National VA-TBI SCREENING Reminder and Dialog.

ENVIRONMENT CHECK :                          DELETE ENV ROUTINE: No
 PRE-INIT ROUTINE : PRE^PXRMP8I           DELETE PRE-INIT ROUTINE: No
POST-INIT ROUTINE : POST^PXRMP8I         DELETE POST-INIT ROUTINE: No
PRE-TRANSPORT RTN :

811.8       REMINDER EXCHANGE            NO    NO    YES    OVER   NO    NO
  DATA SCREEN: I $$EXFINC^PXRMP8I(Y)


ROUTINE:
   PXRMP8I                                        SEND TO SITE

REQUIRED BUILDS:                                  ACTION:
   PXRM*2.0*4                                     Don't install, leave global
```

8. Post-installation routine

The post-install routine, POST^PXRMP8I, installs the “packed” components of the VA-TBI SCREENING reminder and VA-TBI SCREENING reminder dialog onto your system, via reminder exchange tools. The reminder exchange entry being installed is called VA-TBI-SCREENING.

After the installation has finished, if you discover that the components weren’t installed correctly for some reason, you can use the Exchange options on the Reminders Manager Menu to install the components of the “packed” reminder.

The init routine PXRMP8I may be deleted once the installation has completed. Sites should use the Kernel “Delete Routines” option [XTRDEL] to delete this routine.

Setup of TBI Dialog

The TBI reminder is applicable to all patients whose last service separation date is after 9/11/01 and to active duty patients.

NOTE: This reminder uses the same reminder term that was included in the VA-IRAQ & AFGHAN POST-DEPLOY SCREEN reminder to determine whether active duty patients should be screened or not. The reminder term VA-ACTIVE DUTY is included in this reminder and is available to cause patients to be part of the cohort. This term contains the computed finding VA-PATIENT TYPE, which can be used to include active duty patients. **Sites that do not screen active duty patients may remove the computed finding from this reminder term.**

This reminder is resolved if the patient did not serve in OEF/OIF, as recorded by using this reminder dialog or the VA-IRAQ & AFGHAN POST-DEPLOY SCREEN dialog. Therefore, the denominator for this reminder is the same as that used for the VA-IRAQ & AFGHAN POST-DEPLOY SCREEN – this number DOES NOT represent the number of patients who served in OEF/OIF. **Please note that this reminder and the VA-IRAQ & AFGHAN POST-DEPLOY SCREEN reminder are not constructed to run reports on those patients who actually served in OEF/OIF.**

- NOTE: Some local sites use additional reminders that have more appropriate denominators and look at patients with known OEF/OIF service who need TBI screening, or who screened positive for TBI and need follow-up, or have positive PTSD screens or positive depression screens.

When a veteran's screen is positive, the positive findings should be reviewed with the patient by an appropriately trained clinician and a consult for further evaluation recommended. In general, it is best if the clinician personally completes the screen, particularly as the questions asked are of clinical value. If clinic support staff collects answers to the initial questions on the screen, positive screens must be brought to the attention of the responsible clinician immediately and reviewed with the patient. Consults should not be automatically submitted without discussion between clinician and the patient.

Setup Steps
After installing Patch 8, follow the steps below to implement your TBI screening reminder and dialog.

The following dialog elements are meant to be used for ordering a consult to the team at your facility that does further evaluation of patients with possible TBI.

VA-TBI OI CONSULT FOR KNOWN TBI
VA-PDIQ POLYTRAUMA CONSULT

At the time of install, the Reminder Dialog will use the GMRCOR CONSULT finding item as the consult order dialog for both of these dialog elements. Sites should substitute a quick order or an order menu for ordering consults to the TBI team at your facility. If no such service is available yet, then sites may wish to leave the GMRCOR CONSULT in the element until a consult becomes available.

The mapping of the Quick Order should be done by the site Clinical Reminder Manager.

1. Mapping a site-specific quick order

To map a site-specific quick order to the above elements, do the following from the Reminder Managers menu.

Summary of steps:

1. Select DM Reminder Dialog Management.
2. Select DI Reminder Dialogs.
3. Type CV for Change View.
4. Type E for Dialog Elements.
5. Type SL for Search List.
6. Type the name of the element from above.
7. At the Find Next prompt, type No.
8. Type the item number next to the dialog element, VA-TBI OI CONSULT FOR KNOWN TBI.
9. At the finding Item Prompt, enter Q. plus the name of the site-specific Quick Order or order menu.
10. Press Enter at the Additional Finding prompt.
11. Repeat the above steps for the other dialog element, VA-PDIQ POLYTRAUMA CONSULT

Detailed Example

1. Select DM Reminder Dialog Management from the Reminder Managers Menu.

```
Select OPTION NAME:    PXRM MANAGERS MENU     Reminder Managers Menu     menu

   CF     Reminder Computed Finding Management ...
   RM     Reminder Definition Management ...
   SM     Reminder Sponsor Management ...
   TXM    Reminder Taxonomy Management ...
   TRM    Reminder Term Management ...
   LM     Reminder Location List Management ...
   RX     Reminder Exchange
   RT     Reminder Test
   OS     Other Supporting Menus ...
   INFO   Reminder Information Only Menu ...
   DM     Reminder Dialog Management ...
   CP     CPRS Reminder Configuration ...
   RP     Reminder Reports ...
   MST    Reminders MST Synchronization Management ...
   PL     Reminder Patient List Menu ...
   PAR    Reminder Parameters ...
```

```
   XM     Reminder Extract Menu ...
   GEC    GEC Referral Report


Select Reminder Managers Menu Option: DM  Reminder Dialog Management
```

2. Select DI Reminder Dialogs

```
   DP     Dialog Parameters ...
   DI     Reminder Dialogs
   DR     Dialog Reports ...
   IA     Inactive Codes Mail Message

Select Reminder Dialog Management Option: DI  Reminder Dialogs
```

3. Type CV for Change View.

```
Dialog List                    Mar 07, 2007@16:03:23          Page:    1 of   27
REMINDER VIEW (ALL REMINDERS BY NAME)

 Item Reminder Name                        Linked Dialog Name & Dialog Status
   1  01-DIAB PTS (5Y) W/O DIAB EXAM (1Y
   2  10-DIAB PTS (5Y) W/O DIAB EXAM (1Y
   3  21-DIAB PTS (5Y) W/O DIAB EXAM (1Y
   4  691 PNT EYE CLINIC                  PNT EYE DIABETES-DLG
   5  A NEW REMINDER                      A NEW REMINDER                Disabled
   6  AGETEST                             VA-HEPC AUTOGENERATE TEST

+         Enter ?? for more actions                                          >>>
AR   All reminders        LR   Linked Reminders     QU   Quit
CV   Change View          RN   Name/Print Name
Select Item: Next Screen// CV   Change View
```

4. Type E, for Dialog Elements

```
     Select one of the following:

          D         Reminder Dialogs
          E         Dialog Elements
          F         Forced Values
          G         Dialog Groups
          P         Additional Prompts
          R         Reminders
          RG        Result Group (Mental Health)
          RE        Result Element (Mental Health)

TYPE OF VIEW: R// E  Dialog Elements
```

5. Type SL for Search List.

6. Type the name of the dialog element, VA-TBI OI CONSULT FOR KNOWN TBI.

```
Select Item: Next Screen// SL   SL
Search for: VA-TBI OI CONSULT FOR KNOWN TBI
```

```
  15  ADDITIONAL COMMENTS (PXRM COMMENT)      Dialog Element
  16  ADDITIONAL COMMENTS(2 LINES WP)         Dialog Element
...searching for 'VA-TBI OI CONSULT FOR KNOWN TBI'.............


Find Next 'VA-TBI OI CONSULT FOR KNOWN TBI'? Yes// NO

CO   Copy Dialog          PT   List/Print All       QU   Quit
```

8. Type the item number next to the element, then press Enter

```
Dialog List                    Mar 07, 2007@16:04:22          Page:  102 of  115
DIALOG VIEW (DIALOG ELEMENTS)

+Item Dialog Name                              Dialog type              Status
162  VA-TBI OI CONSULT FOR KNOWN TBI          Dialog Element
162  VA-TBI SCREEN REFUSAL                    Dialog Element
162  VA-TEXT AIMS INSTRUCTION                 Dialog Element
162  VA-TEXT AIMS INSTRUCTION (1)             Dialog Element
162  VA-TEXT BLANK LINE                       Dialog Element
+        + Next Screen   - Prev Screen   ?? More Actions                  >>>
AD   Add                 CV   Change View          INQ  Inquiry/Print
CO   Copy Dialog         PT   List/Print All       QU   Quit
Select Item: Next Screen// 162

Dialog Name:  VA-TBI OI CONSULT FOR KNOWN TBI

Current dialog element/group name: VA-TBI OI CONSULT FOR KNOWN TBI
Used by:  VA-TBI TEXT PREVIOUS DX NO SCREEN (Dialog Group)
```

9. At the finding Item Prompt, enter Q. plus the name of the site-specific Quick Order or order menu.

```
FINDING ITEM: GMRCOR CONSULT// Q.ZGMRC TBI
```

10. Press Enter at the Additional Finding prompt.

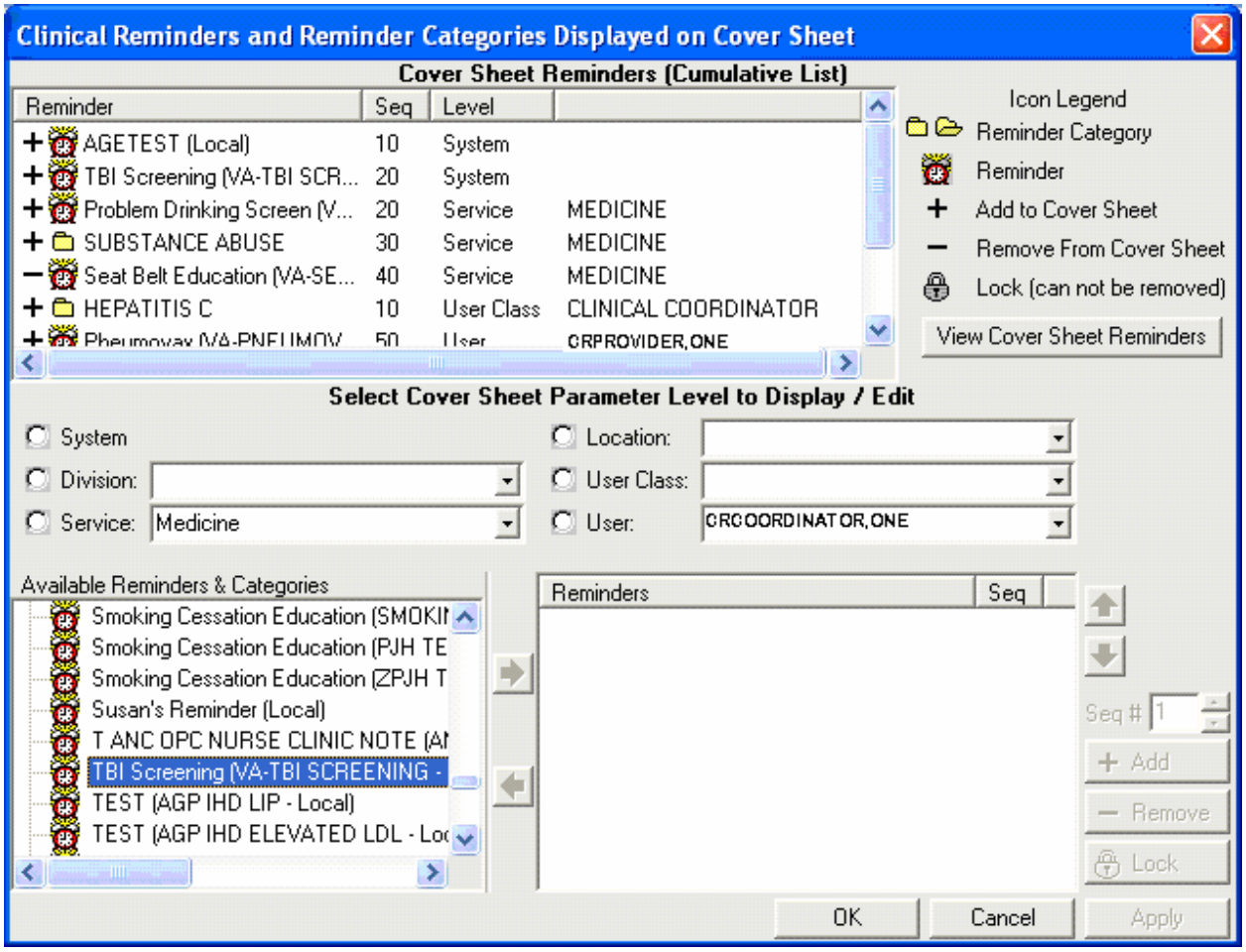
```
Select ADDITIONAL FINDINGS: <Enter>
Input your edit comments.
Edit? NO//
```

11. Repeat the above steps for the other dialog element, VA-PDIQ POLYTRAUMA CONSULT

2. Add the nationally distributed reminders to the CPRS Cover Sheet

a. Open a patient chart, click on the reminders clock, and when the available Reminders window opens, click on Action, and then select “Edit Cover Sheet Reminder List.”

b. When the Cover Sheet Reminder List opens, find the TBI screening reminder.



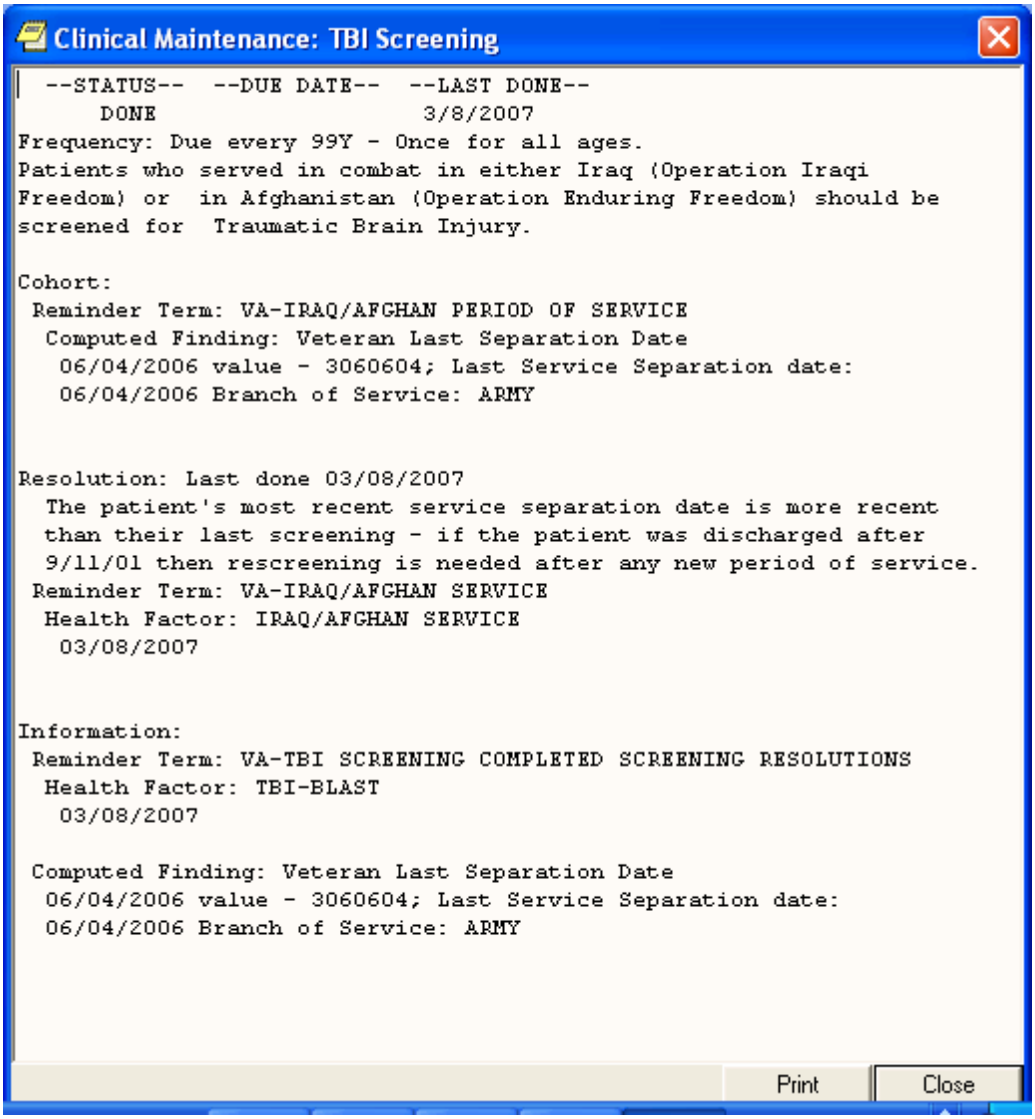
c. Click on the TBI Screening (VA-TBI SCREENING) reminder and click the Add button (or double-click the reminder).

3. Verify that the dialog functions properly

Test the TBI Reminder dialog in CPRS and verify the following:

- Correct Progress Note text is posted
- Finding Item gets sent to PCE
- Reminder is satisfied

Check the Clinical Maintenance component display in CPRS after testing the dialog to ensure that all the activities are reflected in the clinical maintenance display.


Clinical Maintenance: TBI Screening
--STATUS-- --DUE DATE-- --LAST DONE--
DONE 3/8/2007
Frequency: Due every 99Y - Once for all ages.
Patients who served in combat in either Iraq (Operation Iraqi
Freedom) or in Afghanistan (Operation Enduring Freedom) should be
screened for Traumatic Brain Injury.
Cohort:
Reminder Term: VA-IRAQ/AFGHAN PERIOD OF SERVICE
Computed Finding: Veteran Last Separation Date
06/04/2006 value - 3060604; Last Service Separation date:
06/04/2006 Branch of Service: ARMY
Resolution: Last done 03/08/2007
The patient's most recent service separation date is more recent
than their last screening - if the patient was discharged after
9/11/01 then rescreening is needed after any new period of service.
Reminder Term: VA-IRAQ/AFGHAN SERVICE
Health Factor: IRAQ/AFGHAN SERVICE
03/08/2007
Information:
Reminder Term: VA-TBI SCREENING COMPLETED SCREENING RESOLUTIONS
Health Factor: TBI-BLAST
03/08/2007
Computed Finding: Veteran Last Separation Date
06/04/2006 value - 3060604; Last Service Separation date:
06/04/2006 Branch of Service: ARMY
Print
Close

Appendices

Appendix A: **VA-TBI SCREENING Reminder Inquiry**
Appendix B: VA-TBI SCREENING reminder dialog screen shots

Appendix A: Reminder Definition Inquiry

```
Select Reminder Definition: TBI Screening    VA-TBI SCREENING     NATIONAL
DEVICE: ;;999  HOME
REMINDER DEFINITION INQUIRY                       Mar 07, 2007 2:03:47 pm  Page 1
--------------------------------------------------------------------------------

VA-TBI SCREENING                   No.  793
------------------------------------------

Print Name:                    TBI Screening

Class:                         NATIONAL

Sponsor:                       Office of Patient Care Services

Review Date:

Rescission Date:

Usage: CPRS, DATA EXTRACT, REPORTS

Related VA-* Reminder:

Reminder Dialog:               VA-TBI SCREENING

Priority:

Reminder Description:
    Reminder is applicable once in a lifetime of all patients whose date of
    separation from the service is 9/11/01 or later and have had service in
    OEF/OIF.  If Service Date of Separation is more recent than last TBI
    Screening, then reminder will be due again for patient.

    Reminder is resolved by completing the screen.

    Reminder creation requested by the Office of Patient Care Services.
    Designed by the TBI Screening Workgroup chaired by Dr. Barbara Sigford
    and based on a reminder from Minneapolis built by Ronald Patire.

Technical Description:
    Reminder is due for all patients with DOS of 9/11/01 or later.  Reminder
    is resolved by any of the health factors associated with the responses of
    section 1; OR health factor for Previous TBI Diagnosis; OR health factor
    TBI PT Refused..


Baseline Frequency:

      Do In Advance Time Frame:  Wait until actually DUE
                  Sex Specific:
                 Ignore on N/A:
       Frequency for Age Range:  99Y - Once for all ages
                    Match Text:
                 No Match Text:


Findings:

  ---- Begin: VA-IRAQ/AFGHAN PERIOD OF SERVICE  (FI(1)=RT(490)) ------------
                  Finding Type: REMINDER TERM
   Use in Patient Cohort Logic: AND
```

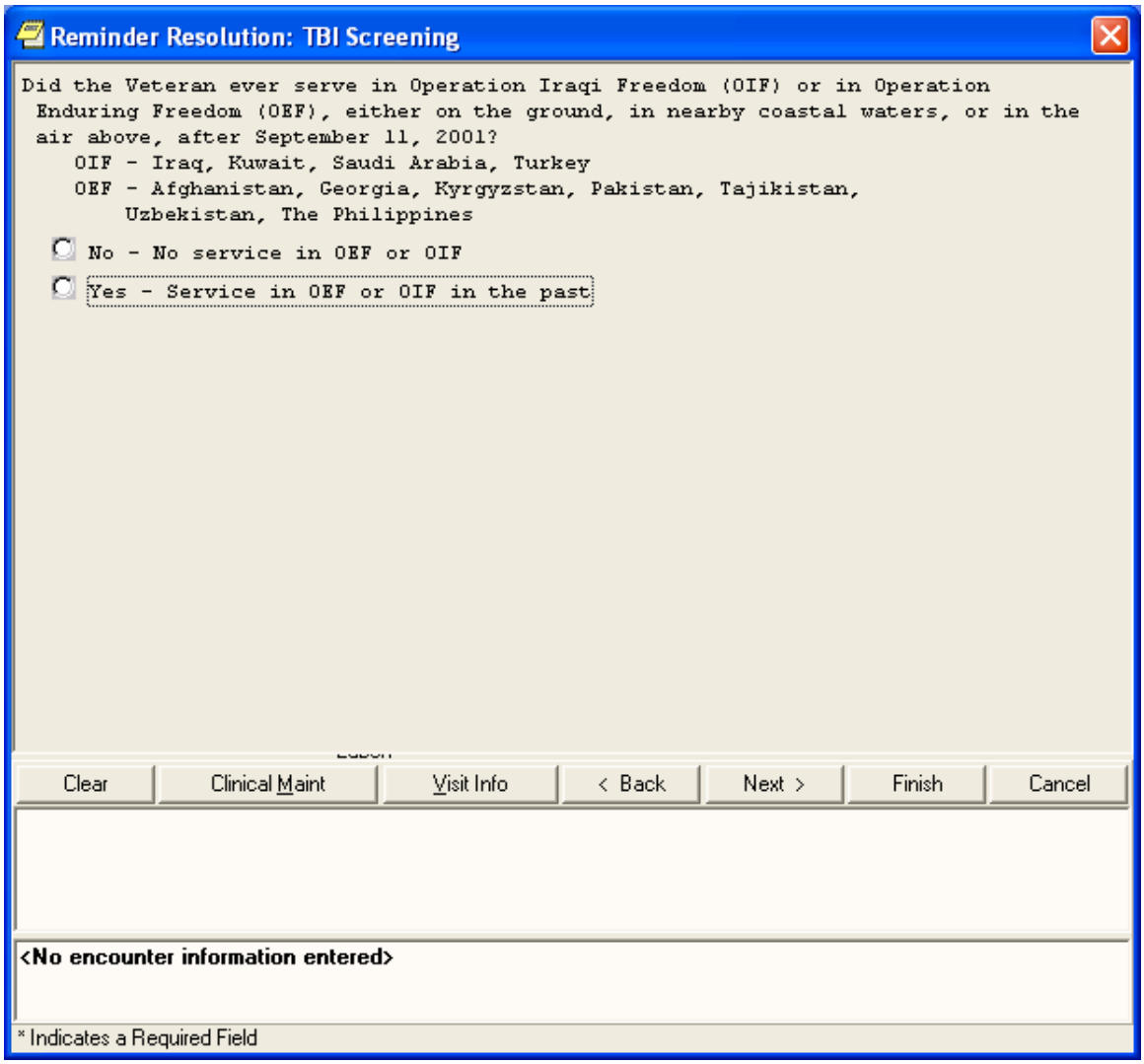
```
         Beginning Date/Time: 09/11/2001
              Not Found Text: The patient's last service separation date is
                               prior to 9/11/01.
                               \\


                           Mapped Findings:
                         Mapped Finding Item: CF.VA-LAST SERVICE SEPARATION DATE
                         Beginning Date/Time: SEP 11, 2001

---- End: VA-IRAQ/AFGHAN PERIOD OF SERVICE ------------------------------


---- Begin: VA-ACTIVE DUTY  (FI(2)=RT(568019)) --------------------------
                Finding Type: REMINDER TERM
 Use in Patient Cohort Logic: OR

                           Mapped Findings:
                         Mapped Finding Item: CF.VA-PATIENT TYPE
                                   Condition: I V="ACTIVE DUTY"

---- End: VA-ACTIVE DUTY -----------------------------------------------


---- Begin: VA-TBI SCREENING COMPLETED SCREENING RESOLUTIONS  (FI(3)=RT(824))
                Finding Type: REMINDER TERM
     Use in Resolution Logic: AND

                           Mapped Findings:
                         Mapped Finding Item: HF.TBI-FRAGMENT/BULLET
                      Health Factor Category: TBI SOURCE

                         Mapped Finding Item: HF.TBI-BULLET
                      Health Factor Category: TBI SOURCE

                         Mapped Finding Item: HF.TBI-VEHICULAR
                      Health Factor Category: TBI SOURCE

                         Mapped Finding Item: HF.TBI-FALL
                      Health Factor Category: TBI SOURCE

                         Mapped Finding Item: HF.TBI-BLAST
                      Health Factor Category: TBI SOURCE

                         Mapped Finding Item: HF.TBI-SECTION I - NO
                      Health Factor Category: TBI-SECTIONS

---- End: VA-TBI SCREENING COMPLETED SCREENING RESOLUTIONS ---------------


---- Begin: VA-IRAQ/AFGHAN SERVICE NO  (FI(4)=RT(489)) ------------------
                Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
                 Found Text: The record indicates that the patient did not
                               serve in OEF or OIF.
                               \\


                           Mapped Findings:
                         Mapped Finding Item: HF.NO IRAQ/AFGHAN SERVICE
                      Health Factor Category: IRAQ/AFGHANISTAN

---- End: VA-IRAQ/AFGHAN SERVICE NO -------------------------------------
```

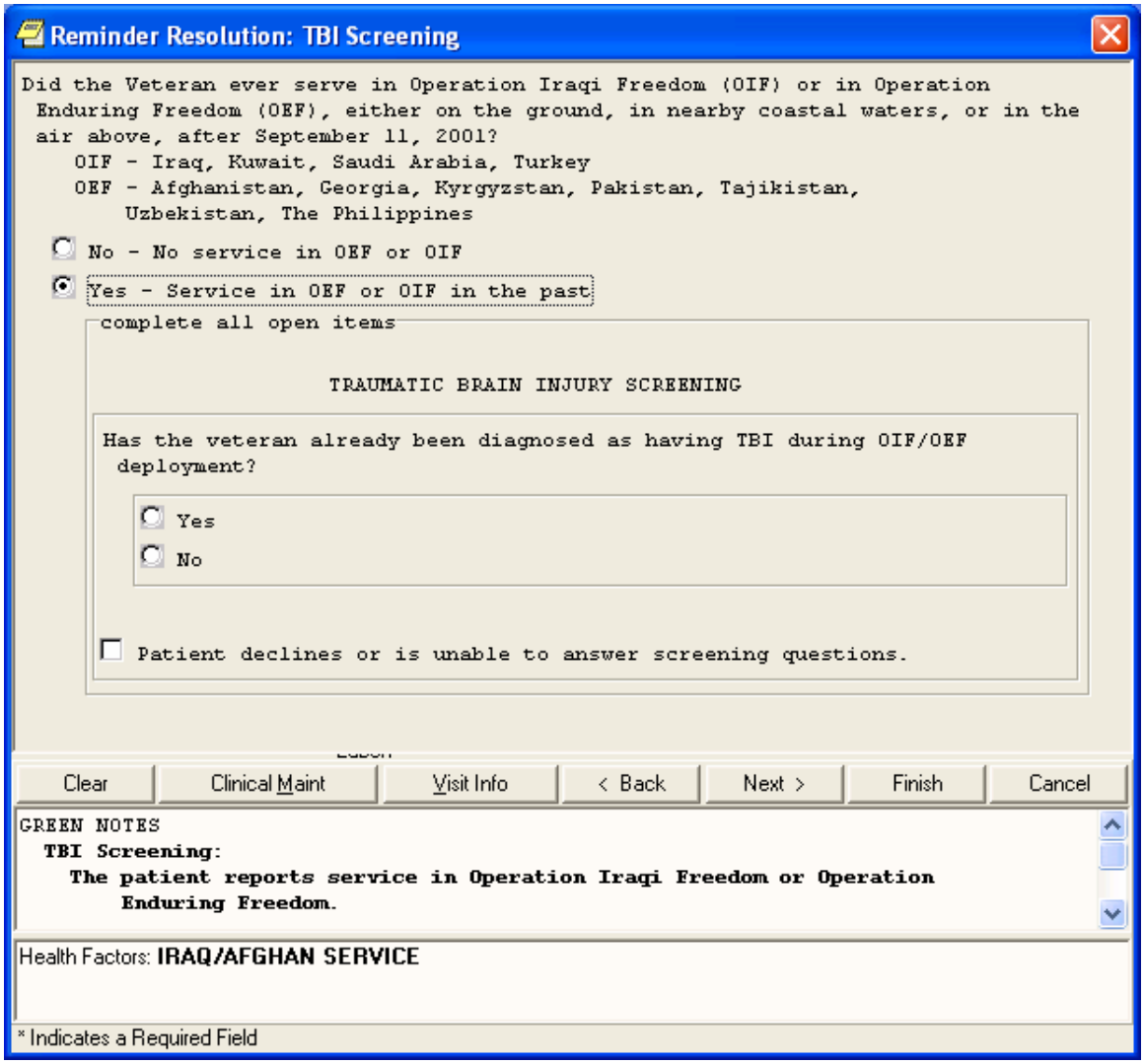
```
 ---- Begin: VA-IRAQ/AFGHAN SERVICE  (FI(5)=RT(568012)) -------------------
                Finding Type: REMINDER TERM

                      Mapped Findings:
                   Mapped Finding Item: HF.IRAQ/AFGHAN SERVICE
                Health Factor Category: IRAQ/AFGHANISTAN

 ---- End: VA-IRAQ/AFGHAN SERVICE ----------------------------------------


 ---- Begin: VA-TBI-PREVIOUS TBI DX  (FI(6)=RT(828)) ----------------------
                Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: 9/11/01
                  Found Text: Patient has documentation of previous TBI
                              diagnosis on chart.

                      Mapped Findings:
                   Mapped Finding Item: HF.TBI-PREVIOUS TBI DX
                Health Factor Category: TBI-SECTIONS

 ---- End: VA-TBI-PREVIOUS TBI DX ----------------------------------------


 ---- Begin: VA-TBI-PT REFUSAL  (FI(7)=RT(829)) --------------------------
                Finding Type: REMINDER TERM
     Use in Resolution Logic: OR
         Beginning Date/Time: T-30D

                      Mapped Findings:
                   Mapped Finding Item: HF.TBI-PT REFUSAL
                Health Factor Category: TBI-SECTIONS

 ---- End: VA-TBI-PT REFUSAL ---------------------------------------------


 ---- Begin: VA-LAST SERVICE SEPARATION DATE  (FI(8)=CF(27)) -------------
                Finding Type: REMINDER COMPUTED FINDING
 ---- End: VA-LAST SERVICE SEPARATION DATE -------------------------------


Function Findings:

 ---- Begin: FF(1)-------------------------------------------------------
              Function String: MRD(4)>MRD(1)
    Expanded Function String:
     MRD(VA-IRAQ/AFGHAN SERVICE NO)>MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)
               Not Found Text: The patient's most recent service separation
                               date is more recent than their last screening
                               - if the patient was discharged after 9/11/01
                               then rescreening is needed after any new
                               period of service.
 ---- End: FF(1) ---------------------------------------------------------


 ---- Begin: FF(2)-------------------------------------------------------
              Function String: MRD(3)>MRD(1)
    Expanded Function String:
     MRD(VA-TBI SCREENING COMPLETED SCREENING RESOLUTIONS)>MRD(
     VA-IRAQ/AFGHAN PERIOD OF SERVICE)
 ---- End: FF(2) ---------------------------------------------------------
```

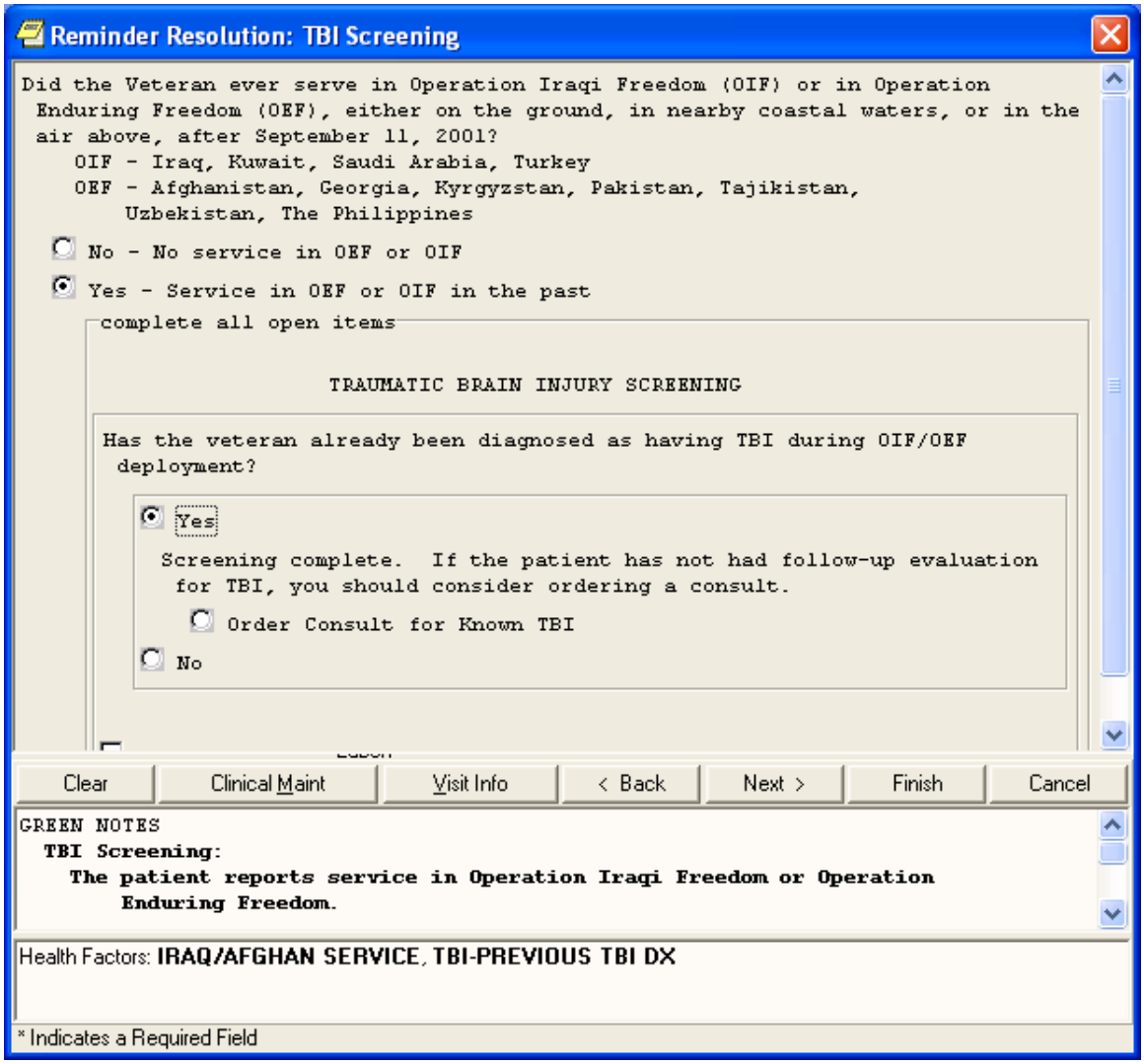
```
  ---- Begin: FF(3)-------------------------------------------------------
               Function String: MRD(1)>MRD(4,5)
      Expanded Function String:
       MRD(VA-IRAQ/AFGHAN PERIOD OF SERVICE)>MRD(VA-IRAQ/AFGHAN SERVICE NO,
       VA-IRAQ/AFGHAN SERVICE)
                    Found Text: The patient's most recent service separation
                                date is more recent than their last screening
                                - if the patient was discharged after 9/11/01
                                then rescreening is needed after any new
                                period of service.
  ---- End: FF(3) --------------------------------------------------------


General Patient Cohort Found Text:
    Patients who served in combat in either Iraq (Operation Iraqi Freedom) or
    in Afghanistan (Operation Enduring Freedom) should be screened for
    Traumatic Brain Injury.

General Patient Cohort Not Found Text:

    Patients who were discharged from the service prior to 9/11/01 or who did
    NOT serve in OEF or OIF do NOT need to be screened for TBI.

Default PATIENT COHORT LOGIC to see if the Reminder applies to a patient:
 (SEX)&(AGE)&FI(1)!FI(2)

Expanded Patient Cohort Logic:
 (SEX)&(AGE)&FI(VA-IRAQ/AFGHAN PERIOD OF SERVICE)!FI(VA-ACTIVE DUTY)

Customized RESOLUTION LOGIC defines findings that resolve the Reminder:
 (FI(4)&FF(1))!(FI(5)&FF(2))!FI(6)!FI(7)

Expanded Resolution Logic:
 (FI(VA-IRAQ/AFGHAN SERVICE NO)&FF(1))!(FI(VA-IRAQ/AFGHAN SERVICE)&
 FF(2))!FI(VA-TBI-PREVIOUS TBI DX)!FI(VA-TBI-PT REFUSAL)


Web Sites:
```

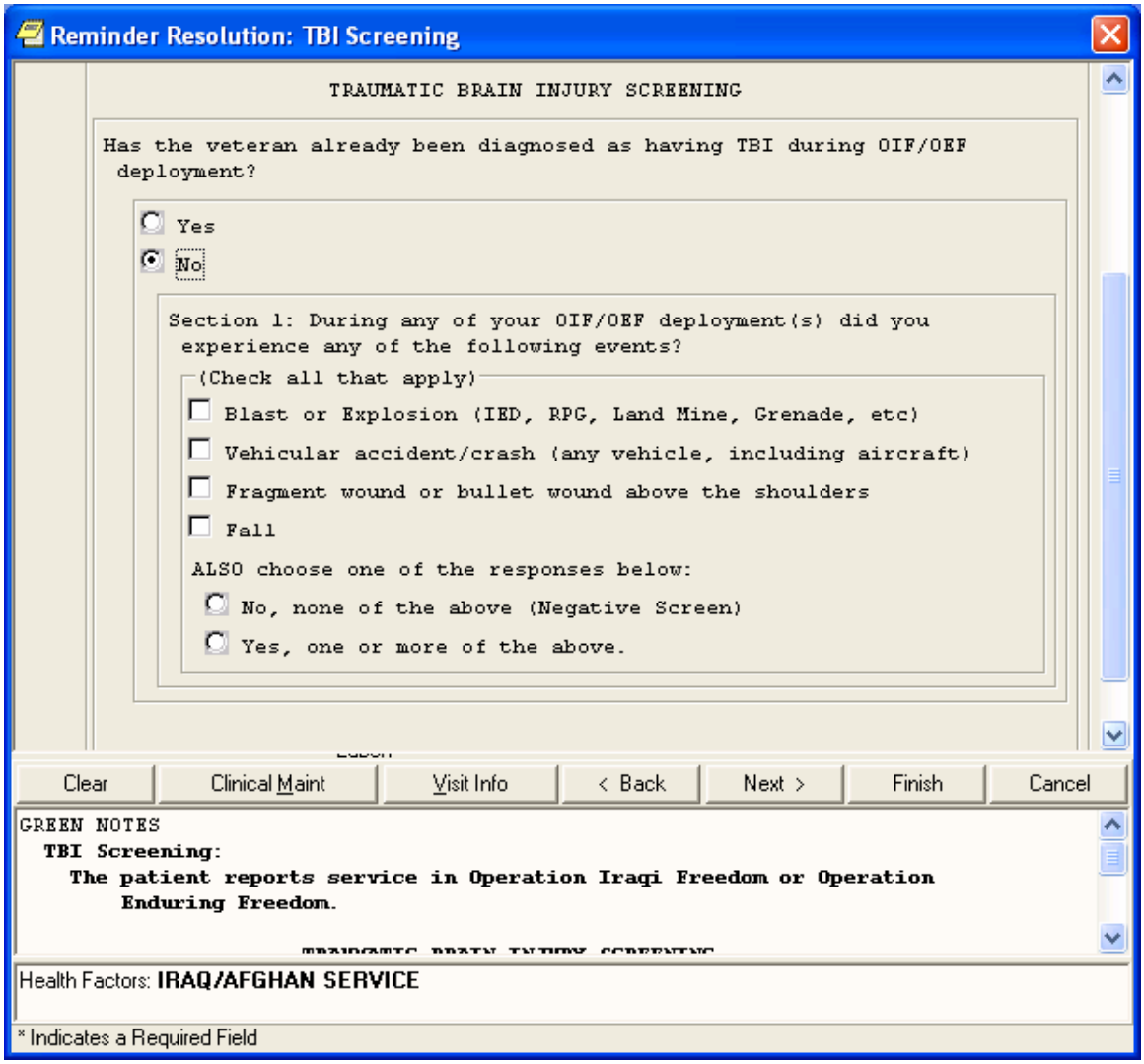
Appendix B: Reminder Dialog Screen Shots

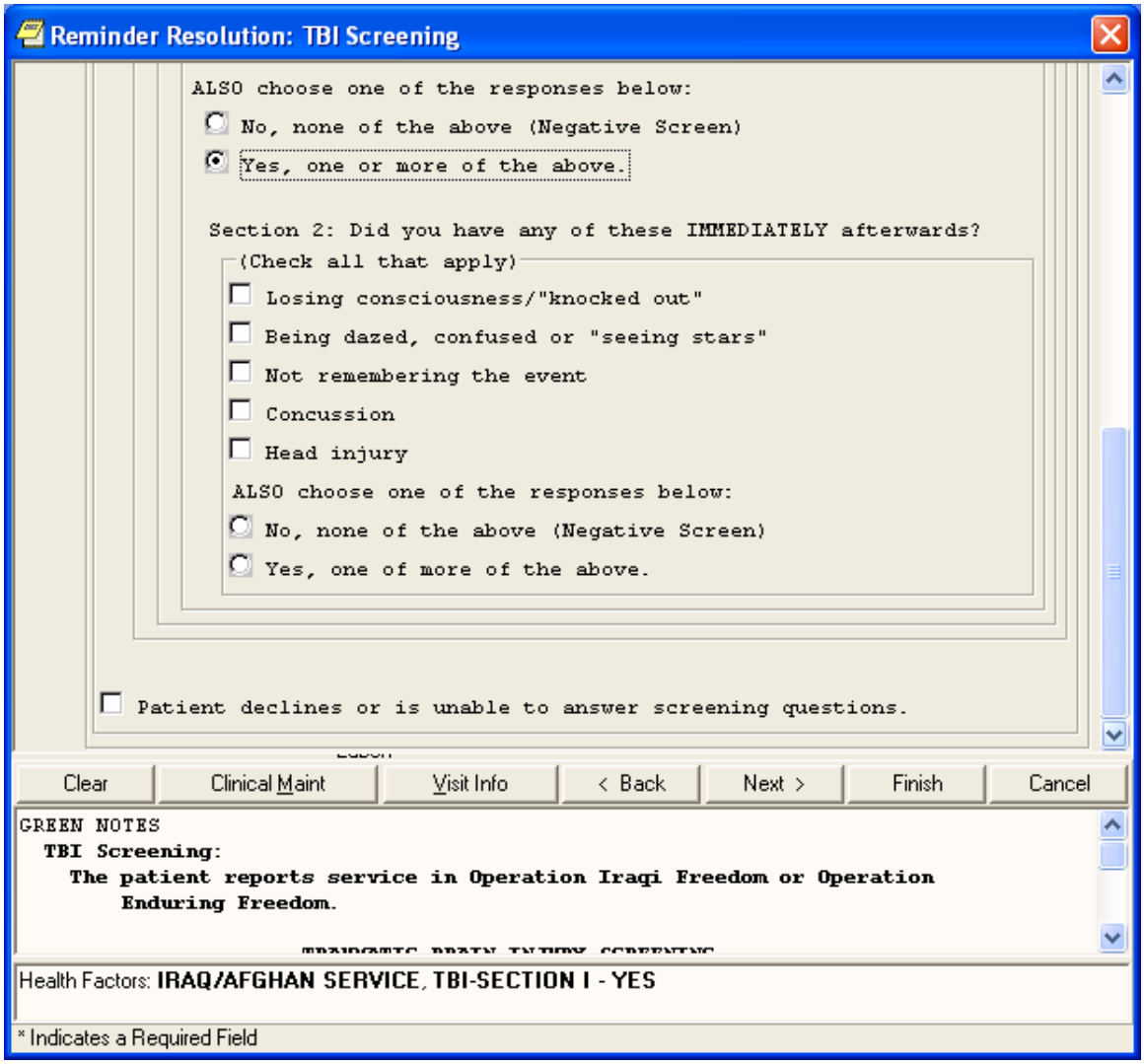
For more detailed information about use of this TBI Screening reminder, please review the PowerPoint at:
http://vista.med.va.gov/reminders/TBI%20SCREENING%20REMINDER%20PPT%203-14-07.ppt




Reminder Resolution: TBI Screening
Did the Veteran ever serve in Operation Iraqi Freedom (OIF) or in Operation Enduring Freedom (OEF), either on the ground, in nearby coastal waters, or in the air above, after September 11, 2001?
OIF - Iraq, Kuwait, Saudi Arabia, Turkey
OEF - Afghanistan, Georgia, Kyrgyzstan, Pakistan, Tajikistan, Uzbekistan, The Philippines
No - No service in OEF or OIF
Yes - Service in OEF or OIF in the past
complete all open items
TRAUMATIC BRAIN INJURY SCREENING
Has the veteran already been diagnosed as having TBI during OIF/OEF deployment?
Yes
No
Patient declines or is unable to answer screening questions.
Clear
Clinical Maint
Visit Info
< Back
Next >
Finish
Cancel
GREEN NOTES
TBI Screening:
The patient reports service in Operation Iraqi Freedom or Operation Enduring Freedom.
Health Factors: IRAQ/AFGHAN SERVICE
* Indicates a Required Field


Reminder Resolution: TBI Screening
Did the Veteran ever serve in Operation Iraqi Freedom (OIF) or in Operation Enduring Freedom (OEF), either on the ground, in nearby coastal waters, or in the air above, after September 11, 2001?
OIF - Iraq, Kuwait, Saudi Arabia, Turkey
OEF - Afghanistan, Georgia, Kyrgyzstan, Pakistan, Tajikistan, Uzbekistan, The Philippines
No - No service in OEF or OIF
Yes - Service in OEF or OIF in the past
complete all open items
TRAUMATIC BRAIN INJURY SCREENING
Has the veteran already been diagnosed as having TBI during OIF/OEF deployment?
Yes
Screening complete. If the patient has not had follow-up evaluation for TBI, you should consider ordering a consult.
Order Consult for Known TBI
No
Clear
Clinical Maint
Visit Info
< Back
Next >
Finish
Cancel
GREEN NOTES
TBI Screening:
The patient reports service in Operation Iraqi Freedom or Operation Enduring Freedom.
Health Factors: IRAQ/AFGHAN SERVICE, TBI-PREVIOUS TBI DX
* Indicates a Required Field


Reminder Resolution: TBI Screening
TRAUMATIC BRAIN INJURY SCREENING
Has the veteran already been diagnosed as having TBI during OIF/OEF deployment?
Yes
No
Section 1: During any of your OIF/OEF deployment(s) did you experience any of the following events?
(Check all that apply)
Blast or Explosion (IED, RPG, Land Mine, Grenade, etc)
Vehicular accident/crash (any vehicle, including aircraft)
Fragment wound or bullet wound above the shoulders
Fall
ALSO choose one of the responses below:
No, none of the above (Negative Screen)
Yes, one or more of the above.
Clear
Clinical Maint
Visit Info
< Back
Next >
Finish
Cancel
GREEN NOTES
TBI Screening:
The patient reports service in Operation Iraqi Freedom or Operation Enduring Freedom.
Health Factors: IRAQ/AFGHAN SERVICE
* Indicates a Required Field


Reminder Resolution: TBI Screening
ALSO choose one of the responses below:
No, none of the above (Negative Screen)
Yes, one or more of the above.
Section 2: Did you have any of these IMMEDIATELY afterwards?
(Check all that apply)
Losing consciousness/"knocked out"
Being dazed, confused or "seeing stars"
Not remembering the event
Concussion
Head injury
ALSO choose one of the responses below:
No, none of the above (Negative Screen)
Yes, one of more of the above.
Patient declines or is unable to answer screening questions.
Clear
Clinical Maint
Visit Info
< Back
Next >
Finish
Cancel
GREEN NOTES
TBI Screening:
The patient reports service in Operation Iraqi Freedom or Operation Enduring Freedom.
Health Factors: IRAQ/AFGHAN SERVICE, TBI-SECTION I - YES
* Indicates a Required Field