

EMBEDDED FRAGMENT REGISTRY (EFR)

Version 4.1



User Manual

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Health Data Systems – Registries**

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Part A. Introduction

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1. Orientation




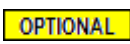
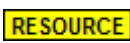
1.1. Typographical Conventions Used in the Manual

Throughout this document, fonts and other conventions are used as shown in the following tables:

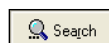
Table 1 – Typographical Conventions

Font	Used for...	Examples:
Blue text, underlined	Hyperlink to another document or Uniform Resource Locator (URL)	REDACTED
Green text, dotted underlining	Hyperlink within this document	See 1.5 below for details.
Courier New	Computer dialog, “DOS” filenames	XYZ.doc
Franklin Gothic Demi	Keyboard keys Web application tab Button names	< F1 > , < Alt > , < L > Administration tab [Delete] button
Microsoft Sans Serif	Software Application names	EFR
	Registry names	Embedded Fragment Registry (EFR)
	Database field names	Mode field
	Report names	Procedures report
	Organization and Agency Names	DoD, VA
Microsoft Sans Serif, 50% gray and italics	Read-only fields	<i>Procedures</i>
(Any font)	Editable text fields	Text fields with light yellow background
Calibri	References to the content area components (panels, fields, labels, etc.)	Insofar as possible, fonts and colors which match what you see on screen: Patient panel.
Times New Roman	Normal text	“... designed for use by designated Registry Coordinators, Managers, and Clinicians....”
Times New Roman Italic	Text emphasis	“It is <i>very</i> important...”
	National and International Standard names	<i>International Statistical Classification of Diseases and Related Health Problems</i>
	Document names	<i>Embedded Fragment Registry User Manual</i>

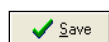
Table 2 – Graphical Conventions

Graphic	Used for...
	Information of particular interest regarding the current subject matter
	A tip or additional information that may be helpful to the user
	A warning concerning the current subject matter
	Indicates an action or process which is optional
	Indicates a resource available either in this document or elsewhere

1.2. Command buttons and Command icons



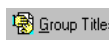
A command button initiates an action. It is a rectangular “3-dimensional” shape with a label that specifies what action will be performed when the button is clicked.



Common examples are shown at left. Command buttons that end with three dots indicate that selecting the command may evoke a subsidiary window.



In some cases, a command icon performs the same function, but appears on the menu bar and has a plain, flat appearance. Examples are shown at left.



In the text of this document, both command button and command icon names appear inside square brackets. *Examples:* **[Search]**, **[Save]**.

1.3. The Embedded Fragment Registry Application

The Embedded Fragment Registry application (EFRA) supports the maintenance of local and national registries for clinical and resource tracking of care for such Veterans. This application allows access to important demographic and clinical data on all [Veterans Healthcare Administration \(VHA\)](#) patients with these conditions, and provides many capabilities to [Veterans Affairs \(VA\)](#) facilities that provide care and treatment to patients with these conditions, including clinical categorization of patients. It also will provide (in a future build) clinical and administrative reports for the [Toxic Embedded Fragment Surveillance Center \(TEFSC\)](#) and local medical center use.

EFRA accesses several other [Veterans Health Information Systems and Technology Architecture \(VistA\)](#) files that contain information regarding other diagnoses, prescriptions, surgical procedures, laboratory tests, radiology exams, patient demographics, hospital admissions, and clinical visits. This access allows identified clinical staff to take advantage of the wealth of data supported through VistA.



Note: Throughout this document...

- The Embedded Fragment Registry is referred both as “EFR” and as “the Registry.”
- “Embedded Fragment Registry Application” and the corresponding acronym EFRA both refer to the [web-based application \(WBA\)](#) described in this document.

1.4. Purpose of the Manual

This User Manual provides instructions for using EFRA, which has been developed in support of the EFR.

1.5. Recommended Users

The EFRA *User Manual* is designed for use by [TEFSC](#) personnel who are responsible for entering and reviewing data on patients whose records are being considered for inclusion in the Registry.

1.6. Hardware Recommendations

Please see the *Registries Installation & Configuration Guide for Web-Based Applications (RICG)* for hardware recommendations.

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2. Background

The VHA is charged with supporting the Presidential Task Force on Returning Global War on Terror Heroes. The Task Force has stated in the *Global War on Terror (GWOT)* report (recommendation P-7)¹ that the VA shall “create an ‘Embedded Fragment’ Surveillance Center and Registry to monitor returning service members who have possibly retained fragments of materials in order to provide early medical intervention.”

The potential for short and long term health effects related to embedded fragments and knowledge of the large number of injuries to soldiers in Iraq resulting in embedded fragments, many composed of hazardous materials, led to the decision that all Veterans with embedded fragments should be identified, screened and monitored by the VA. The TEFSC has been established at the REDACTED to coordinate this effort.

A critical component of the TEFSC medical surveillance program is the development of a Registry providing access to the names, contact information, medical history, biological monitoring data and fragment analyses information for all Veterans who have one or more embedded fragments or who are likely to have embedded fragments. The Registry will be used as a medical surveillance tool by providing a mechanism to identify Veterans with embedded fragments; manage clinical data related to embedded fragments; and develop medical and surgical guidelines that will enable the TEFSC staff and VA clinicians to deliver appropriate medical care to these Veterans.

2.1. Project Scope and Objectives

This document applies to the EFR project OBS-104-05-01-004, defined under the authority of TEFSC. It does not address a broader vision that may apply to a future integration of multiple medical data registries.

In the early stages of planning for TEFSC, one approach considered a gradual implementation of functionality supporting very basic TEFSC operations by making temporary modifications to the existing VistA system. These modifications were limited in scope and temporary in nature and as such have been developed as an interim solution. This interim solution is under consideration for delivery. The development of EFRA described in this document envisions a more mature product to replace the interim solution.

This document describes software features that support TEFSC business operations for a limited scope of roles and responsibilities. In the longer term perspective, another solution will be

¹ *Global War on Terror (GWOT) Report, 4/19/2007* (see http://tspr.vista.med.va.gov/warboard/ProjectDocs/Embedded_Fragments_Registry/GWOT_TF_Report_042407.pdf). Note that even though the term “global war on terror” is now deprecated, this historical document nonetheless forms the basis for the EFR charter.

required to address an expanded scope of business practice to support the broader goals of TEFSC.

2.2. The Embedded Fragment Registry Process

EFRA is a software product which supports the maintenance of local and national registries for clinical and resource tracking of care for Veterans with embedded fragments in their bodies. This application allows access to important demographic and clinical data on all Veterans who may have such injuries, regardless of whether they have been or are currently being seen in a [VHA](#) facility for these injuries. EFRA also offers many capabilities to [VA](#) facilities that provide care and treatment to patients with these conditions, including clinical categorization of patients and, later, automatic transmission of data to the joint [DoD/VA](#) Registry.

The [VA](#) does not currently maintain data about embedded fragments in a computable format. The data is maintained within the [VistA](#) Hospital Information System (HIS) under the [Computerized Patient Record System \(CPRS\)](#) in a non-computable text format gathered from questionnaires (see [Appendix B](#)) completed by patients or clinicians. The data must be extracted manually and entered into EFRA to be later exported to the Registry.

2.2.1. Overview

Basic data about individuals is provided by the data feed from the [VA Corporate Data Warehouse \(CDW\)](#). One purpose of EFRA is to provide a means of making text data “[computable](#).”

EFRA is not installed on your computer workstation. Rather, EFRA runs in a web [browser](#) from a location on the VA [intranet](#). For that reason, EFRA is referred to as a [WBA](#). If you have already used any program which runs in a web browser, especially another Registry program (like the [Traumatic Brain Injury](#) Registry applications), then EFRA will seem familiar to you. Although it is likely that the application will run on many different web browsers, please see [Table 3](#) for the browsers which have been tested and approved for use with EFRA. These browsers have been tested for use with EFRA and are believed to be fully functional. If you encounter unusual problems, please submit a Remedy report and/or consult with your local IRM.



Note: This document does not attempt to explain everything about how to operate in the web browser environment itself; if you need help with using a browser, please contact your supervisor for information about training in browser use.



WARNING: This application will display [personally identifiable information \(PII\)](#). When you have finished using the application, you should *close all instances of your browser* that may be running (not just the one you used to access the application).

If you do not, PII could be compromised if another user accesses your web browser.

Table 3 – VA-Approved Internet Browsers

Browser	Version(s)	Remarks
Microsoft® Internet Explorer	6.x, 7.x	Does not support tabbed browsing
Mozilla® Firefox	3.x	Supports tabbed browsing

2.2.2. Data Receipt and Processing

2.2.2.1. Basic Patient Data

Within EFRA, basic Patient information is provided by the “[back-end](#)” system and is [read only \(RO\)](#). Since the data feed process is designed to produce a single record for each person, there should not be multiple records for the same person, although that could happen. In the future, a process will be available to allow users to place the record into a “pending” status until the duplicates can be resolved. In the meantime, there is a work-around process for handling duplicates; see [11.1.3.6 below](#).

2.2.2.2. The Triage Process

Patients being recommended as candidates for inclusion in the EFR may be referred by local [VA](#) Providers or identified by the [DoD](#). Once the referral records are received by EFR, they go through a process known as “[triage](#).” This process determines whether or not the patient will be admitted to the EFR, and, if so, what follow-up actions are to be taken. More details on triage may be found at [10 below](#).

2.2.2.3. Referral Review Process

A designated reviewer (the Medical Professional) then reviews the record and either approves or returns the record for more information.

- If not approved, the record is returned to the EFR TEFSC Nurse (usually referred to as simply “Nurse”).
- If approved, the patient is confirmed into the Registry. If monitoring or consultation was specified during the triage decision, a [workflow](#) is set up to enable appropriate actions.
- If an ineligibility decision is upheld, the patient is not accepted into the Registry and the record is closed.

2.2.2.4. Other Uses of EFRA

EFRA is also used to make a determination regarding the next steps for obtaining additional information on the patient that will be relevant to the information maintained in the EFR application. EFRA will handle the possibility of a patient being referred multiple times, as well as the actions taken by the Nurse in EFRA when a referral is determined ineligible. EFRA does *not*, however, cover actions the Nurse may take that are not supported by interaction with the system (such as notifying the Local Provider of a decision to identify the patient as ineligible).

2.3. Release History

Changes provided by releases are shown in the following series of tables. Under “**Type**,” “E” indicates an enhancement, “F” a fix, and “M” a modification. Click on the green links immediately below to jump directly to a specific release.

[EFR Release 1.0](#)

[EFR Release 4.0](#)

[EFR Release 5.0](#)

2.3.1. EFR Release 1.0

#	Description	Type
1	Published application for first production use.	E

2.3.2. EFR Release 4.0

#	Description	Type
1	Added information describing the super users' ability to edit interpretation letter	M
2	Added section regarding importing the VTA extract data on the	M
3	Added information pertaining to importing Biomonitoring Lab Results from the Baltimore TEFSC lab.	M
4	Added information describing the super users' ability to unaccept lab results	M
5	Added VTA data export information	M
6	Added information describing the Auto-Triage process	M
7	Updated new Lab Kit screens and information	M

2.3.3. EFR Release 5.0

#	Description	Type
1	Modified the Patients export to include a column to contain the patient's Service Branch. The Service Branch is displayed in the patient information panel at the top of the Lab Orders screen.	M
2	Assess Biomonitoring Questionnaire wizard for performance improvements, including the Fragment Form.	F
3	Completed Fragment Collection Form not retaining data	F
4	Exception occurred when more than 4000 characters are entered for "Reason for Contact" / "Textual Record of the contact Conversation" fields in Add Comment screen	F
5	Added OEF/OIF Indicator, Iraq Afghan Service Health Factor, and Service Separation Date to Referral screens; OEF/OIF and Service Separation Date to Patients export; Added Iraq/Afghan Service health factor as new column on Patients export. Updated all EFR referrals to include Iraq/Afghan Service health factor (just an ETL data conversion exercise)	E
6	Added a new button and a screen to the Lab Tests of Interest Patient look up when a match is present; added a new export for Related Lab Tests	E
7	VTA ICD9 code update	F
8	Added ICD10 capabilities	M
9	Filter by site number (or more than one site number)	M
10	Lookup patient by Lab Request (TEF) number	M
11	Added a DoD Fragment Data message on the Referral screen; New buttons and new screens under Workflows in Patient Lookup for DoD Fragment Data; Display raw data from DoD lab(s); Enter DoD fragment data into EFR; New Export to reflect the frag data entered in 2(b).	E
12	Allow creation of manual referral	E
13	Create referral when only 2nd Clinical Reminder is completed in VistA	M
14	Back button on referral screen loads wrong queue	F

2.4. Obtaining Software and Documentation

There are no EFRA software distributives. Since EFRA is a web-based application, only a [VA-approved web browser](#) (see list at [Appendix D](#)) and access to the VA [intranet](#) is required.

Documentation files are available for downloading from the following Office of Information and Technology Field Offices (OI&T FO) [ANONYMOUS SOFTWARE] directories. [File Transfer Protocol \(FTP\)](#) client software may be useful, although it is possible to download these files using a web browser as well.

OIFO	FTP Address	Directory
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED

The EFRA guides and manuals are distributed as the following set of files:

File Name	Contents	Retrieval Format
EFRA5_0DOC1.ZIP	Zipped DOC distributive, which includes both .PDF and .DOC formats: <ul style="list-style-type: none"> ▶ User Manual (EFRA5_0_UM) 	BINARY
EFRA5_0DOC2.ZIP	<ul style="list-style-type: none"> ▶ Registries Installation & Configuration Guide (REG5_0_IG) ▶ Systems Management Guide (EFRA5_0_SM) 	BINARY

2.5. Documentation on the Intranet

Documentation for this product, including all of the software manuals, is also available in the Health_eVet section of the [VA](#) Software Document Library (VDL). Following national release of the application, the Embedded Fragment Registry documentation may be found at <http://www4.va.gov/vdl/application.asp?appid=187>. The documentation set includes:

- *Registries Installation & Configuration Guide for Web-Based Applications*
- *EFR Systems Management and Security Guide*
- *EFR User Manual* (this document)

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Part B. About the Application

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3. Software Overview



WARNING: This application will display personally identifiable information (PII). When you have finished using the application, you should *close all instances of your browser* that may be running (not just the one you used to access the application). Also be sure to safeguard any screen prints or reports which may contain PII.

If you do not, PII could be compromised if another user accesses your web browser.

3.1. Web-Based Application Elements

This is a web-based application; see Appendix D for a description of typical WBA elements.

3.2. Online Help

Two kinds of online help are or will be available: help for using the browser itself, and help for EFRA.

3.2.1. Browser Help

If you have little or no familiarity with the browser environment, information can be found by accessing the browser's Help file. Depending on the browser you are using and the way it may have been customized, the following methods may be used:



Pressing the **< F1 >** key is the traditional way to access online help. In a web-based application like EFRA, **< F1 >** will provide help about how to operate the *browser* itself.



The help icon in Internet Explorer® is typically found somewhere on the light gray browser menu bars at the top of the screen. How your browser is set up will determine whether or not this icon appears on your browser. The Firefox® browser typically does not display such an icon.

Help Click the Help menu option on the browser's menu bar.

3.2.2. Application Help

The Help icon, available on every screen of the application, opens the EFRA online help file. In most cases, the help offered will be specific to the topic or screen that you were viewing when you clicked the icon. In some cases, however, a specific help topic may not be available, in which case you will see the table of contents for the help file. From that point, you may browse and search for more specific help. The online help file is contained in a series of web pages.




Note: Since EFRA is not a “desktop” application (that is, it does not reside on your computer desktop), pressing **< F1 >** will not open EFRA help. Instead, it will open help for the browser that you are using.



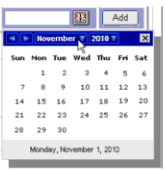
Note: The display you see in the actual help file may vary from the illustration below.

Pop-up Calendars

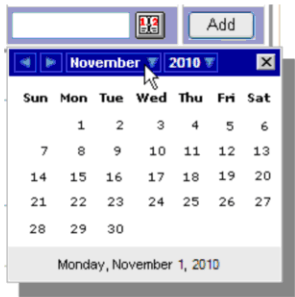
SAMPLE:

Pop-up calendars are used throughout EFRA. Click the calendar icon  next to the entry box to open the “date picker.”

Example:



You can select or change the date displayed on the calendar using the methods described in the following table.

To Select/Change...	Do this:
Month	
Day	Click the actual day of the week on the calendar. Or, use the left and right arrows to move through the days of the month.
Year	Click on the down arrow next to the year.

Navigating the Date Picker Calendar Pop-ups

Using the date selection pop-up calendars (known as “date pickers”) may be somewhat problematic for those using screen readers such as [JAWS](#). The pop-up date picker calendar is essentially a graphic, rather than text, feature that is designed to be navigated using the mouse. There are no keyboard equivalents in this application. You can, however, simply type a properly-formatted date into the text box.

[Table of Contents](#)

Figure 1 – Sample Online Help Page

3.3. Accessibility Features

Standard web browser keyboard shortcuts and application design elements help to make EFRA accessible to a wide range of users, including those with limited dexterity, low vision, or other disabilities.

RESOURCE For a complete list of keyboard shortcuts, see [Appendix A.](#)

RESOURCE For more information about accessibility features, see [Appendix B.](#)

3.4. Date of Death and Deceased Check

Some Registry programs perform “deceased checks” of files for each patient in the local registry to validate whether or not the patient is deceased. Although EFRA does not perform such a check, it does capture the Date of Death, if that information is entered in the source files. In order for the referral to be sent to EFRA, the patient is screened via the two [Operation Enduring Freedom/Operation Iraqi Freedom](#) (OEF/OIF) clinical reminders in [VistA](#). It seems unlikely that a new referral would be received for a deceased patient. At present, there is nothing in the system to prevent such a record from being edited.

3.5. Screen Areas and Functions

While there are some differences in screen appearance from one task area to another, the general layout is as shown below; **RED BOXES** indicate the parts of the screen. Please take a few moments to familiarize yourself with the various screen areas before you begin.

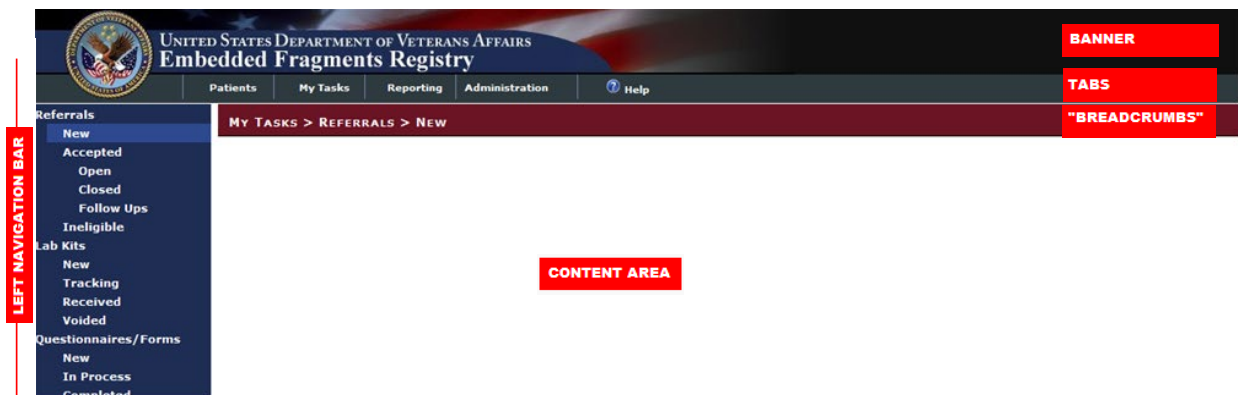


Figure 2 – Screen Areas

3.5.1. Banner Area

Across the top of the screen is the **BANNER AREA**. It displays the [VA](#) logo and the Registry name.

3.5.2. Tabs (Common Navigation Area)

The **TABS** immediately below the application title provide a **COMMON NAVIGATION AREA** that you will see in all Registry web-based applications. These elements allow you to select the type of task to be performed.

- **Patients:** To view and edit patient records. **MORE INFORMATION:** [18 below](#)
- **My Tasks:** To see a list of tasks assigned to you. **MORE INFORMATION:** [10 below](#)
- **Administration:** To create user accounts and assign roles. Only visible to people who have administrative credentials. **MORE INFORMATION:** [19 below](#)
- **Help:** Complete online help is not yet available for EFRA, and although you may see the help icon and the tab label in the initial build of the application, only a “placeholder” help page may be available. Fully functional help is expected to be available in Build 2.



Note: The left-right order of tabs may be different from that depicted in this document. EFRA has adopted a “patient-centric” approach, and the PATIENT tab will be the primary tab for most EFRA users. Regardless of the display order and which tab is set as the default, the functionality for all tabs will, however, be essentially the same as discussed in this document.

3.5.3. Breadcrumbs

Note the so-called **BREADCRUMBS** which appear below the tabs (showing, in this case, MY TASKS > REFERRALS > NEW); this shows you where you are within the application, how you got there, and the current page's logical parent pages in the information hierarchy. The breadcrumbs *cannot* be used for navigation.



Figure 3 – Breadcrumbs

3.5.4. Left Navigation Bar

Once a **TAB** is selected, the available tasks for that tab are displayed in the **LEFT NAVIGATION BAR** at the far left of the screen.

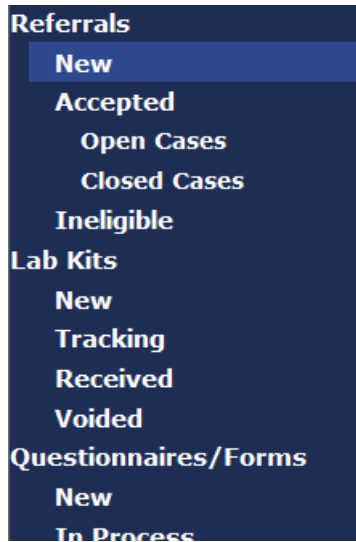


Figure 4 – Left Navigation Bar

3.5.5. Content Area

The **CONTENT AREA** displays a number of web parts, specific to the Registry and specific to which common navigation item was selected. Example: In EFRA, this screen could show a list of patients. The contents of this area will change depending on which task you have selected. In some cases, the area expands to allow display room for more information, and the **LEFT NAVIGATION BAR** temporarily disappears.

For reference purposes, the content area is typically composed of panels (and sometimes subpanels within those panels), the various data fields, and labels. Please see [Figure 5](#).

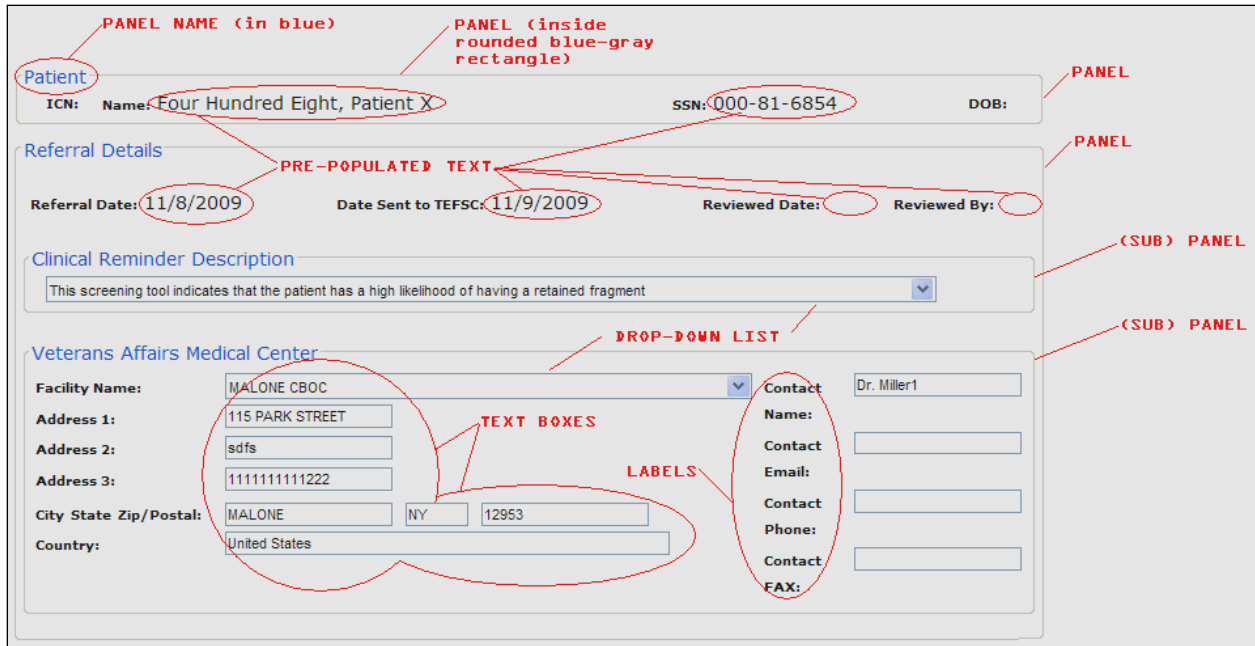


Figure 5 – Typical Content Area Components

Panel contents are presented inside blue-gray borders with rounded corners. Here, for example, is a typical Patient panel. In this sample, the panel outline has been darkened somewhat so that it shows up in print; on the screen, the panel outline color may be a lighter or darker shade, depending on your monitor settings:



Figure 6 – Typical Patient Panel

Insofar as possible, text references to the content area components will be shown with colors and fonts that match what you see on screen (for example, the **Patient** panel as shown above).

4. User Roles

Your ability to use various features of EFRA will depend upon your assigned role. Some choices will not be available to you if your role does not call for that particular task. You may be assigned more than one role. Roles are assigned by a member of the **EFR TEFSC Administration Staff**. The available roles are:

- **EFR TEFSC Nurse:** The EFR TEFSC Nurse (or TEFSC Nurse, or Nurse) is responsible for interaction with [VA](#) providers and patients to assist with information gathering required to make Registry population determinations and coordination of clinical consultations. The Nurse is also responsible for reviewing new referrals and making the preliminary decision on whether a patient should be admitted to the Registry, and what follow-up action is required. This is the process called [triage](#).
- **EFR Data Entry Personnel:** When biomonitoring specimen collection kits are returned to TEFSC, they contain a completed biomonitoring questionnaire; when fragment collection kits are returned to TEFSC they contain a completed fragment specimen collection form. The EFR Data Entry Personnel (or Data Entry Personnel, or Data Entry) record information from the forms into EFRA. In addition, if they learn of changes to alternate contact information from the form received, they may edit form details and add, edit, or delete alternate contact information associated with the patient.
- **EFR Administration Staff:** The EFR Administration Staff (or Administration Staff, or Admin Staff, or Administrator) is responsible for administrative activities associated with placing kit orders with third party vendors for specimens and fragments. The Administrator will also manage kit tracking and sample tracking. Finally, Administrator can assign or edit user roles.
- **EFR TEFSC Coordinator (Super User):** The EFR TEFSC Coordinator (or TEFSC Coordinator, or Coordinator) is ultimately responsible for following EFR patients through their lifecycle of involvement with [TEFSC](#). The Coordinator is responsible for keeping the TEFSC Providers informed of status of cases. Another responsibility of the Coordinator is to perform population level surveillance using data captured in the EFR. The Coordinator also has the capability to conduct the triage process. As a Super User, this role also provides assistance to other users when needed.
- **EFR TEFSC Provider:** EFR TEFSC Providers (or TEFSC Providers) are the physicians located at the [TEFSC](#). They act as subject matter experts on the standards of care as they apply to Veterans who have embedded fragments. Through analysis of EFR data they develop handbooks and directives that convey care guidelines to the Local [VA](#) Providers at VAMC facilities. TEFSC Providers also interpret lab results for individual patients to provide treatment recommendations to the Local VA Providers. TEFSC Providers also have the capability to conduct the triage process.

Table 4 shows the tasks available for various roles.

Table 4 – Tasks by Role

Role	Access
TEFSC Nurse	<ul style="list-style-type: none"> • Referrals • Contact Log (TEFSC Nurse cannot delete a contact log entry) • Patients • Questionnaires/Forms • Lab Results • Interpretation & Follow Up
TEFSC Data Entry Personnel	<ul style="list-style-type: none"> • Lab Kits • Lab Orders • Lab Results • Contact Log (Admin Staff cannot delete a contact log entry) • Patients • Interpretation & Follow Up (Interpreted – printing)
Admin Staff (aka TEFSC Administrator)	<ul style="list-style-type: none"> • Lab Kits • Lab Orders • Lab Results • Contact Log (Admin Staff cannot delete a contact log entry) • Patients • Interpretation & Follow Up (Interpreted – printing)
TEFSC Provider	<ul style="list-style-type: none"> • Referrals • Interpretation & Follow Up • Contact Log (TEFSC Provider cannot delete a contact log entry) • Patients • Questionnaires/Forms
TEFSC Coordinator (Super user)	<ul style="list-style-type: none"> • All EFR application functionality, including Administration functions and Reports



Tip: If you do not know (or cannot remember) your assigned role(s), look at the bottom of any screen. You will see your user name plus the roles assigned to you:


Current User: First Last name

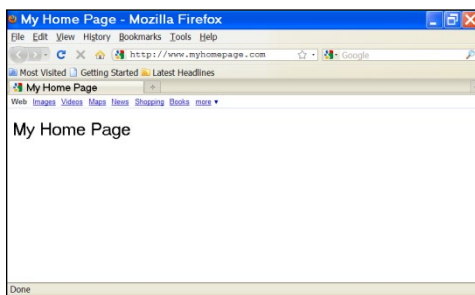
Role(s): EFR TEFSC COORDINATOR (Super User), EFR Admin Staff, EFR TEFSC PROVIDER, EFR TEFSC NURSE, EFR Data Entry Personnel

5. Software Details

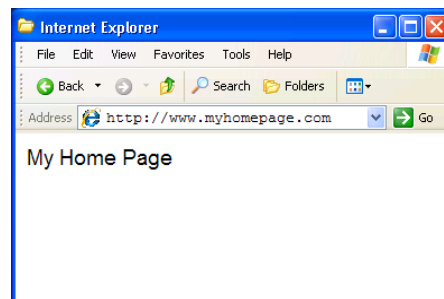
5.1. Starting the Application

To start EFRA, follow these steps:

1. Make sure that you are logged on to Windows® and the [VA](#) network using the appropriate identity.
2.  Start your web browser. The browser opens the site that you have designated as your home page.



Firefox



Internet Explorer

3. In the address bar, enter the web address of the application page, which will be provided to you when you are designated as an authorized user.

5.2. Logging In

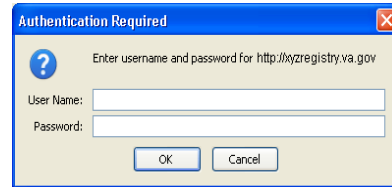
Many registry-associated programs, including EFRA, use Windows authentication provided by [Active Directory \(AD\)](#). Your user identity is detected at the time of initial login to the [VA](#) network, so a separate login or authentication is not normally required to run EFRA. Security messages will advise you if you are not logged in, have insufficient privileges, etc. This means that if you are already logged into your usual domain, the web page which provides EFRA should load automatically without challenge. You should be able to open your web browser, enter the [Uniform Resource Locator \(URL\)](#), and see EFRA run automatically.

If you are logged in and you see either of the two “challenge” pop-up windows, or have other questions related to AD, please contact your IRM for assistance.

Internet Explorer



Firefox



The authentication of your EFRA role(s), and your privileges, takes place behind the scenes. Following successful authentication, you will be re-directed to EFRA.

5.3. Default Registry Screen

After you enter the application URL and log in (if required), your default EFR screen opens.

EFR incorporates a “patient-centric” approach, and it also includes a reminder capability to alert you to upcoming actions to be taken. The first screen you see will normally be the PATIENTS LOOKUP screen (Figure 7). If you have reminders stored in the system, you will first see the FOLLOW UP EVENT REMINDERS screen (see 7.4 below).

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

Patient Lookup PATIENTS > PATIENTS LOOKUP

Lookup Patient

SSN:

First Name:

Last Name:

ICN:

Search

Current User: EFRUser One
Role(s): EFR TEFSO COORDINATOR (Super User), EFR Admin Staff, EFR TEFSO PROVIDER, EFR TEFSO NURSE, EFR Data Entry Personnel
8/12/2010 8:36:06 AM

Figure 7 – Patients Lookup Screen

From any screen, however, you can also jump to other sections of the program by using the TABS and the LEFT NAVIGATION BAR (see 3.5 above).

6. Patients tab

From any area of the application, you can search for a patient already in the Registry. Click on the Patients tab; the PATIENTS > PATIENTS LOOKUP screen appears and displays the [Lookup Patient](#) panel.

The screenshot shows the 'PATIENTS > PATIENTS LOOKUP' interface. At the top, there is a header with the United States Department of Veterans Affairs logo and the text 'Embedded Fragments Registry'. Below the header is a navigation bar with tabs for 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. The main content area is titled 'PATIENTS > PATIENTS LOOKUP' and contains a 'Lookup Patient' form. The form has four input fields: 'SSN:', 'First Name:', 'Last Name:', and 'ICN:'. Below these fields is a 'Search' button.

Figure 8 – Patients > Patients Lookup

You can search using the patient’s social security number (SSN), patient’s First and/or Last Name, Integration Control Number (ICN), or a combination. EFRA uses “contains” search logic. *Do not* use “wildcard” indicators like “*” or “?” in your search.

Here we enter the Last Name and click on **[Search]** (or, you may press the **< Enter >** key). Note how the text entry box background changes to light yellow when you start entering text.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

My Tasks Patients Administration

Patient Lookup PATIENTS > PATIENTS LOOKUP

Lookup Patient

SSN:

First Name:

Last Name:

ICN:

Search

Current User: One EFRUser
Role(s): EFR Data Entry Personnel,
2/2/2010 10:34:15 AM

Figure 9 – Patient Search Pane

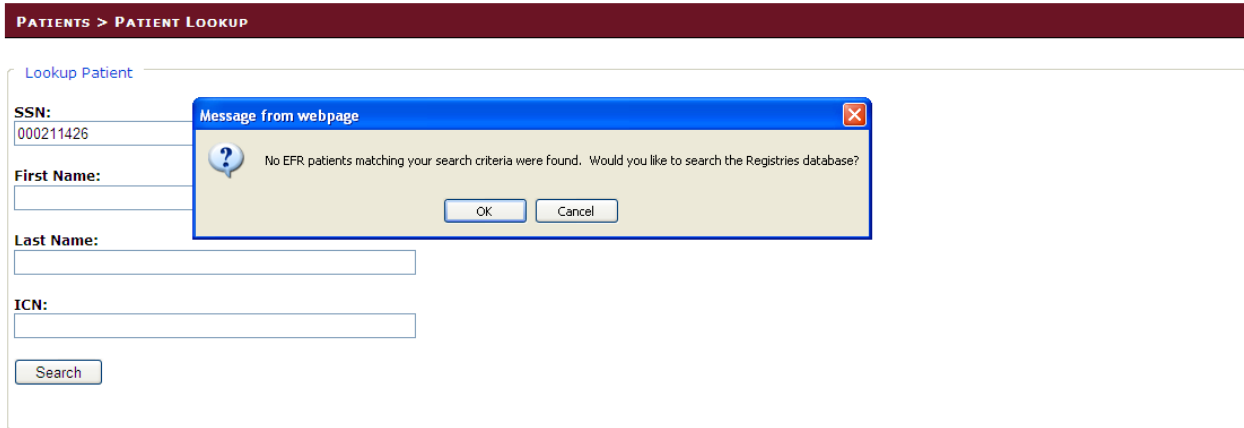
INCLUDES:

- **Lookup Patient** [all text boxes]
 - SSN
 - First Name
 - Last Name
 - ICN

When you have entered the data, click the **[Search]** button.

6.1. Patient Not Found

If a patient is not found using your search criteria, you will see this result:



The screenshot shows the 'PATIENTS > PATIENT LOOKUP' interface. The 'Lookup Patient' form includes fields for SSN (000211426), First Name, Last Name, and ICN, along with a 'Search' button. A modal dialog box titled 'Message from webpage' is overlaid on the form, containing a question mark icon and the text: 'No EFR patients matching your search criteria were found. Would you like to search the Registries database?'. The dialog has 'OK' and 'Cancel' buttons.

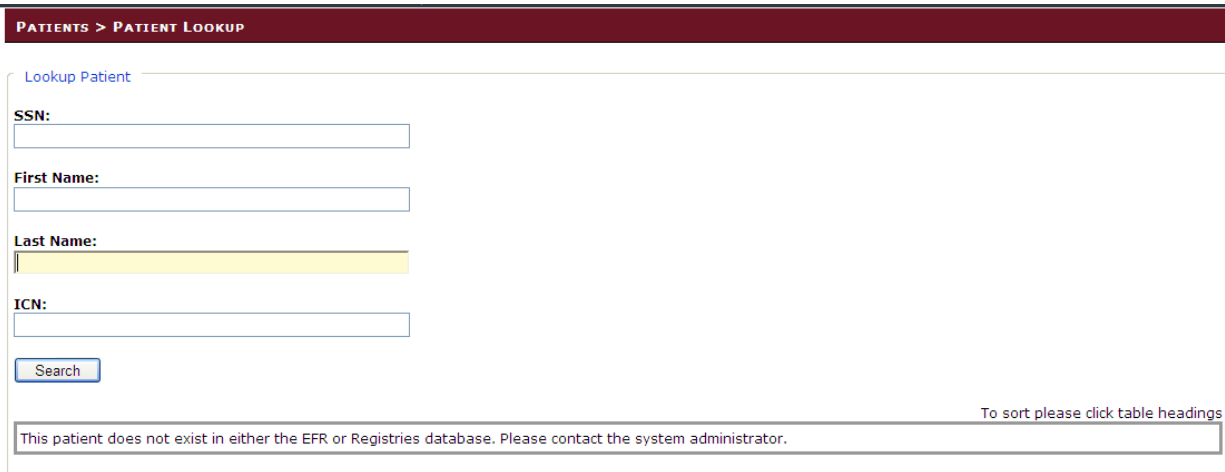
Figure 10 – No EFR Patients Found

Your options are:

Click **[OK]** to continue searching the Registries database for the patient record.

Click **[Cancel]** to cancel the search and look for another patient

If the patient is not in the Registries database, EFR will display a notification:



The screenshot shows the 'PATIENTS > PATIENT LOOKUP' interface. The 'Lookup Patient' form includes fields for SSN, First Name, Last Name, and ICN, along with a 'Search' button. A notification message is displayed at the bottom of the form: 'This patient does not exist in either the EFR or Registries database. Please contact the system administrator.' A link 'To sort please click table headings' is visible in the top right corner of the notification area.

Figure 11 – Patient Not Found

Enter new search information and click **[Search]** to search for a new patient. If a patient is found in the Registry that needs to be added to EFR, refer to [Section 6.3 6.3Manual Referral](#).

6.2. Patient Search Results

In this case, we find several patients:

SSN	Full Name	Site Number	Facility	City				
000286810	Two, Patient Y	556BU	NORTH CHICAGO (DOM)	San Francisco	Patient Information	Workflows	Related Diagnoses	Lab Tests
000727112	Four, Patient X	546GG	CORAL SPRINGS CBOC	New York	Patient Information	Workflows	Related Diagnoses	Lab Tests
000225827	Five, Patient X	501PC	ALBUQUERQUE CWT/TR	Los Angeles	Patient Information	Workflows	Related Diagnoses	Lab Tests
000072788	Six Jr, Patient X	528GK	LOCKPORT	Seattle	Patient Information	Workflows	Related Diagnoses	Lab Tests
000260818	Seven PhD, Patient X	666GC	RIVERTON, WY CBOC	Chicago	Patient Information	Workflows	Related Diagnoses	Lab Tests
000737718	Twenty One, Patient X	523A5	BROCKTON VAMC	Tampa	Patient Information	Workflows	Related Diagnoses	Lab Tests
000081181	Twenty Two, Patient X	546GC	HOMESTEAD CBOC	Los Angeles	Patient Information	Workflows	Related Diagnoses	Lab Tests
000673804	Twenty Five, Patient X	5449AA	COLUMBIA, SC NURSING HOME	Boston	Patient Information	Workflows	Related Diagnoses	Lab Tests
000407865	Twenty Six, Patient X	657GA	BELLEVILLE IL CBOC	Boston	Patient Information	Workflows	Related Diagnoses	Lab Tests
000240043	Twenty Nine, Patient X	691GD	BAKERSFIELD	San Francisco	Patient Information	Workflows	Related Diagnoses	Lab Tests

Figure 12 – Patient Search Results

To view complete information for a patient, click on one of the selection buttons at the right of the row listing the patient. Buttons will be shown as available (that is, not grayed-out) only if there are any such records for the patient.

[Patient Information](#)

To see information about the patient, click the **[Patient Information]** button. **MORE INFORMATION:** [6.2.1 below](#)

[Workflows](#)

To see the [workflows](#) associated with this patient, click the **[Workflows]** button. **MORE INFORMATION:** [6.2.2 below](#)

[Related Diagnoses](#)

The **[Related Diagnoses]** button is shown available only if there are any such diagnoses for the patient. **MORE INFORMATION:** [6.2.2.4 below](#)

[Lab Tests](#)

The **[Lab Tests]** button is shown available only if there are any lab tests of interest for the patient. **MORE INFORMATION:** [6.2.4 below](#)

6.2.1. Patient Information

All available patient data is displayed. Note that the data in the [Patient Information](#) panel (which was brought over from [VistA](#)) is read-only here.

The screenshot shows the 'Patient Information' page for 'ONE HUNDRED FORTY NINE, PATIENT'. The page is part of the 'Embedded Fragments Registry' within the 'UNITED STATES DEPARTMENT OF VETERANS AFFAIRS'. The breadcrumb trail is 'PATIENTS > PATIENT LOOKUP > ONE HUNDRED FORTY NINE, PATIENT'. The left sidebar contains 'Patient Lookup', 'Patient Information', 'Workflows', and 'Related Disagoses'. The main content area is divided into two sections: 'Patient Information' and 'Patient Alternate Contact Information'. The 'Patient Information' section displays the following data: ICN: (blank), SSN: 000381574, Full Name: One Hundred Forty Nine, Patient X, Home VAMC: (VISN 9) (581GA) EK OUTPATIENT CLINIC, Gender: Male, Race: White, Marital Status: Widowed, Address: 771 Main St, City: San Diego, State: CA, Postal Code: 00600, Country: US, Birth Date: 4/27/1955 12:14:13 PM, Death Date: (blank), Ethnicity: Declined to answer, Home Phone: 111-555-0000, and Work Phone: 222-555-1111. The 'Patient Alternate Contact Information' section contains several empty input fields for 'Alternate Street Address 1-3', 'Alternate City', 'Alternate State', 'Alternate Zip', 'Alternate Country', 'Alternate Home Telephone', 'Alternate Work Telephone', 'Alternate Mobile Telephone', and 'Email Address'. There are also radio buttons for 'Preferred Alternate Telephone Number' with options for 'Home', 'Work', and 'Mobile'. At the bottom of the form are 'Save' and 'Cancel' buttons. The footer of the page shows 'Current User: EFRUser One', 'Role(s): EFR TEFSC COORDINATOR (Super User), EFR Admin Staff, EFR TEFSC PROVIDER, EFR TEFSC NURSE, EFR Data Entry Personnel', and the timestamp '8/16/2010 5:30:37 PM'.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

PATIENTS > PATIENT LOOKUP > ONE HUNDRED FORTY NINE, PATIENT

Patient Information

ICN: SSN: 000381574

Full Name: One Hundred Forty Nine, Patient X
Home VAMC: (VISN 9) (581GA) EK OUTPATIENT CLINIC
Gender: Male Birth Date: 4/27/1955 12:14:13 PM
Race: White Death Date:
Marital Status: Widowed Ethnicity: Declined to answer
Address: 771 Main St City: San Diego
Address Line 2: State: CA
Address Line 3: Postal Code: 00600
County: Country: US

Home Phone: 111-555-0000 Work Phone: 222-555-1111

Patient Alternate Contact Information

Alternate Street Address 1:
Alternate Street Address 2:
Alternate Street Address 3:
Alternate City:
Alternate State:
Alternate Zip:
Alternate Country:
Alternate Home Telephone:
Alternate Work Telephone:
Alternate Mobile Telephone:

Preferred Alternate Telephone Number
 Home Work Mobile

Email Address:

Save Cancel

Current User: EFRUser One
Role(s): EFR TEFSC COORDINATOR (Super User), EFR Admin Staff, EFR TEFSC PROVIDER, EFR TEFSC NURSE, EFR Data Entry Personnel
8/16/2010 5:30:37 PM

Figure 13 – Patient Selected – Patient Information Shown

INCLUDES:

- **Patient Information** [all pre-filled text]
 - *ICN* | *SSN*
 - *Full Name*
 - *Home VAMC*
 - *Gender* | *Birth Date*
 - *Race* | *Death Date*
 - *Marital Status* | *Ethnicity*
 - *Address* | *City*
 - *Address Line 2* | *State*
 - *Address Line 3* | *Postal Code*
 - *County* | *Country*
 - *Home Phone* | *Work Phone*

- **Patient Alternate Contact Information** [all text fields except as noted]

You may enter data in the **Patient Alternative Contact Information** panel [all text boxes unless otherwise noted]

- Alternate Street Address 1 | 2 | 3
- Alternate City
- Alternate State
- Alternate ZIP
- Alternate Country
- Alternate Home Telephone
- Alternate Work Telephone
- Alternate Mobile Telephone
 - **Preferred Alternate Telephone Number** [○ radio buttons; select one]
 - Home
 - Work
 - Mobile
- Email Address

Again, note that the text field turns light yellow when you begin to enter text:

Patient Alternate Contact Information

Alternate Street Address 1:

Alternate Street Address 2:

Alternate Street Address 3:

Alternate City:

Alternate State:

Alternate Zip:

Alternate Country:

Alternate Home Telephone:

Alternate Work Telephone:

Alternate Mobile Telephone:

Preferred Alternate Telephone Number

Home Work Mobile

Email Address:

Save Cancel

Current User: One EFRUser
 Role(s): EFR TEFSC COORDINATOR (Super User), EFR Admin Staff, EFR TEFSC PROVIDER, EFR TEFSC NURSE, EFR Data Entry Personnel

Figure 14 – Patient Alternate Contact Information (Showing New Data Entry)

Click [**Cancel**] to discard any changes you have made, or to exit without making any changes. You return to the referral record screen.

Or, click the [**Save**] button to save the data you entered. A popup is displayed:

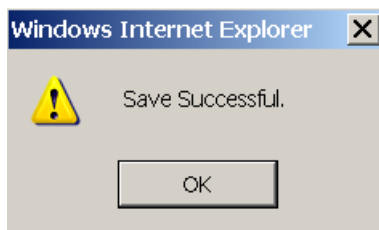


Figure 15 – Save Successful Popup Message

Click [**OK**] to dismiss the popup.

The screen now shows the updates you made in the appropriate fields. Make other changes as needed and click [**Save**]. When you have made all desired changes, use the **LEFT NAVIGATION BAR** or the **TABS** to continue with other tasks.

6.2.2. Workflow Information

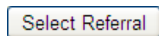
When you select a workflow record for a patient, you see the list of referrals as well as information about contact entries and workflows (if any) associated with that patient:

6.2.2.1. No Contact Entries, No Workflows, No DoD Fragment Data

Here is a referral with no contact entries, no workflows:



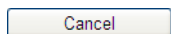
Figure 16 – Referral Record (No Contacts, Workflows, or DoD Fragment Data)



To see the referral record, click the **[Select Referral]** button. **MORE INFORMATION:** [11.1.3 below.](#)

Since there are no contact entries or DoD Fragment data, the **[Select Contact Entries]**, **[Display Source DoD Fragment Data]**, and **[Enter/View DoD Fragment Data]** buttons respectively are unavailable (grayed out).

If Contact Entries are present, refer to [Section 11.1.3.4 below.](#) If DoD Fragment Data is present, refer to [Section 6.2.2.4 below.](#)



Click **[Cancel]** to return to the patient search results.

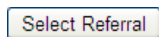
6.2.2.2. No Contact Entries, One Workflow

Here we see a referral with no contact entries and one workflow:

The screenshot shows the 'Embedded Fragments Registry' interface for the 'United States Department of Veterans Affairs'. The breadcrumb trail indicates the path: PATIENTS > PATIENT LOOKUP > WORKFLOWS > ONE HUNDRED FIFTY EIGHT, PATIENT X. The main content area displays 'Referral # 2486 (New)' and states 'This referral has no contact entries.' Below this, there are four buttons: 'Select Referral', 'Select Contact Entries', 'Display Source DoD Fragment Data', and 'Enter / View DoD Fragment Data'. The 'Select Contact Entries', 'Display Source DoD Fragment Data', and 'Enter / View DoD Fragment Data' buttons are grayed out. A table titled 'Fragment Analysis # 2474 (In-Process)' is shown below the buttons. The table has four columns: Stage, Status, Last Updated, and a 'Select' button. The rows are: Lab Kit (Received, 3/28/2011), Form (N/A, N/A), Lab Order (Closed, 9/16/2011), Lab Result (Accepted, 12/15/2011), and Interpretation & Diagnosis (New, 12/15/2011). A 'Cancel' button is located at the bottom left of the main content area.

Stage	Status	Last Updated	
Lab Kit	Received	3/28/2011	Select
Form	N/A	N/A	
Lab Order	Closed	9/16/2011	Select
Lab Result	Accepted	12/15/2011	Select
Interpretation & Diagnosis	New	12/15/2011	Select

Figure 17 – Referral Record (Contacts / Workflows)



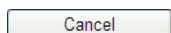
To see the referral record, click the **[Select Referral]** button. **MORE INFORMATION:** [11.1.3 below](#).

Since there are no contact entries or DoD Fragment data, the **[Select Contact Entries]**, **[Display Source DoD Fragment Data]**, and **[Enter/View DoD Fragment Data]** buttons respectively are unavailable (grayed out).

If Contact Entries are present, refer to [Section 11.1.3.4 below](#). If DoD Fragment Data is present, refer to [Section 6.2.2.4 below](#).



Click **[Select]** to view the associated lab kits (**MORE INFORMATION:** [Section 13 below](#)), Questionnaires/Forms (**MORE INFORMATION:** [Section 14 below](#)), lab orders (**MORE INFORMATION:** [Section 0 below](#)), Lab Results (**MORE INFORMATION:** [Section 16 below](#)) and/or Interpretation & Diagnosis (**MORE INFORMATION:** [Section 17 below](#)).



Click **[Cancel]** to return to the patient search results.

6.2.2.3. Contact Entries, Multiple Workflows

And here is a referral which has reminders (see [7.4 below](#)) as well as both contacts and workflows:

The screenshot shows the 'Embedded Fragments Registry' interface for a patient. The breadcrumb trail is 'PATIENTS > PATIENT LOOKUP > WORKFLOWS > ONE HUNDRED EIGHTY SIX, PATIENT X'. The main content area displays a referral record for 'Referral # 1823 (Open)'. Below the referral summary, there are four tables, each representing a different biological monitoring workflow. Each table has columns for 'Stage', 'Status', and 'Last Updated', along with a 'Select' button for each row.

Stage	Status	Last Updated	
Lab Kit	Received	8/10/2011	Select
Questionnaire	Completed	8/10/2011	Select
Lab Order	Closed	9/20/2011	Select
Lab Result	Accepted	12/19/2011	Select
Interpretation & Diagnosis	In Process	12/19/2011	Select

Stage	Status	Last Updated	
Lab Kit	Received	5/11/2011	Select
Questionnaire	N/A	N/A	
Lab Order	Closed	4/14/2011	Select
Lab Result	Accepted	4/14/2011	Select
Interpretation & Diagnosis	Interpreted	7/5/2011	Select

Stage	Status	Last Updated	
Lab Kit	Received	7/27/2011	Select
Questionnaire	N/A	N/A	
Lab Order	Closed	7/27/2011	Select
Lab Result	Accepted	7/27/2011	Select
Interpretation & Diagnosis	Interpreted	7/27/2011	Select

Stage	Status	Last Updated	
Lab Kit	Received	7/27/2011	Select
Questionnaire	N/A	N/A	
Lab Order	Closed	7/27/2011	Select
Lab Result	Accepted	7/27/2011	Select
Interpretation & Diagnosis	Interpreted	7/27/2011	Select

Figure 18 – Referral Record (Contacts / Workflows; No DoD Fragment Data)

To see the referral record, click the **[Select Referral]** button. **MORE INFORMATION:** [11.1.3 below](#).

Select Contact Entries

Click the **[Select Contact Entries]** to view the Contact Entries. **MORE INFORMATION:** [11.1.3.4 below](#)

Since there is no DoD Fragment data, the **[Display Source DoD Fragment Data]** and **[Enter/View DoD Fragment Data]** buttons respectively are unavailable (grayed out).

If DoD Fragment Data is present, refer to [Section 6.2.2.4 below](#).

Select

Click **[Select]** to view the associated lab kits (**MORE INFORMATION:** [Section 13 below](#)), Questionnaires/Forms (**MORE INFORMATION:** [Section 14 below](#)), lab orders (**MORE INFORMATION:** [Section 0 below](#)), Lab Results (**MORE INFORMATION:** [Section 16 below](#)) and/or Interpretation & Diagnosis (**MORE INFORMATION:** [Section 17 below](#)).

Cancel

Click **[Cancel]** to return to the patient search results.

6.2.2.4. DoD Fragment Data

When DoD Fragment data is present for a patient, the **[Display Source DoD Fragment Data]** and the **[Enter/View DoD Fragment Data]** are highlighted.

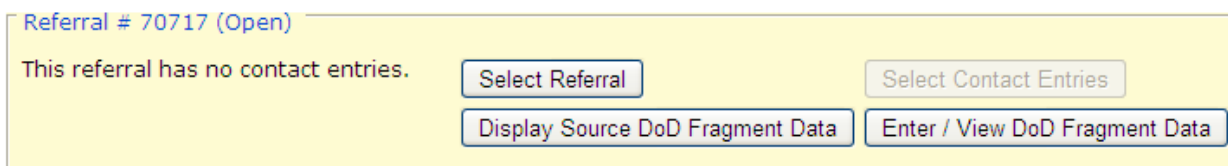


Figure 19 – DoD Data Present

Opening DoD Fragment Source Data

DoD Fragment data will need to be added manually from the source spreadsheet.

Clicking **[Display Source DoD Fragment Data]** displays all extracted DoD source data:



Figure 20 – DoD Source Data

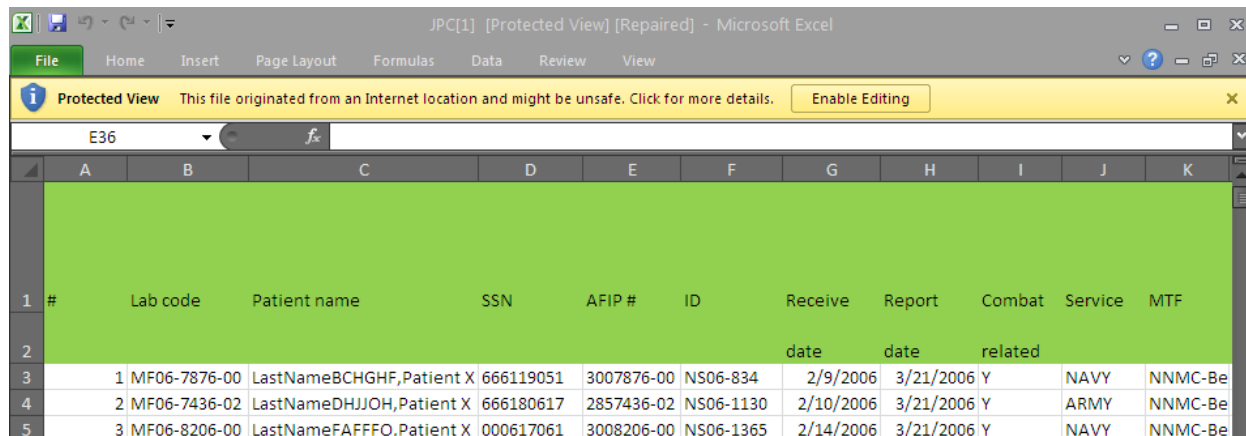
Open / Download

Click **[Open/Download]** to open the source data in a separate Excel spreadsheet. The system will prompt you to **[Open]** or **[Save]** the spreadsheet. Opening the spreadsheet will open the Excel file in a new window with all associated

functionality.

Click [Back] to return to the Workflow Screen.

The source spreadsheet opens:



#	Lab code	Patient name	SSN	AFIP #	ID	Receive date	Report date	Combat related	Service	MTF
1	MF06-7876-00	LastNameBCHGHF, Patient X	666119051	3007876-00	NS06-834	2/9/2006	3/21/2006	Y	NAVY	NNMC-Be
2	MF06-7436-02	LastNameDHJJOH, Patient X	666180617	2857436-02	NS06-1130	2/10/2006	3/21/2006	Y	ARMY	NNMC-Be
3	MF06-8206-00	LastNameFAFFFO, Patient X	000617061	3008206-00	NS06-1365	2/14/2006	3/21/2006	Y	NAVY	NNMC-Be

Figure 21 – Sample Source Spreadsheet



Note: Each spreadsheet will be formatted differently, depending on which of the three DoD labs submitting the information.

Adding DoD Fragment Data

To add fragment data, click [**Enter / View DoD Fragment Data**].



UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients | My Tasks | Reporting | Administration | Help

Patient Lookup
Patient Information
Workflows
Related Diagnoses
Related Lab Tests

PATIENTS > PATIENT LOOKUP > WORKFLOWS > DoD FRAGMENT DATA > LastNameCFBBOH, Patient X

DoD Patient Information

Patient Full Name: LastNameCFBBOH, Patient X
SSN: 666180617

[Add Lab Data](#)

Figure 22 – Enter / View DoD Fragment Data Screen

Initially, this process must be completed in the following order:

- Add Lab Data
- Add Fragment Data
- Add Analyte Data

Once the initial fragment has been entered, additional Labs/Fragments/Analytes can be added in any order, following each process, respectively.

Adding Lab Data

On the DoD Fragment Click **Add Lab Data**:

The screenshot shows the 'Embedded Fragments Registry' interface. At the top, there is a navigation bar with 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. Below this is a breadcrumb trail: 'PATIENTS > PATIENT LOOKUP > WORKFLOWS > DoD FRAGMENT DATA > ADD LAB DATA > LASTNAMECFBBOH, P'. The main content area is divided into two sections: 'DoD Patient Information' and 'DoD Lab Data'. The 'DoD Patient Information' section contains fields for 'Patient Full Name' (LastNameCFBBOH, Patient X) and 'SSN' (666180617). The 'DoD Lab Data' section contains six input fields: 'Lab Name', 'Lab Code', 'Accession Number', 'Lab Report Date', 'Lab ID', and 'Producing Event Date'. A 'Save' button is located at the bottom right of the 'DoD Lab Data' section, and a 'Back' button is located at the bottom left of the entire form area.

Figure 23 – Adding DoD Lab Data

INCLUDES:

- **DoD Patient Information** panel
 - *Patient Name*
 - *SSN*
- **DoD Lab Data** panel [all checkboxes except as noted]
 - Lab Name | Lab Report Date
 - Lab Code | Lab ID
 - Accession Number | Producing Event Date

Click **[Save]** to save the updated Lab information and return to the DoD Fragment Data screen.

Click **[Back]** to discard the changes and return to the.

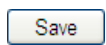
Adding Fragment Data

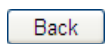
After adding the Lab Data, click **Add Fragment Data**. The Add Fragment Data screen opens:

Figure 24 – Adding DoD Fragment Data

INCLUDES:

- **DoD Fragment Data** panel
 - Fragment ID | Description
 - Mass
 - Mass Unit of Measure
 - **Dimensions** panel
 - Length | Length Unit of Measure
 - Height | Height Unit of Measure
 - Width | Width Unit of Measure
 - Radioactive Indicator [Yes No Not Tested] | Radioactive Results
 - Comments
 - Tissue Sent Indicator [Yes No] | Tissue Associated with Fragment Details

 Click **[Save]** to save the updated fragment information and return to the DoD Fragment Data screen.

 Click **[Back]** to discard the changes and return to the DoD Fragment Data screen.

Add Analyte Data

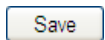
After adding the Fragment Data, click **Add Analyte Data**. The Add Analyte Data screen opens:

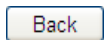
Figure 25 – Adding DoD Analyte Data

INCLUDES:

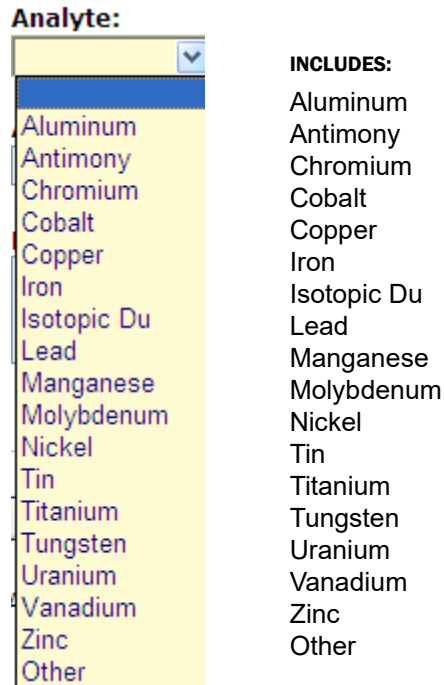
- **Analyte Data** panel

- Analyte [Drop-down box] | Analysis Method [Text box]
- Analysis Type [Drop-down box] | CAS Number [Text box]
- Result [Text box] | Comments [Text box]

 Click **[Save]** to save the updated fragment information and return to the DoD Fragment Data screen.

 Click **[Back]** to discard the changes and return to the DoD Fragment Data screen.

The Analyte drop-down box contains a list of all the available analytes:

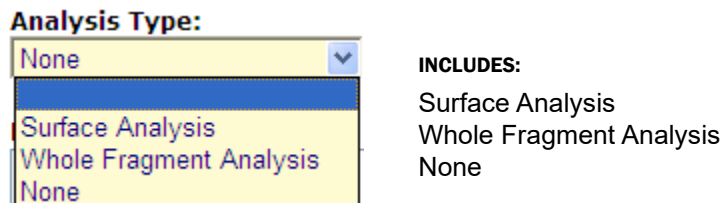


Selecting Other exposes the Other Analyte text box:



Figure 26 – Other Analyte Text Box

The Analysis Type drop-down box contains a list of the analysis types:



6.2.3. Related Diagnoses

When you click the **[Related Diagnoses]** button associated with a patient, you see the related diagnoses:

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

PATIENTS > PATIENT LOOKUP > RELATED DIAGNOSES > FOUR HUNDRED TWENTY, PATIENT X

To sort please click table headings

ICD9 Code	Description	Encounter Date	Site #	Facility Name
103.1	Intermediate lesions of pinta	6/7/2000	656	VAMC ST. CLOUD, MN
103.2	Late lesions of pinta	6/8/2000	656	VAMC ST. CLOUD, MN

Cancel

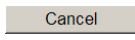
Figure 27 – Referral Record (Contacts / Workflows)

This is a read-only list; no entries or changes are allowed here. If the list is lengthy, however, you can sort it by clicking on one of the column headings.

INCLUDES:

For each related diagnosis:

- *ICD Code*
- *Description*
- *Encounter Date*
- *Site #*
- *Facility Name*

 Click **[Cancel]** to return to the patient search results.

6.2.4. Lab Tests of Interest

Patients who are included in EFR can receive care at conceivably any VA facility. When EFR patients receive care at a VA facility and are assigned a specific lab test as a result of that care, the EFRA captures the diagnosis code and/or lab test and results.

When you click the **[Lab Tests]** button associated with a patient, you see the related lab tests:

PATIENTS > PATIENT LOOKUP > RELATED LAB TESTS > TWO, PATIENT Y

Patient Information
Patient Name: Two, Patient Y
SSN: 000286810

Related Lab Tests
Test Name: ERYTHROCYTE SEDIMENTATION RATE **SpecimenType:** BLOOD

Result Date	Date Specimen Collected	Result	Result Units	Ref Low	Ref High	Abnormal Indicator	Request Site Numer	Result Site Numer	LOINC
10/28/1999	10/28/1999	30		0	20	H	614	614	4537-7

Test Name: IRON **SpecimenType:** SERUM

Result Date	Date Specimen Collected	Result	Result Units	Ref Low	Ref High	Abnormal Indicator	Request Site Numer	Result Site Numer	LOINC
12/12/2011	12/11/2011	27		31	144	L	644	644	2498-4
8/12/2011	8/12/2011	42		31	144		644	644	2498-4
4/11/2008	4/11/2008	24		31	144	L	644	644	2498-4

Figure 28 – Lab Tests of Interests

INCLUDES:

- **Patient Information** panel [all pre-filled text]
 - *Patient Name*
 - *SSN*
- **Related Lab Tests** panel [all pre-filled text]
 - *Test Name*
 - *Result Date | Date Specimen Collected | Result | Result Units | Ref Low | Ref High | Abnormal Indicator | Request Site Number | Result Site Number | LOINC*

Click **[Back]** to return to the Patient Lookup screen.

6.3. Manual Referral

To create a manual referral, click **[Create Referral]**.

Lookup Patient

SSN:

First Name:

Last Name:

ICN:

To sort please click table headings

SSN	Full Name	Site Number	Facility	City	
000211426	Twenty Seven, Patient X	554PA	DENVER	Chicago	<input type="button" value="Create Referral"/>

6.3.1. Create Referral

The Create Referral screen is similar to the Patient Information screen, however, all pertinent information needs to be added to the EFR.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help [Check System](#)

Referrals
New
Accepted
Open
Closed
Follow Ups
Ineligible
Lab Kits
New
Tracking
Received
Voided
Questionnaires/Forms
New
In Process
Completed
Lab Orders
New
Awaiting Results
Voided
Closed
Lab Results
New
In Process
Accepted
Voided
Interpretation & Follow Up
New
In Process
Interpreted
Contact Logs
All Contacts

Patient
ICN: 1616777869 Name: Twenty Seven, Patient X Zip: 00600 SSN: 000211426 DOB: 6/27/1956

Referral Details
Referral Date: 4/18/2012 Created By: HARRIS/dzaudt99
Risk Category: _____

Veterans Affairs Medical Center
Facility Name: (Please select institution)
Address 1: Contact Name:
Address 2: Contact Email:
Address 3: Contact Phone:
City: Contact FAX:
State:
Zip/Postal:
Country:

Primary Care Physician
Name: Address 1:
Phone: Address 2:
Email: Address 3:
FAX Number: City:
State:
Zip/Postal:
Country:

Health Factors

Fragments
 Embedded Fragments Present
 No Embedded Fragments

Injury Type
 Bullet Injury
 No Bullet Injury
 Blast/Explosion Injury
 No Blast/Explosion Injury

Blast/Explosion Type
 IED
 RPG
 Land Mine
 Grenade
 Enemy Fire
 Friendly Fire
 Unknown Type
 Other

Fragments In Body
 Fragments in Body
 No Fragments in Body
 Unknown if Fragments In Body

Radiography
 Fragments on Radiograph
 Not Documented on Radiograph
 Unknown if Fragments on Radiograph

Vehicle
 In Vehicle
 Not In Vehicle

Surgery
 Fragments Removed in Surgery
 Fragments Not Removed in Surgery
 Unknown if Removed in Surgery

Laboratory
 Fragments Sent To Lab
 Fragments Not Sent To Lab
 Unknown if Fragments Sent To Lab

Unable to Screen
 Acute Illness
 Severe Cognitive Impairment
 Refused Screening Tool

Triage Referral
 Accept
 For Biomonitoring
 For Fragment Analysis
 Accepted - No Action Required
 Ineligible
Ineligibility Reason: _____

INCLUDES:

- **Patient** panel
 - *ICN* | *Name* | *Zip* | *SSN* | *DOB*
 - *OEF/OIF Indicator* | *Iraq/Afghan Service* | *Service Separation Date*
- **Referral Details** panel
 - *Referral Date* | *Created By*
- **Risk Category** panel
 - This section initially is blank. The risk category is calculated by the presence of certain health factors. When the manual referral is saved the EFRA will calculate the Risk Category
- **Veterans Affairs Medical Center** panel
 - Facility Name [Drop-down box] | Contact Name
 - Address 1 | Contact Email
 - Address 2 | Contact Phone
 - Address 3 | Contact FAX
 - City
 - State
 - Zip/Postal
 - Country
- **Primary Care Physician** panel
 - Name | Address 1
 - Phone | Address 2
 - Email | Address 3
 - FAX Number | City
 - State
 - Zip/Postal
 - Country
- **Health Factors** panel [All of the following are Check boxes unless otherwise stated]
 - **Fragments** panel
 - Embedded Fragments Present [Check box with Text box]
 - No Embedded Fragments [Check box]
 - **Injury Type** panel
 - Bullet Injury
 - No Bullet Injury
 - Blast/Explosion Injury

- No Blast/Explosion Injury
- Blast Explosion Type panel
 - IED
 - RPG
 - Land Mine
 - Grenade
 - Enemy Fire
 - Friendly Fire
 - Unknown Type [Check box with Text box]
- Fragments in Body panel
 - Fragments in Body
 - No Fragments in Body
 - Unknown if Fragments in Body
- Radiography panel
 - Fragments in Radiograph
 - Not Documented on Radiograph
 - Unknown if Fragments on Radio Graph
- Vehicle panel
 - In Vehicle
 - Not In Vehicle
- Surgery panel
 - Fragments Removed in Surgery
 - Fragments Not Removed in Surgery
 - Unknown if Removed in Surgery
- Laboratory panel
 - Fragments Sent to Lab
 - Fragments Not Sent to Lab
 - Unknown if Fragments Sent to Lab
- Unable to Screen panel
 - Acute Illness [Check box with Text box]
 - Severe Cognitive Impairment [Check box with Text Box]
 - Refused Screening Tool
- Triage Referral panel
 - Accept [Radio button]

- For Biomonitoring [Check box]
- For Fragment Analysis [Check box]
- Accepted - No Action Required [Radio button]
- Ineligible [Radio button]
 - Ineligibility Reason [Text box]

Save

Click [**Save**] to save the patient information and add them to the EFR.

Back

Click [**Back**] to discard the changes and return to the Patient Lookup screen.

Add Contact

The [**Add Contact**] button is greyed out and is not used on this screen.

7. My Tasks tab

7.1. My Tasks Queue

In order to understand how the various tasks associated with EFRA are performed, it's necessary to discuss the EFRA MY TASKS tab. EFRA uses the MY TASKS tab as a task-oriented viewer. Tasks available to you are shown on the left navigation panel, based on the role(s) you have been assigned. In many of the samples shown in this document, you will see all possible tasks shown as available, and all the tasks are listed in [Table 5](#) below. On your user screen, you will also see all the tasks associated with that tab—but not all of them may be available to you. Availability depends on your assigned role. Contact your supervisor or the **TEFSC Admin Staff** for questions about your roles.



Figure 29 – My Tasks tab and Left Navigation Panel

When you “hover” your mouse pointer over a tab or task that is available to you, a web address ([URL](#)) will appear at the bottom of your browser window, just above the Windows [**Start**] button. If the task is not available, no destination address will appear, indicating that you do not have access to that task.

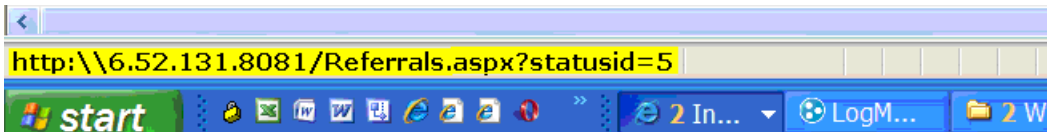


Figure 30 – Destination Address Shows Task Availability



Note: The URL you see will be different from the one shown in [Figure 30](#).



Important: When you hover near a task item, a highlighting rectangle in lighter blue (similar to the one marking New in [Figure 29](#) above) will appear around the task. In order to see or to select the link, however, you must click on the task text itself, not just the highlighting rectangle.



Note: Depending on your browser settings, the task text may or may not show underlining when you hover over it. If the task is not available, or if there is no actual task associated with the text, you will not see a destination displayed, as in [Figure 31](#).



Figure 31 – Task Not Available



Note: The tasks available in the LEFT NAVIGATION BAR will only include those assigned to your role(s). See [Table 4 – Tasks by Role](#) for tasks available for each role. See [Table 5](#) for a listing of all tasks.

7.2. Error and Warning Messages

If required data elements are not entered on an EFRA data entry screen, or if formatting errors are detected, a popup error message like this one may display:

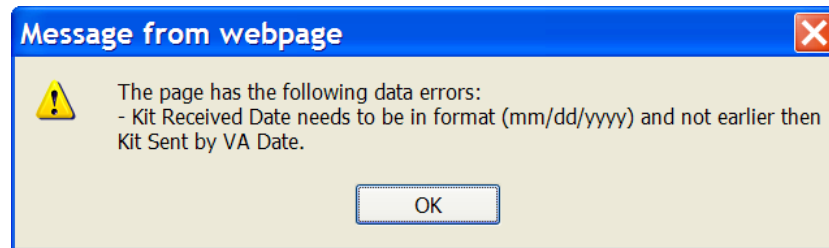


Figure 32 – Message from webpage (data errors)

If you try to navigate away from a screen without saving or otherwise completing the screen, a popup error warning may display:

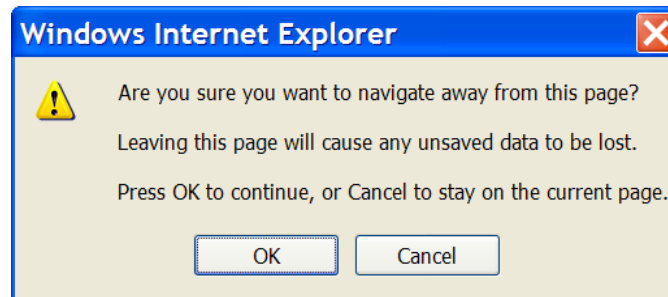


Figure 33 – Navigating Away from Page

7.3. Task Categories and Tasks

The following table lists all tasks for all roles. For details, click on the internal link in the MORE INFO columns.

Table 5 – Task Categories and Tasks

Task Category	Task	MORE INFO	Task Category	Task	MORE INFO
Referrals		11	Lab Orders		0
	New	11.1		New	15.1
	Accepted - Open Cases	11.2		Awaiting Results	15.2
	Accepted - Closed Cases	11.3		Voided	15.3
	Ineligible	11.5		Closed	
Lab Kits		13	Lab Results		16
	New	13.1		New	16.1
	Tracking	13.2		In Process	16.2
	Received	13.3		Accepted	0
	Voided	13.4		Voided	
Questionnaires/Forms		14	Interpretation & Follow Up		17
	New	14.1		New	17.1
	In Process	14.2		In Process	17.2
	Completed	14.3		Interpreted	17.3
			Contact Logs		17.3.1
				All Contacts	17.5

7.4. Follow-Up Event Reminders

If you start work on an assigned record but do not finish work, or if you do not have needed information available, you may set a reminder for yourself. The next time you run the application, rather than seeing the Patients screen first, you will instead see these reminders displayed:

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration

FOLLOW UP EVENT REMINDERS

Reminder!

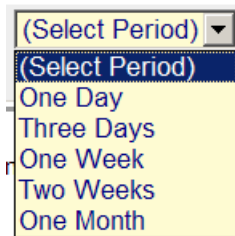
To sort please click table headings

Referral #	Patient Name	Reason	Due Date	Remind Me On		
2499	Four Hundred Sixteen, Patient X	Needs Follow-Up Biomonitoring	9/17/2010	9/17/2010	Select	(Select Period) Snooze
2493	One Hundred Seventy One, Patient X	Needs Follow-Up Biomonitoring	9/18/2010	9/16/2010	Select	(Select Period) Snooze
2483	Sixty Nine, Patient X	Needs Follow-Up Biomonitoring	9/18/2010	9/18/2010	Select	(Select Period) Snooze
2481	One Hundred Forty Nine, Patient X	Needs Follow-Up Biomonitoring	9/18/2010	9/17/2010	Select	(Select Period) Snooze
2500	Five Hundred Nine, Patient X	Needs Follow-Up Contact	9/18/2010	9/17/2010	Select	(Select Period) Snooze
2500	Five Hundred Nine, Patient X	Needs Follow-Up Contact	10/1/2010	9/17/2010	Select	(Select Period) Snooze

Current User: One EFRUser
 Role(s): EFR TEFSC COORDINATOR (Super User), EFR Admin Staff, EFR TEFSC PROVIDER, EFR TEFSC NURSE, EFR Data Entry Personnel
 9/21/2010 3:36:17 PM

You may either...

1. Click the **[Select]** button to choose the records needing attention and work on them, or...
2. Set a “snooze” period for each such record. For each referral listed:
 - o Select a snooze period from the (Select Period) drop-down list. Note that the **[Snooze]** button is inactive (grayed-out) until you select a snooze period.



- o Click the **[Snooze]** button.
3. Or, you can ignore the reminder by clicking on another tab.



Note: You can also see these records at any time by choosing MY TASKS > REFERRALS > ACCEPTED > FOLLOW UPS (see [11.4 below](#)).

7.5. Reviewing/Editing a Referral Record

Once you select a referral record, the referral information appears:

The screenshot displays the Embedded Fragments Registry interface. At the top, there is a navigation bar with tabs for Patients, My Tasks, Reporting, Administration, and Help. A breadcrumb trail reads "MY TASKS > REFERRALS > OPEN > REF # 2500". On the left, a dark blue sidebar contains a menu with categories: Referrals (New, Accepted, Open, Closed, Follow Ups, Ineligible), Lab Kits (New, Tracking, Received, Voided), Questionnaires/Forms (New, In Process, Completed), Lab Orders (New, Awaiting Results, Voided, Closed), and Lab Results (New, In Process, Accepted). The "Open" option under Referrals is selected. The main content area is divided into four panels: 1. Patient: ICN: 12510680, Name: [Five Hundred Nine, Patient X](#), SSN: 000731361, DOB: 2/4/1980. 2. Referral Details: Referral Date: 11/8/2009, Date Sent to TEFSC: 11/9/2009, Reviewed Date: 8/24/2010, Reviewed By: HARRIS\vshteyn. 3. Risk Category: This screening tool indicates that the veteran likely does not have a retained fragment as a result of injuries sustained while serving in the area of conflict. 4. Veterans Affairs Medical Center: Facility Name: (460HO) SALEM CITY MORC, Address 1: 2500 Patient Main street, Address 2: Apt 6, City: Los Angeles, State: CA, Zip/Postal: 00700, Country: United States. Contact information includes Name: VAMC Contact 4, Contact, Email, Contact: 111-555-1111, Phone, and Contact FAX: 111-555-1111.

Figure 34 – Referral Record (Part 1)

INCLUDES:

- [Patient](#) panel [all pre-filled text]
 - *ICN | Name* | SSN | DOB*
- * *Link to other records for this patient.*
- [Referral Details](#) panel [all pre-filled text]
 - *Referral date | Date Sent to TEFSC | Reviewed Date | Reviewed by*
- [Risk Category](#) panel
 - *Risk Category text* [pre-filled, read-only text box]
- [Veterans Affairs Medical Center](#) panel

- *Facility Name* / *Contact Name*
- *Address 1 | 2 | 3* / *Contact Email*
- *City* / *Contact Phone*
- *State* / *Contact Fax*
- *Zip/Postal*
- *Country*

Primary Care Physician

Name: Address 1:
 Phone: Address 2:
 Email: Address 3:
 City:
 FAX Number: State:
 Zip/Postal:
 Country:

Health Factors

Fragments

Embedded Fragments

Present

No Embedded Fragments

Injury Type

Bullet Injury

No Bullet Injury

Blast/Explosion Injury

No Blast/Explosion Injury

Blast/Explosion Type

IED

RPG

Land Mine

Grenade

Enemy Fire

Friendly Fire

Unknown Type

Other

Fragments In Body

Fragments in Body

No Fragments in Body

Unknown if Fragments In Body

Radiography

Fragments on Radiograph

Not Documented on Radiograph

Unknown if Fragments on Radiograph

Vehicle

In Vehicle

Not In Vehicle

Surgery

Fragments Removed in Surgery

Fragments Not Removed in Surgery

Unknown if Removed in Surgery

Laboratory

Fragments Sent To Lab

Fragments Not Sent To Lab

Unknown if Fragments Sent To Lab

Unable to Screen

Acute Illness

Severe Cognitive Impairment

Refused Screening

Workflows

To sort please click table headings

Workflow ID	Specimen Type	Workflow Status	Last Updated
2382	Biological Monitoring	Completed	8/26/2010
2383	Fragment Analysis	In-Process	9/14/2010
2391	Fragment Analysis	Completed	9/5/2010
2402	Biological Monitoring	In-Process	8/27/2010
2405	Biological Monitoring	Completed	9/14/2010
2408	Biological Monitoring	Completed	9/15/2010
2409	Biological Monitoring	In-Process	9/22/2010
2410	Biological Monitoring	Completed	9/22/2010
2411	Biological Monitoring	In-Process	9/15/2010
<input type="text" value="(Select One)"/>		<input type="button" value="Add Workflow"/>	

Figure 35 – Referral Record (Part 2)

INCLUDES:

- **Primary Care Physician** panel [all pre-populated text boxes; may be changed]
 - Name | Address 1
 - Phone | Address 2
 - Email | Address 3
- **Health Factors** panel [all checkboxes except as noted]
 - Fragments panel
 - Embedded Fragments Present
 - No Embedded Fragments
 - Injury Type panel
 - Bullet Injury
 - No Bullet Injury
 - Blast/Explosion Injury
 - No Blast/Explosion Injury
 - Blast/Explosion Type panel
 - IED
 - RPG
 - Land Mine
 - Grenade
 - Enemy Fire
 - Friendly Fire
 - Unknown Type
 - Other
 - Other [text box]
 - Fragments in Body panel
 - Fragments in Body
 - No Fragments in Body
 - Unknown if Fragments in Body
 - Radiography panel
 - Fragments on Radiograph
 - Not Documented on Radiograph
 - Unknown if Fragments on Radiograph
 - Vehicle panel
 - In Vehicle
 - Not in Vehicle
 - Surgery panel
 - Fragments Removed in Surgery
 - Fragments Not Removed in Surgery
 - Unknown if Removed in Surgery
 - Laboratory panel
 - Fragments Sent to Lab
 - Fragments not Sent to Lab
 - Unknown if Fragments Sent to Lab
 - Unable to Screen panel
 - Acute Illness
 - Severe Cognitive Impairment

- Refused Screening
- Workflows panel [all pre-filled text]
 - Workflow ID | Specimen Type | Workflow Status | Last Updated
 - **[Add Workflow]** button

When you have entered all available data, you may...

Click the **[Save]** button to save the data you entered. A popup is displayed:

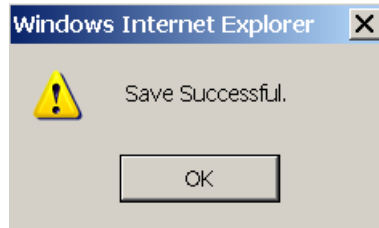


Figure 36 – Save Successful Popup Message

Click **[OK]** to dismiss the popup.

Click the **[Back]** button to return to the list.

Click the **[Add Contact]** button to add a new contact record.

8. Reporting tab

Formal reporting functionality is available in EFRA 4.0.

- [Referral report](#)

In addition, an internal report called the Kit Orders Report is available from the Lab Kits detail screen.

Other printed outputs (including notification letters to providers and patients) are included as part of the work flow. See the [Subject Index](#) “reports” entries for pointers to such reports.

Finally, data exports are listed in [Section 8.3](#). Unlike the standard reports, data exports generate excel spreadsheets formatted for use in client statistical software rather than human analysis.

8.1.1. Lists and Reports Controls

At the top of most CCR onscreen reports or lists are the various controls you can use. These controls are similar to those found in other [Portable Document Format \(PDF\)](#) presentations, and are available for most reports or lists.

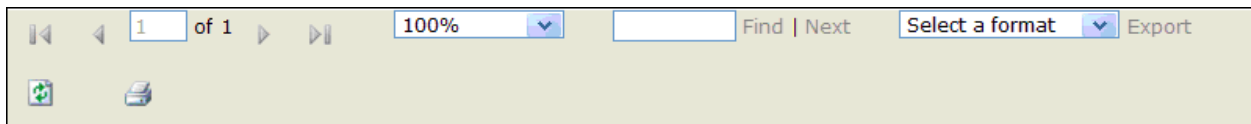
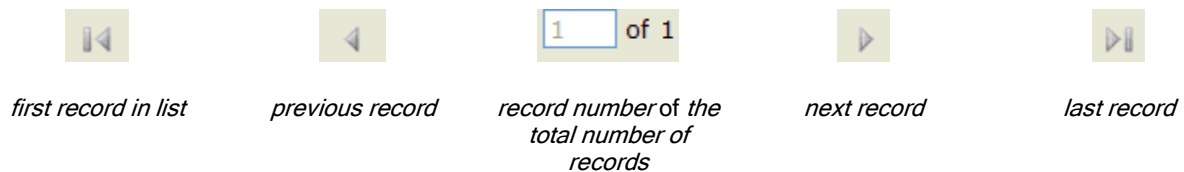


Figure 37 – Report Controls

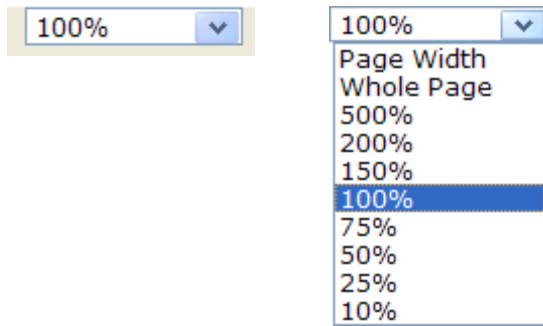
8.1.1.1. Page Controls

You can move from one page of the list to another by using the page controls:



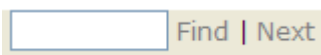
8.1.1.2. Zoom Control

You can change the zoom level of the onscreen list by using the zoom control:



8.1.1.3. Search for Text

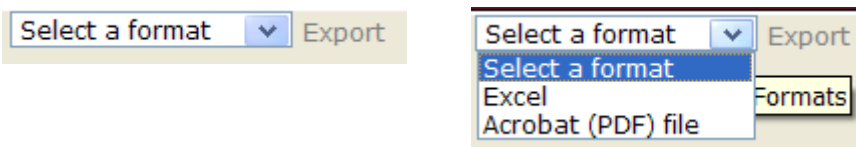
You can search for text on the list by using the search box:



Enter your search text in the box provided, and then click the **[Find]** command icon. Click **[Next]** to see the next match.


8.1.1.4. Specify Format and Export

You can specify the format for an export from the list, using the Export control. You may choose to export to an Excel (spreadsheet) file or to an Acrobat (PDF) file:




Export After selecting the format, click the **[Export]** command icon to the right of the drop-down list.

8.1.1.5. Refresh Control

 Click the **[Refresh]** command icon to refresh the list.

8.1.1.6. Print Control

 Click the **[Print]** command icon to print directly from the screen to your default printer.

8.2. Referral report

This report is a summary of unique referrals initiated within the time period selected.

The screenshot shows the 'Embedded Fragments Registry' interface. At the top, there is a navigation menu with 'Patients', 'My Tasks', 'Reporting', and 'Administration'. The 'Reporting' tab is active, and the page title is 'REPORTING > REFERRAL REPORT'. Below the title, there is a 'Selection Criteria' section with two text boxes for 'Date From (mm/dd/yyyy):' and 'Date To (mm/dd/yyyy):'. A 'Run Report' button is located below the date boxes.

Figure 38 – Referral Report Selection Criteria

Specify the inclusive time period you wish by entering the start and end dates in the text boxes provided.

Run Report Click **[Run Report]** to create the report.

The notice “Report is being generated” may appear momentarily while the report is being prepared. The report will then appear on screen.

There are three parts (labeled as “pages”) for the report:

1. Number of Referrals Received by VA Facility
2. Number of Referrals by Risk Category
3. Referrals by Status and Average Number of Days Between Referral and Triage

You can use the navigation controls at the top of the report to move from one part (“page”) of the report to another. These are essentially the same controls found on any [portable document format \(PDF\)](#) page. You can also use the control to export the report to a format of your choice. See [Section 8.1.1 above](#) for details.

8.2.1. Number of Referrals Received by VA Facility


Page 1 of the Referral Report lists the number of referrals received by each VA facility. The list is sorted by facility number.

REPORTING > REFERRAL REPORT

Selection Criteria

Date From (mm/dd/yyyy): Date To (mm/dd/yyyy):

1 of 3 100% Find | Next Select a format Export



Embedded Fragments Registry Referral Report

Selection Criteria:
From Date: 1/1/2009
To Date: 9/22/2010

Number of Referrals Received in the Registry: 46

Number of Referrals Received by VA Facility		
Site	Name	Count
405HG	WILDER ORC	1
437GF	WILLISTON CBOC	1
442GB	SIDNEY CBOC	1
460HO	SALEM CITY MORC	1
501PC	ALBUQUERQUE CWT/TR	1
5039AA	ALTOONA (NHCU)	1
504	AMARILLO HCS	1
506GC	JACKSON CBOC	1
512GD	BALTIMORE CBOC	4
517GA	GASSAWAY	1
666GC	RIVERTON, WY CBOC	1
671B0	MC ALLEN OUTPATIENT CLINIC	1
673GF	ZEPHYRHILLS CBOC	1
693GA	SAYRE OPC	1
695HK	MILWAUKEE MOC	1

This is protected personal health information. Improper disclosure of information to anyone not authorized to receive it may result in criminal charges and a fine from 5,000 to 20,000 under the Privacy Act of 1974, Title 5 United States Code (U.S.C.) 552(a), 38 U.S.C. Section 5701, Confidential Nature of Claims, and 38 U.S.C. Section 7332, Confidentiality of Certain Medical Records.


Embedded Fragments Registry - Referral Report Printed by Domain\Username on 9/22/2010 8:18:20 AM Page 1 of 3

Figure 39 – Referral Report (Page 1)

8.2.2. Number of Referrals by Risk Category

Page 2 of the Referral Report lists the number of referrals by risk category. There are five risk categories.

1. This screening tool indicates that the patient has had a fragment removed at surgery or has a documented retained fragment.
2. This screening tool indicates that the patient has a high likelihood of having a retained fragment.
3. This screening tool indicates that the veteran possibly has a retained fragment as a result of injuries sustained while serving in the area of conflict.
4. This screening tool indicates that the veteran likely does not have a retained fragment as a result of injuries sustained while serving in the area of conflict.
5. Unspecified.



Embedded Fragments Registry Referral Report

Selection Criteria:
From Date: 1/1/2009
To Date: 9/22/2010

Number of Referrals by Risk Category	
Risk Category	Count
This screening tool indicates that the patient has had a fragment removed at surgery or has a documented retained fragment	2
This screening tool indicates that the patient has a high likelihood of having a retained fragment	25
This screening tool indicates that the veteran possibly has a retained fragment as a result of injuries sustained while serving in the area of conflict	2
This screening tool indicates that the veteran likely does not have a retained fragment as a result of injuries sustained while serving in the area of conflict	9
Unspecified	8

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Embedded Fragments Registry - Referral Report
Printed by Domain\Username on
9/22/2010 8:18:20 AM
Page 2 of 3

Figure 40 – Referral Report (Page 2)

8.2.3. Referrals by Status and Average Number of Days between Referral and Triage

Page 3 of the Referral Report shows a summary of the referrals by status, and includes a table showing the average number of days between referral and triage.

REPORTING > REFERRAL REPORT

Selection Criteria

Date From (mm/dd/yyyy): Date To (mm/dd/yyyy):

3 of 3 100% Find | Next Select a format Export



Embedded Fragments Registry Referral Report

Selection Criteria:
From Date: 1/1/2009
To Date: 9/22/2010

Number of referrals (Total)	46
Number of referrals not yet triaged (New):	37
Number of referrals that were accepted into the registry (Open, Closed and No Action Required):	9
Number of referrals for which no further action was recommended:	0
Number of referrals that have outstanding biological monitoring or fragment analysis (Open):	13
Number of referrals where all biological monitoring and/or fragment analysis have been completed (Closed):	1
Number of referrals for which biological monitoring was recommended:	8
Number of referrals for which fragment analysis was recommended:	6
Number of referrals with inpatient evaluation recommended:	0
Number of referrals for which a combination of biological monitoring and fragment analysis was recommended:	5
Number of referrals that are ineligible:	0

Average Number of Days Between Referral and Triage			
Mean	Median	Minimum of Range	Maximum of Range
381	308	288	608

This is protected personal health information. Improper disclosure of information to anyone not authorized to receive it may result in criminal charges and a fine from 5,000 to 20,000 under the Privacy Act of 1974, Title 5 United States Code (U.S.C.) 552(a), 38 U.S.C. Section 5701, Confidential Nature of Claims, and 38 U.S.C. Section 7332, Confidentiality of Certain Medical Records.

Embedded Fragments Registry - Referral Report
Printed by Domain\Username on 9/22/2010 8:18:20 AM
Page 3 of 3

Figure 41 – Referral Report (Page 3)

8.3. Data Export

As previously explained, the data export function exports specific reports in a format compatible with client statistical software. Since the exports are not meant for human analysis, the individual exports will not be shown in this manual.



Figure 42 – Data Exports

INCLUDES:

- [Data Exports](#)
 - Referrals
 - Bio Questionnaires
 - Fragment Forms
 - Bio Labs
 - Fragment Labs
 - Related Diagnoses
 - Contact Logs
 - Patients
 - VTA Data Extract
 - DoD Fragment Data
 - Related Lab Tests

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9. Administration tab

The User Administration application allows the Admin Staff to view, edit, and sort user roles. The Admin Staff role is designed to be a global role that is not specific to any facility. For EFRA version 1.0, however, the Admin Staff is specific to each facility. The Admin Staff can view, edit, and manage users and user roles. Refer to Section [19.1.1](#) for more information

Part C. The EFR Processes

10. EFR Processes

EFR processes include:

- [Specimen Processes](#)
- [The Biomonitoring Process](#)
- [The Fragment Analysis Process](#)

10.1. The Triage Process

Patients being recommended as candidates for inclusion in the EFR may be referred by local [VA](#) Providers or identified by the [DoD](#).

Patients in each of these populations are screened in [CPRS](#) to identify them as possible candidates for inclusion. Local [VA](#) providers use CPRS to screen candidates for referral to the EFR based on [clinical reminders](#) (batteries of questions posed to the patient during the patient encounter). Responses to these questions are captured in [health factors](#). Once the screening is complete and the patient is found to meet the criteria for referral, the patient's relevant referral data are sent to EFRA so that a final determination can be made.

The process of evaluating the patient's record to make that determination and to identify what actions will be required by [TEFSC](#) to begin collecting information relevant to the patient's care, is known as *triage*. The goal of triage is to make a determination as to whether the patient is eligible for admission to the EFR, and what follow-up action is required. This triage process also helps ensure that there is a single unique record for each patient who is to be admitted to the Registry. Finally, triage is the method by which patients are either admitted to the Registry or deemed ineligible for the Registry.

The data are sent in referrals from [CPRS](#), and these referrals enter a queue in EFRA for review by the Nurse (see 4, [User Roles](#)). The Nurse uses EFRA to review new referrals and to triage these referrals, making a determination regarding acceptance into the Registry.

If the patient whose record is being triaged has data in the [Veteran Tracking Application \(VTA\) data extract file](#), the Nurse may view that information during triage and use it to facilitate the triage decision-making process. Once the record has been triaged, if the patient has data in the VTA data extract file and/or the [DoD Embedded Metal Fragment Registry \(EMFR\) data extract file](#), the system will associate the information in those files with the patient's EFR record.

After reviewing all the available information, the Nurse makes the preliminary triage decision and records it in EFRA.

The EFR TEFSC Provider and the EFR TEFSC Coordinator (see 4, [User Roles](#)) may also conduct the triage process.

See [Figure 43 – Triage Process](#) for a graphic representation of the triage process.

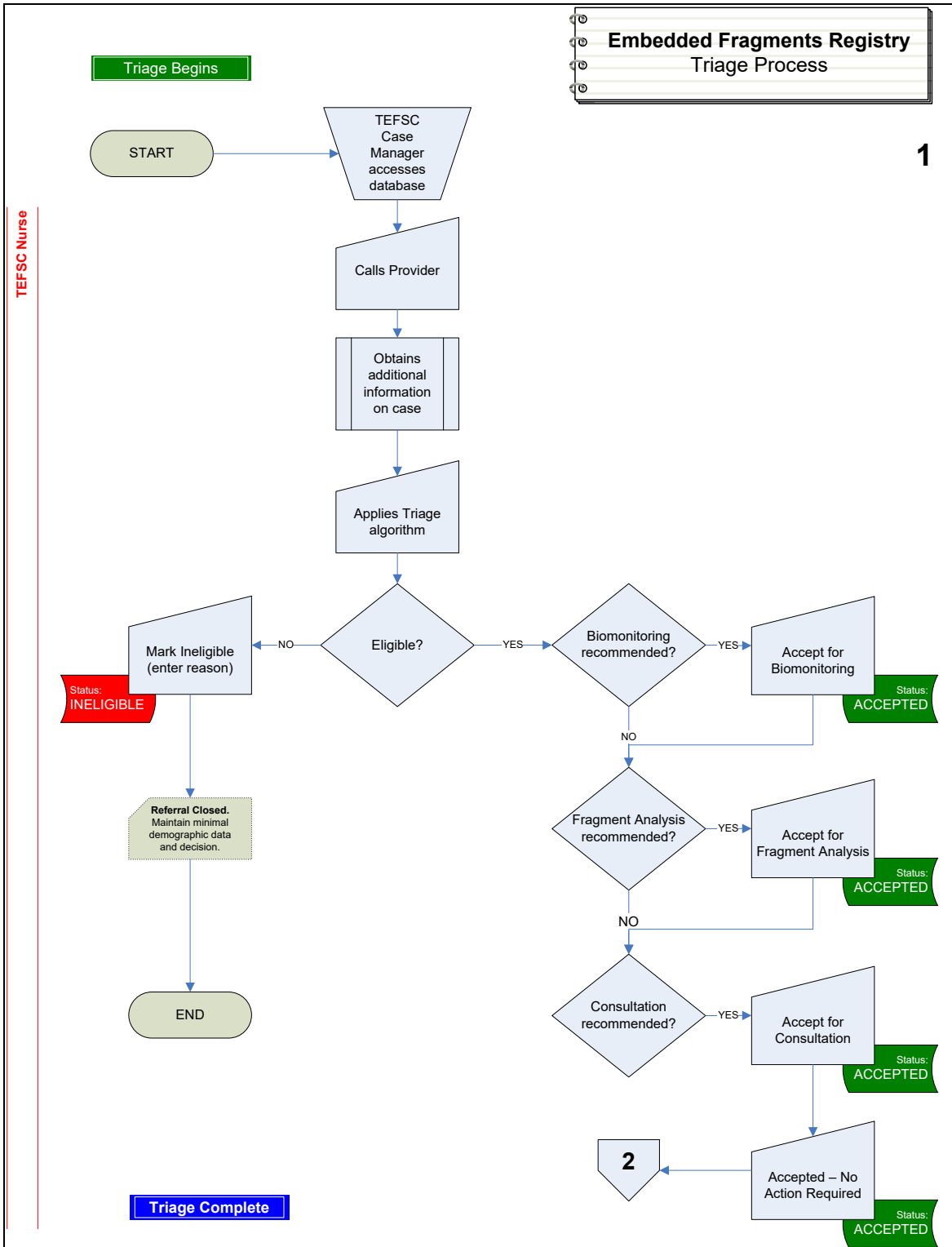


Figure 43 – Triage Process

The off-page connector () in [Figure 43](#) refers to [Figure 66 – Specimen Processes](#).

10.2. Screens and Navigation Hierarchy

There are currently 60 sections used in EFRA. The section numbers and names are shown below. The navigational hierarchy is also indicated by indents within the table; for example, Section 1 provides access to Sections 2 and 3.

Table 6 – Screen Numbers & Hierarchy

Screen Number and Title	
1	PATIENT LOOKUP
	2 PATIENT INFORMATION
	3 WORKFLOWS
	4 DoD FRAGMENT DATA
	5 RELATED DIAGNOSES
	6 LAB TESTS
7	REFERRAL QUEUE
	8 REFERRAL DETAILS (NEW)
	9 REFERRAL DETAILS (ACCEPTED)
	10 REFERRAL DETAILS (CLOSED)
	11 REFERRAL DETAILS (CLOSED)
	12 REFERRAL DETAILS (INELIGIBLE)
13	LAB KIT QUEUE (NEW)
	14 LAB KIT DETAILS (NEW)
	15 LAB KIT DETAILS (TRACKING)
	16 LAB KIT DETAILS (RECEIVED)
	17 LAB KIT DETAILS (VOIDED)
18	QUESTIONNAIRE/FORMS QUEUE
	19 QUESTIONNAIRE/FORMS (NEW)
	20 QUESTIONNAIRE/FORMS (IN PROCESS)
	21 QUESTIONNAIRE/FORMS (COMPLETED)

Screen Number and Title	
22	LAB ORDERS QUEUE
23	LAB ORDERS (NEW)
24	LAB ORDERS (AWAITING RESULTS)
25	LAB ORDERS (VOIDED)
26	LAB ORDERS (CLOSED)
27	LAB RESULTS QUEUE
28	LAB RESULTS (NEW)
29	LAB RESULTS (IN PROCESS)
30	LAB RESULTS (ACCEPTED)
31	LAB RESULTS (VOIDED)
32	INTERPRETATION & FOLLOW UP QUEUE
33	INTERPRETATION & FOLLOW UP (NEW)
34	INTERPRETATION & FOLLOW UP (IN PROCESS)
35	INTERPRETATION & FOLLOW UP (INTERPRETED)
36	CONTACT LOG QUEUE
37	CONTACT LOG DETAILS
38	PATIENT LOOKUP
39	PATIENT LOOKUP DETAILS
40	REPORTING
41	PATIENT LOOKUP DETAILS
42	DATA EXPORT
43	REFERRALS
44	BIO QUESTIONNAIRES
45	FRAGMENT FORMS
46	BIO LABS

Screen Number and Title		
	47	FRAGMENT LABS
	48	RELEGATED DIAGNOSES
	49	CONTACT LOGS
	50	PATIENTS
	51	VTA DATA EXTRACT
	52	DOD FRAGMENT DATA
	53	RELATED LAB TESTS
54	ADMINISTRATION QUEUE	
	55	USERS
	56	ROLE MATRIX
	57	REFERENCE RANGES
	58	AUTO TRIAGE
	59	DOD FRAGMENT DATA
60	HELP	

11. My Tasks > Referrals

Referrals
New
Accepted
Open Cases
Closed Cases
Ineligible

A referral is an indication that the person referred *may* be eligible for inclusion in the EFR. A patient or Veteran may be referred for a variety of reasons, typically including the screening tool used in [CPRS](#).

CATEGORY	SUBCATEGORY	DESCRIPTION	MORE INFO
Referrals	New	Patients who have only the pre-populated information from the VistA data feed	11.1
	Accepted	Patients who have been accepted into the EFR	
	Open Cases	Patients who have been accepted, but whose EFR record is still being processed	11.2
	Closed Cases	Patients who have been accepted, and whose EFR record has been completed	11.3
	Ineligible	Patients who were referred, but who have been deemed ineligible for inclusion in the Registry.	11.5

11.1. My Tasks > Referrals > New

AVAILABILITY: TEFSC Nurse	SCREEN NAME: Referral Queue
ACCESS: To access this screen, select MY TASKS > REFERRALS > NEW	
<p>PURPOSE: The system receives a list of referrals from the VistA system. A TEFSC Nurse uses this screen to see who is in the system and to select an applicable referral. The referral list can be filtered by Status (New, Accepted, Open Cases, Closed Cases, and Ineligible) or by Last Name.</p> <p>Once the Nurse has found the referral of interest, the [Select] button can be used to pull up the referral details screen, as described in Section 11.1.3.</p>	

The Referral Queue screen displays patients who have been referred for possible inclusion in the Registry. Such a referral is typically as a result of the patient's identification as a candidate based on responses to the [CPRS](#) screening tool.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

Referrals
New
Accepted
Open
Closed
Follow Ups
Ineligible
Lab Kits
New
Tracking
Received
Voided
Questionnaires/Forms
New
In Process
Completed
Lab Orders
New
Awaiting Results
Voided
Closed
Lab Results
New
In Process
Accepted
Voided
Interpretation & Follow Up
New
In Process
Interpreted
Contact Logs
All Contacts

MY TASKS > REFERRALS > NEW

Filter by Last Name:

To sort please click table headings

Ref #	Patient Name	Site #	Facility	Referral Date	Status	
72079	LastNameAFJAHJ, Patient X	562	ERIE VAMC	2/10/2008	New	Select
72077	LastNameDOJDOH, Patient X	612	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	1/11/2005	New	Select
72076	LastNameAAEFHCJ, Patient X	668	SPOKANE VAMC	1/26/2006	New	Select
72075	LastNameAFFOFGE, Patient X	528	VA HEALTHCARE NETWORK UPSTATE NEW YORK SYSTEM - BUFFALO DIVISION	6/8/2005	New	Select
72074	LastNameEBBOEJ, Patient X	663	PUGET SOUND HEALTH CARE SYSTEM - SEATTLE DIVISION	5/12/2008	New	Select
72073	LastNameBDFJOD, Patient X	518	BEDFORD VAMC	4/19/2011	New	Select
72072	LastNameADFBDC, Patient X	657	VA HEARTLAND-EAST, VISN 15 HCS JOHN COCHRAN MEMORIAL HOSPITAL	6/28/2002	New	Select
72071	LastNameDOFGFJ, Patient X	691	VA GREATER LOS ANGELES HEALTHCARE SYSTEM - WEST LOS ANGELES DIVISION	5/9/2003	New	Select
72070	LastNameACDCFC, Patient X	691	VA GREATER LOS ANGELES HEALTHCARE SYSTEM - WEST LOS ANGELES DIVISION	9/30/2005	New	Select
72069	LastNameECCDO, Patient X	541	CLEVELAND VAMC	5/21/2008	New	Select

1 2 3 4 5 ... >>

Figure 44 – Referral Queue

EFRA displays a list of records that are available to you. Your task is to look at the new referrals, and then to “triage” those referrals and ensure that there is a single unique record for each patient who is to be admitted to the Registry. This screen shows new patients brought into the system by the data feed from [VistA](#). On the screen, you see the basic “person identifiers” for the patients:

INCLUDES:

All data elements are pre-populated text unless otherwise noted.

- Filter by Last Name [textbox]
 - **[Go]** button
 - **[Clear]** button
- *Ref #:* The referral number, a unique personal identifier that is internal to EFRA—it’s easier to remember than the long Social Security Number (SSN).
- *Patient Name:* The patient’s last name followed by the first name.
- *Site #:* The facility that referred the patient.
- *Referral Date:* The date the record was received from the [NDS](#).
- *Status:* There are four possible status indicators for referrals. All referrals listed on this screen should be NEW.
 - NEW
 - [ACCEPTED] OPEN CASES

- [ACCEPTED] CLOSED CASES
- INELIGIBLE
- Click the **[Select]** button on the right of the row containing the record in order to view or edit the record. **MORE INFORMATION:** [11.1.3](#)
- **Paging:** When more than one page of results is available, use the numbered links (1 2 3...) at the bottom of the page to move forward or back.



Important: There are two internal identifying numbers that you need to know about and distinguish between:

Ref # or **Referral Number** identifies a record of a patient who has been referred for consideration. This is pre-assigned by the system.

Workflow ID: [TEFSC](#) may set up workflows for Biomonitoring, Fragment Analysis, or Consultation per referral. Those cases are identified by **Workflow ID**. A **Workflow ID** is assigned if the patient referred is accepted into the Registry and a workflow is established (see [Error! Reference source not found.](#)).

When all potential duplicate records for a patient have been resolved, there should only be a single **Ref #** for any given individual. There may, however, be multiple **Workflow IDs** for that patient.

11.1.1. Sorting the List

The default sort order for records displayed on this screen is the **Ref #**, with the highest **Ref #** (that is, the most recent) listed first. You can sort the list by clicking on any of the underlined column headings:

To sort please click table headings

<u>Ref #</u>	<u>Patient Name</u>	<u>Referral Date</u>	<u>Status</u>	
2494	Forty One, Patient X	11/8/2009	New	<input type="button" value="Select"/>

Figure 45 – Sorting Listings

If you have a lengthy list, sorting may take a few seconds. During the sort, a JavaScript® message and a “counter” like this one may appear at the bottom of your browser window:

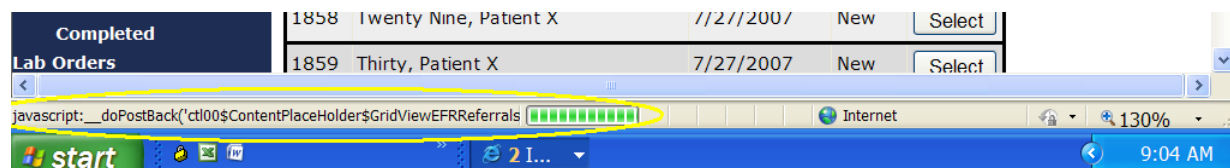


Figure 46 – JavaScript Sort Message and Counter

11.1.2. Filtering by Last Name

You can also filter the list by the patient's last name, as shown in [Figure 47](#). Enter the name you want in the Filter by Last Name: box and then click the **[Go]** button. The sample below shows the result of a search for patient(s) with a last name that includes "Six."

The screenshot shows the 'Embedded Fragments Registry' interface. At the top, there is a navigation bar with tabs for 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. Below this is a sidebar menu with categories like 'Referrals', 'Lab Kits', and 'Tracking'. The main content area displays a search filter 'Filter by Last Name: LastName' with 'Go' and 'Clear' buttons. Below the filter is a table with the following data:

Ref #	Patient Name	Site #	Facility	Referral Date	Status	
72079	LastNameAFJAHJ, Patient X	562	ERIE VAMC	2/10/2008	New	Select
72077	LastNameDOJDOH, Patient X	612	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	1/11/2005	New	Select

Figure 47 – Search Results

You can also clear the search results (thereby restoring the original list) by clicking the **[Clear]** button.

11.1.3. My Tasks > Referrals > New > Ref # NNNN

AVAILABILITY: TEFSC Nurse	SCREEN NAME: Referral Details (New)
ACCESS: To access this screen, click [Select] button at the right side of the row containing the patient's name on the screen which lists new referrals.	
PURPOSE: A TEFSC Nurse reviews a patient's case by looking at the health factors that were created in VistA for that patient. The Nurse decides whether to accept or reject that patient from the Registry. If the patient is being accepted, the Nurse decides if a biomonitoring or fragment analysis workflow needs to be created for that patient. If there are errors in either health factors or the referral's metadata, the Nurse can edit those items and save them. A Nurse can go back to an already existing (saved) referral and review/change the patient's metadata and health factors. Additionally, the Nurse can create additional biomonitoring or fragment analysis workflows. This functionality is available for patients who require a follow up treatment.	

After you select a record from the NEW REFERRALS list, you will see the detail screen which shows all the information currently available about the selected patient.



Note: The screen for this task occupies a great deal of monitor width. You may have to scroll right and left as well as up and down when viewing or working on this screen. Some screen shots which follow do not show the banner, tabs, breadcrumbs, or the **LEFT NAVIGATION BAR**. Other screen shots may be divided in order to show all the contents. Finally, some screen displays shown below are in landscape format to provide greater width in this document.

When you select a patient record from the REFERRAL > NEW list, the record for that referral is presented using several panels containing information about the patient and the referral. Using [CPRS](#) as your source, make all the entries that you can, and then do the referral triage. For information about how the information is obtained and organized in CPRS, see [Sample CPRS Screen Shots](#).

11.1.3.1. My Tasks > Referrals > New > Ref # NNNN

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients
My Tasks
Reporting
Administration
Help
Check System

Referrals
New
Accepted
Open
Closed
Follow Ups
Ineligible
Lab Kits
New
Tracking
Received
Voided
Questionnaires/Forms
New
In Process
Completed
Lab Orders
New
Awaiting Results
Voided
Closed
Lab Results
New
In Process
Accepted
Voided
Interpretation & Follow Up
New
In Process
Interpreted
Contact Logs
All Contacts

MY TASKS > REFERRALS > NEW > REFERRAL # 72104

Patient

ICN: 1455781331	Name: LastNameDJEADD_Patient X	Zip: 00600	SSN: 000248197	DOB: 9/6/1973
OEF/OIF Indicator: Yes	<input type="checkbox"/> Iraq/Afghan Service	Service Separation Date:		

Referral Details

Referral Date: 5/14/2012 Created By: HARRIS\kvajja

Risk Category

This screening tool indicates that the veteran likely does not have a retained fragment as a result of injuries sustained while serving in the area of conflict

Veterans Affairs Medical Center

Facility Name: (6049AA) AMARILLO VA HEALTH CARE CENTER	Contact Name: <input type="text"/>
Address 1: 6010 AMARILLO BLVD W	Contact Email: <input type="text"/>
Address 2: <input type="text"/>	Contact Phone: <input type="text"/>
Address 3: <input type="text"/>	Contact FAX: <input type="text"/>
City: AMARILLO	
State: TX	
Zip/Postal: 79106	
Country: United States	

Primary Care Physician

Name: <input type="text"/>	Address 1: <input type="text"/>
Phone: <input type="text"/>	Address 2: <input type="text"/>
Email: <input type="text"/>	Address 3: <input type="text"/>
FAX Number: <input type="text"/>	City: <input type="text"/>
	State: <input type="text"/>
	Zip/Postal: <input type="text"/>
	Country: <input type="text"/>

Health Factors

<p>Fragments</p> <p><input type="checkbox"/> Embedded Fragments <input type="text"/></p> <p>Present</p> <p><input type="checkbox"/> No Embedded Fragments</p>	<p>Injury Type</p> <p><input type="checkbox"/> Bullet Injury</p> <p><input type="checkbox"/> No Bullet Injury</p> <p><input type="checkbox"/> Blast/Explosion Injury</p> <p><input type="checkbox"/> No Blast/Explosion Injury</p>	<p>Blast/Explosion Type</p> <p><input type="checkbox"/> IED</p> <p><input type="checkbox"/> RPG</p> <p><input type="checkbox"/> Land Mine</p> <p><input type="checkbox"/> Grenade</p> <p><input type="checkbox"/> Enemy Fire</p> <p><input type="checkbox"/> Friendly Fire</p> <p><input type="checkbox"/> Unknown Type <input type="text"/></p> <p><input type="checkbox"/> Other</p>
<p>Fragments In Body</p> <p><input type="checkbox"/> Fragments in Body</p> <p><input type="checkbox"/> No Fragments in Body</p> <p><input type="checkbox"/> Unknown if Fragments In Body</p>	<p>Radiography</p> <p><input type="checkbox"/> Fragments on Radiograph</p> <p><input type="checkbox"/> Not Documented on Radiograph</p> <p><input type="checkbox"/> Unknown if Fragments on Radiograph</p>	<p>Vehicle</p> <p><input type="checkbox"/> In Vehicle</p> <p><input type="checkbox"/> Not In Vehicle</p>
<p>Surgery</p> <p><input type="checkbox"/> Fragments Removed in Surgery</p> <p><input type="checkbox"/> Fragments Not Removed in Surgery</p> <p><input type="checkbox"/> Unknown if Removed in Surgery</p>	<p>Laboratory</p> <p><input type="checkbox"/> Fragments Sent To Lab</p> <p><input type="checkbox"/> Fragments Not Sent To Lab</p> <p><input type="checkbox"/> Unknown if Fragments Sent To Lab</p>	<p>Unable to Screen</p> <p><input type="checkbox"/> Acute Illness <input type="text"/></p> <p><input type="checkbox"/> Severe Cognitive Impairment</p> <p><input type="checkbox"/> Refused Screening Tool</p>

This patient DOES NOT HAVE a matching entry in the DoD fragment data extract file.

DoD Fragment Data Received:

Triage Referral

Accept

For Biomonitoring

For Fragment Analysis

Accepted - No Action Required

Ineligible

Ineligibility Reason

Figure 48 – Referral Details (New)

INCLUDES:

- *Patient panel*
 - *ICN | Name | SSN | DOB*
 - *OEF/OIF Indicator | Iraq/Afghan Service | Service Separation Date*
- **Referral Details panel**
 - Pre-populated text:
 - *Referral Date [when the patient was referred]*
 - *Date Sent to [TEFSC](#) [when the record was sent to TEFSC]*
 - *Reviewed Date [date the record was triaged]*
 - *Reviewed By [name of individual who performed the record triage]*
 - **Risk Category** panel pre-populated using [CPRS](#) information; calculated based on what health factors the referral has.

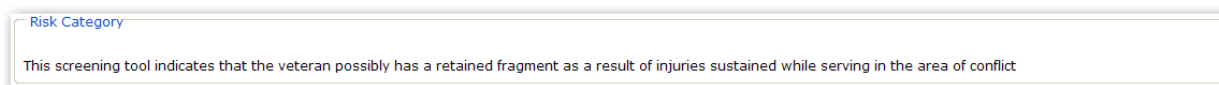


Figure 49 – Risk Category Description

Possible choices on the drop-down list:

- This screening tool indicates that the patient has a high likelihood of having a retained fragment
- This screening tool indicates that the patient has had a fragment removed at surgery or has a documented retained fragment
- This screening tool indicates that the Veteran likely does not have a retained fragment as a result of injuries sustained while serving in the area of conflict
- This screening tool indicates that the Veteran possibly has a retained fragment as a result of injuries sustained while serving in the area of conflict
- **Veterans Affairs Medical Center** panel [medical center where the patient is currently being seen]
 - Facility Name [select from drop-down list; address, city, state ZIP and country fields are automatically populated within a few seconds after you select a name... but the entries can be changed if necessary.]
 - Address 1, 2, 3
 - City | State | ZIP/Postal
 - Country
 - Contact Name
 - Contact Email
 - Contact Phone
 - Contact Fax
- **Primary Care Physician** panel [all text boxes]
 - Name

- Phone
 - Email
 - Fax Number
 - Address 1,2,3
 - City | State | ZIP/Postal
 - Country
- **Health Factors** panel [all checkboxes unless otherwise indicated]
 - **Fragments** panel
 - Embedded Fragments Present
 - No Embedded Fragments
 - **Injury Type** panel
 - Bullet Injury
 - No Bullet Injury
 - Blast/Explosion Injury
 - No Blast/Explosion Injury
 - **Blast/Explosion Type** panel
 - IED
 - RPG
 - Land Mine
 - Grenade
 - Enemy Fire
 - Friendly Fire
 - Unknown Type
 - Other
 - Other Blast/Explosion type [text box]
 - **Fragments in Body** panel
 - Fragments in Body
 - No Fragments in Body
 - Unknown if Fragments in Body
 - **Radiography** panel
 - Fragments on Radiograph
 - Not Documented on Radiograph
 - Unknown if Fragments on Radiograph
 - **Vehicle** panel
 - In Vehicle
 - Not in Vehicle
 - **Surgery** panel
 - Fragments Removed in Surgery
 - Fragments Not Removed in Surgery
 - Unknown if Removed in Surgery
 - **Laboratory** panel

- Fragments Sent to Lab
- Fragments Not Sent to Lab
- Unknown if Fragments Sent to Lab
- **Unable to Screen** panel
 - Acute Illness
 - Acute Illness type [text box]
 - Severe Cognitive Impairment
 - Cognitive Impairment type [text box]
 - Refused Screening Tool
- **[View DoD EMFR Related Data]** button displays the [VTA Patient Details](#).
- The EFRA displays whether or not the patient has a matching entry in the DoD data extract file and the date that data was received.
- **Triage Referral** panel

Review the data entries you have made. When you have decided the disposition, check one of the primary radio buttons under **Triage Referral** to indicate whether your triage decision for this patient is to...

The screenshot shows a web form titled "Triage Referral". It contains three radio button options: "Accept", "Accepted - No Action Required", and "Ineligible". The "Accept" option is selected and is enclosed in a dashed box. Inside this box are two checkboxes: "For Biomonitoring" and "For Fragment Analysis". The "Ineligible" option is also enclosed in a dashed box and includes a text input field labeled "Ineligibility Reason". Below the form are three buttons: "Save", "Back", and "Add Contact".

Figure 50 – Triage Referral Options

- **Accept** the patient into the Registry. This creates a “workflow” in the system, meaning that some action must be taken and followed. Selecting the **Accept** option will make the three “**For**” choices available. You may check one, two or all three. *If* you select **Accept**, one or more of the following choices *must* also be checked:
 - **For Biomonitoring**
 - **For Fragment Analysis**
 - **For Consultation**

- **Accepted – No Action Required.** This triage status means that the patient is included in the Registry without any follow up activity (e.g., biomonitoring, fragment analysis, clinical consultation). Consequently, no workflow is involved and, essentially, these records just sit in the Registry. In the future, Biomonitoring, Fragment Analysis, or a Clinical Consultation may be performed for the patient. Also, the EFR may collect lab test results and ICD-9 codes of interest from the patient’s facility (this functionality is expected in Build 2).
- **Ineligible**
 - **Ineligibility Reason** (text entry). If **Ineligible** is selected, a reason for the patient’s ineligibility *must* be entered. This is a free-text field.

After you click **[OK]** at the bottom of the screen, and assuming the save is successful, you will see a popup indicating a successful save:

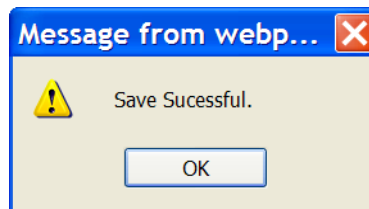


Figure 51 – Save Successful Popup

Click **[OK]** to dismiss the popup.

The **Triage Referral** panel is replaced by either the **Workflows** panel display or the **Triage Status** panel display.

If you selected one or more of the three **Accept for** choices, you see the **Workflows** panel display. If you checked more than one **Accept for** choice, all will show up on the workflow display. Note the **Workflow ID** which has now been assigned in each case.

Accept for Biomonitoring				Accept for Fragment Analysis																			
<p>Workflows</p> <p>To sort please click table headings</p> <table border="1"> <thead> <tr> <th>Case #</th> <th>Workflow Name</th> <th>Workflow Status</th> <th>Last Updated</th> </tr> </thead> <tbody> <tr> <td>2202</td> <td>Biological Monitoring</td> <td>In-Process</td> <td>2/8/2010</td> </tr> </tbody> </table> <p>(Select One) <input type="button" value="Add Workflow"/></p>				Case #	Workflow Name	Workflow Status	Last Updated	2202	Biological Monitoring	In-Process	2/8/2010	<p>Workflows</p> <p>To sort please click table headings</p> <table border="1"> <thead> <tr> <th>Case #</th> <th>Workflow Name</th> <th>Workflow Status</th> <th>Last Updated</th> </tr> </thead> <tbody> <tr> <td>2205</td> <td>Fragment Analysis</td> <td>In-Process</td> <td>2/8/2010</td> </tr> </tbody> </table> <p>(Select One) <input type="button" value="Add Workflow"/></p>				Case #	Workflow Name	Workflow Status	Last Updated	2205	Fragment Analysis	In-Process	2/8/2010
Case #	Workflow Name	Workflow Status	Last Updated																				
2202	Biological Monitoring	In-Process	2/8/2010																				
Case #	Workflow Name	Workflow Status	Last Updated																				
2205	Fragment Analysis	In-Process	2/8/2010																				
<p>Accept for Consultation</p> <p>Workflows</p> <p>To sort please click table headings</p> <table border="1"> <thead> <tr> <th>Case #</th> <th>Workflow Name</th> <th>Workflow Status</th> <th>Last Updated</th> </tr> </thead> <tbody> <tr> <td>2204</td> <td>Consultation</td> <td>In-Process</td> <td>2/8/2010</td> </tr> </tbody> </table> <p>(Select One) <input type="button" value="Add Workflow"/></p>				Case #	Workflow Name	Workflow Status	Last Updated	2204	Consultation	In-Process	2/8/2010												
Case #	Workflow Name	Workflow Status	Last Updated																				
2204	Consultation	In-Process	2/8/2010																				

Figure 52 – Triage - “Accept for...” Workflow Displays

If you selected **Accepted – No Action Required**, you see the Accepted - No Action Required display.

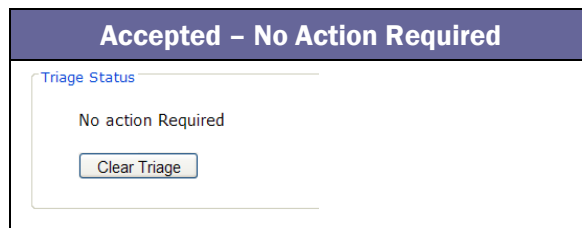


Figure 53 – Triage - Accepted - No Action Required Display

If you selected **Ineligible**, then that display appears.

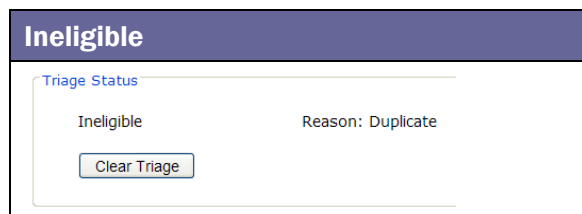


Figure 54 – Triage - Ineligible Status Display

11.1.3.2. VTA Patient Details

If a referred patient has a matching entry in the VTA extract file, the EFRA will display the **[View DoD EMFR Related Data]** button to view the VTA data extract data. Matches are performed automatically and the contained data on the VTA Extract screen is display only.

The screenshot displays the 'Embedded Fragments Registry' interface for the United States Department of Veterans Affairs. The top navigation bar includes 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. A left-hand menu lists various categories such as 'Referrals', 'Lab Kits', 'Questionnaires/Forms', 'Lab Orders', 'Lab Results', 'Interpretation & Follow Up', and 'Contact Logs'. The main content area shows the breadcrumb path: 'MY TASKS > REFERRALS > NEW > VTA EXTRACT DISPLAY > REF # 71745'. Below this, the 'VTA Patient Information Details' section lists the following fields and values:

- SSN: 000156777
- Patient ICN:
- Patient Name: Test Patient7
- Street Address:
- City: San Diego
- State: CA
- Zip/Postal Code: 00600
- Country:
- Home Phone: 111-555-0000
- Work Phone:
- OEF/OIF Indicator: 2
- Date of Birth: 8/27/1955
- Date of Death:
- Gender: F
- Service Branch Code: A

Below the patient information is the 'Case Definition Details' section, which contains a table with the following data:

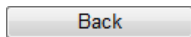
ICD9 Code	Description
011.36	TUBERCULOSIS OF BRONCHUS, TUBERCLE BACILLI NOT FOUND BY BACTERIOLOGICAL OR HISTOLOGICAL EXAMINATION BUT TUBERCULOSIS CONFIRMED BY OTHER METHODS [INOCULATION OF ANIMALS]

At the bottom of the case definition details is a 'SOAP Note Keywords' section with the value 'Embedded'. A 'Back' button is located at the bottom center of the page.

Figure 55 – VTA Extract Patient Information

INCLUDES:

- **VTA Patient Information Details** panel
 - *SSN*
 - *Patient ICN*
 - *Patient Name*
 - *Street Address*
 - *City*
 - *State*
 - *Zip/Postal Code*
 - *Home Phone*
 - *Work Phone*
 - *OEF/OIF Indicator*
 - *Date of Birth*
 - *Date of Death*
 - *Gender*
 - *Service Branch Code*
- **Case Definition Details** panel
 - *ICD9 Code* / *Description*
 - *Soap Note Keywords*



Click **[Back]** to return to the patient referral record.

11.1.3.3. Adding a Workflow

If you have chosen one, but not all, of the **Accept** options, you can add another workflow if desired; select another workflow from the drop-down list in the **Workflows** panel:

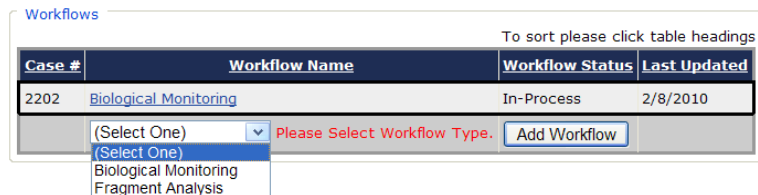
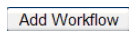


Figure 56 – Adding a Workflow



After you make your selection, click **[Add Workflow]**. The Workflows panel redispays:

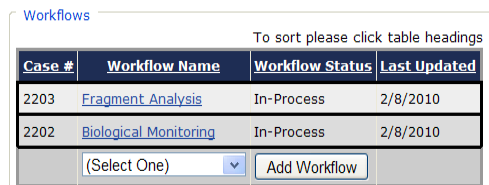


Figure 57 – Added Workflow Display

This process may be done during the initial triage review, or later (after the record has been saved).

Clear Triage panel

If you select **Accepted – No Action Required** or **Ineligible**, you can use the **[Clear Triage]** button to reverse the choice. The screen redisplay and again presents the **Triage Referral** panel. You cannot use this option, however, if you have already selected one of the **Accept** choices.

11.1.3.4. Adding Contact Information

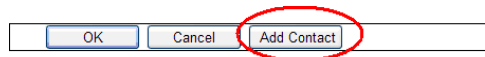


Figure 58 – Add Contact Button

OPTIONAL

You can also add a contact name and other information, independent of the triage decision or other data you record. Click the **[Add Contact]** button at the bottom of the screen. **MORE INFORMATION:** [17.3.1 below](#)

11.1.3.5. Saving the Triage

When you have recorded the referral triage decision (and ineligibility reason, if applicable) you can...

Click the **[Cancel]** button to discard the changes you have made and return to **MY TASKS > REFERRALS > NEW**.

Click the **[OK]** button to save the record. When you click **[OK]**, and assuming the save is successful, you will see a popup indicating this:

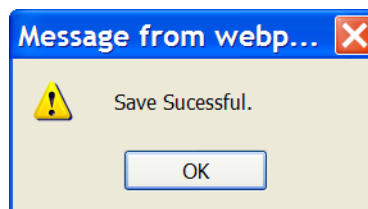


Figure 59 – Save Successful Popup

Click **[OK]** to dismiss the popup. The record is saved and you may safely leave the screen. Use the **LEFT NAVIGATION BAR** to choose your next task.

11.1.3.6. Handling Duplicate Referrals

From time to time, you may run across duplicate referrals. These are records which come into your task queue and which are for the same person. Such records may be caused by a variety of situations. For example, perhaps the patient visited two different facilities in rapid succession and a referral was generated at each facility. Regardless of the reason, such duplicates must be resolved, because each patient admitted to the Registry must have a single referral record.

Please see the two-part illustration below.

The screenshot shows a web interface for a referral system. At the top, a dark red banner contains the text "MY TASKS > REFERRALS > NEW > REF # 2490". Below this, a white box displays patient information: "Patient ICN: 227249357", "Name: Four Hundred Sixteen, Patient X", "SSN: 000353534P", and "DOB: 5/7/1980". A red dotted border surrounds a warning section titled "Duplicate" in red text. The warning message states: "This is a duplicate of a previously triaged referral. You will not be able to accept it, but may review and edit the previously triaged referral by following the link below." Below the message is a blue hyperlink: "Go to Previously Triaged Referral". The form continues with a "Referral Details" section containing fields for "Referral Date: 11/7/2009", "Date Sent to TEFSC: 1/1/2009", "Reviewed Date:", and "Reviewed By:". A "Risk Category" section contains the text: "This screening tool indicates that the veteran possibly has a retained fragment as a result of injuries sustained while serving in the area of conflict". The "Veterans Affairs Medical Center" section includes a dropdown menu for "Facility Name" (selected as "(512GD) BALTIMORE CBOC") and input fields for "Address 1" through "Address 3", "City", "State", "Zip/Postal", and "Country". To the right of these fields are input fields for "Contact Name", "Contact Email", "Contact Phone", and "Contact FAX". The "Primary Care Physician" section contains input fields for "Name", "Phone", "Email", and "FAX Number", and dropdown menus for "Address 1" through "Address 3", "City", "State", "Zip/Postal", and "Country".

Figure 60 – Duplicate Records

Note the warning banner at the top of the form, advising you that this is a duplicate record.

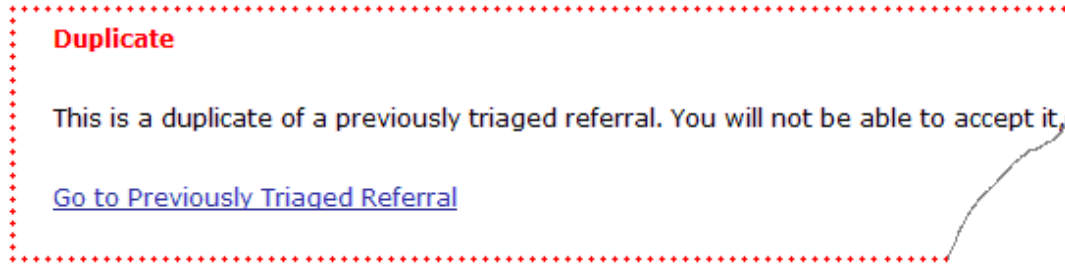
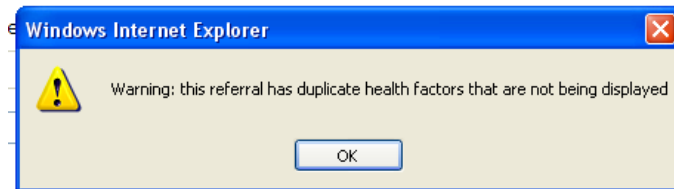


Figure 61 – Duplicate Record Warning Banner

The duplicate record is automatically marked as Ineligible. However, it can be changed to eligible and edited. Any edits made to a duplicate record are for that record only and will not affect the previous referral. A link is provided to that previous record ([Go to Previously Triaged Referral](#)) as shown in [Figure 61](#).

11.1.3.7. Duplicate Health Factor

Certain referrals may contain multiple health factors of the same type indicated for a single referral, as received by the EFR application from the source system. When you encounter this issue, the system will display a warning message.



To continue editing the record, click **[Ok]**; the record will be editable. Contact the Harris Helpdesk and resolve the duplicate on the database side.

11.2. My Tasks > Referrals > [Accepted] Open Referrals

AVAILABILITY: See Table 4 – Tasks by Role	SCREEN NAME: Referral Queue
ACCESS: To access this screen, select MY TASKS > REFERRALS > [ACCEPTED] OPEN	

OPEN Referrals are those which have been accepted into the Registry and for which a workflow (*i.e.*, Biomonitoring, Fragment Analysis, or Consultation) has been recommended, but for which the workflow is not yet complete.

The application will display a list of records that are available to you. This provides a method for you to check on progress of Open Cases records, or to provide updates if needed. On this screen, you see the usual basic person identifiers for the patients.

Records are listed in the same manner as for NEW records.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

Referrals
New
Accepted
Open
Closed
Follow Ups
Ineligible
Lab Kits
New
Tracking
Received
Voided
Questionnaires/Forms
New
In Process
Completed
Lab Orders
New
Awaiting Results
Voided
Closed

MY TASKS > REFERRALS > OPEN

Filter by Last Name: Go Clear

To sort please click table headings

Ref #	Patient Name	Site #	Facility	Referral Date	Status	
2500	Five Hundred Nine, Patient X	460HO	SALEM CITY MORC	11/8/2009	Open	Select
2498	Five Hundred Twenty Seven, Patient X	5039AA	ALTOONA (NHCU)	11/8/2009	Open	Select
2497	Four Hundred Eight, Patient X	673GF	ZEPHYRHILLS CBOC	11/8/2009	Open	Select
2496	Four Hundred Seventy Seven, Patient X	603GE	VA HEALTHCARE CENTER, NEWBURG	11/8/2009	Open	Select
2491	Three Hundred Eighty One, Patient X	618GG	ROCHESTER (CBOC)	11/8/2009	Open	Select
2490	Four Hundred Sixteen, Patient X	512GD	BALTIMORE CBOC	11/7/2009	Open	Select
2486	One Hundred Fifty Eight, Patient X	693GA	SAYRE OPC	11/8/2009	Open	Select
1816	Four Hundred Forty, Patient X	544CN	COLUMBIA, SC ARMY HOSP	10/20/2007	Open	Select
6	Two, Patient X	556BU	NORTH CHICAGO (DOM)	7/20/2009	Open	Select

Figure 62 – [Accepted] Open Referrals

Select Select a record to look at or work on by clicking the **[Select]** button at the right of the row containing the record. The process of editing the record is the same as shown under MY TASKS > REFERRALS > NEW, starting at [11.1.3 above](#).

11.3. My Tasks > Referrals > [Accepted] Closed Referrals

AVAILABILITY: See Table 4 – Tasks by Role	SCREEN NAME: Referral Queue
ACCESS: To access this screen, select MY TASKS > REFERRALS > [ACCEPTED] CLOSED	

CLOSED Referrals are those which have been triaged and for which...

- No action has been recommended, or...
- Any recommended [workflow](#) has been completed

A referral is considered CLOSED when all workflows associated with that referral have been completed. If the patient is accepted into the Registry and triaged as ACCEPTED/NO ACTION, that patient record would appear as CLOSED immediately because there is no workflow involved.

If you don't see this screen, select the REFERRALS > [ACCEPTED] CLOSED task. The application will display a list of records that are available to you. This provides a method for you to check on progress of Closed Cases records, or to provide updates if needed. On this screen, you see the usual basic person identifiers for the patients.

Records are listed in the same manner as for NEW records (see [Figure 63](#)).

The screenshot shows the 'Embedded Fragments Registry' interface. The top navigation bar includes 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. A left-hand menu lists various referral statuses: 'New', 'Accepted', 'Open', 'Closed', 'Follow Ups', 'Ineligible', 'Lab Kits', 'New', and 'Tracking'. The main content area is titled 'MY TASKS > REFERRALS > CLOSED'. Below the title is a search filter 'Filter by Last Name:' with an input field, 'Go', and 'Clear' buttons. A note says 'To sort please click table headings'. A table displays one record:

Ref #	Patient Name	Site #	Facility	Referral Date	Status	
2495	Three Hundred Seventeen, Patient X	520CA	GULFPORT (PHARM)	11/8/2009	Closed	Select

Figure 63 – [Accepted] Closed Referrals

It may be necessary to later view these records, or to change data previously entered in light of new information that has become available. Only minimal demographic data and the triage decision are stored in the database.

Select a record to look at or work on by clicking the **[Select]** button at the right of the row containing the record. The process of editing the record is the same as shown under MY TASKS > REFERRALS > NEW, starting at [11.1.3 above](#).

11.4. My Tasks > Referrals > [Accepted] Follow Ups

AVAILABILITY: See Table 4 – Tasks by Role	SCREEN NAME: Referral Queue
ACCESS: To access this screen, select MY TASKS > REFERRALS > [ACCEPTED] FOLLOW UPS	

FOLLOW UPS are those which have been triaged and for which a reminder has been created (see [7.4 above](#)).

If you don't see this screen, select the REFERRALS > [ACCEPTED] FOLLOW UPS task. The application will display a list of records that are available to you. This provides a method for you to review records tagged for follow-up, or to provide updates if needed. On this screen, you see the usual basic person identifiers for the patients.

Records are listed in the same manner as for NEW records (see [Figure 63](#)).

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

Referrals
New
Accepted
Open
Closed
Follow Ups
Ineligible
Lab Kits
New
Tracking
Received
Voided
Questionnaires/Forms
New
In Process
Completed
Lab Orders
New
Awaiting Results
Voided
Closed

MY TASKS > REFERRALS > FOLLOW UPS

Filter by Last Name: Go Clear

To sort please click table headings

Referral #	Patient Name	Site #	Facility	Reason	Due Date	Remind Me On	
1816	Four Hundred Forty, Patient X	544CN	COLUMBIA, SC ARMY HOSP	Needs Follow-Up Biomonitoring	8/26/2010	8/27/2010	Select
6	Two, Patient X	556BU	NORTH CHICAGO (DOM)	Needs Follow-Up Biomonitoring	8/26/2010	8/27/2010	Select
6	Two, Patient X	556BU	NORTH CHICAGO (DOM)	Needs Follow-Up Biomonitoring	8/27/2010	8/28/2010	Select
2500	Five Hundred Nine, Patient X	460HO	SALEM CITY MORC	Needs Follow-Up Contact	9/18/2010	9/17/2010	Select
2490	Four Hundred Sixteen, Patient X	512GD	BALTIMORE CBOC	Needs Follow-Up Biomonitoring	8/26/2015	7/1/2015	Select
2496	Four Hundred Seventy	603GE	VA HEALTHCARE CENTER,	Needs Follow-Up	9/13/2015	8/1/2015	Select

Figure 64 – [Accepted] Follow Ups

It may be necessary to later view these records, or to change data previously entered in light of new information that has become available.

Select a record to look at or work on by clicking the **[Select]** button at the right of the row containing the record. The process of editing the record is the same as shown under MY TASKS > REFERRALS > NEW, starting at [11.1.3 above](#).



Note: You may also see these records at startup, when the Follow Up Event Reminders screen displays (see [7.4 above](#)).

11.5. My Tasks > Referrals > Ineligible

AVAILABILITY: See [Table 4 – Tasks by Role](#) SCREEN NAME: Referral Queue

ACCESS: To access this screen, select MY TASKS > REFERRALS > INELIGIBLE

These are records which have been through the triage process and marked as **Ineligible**. The system retains the referral even if it is deemed ineligible. The referral details cannot be edited after it is deemed ineligible; you can, however, clear the triage— which makes the referral no longer ineligible, and returns it to the REFERRAL > NEW queue.



Important: Changing status from Ineligible to another status should normally be done only in the event new evidence of fragments is found.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

My Tasks Patients Administration

MY TASKS > REFERRALS > INELIGIBLE

Filter by Last Name:

To sort please click table headings

Ref #	Patient Name	Referral Date	Status	
1869	Two Hundred Forty Seven, Patient X	7/27/2007	Ineligible	<input type="button" value="Select"/>
1867	Two Hundred Forty Seven, Patient X	7/27/2007	Ineligible	<input type="button" value="Select"/>
1831	One Hundred Eighty Nine, Patient X	11/8/2009	Ineligible	<input type="button" value="Select"/>

Figure 65 – My Tasks > Referrals > Ineligible

If you don't see this screen, select the REFERRALS > INELIGIBLE task. The application will display a list of records that are available to you. This provides a method for you to view Ineligible records, or to provide updates if needed. On this screen, you see the usual basic person identifiers for the patients.

Records are listed in the same manner as for NEW records.

Select a record to look at or work on by clicking the **[Select]** button at the right of the row containing the record. The process of editing the record is the same as shown under MY TASKS > REFERRALS > NEW, starting at [11.1.3 above](#).

Part D. Workflow Processes

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12. Workflow Processes

12.1. Specimen Processes

During the triage process, a referred patient may be accepted into the Registry for a number of purposes, including for Biological Monitoring and/or for Fragment Analysis, each of which involve examination of specimens. Although the tests for these two types of follow up are different, the basic process is the same.

The patient may be asked to gather a specimen (*e.g.*, urine), a blood sample may be drawn, or fragments may be removed from the patient's body. Any or all of these samples may then be tested for the presence and/or level of various substances.

See [Figure 66 – Specimen Processes](#) for a graphic representation of the common processes for specimens.

For discussions of the workflows, see:

- The Biomonitoring Process: [12.2 below](#)
- The Fragment Analysis Process: [12.3 below](#)

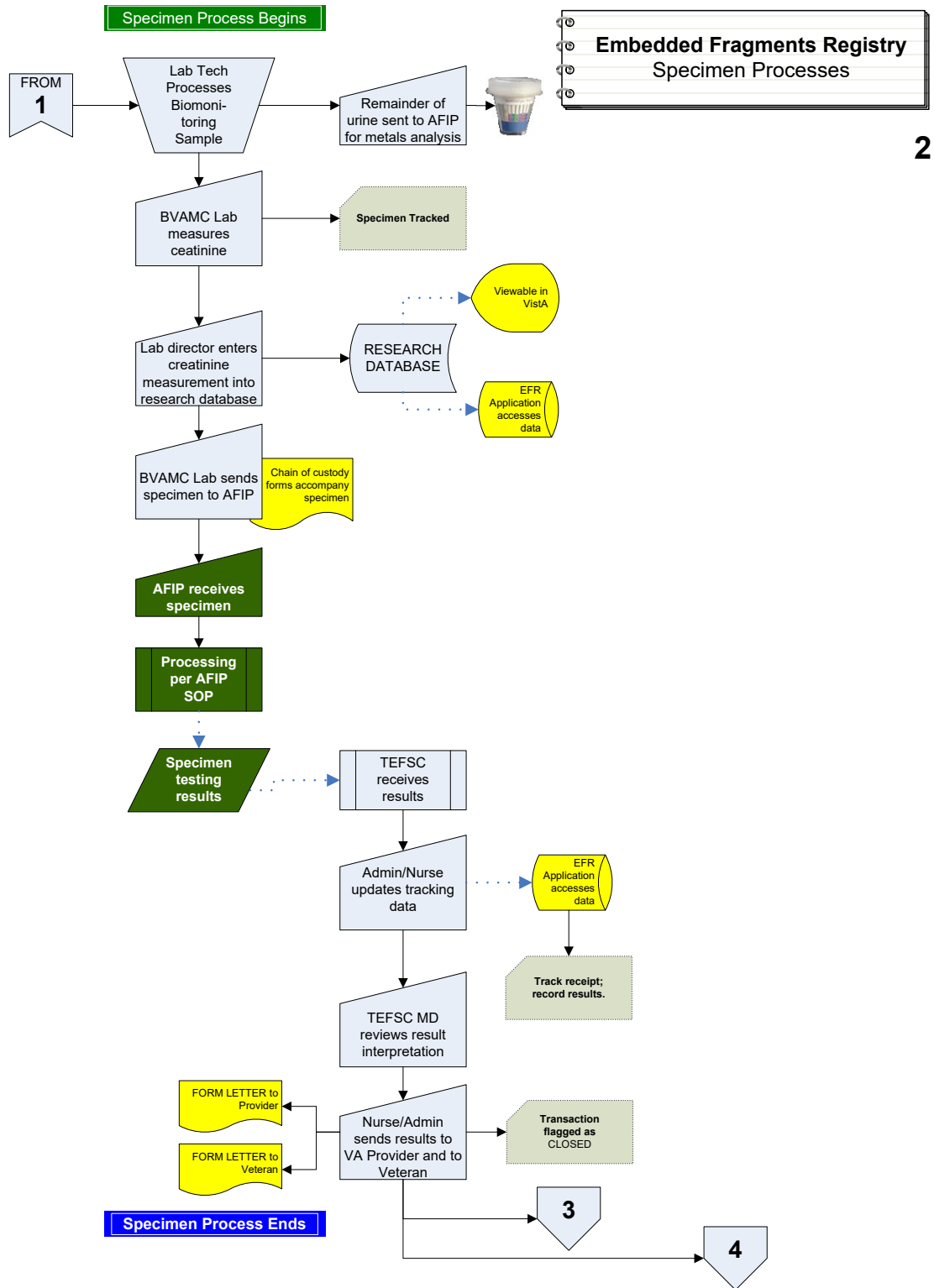


Figure 66 – Specimen Processes

Off-page connectors in [Figure 66](#) refer to:



[Figure 67 – Biomonitoring Process](#)



[Figure 68 – Fragment Analysis Process](#)

12.2. The Biomonitoring Process

Biomonitoring is one of the workflows which may be initiated based on.

Either the [VA](#) Provider may request a biomonitoring lab kit, or the TEFSC Admin Staff may initiate the process.

- TEFSC Admin Staff:
 - Opens Specimen Transaction
 - Notifies [Therapak](#) (vendor) to ship biomonitoring kit(s)
 - Updates the tracking data
- EFRA:
 - Accesses data
 - Tracks receipt
 - Records results
- Therapak:
 - Sends specimen kit, along with instructions and questionnaire, to the [VA](#) requestor
- Patient:
 - Collects a 24-hour urine specimen and completes questionnaire
 - Sends the sample and completed questionnaire to the Home VAMC
- Home VAMC Lab:
 - Sends specimen lot to [BVAMC](#) Lab
 - Notifies [TEFSC](#) by fax that specimen has been sent (and provides tracking number)
- TEFSC Admin Staff:
 - Updates tracking data
- EFRA:
 - Accesses data
 - Tracks receipt
 - Records results
- [BVAMC](#) Lab:

- Receives specimen
- Processes specimen per BVAMC SOP

See [Figure 67 – Biomonitoring Process](#) for a graphic representation of the process.

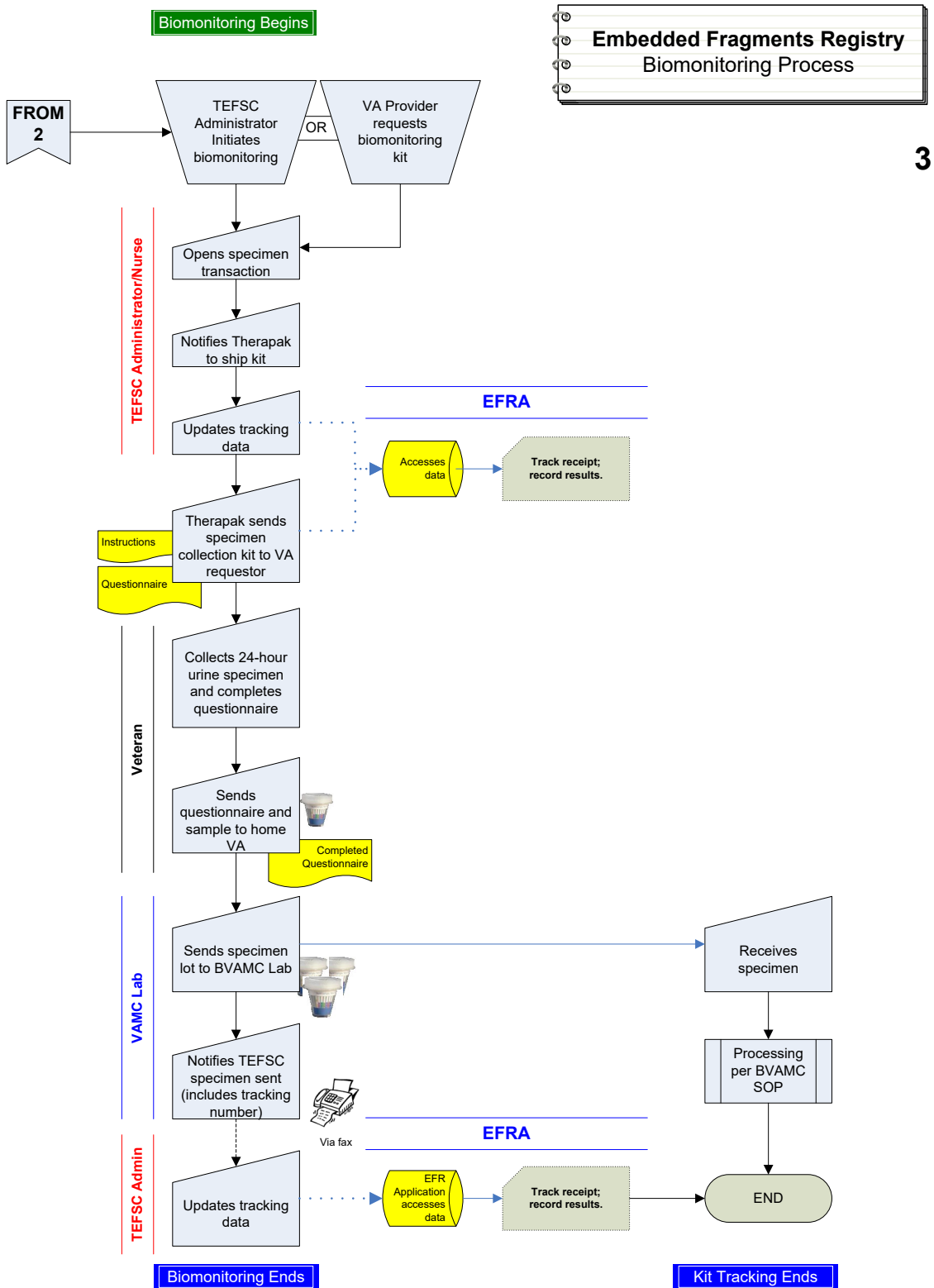


Figure 67 – Biomonitoring Process

12.3. The Fragment Analysis Process

Fragment Analysis may be initiated based on the EFR Process. The VA Provider may request a fragment analysis lab kit, or the TEFSC Admin Staff may initiate the process. See [Figure 68 – Fragment Analysis Process](#) for a graphic representation of the fragment analysis process. Explanatory text continues immediately following the figure.

- TEFSC Admin Staff initiates fragment analysis, or VA Provider requests fragment analysis kit
- TEFSC Admin Staff:
 - Opens fragment transaction
 - Notifies Therapak to ship kit
 - Updates tracking data
- Therapak sends to VA requestor:
 - Fragment collection kit
 - Instructions
 - Checklist
- Requesting VAMC:
 - Removes fragments
 - Prepares fragments for shipment
 - Sends fragment(s) and completed checklist to TEFSC Lab
- TEFSC Admin Staff:
 - Logs sample
 - Pulls questionnaire
 - Assigns ID #
 - Updates tracking data
 - Sends fragments to AFIP
- AFIP:
 - Receives fragments
 - Processes per AFIP SOP
- Whenever TEFSC tracking data is updated, EFRA:
 - Accesses data
 - Tracks receipt
 - Records results

- See [Figure 68 – Fragment Analysis Process](#) for a graphic representation of the process.

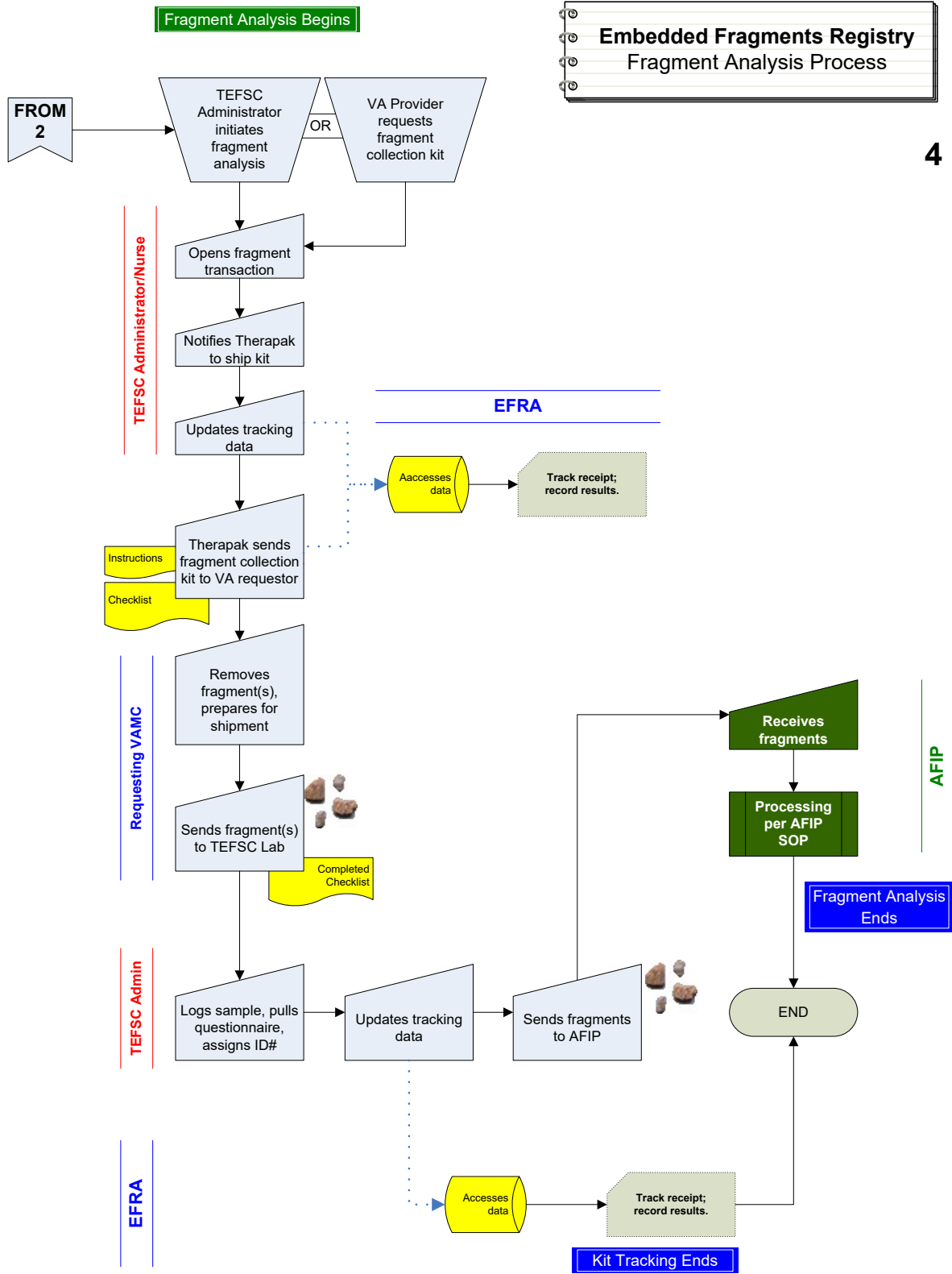


Figure 68 – Fragment Analysis Process

13. My Tasks > Lab Kits

Once patients are accepted into EFR and identified for biomonitoring or fragment analysis, one or more specimen collection kits will be required. For biomonitoring, the local VAMC will supply the patient with a specimen collection kit, while for fragment analysis the VAMC will use a fragment collection kit to gather fragments from the patient's body. These two types of collection kits are usually generically referred to as "lab kits." Oftentimes, the local VAMC stockpiles kits that are used to supply the patient. Some VAMCs, however, do not stock lab kits. EFRA provides the TEFSC Administrator the ability to order kits, either as replacements for kits used from stock or, where stocks are not maintained, to fulfill any orders for patient specimen collections. An order can also be placed to provide a kit for an individual patient or bulk orders may be placed for groups of patients sorted by receiving facility. These orders are not tracked in EFRA.

13.1. My Tasks > Lab Kits > New

AVAILABILITY: EFR TEFSC Administrator	SCREEN NAME: Lab Kit Queue (New)
ACCESS: To access this screen, select MY TASKS > LAB KITS > NEW	
PURPOSE: Whenever the nurse creates a Biomonitoring or Fragment workflow on the referral screen, a blank lab order is being created. All those blank lab orders represent a patient who needs to be provided with a urine sample or fragment kit. The purpose of Kit ordering is to order those kits from a company called Therapak , provide the patient with the kits and track proper receipt of the kit at the laboratory. This Lab Kit Queue represents a list of all lab kits which are in stock or which may need to be ordered, grouped by Institution.	

This screen shows the number of sample kits needed at various hospitals and other facilities, as well as the names of the patients for whom the kits are to be ordered. You can sort the list by any of the underlined headings; see [11.1.1](#) for sorting information. Note that the requirements are initially sorted by Institution Name, and then by the Kit Type (Fragment Analysis or Biological Monitoring). If there are no patients found that require specimen collection kits to be ordered, that fact is shown on screen.

MY TASKS > LAB KITS > NEW

Filter by Last Name:

To sort please click table headings

Facility	Site #	Kit Type	# of Kits	
ALBUQUERQUE CWT/TR <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Five, Patient X - Workflow ID: 2433 	501PC	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
COLUMBIA NON-VA HOSPITAL (CIVIL/PUBLIC) (589DR) <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Six Hundred Four, Patient X - Workflow ID: 2422 	589DR	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
LOCKPORT <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Six Jr, Patient X - Workflow ID: 2436 	528GK	FRAGMENT ANALYSIS	1	<input type="button" value="Select"/>
MALONE CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Eighty Nine, Patient X - Workflow ID: 2434 	528G1	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
MALONE CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Eighty Nine, Patient X - Workflow ID: 2435 	528G1	FRAGMENT ANALYSIS	1	<input type="button" value="Select"/>
PRESTONSBURG CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Forty Nine, Patient X - Workflow ID: 2432 	581GA	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>

Figure 69 – My Tasks > Lab Kits > New

13.1.1. Lab Kits Required Report (Kit Orders Report)

You can get a printout of the list (the “Kit Orders Report”). Here are the steps for using this report to facilitate the process of determining which sites need kits ordered from Therapak versus using their own stock, and recording this information in EFRA.

1. Access the MY TASKS > LAB KITS > NEW screen ([Figure 70](#)):

MY TASKS > LAB KITS > NEW

Filter by Last Name:

To sort please click table headings

Facility	Site #	Kit Type	# of Kits	
ALBUQUERQUE CWT/TR <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Five, Patient X - Workflow ID: 2433 	501PC	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
COLUMBIA NON-VA HOSPITAL (CIVIL/PUBLIC) (589DR) <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Six Hundred Four, Patient X - Workflow ID: 2422 	589DR	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
LOCKPORT <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Six Jr, Patient X - Workflow ID: 2436 	528GK	FRAGMENT ANALYSIS	1	<input type="button" value="Select"/>
MALONE CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Eighty Nine, Patient X - Workflow ID: 2434 	528G1	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
MALONE CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Eighty Nine, Patient X - Workflow ID: 2435 	528G1	FRAGMENT ANALYSIS	1	<input type="button" value="Select"/>
PRESTONSBURG CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Forty Nine, Patient X - Workflow ID: 2432 	581GA	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>

Figure 70 – My Tasks > Lab Kits > New (Report)

2. Click the **[Print Lab Kits Required]** button to generate the report and display it on screen (Figure 71):

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Added Fragments Registry										
Patients My Tasks Reporting Administration Help										
MY TASKS > LAB KITS > NEW > LAB KITS REQUIRED REPORT										
1 of 1 100% Find Next Select a format Export										
Lab Kits Required Report										
Case Id	Facility	Kit Type	Site Contacted	Contacted by Site	Patient Name	VAMC Contact	VAMC Phone	Address	County	Country
2850	BALTIMORE MD VAMC	Biological Monitoring			LastNameCFBBOH, Patient X			10 N. GREENE STREET BALTIMORE, MD 21201-1524		United States
2854	CENTRAL CALIFORNIA HEALTH CARE SYSTEM - FRESNO DIVISION	Fragment Analysis			LastNameAFGFDC, Patient X			2815 East Clinton Avenue FRESNO, CA 93703		United States
2853	CLEVELAND VAMC	Biological Monitoring			LastNameAEAHOG, Patient X			10701 EAST BLVD CLEVELAND, OH 44106		United States
2825	G.V. (SONNY) MONTGOMERY	Biological Monitoring			LastNameACEDBG, Patient X			1500 E. WOODROW WILSON JACKSON, MS 39216		United States
2828	NORTH CHICAGO VAMC	Biological Monitoring			LastNameABGEGGD, Patient X			3001 GREEN BAY ROAD NORTH CHICAGO, IL 60064		United States
2849	NORTH TEXAS HEALTH CARE SYSTEM - DALLAS DIVISION	Biological Monitoring			LastNameECAHHG, Patient X			4500 SOUTH LANCASTER ROAD DALLAS, TX 75216		United States
2844	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	Biological Monitoring			LastNameBBEFEB, Patient X			150 Muir Road MARTINEZ, CA 94553		United States
2824	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	Biological Monitoring			LastNameAOCJOB, Patient X			150 Muir Road MARTINEZ, CA 94553		United States
2818	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	Fragment Analysis			LastNameAFEJJC, Patient X			150 Muir Road MARTINEZ, CA 94553		United States
2855	QUINCY VA DOMICILIARY	Biological Monitoring			Three Hundred Fourteen, Patient X	VAMC Contact 4	111-555-1111	1707 N 12TH STREET QUINCY, IL 62301		United States
2838	QUINCY VA DOMICILIARY	Fragment Analysis			Three Hundred Fourteen, Patient X	VAMC Contact 4	111-555-1111	1707 N 12TH STREET QUINCY, IL 62301		United States
2821	RALPH H. JOHNSON VA MEDICAL CENTER (534)	Biological Monitoring			LastNameABCCJOH, Patient X			109 BEE STREET CHARLESTON, SC 29401-5799		United States
2813	SIOUX FALLS VAMROC	Biological Monitoring			LastNameAOBJAGD, Patient X			P.O. BOX 5048 SIOUX FALLS, SD 57117		United States
2829	SPOKANE VAMC	Biological Monitoring			LastNameAAOFODC, Patient X			4815 N. ASSEMBLY SPOKANE, WA 99205		United States
2840	TOGUS MAINE VAMC	Fragment Analysis			Four Hundred Forty, Patient X	VAMC Contact 4	111-555-1111	, ME 04330		
2827	VA GREATER LOS ANGELES HEALTHCARE SYSTEM - WEST LOS ANGELES DIVISION	Biological Monitoring			LastNameAAEAGE, Patient X			11301 WILSHIRE BLVD LOS ANGELES, CA 90073		United States
2888	VA GULF COAST VETERANS HEALTH CARE SYSTEM	Biological Monitoring			LastNameBGDGCH, Patient X			400 Veterans Ave Biloxi, MS 39531		United States

Figure 71 – Lab Kits Required Report

3. Use this printed report as your work list.
4. Manually mark the report accordingly in the Site Contacted or Contacted By Site columns.
5. In EFRA, return to the LAB KITS/NEW screen.

Filter by Last Name:

To sort please click table headings

Facility	Site #	Kit Type	# of Kits	
ALBUQUERQUE CWT/TR <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Five, Patient X - Workflow ID: 2433 	501PC	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
COLUMBIA NON-VA HOSPITAL (CIVIL/PUBLIC) (589DR) <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Six Hundred Four, Patient X - Workflow ID: 2422 	589DR	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
LOCKPORT <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> Six Jr, Patient X - Workflow ID: 2436 	528GK	FRAGMENT ANALYSIS	1	<input type="button" value="Select"/>
MALONE CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Eighty Nine, Patient X - Workflow ID: 2434 	528G1	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>
MALONE CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Eighty Nine, Patient X - Workflow ID: 2435 	528G1	FRAGMENT ANALYSIS	1	<input type="button" value="Select"/>
PRESTONSBURG CBOC <input type="checkbox"/> Patients requiring kits <ul style="list-style-type: none"> One Hundred Forty Nine, Patient X - Workflow ID: 2432 	581GA	BIOLOGICAL MONITORING	1	<input type="button" value="Select"/>

Figure 72 – Lab Kits Required Report

- For each facility you contacted and marked on the printed report, click the **[Select]** button.
- The Kit Orders details screen will display for the facility you selected.

My Tasks > Lab Kits > New > NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION

Institution: NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION Kit Type: BIOLOGICAL MONITORING

To sort please click table headings

Site Contacted	Contacted By Site	Workflow ID	Patient	Date Contacted (mm/dd/yyyy)	VAMC Contact	VAMC Contact Ph#	Address Line 1	Address Line 2	Address Line 3	City	State	Zip	+4	Country
<input type="checkbox"/>	<input type="checkbox"/>	2624	LastNameA0083B, Patient X	12/22/2011			150 Muir Road			MARTINEZ	CA	94553		United S
<input type="checkbox"/>	<input type="checkbox"/>	2644	LastNameBBEFEB, Patient X	12/22/2011			150 Muir Road			MARTINEZ	CA	94553		United S
<input type="checkbox"/> Check All														

Figure 73 – Lab Kit Orders for Selected Facility

- Mark the appropriate check box (Site Contacted or Contacted by Site) to record your action in EFRA. Click **[Save]** to record all of your changes.

EFRA is now aware of which facilities/patients had kits ordered and which facilities/patients used stock from the facility.

13.1.2. View or Edit a New Lab Kit Record

Returning to the MY TASKS > LAB KITS > NEW screen (see

[Figure 69](#) above).

COLORADO SPRINGS	BIOLOGICAL	10	Select
Patients requiring kits	MONITORING		
<ul style="list-style-type: none"> • Two Hundred Forty Eight, Patient X - Workflow ID: 1536 • Two Hundred Forty Eight, Patient X - Workflow ID: 1547 			

Figure 74 – My Tasks > Lab Kits > New (Institution Listing)

To view or edit any of the NEW records, click the **[Select]** button at the right of the row which identifies the institution for which you wish to see or edit information.

When an institution is selected from the Lab Kit Queue (New) screen (

[Figure 69](#), above), the detailed record of the specified type of kits needed for that institution is displayed.

AVAILABILITY: EFR TEFSC Administrator	SCREEN NAME: Lab Kit Details (New)
ACCESS: To access this screen, select an institution from the list displayed at MY TASKS > LAB KITS > NEW	
<p>PURPOSE: This screen is shown after you select a particular institution (hospital) for kit tracking. The screen shows all patients that need a kit, either for biomonitoring or fragment analysis.</p> <p>You will need to contact the hospital and ask how many kits they already have in stock. After you have determined the number of kits already available, you can order the remainder from Therapak and mark those items off on this screen, marking it as “used stock” (Used Stock checkbox) or “ordered” (Order Kit checkbox).</p> <p>In addition to marking the kit, you can make changes in the kit ordering data (for example, if a contact person changed or their address information is different).</p>	

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Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

MY TASKS > LAB KITS > NEW > MALONE CBOC

Institution: MALONE CBOC Kit Type: BIOLOGICAL MONITORING

To sort please click table headings

Used Stock	Order Kit	Workflow ID	Patient	Order date	VAMC Contact	VAMC Contact Ph#	Address Line 1	Address Line 2	Address Line 3	City	State	Zip	+4	Country
<input type="checkbox"/>	<input type="checkbox"/>	2257	Five Hundred Nine, Patient X	08/29/2010	VAMC Contact	111-555-1111	2500 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2255	Five Hundred Nine, Patient X	08/29/2010	VAMC Contact	111-555-1111	2500 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2253	Five Hundred Nine, Patient X	08/29/2010	VAMC Contact	111-555-1111	2500 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2245	Three Hundred Seventeen, Patient X	08/29/2010	VAMC Contact	111-555-1111	2495 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2244	Four Hundred Seventy Seven, Patient X	08/29/2010	VAMC Contact	111-555-1111	2496 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2243	Four Hundred Eight, Patient X	08/29/2010	VAMC Contact	111-555-1111	2497 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2238	Five Hundred Nine, Patient X	08/29/2010	VAMC Contact	111-555-1111	2500 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2237	Five Hundred Nine, Patient X	08/29/2010	VAMC Contact	111-555-1111	2500 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2230	Five Hundred Nine, Patient X	08/29/2010	VAMC Contact	111-555-1111	2500 Patient Main s	Apt 5		Los Angeles	CA	0070		United
<input type="checkbox"/>	<input type="checkbox"/>	2228	Five Hundred Nine, Patient X	08/29/2010	VAMC Contact	111-555-1111	2500 Patient Main s	Apt 5		Los Angeles	CA	0070		United

1 2

Save Cancel

Figure 75 – View/Edit Lab Kit Records (Biomonitoring)

MY TASKS > LAB KITS > NEW > COLORADO SPRINGS

Institution: COLORADO SPRINGS Kit Type: FRAGMENT ANALYSIS

To sort please click table headings

Used Stock	Order Kit	Workflow ID	Patient	Order date	VAMC Contact	VAMC Contact Ph#	Address Line 1	Address Line 2	Address Line 3	City	State	Zip	+4	Country
<input type="checkbox"/>	<input type="checkbox"/>	1559	Two Hundred Forty Eight, Patient X	08/13/2010	Contact Name 1		1788 N. Academy	1111		Colorado Sprin	CO	80913		
<input type="checkbox"/>	<input type="checkbox"/>	1558	Two Hundred Forty Eight, Patient X	08/13/2010	Contact Name 1		1788 N. Academy	1111		Colorado Sprin	CO	80913		
<input type="checkbox"/>	<input type="checkbox"/>	1524	Two Hundred Forty Eight, Patient X	08/13/2010	Contact Name 1		1788 N. Academy	1111		Colorado Sprin	CO	80913		

Save Cancel

Figure 76 – View/Edit Lab Kit Records (Fragment Analysis)

You can directly edit any of the institution records on this screen. On this screen, you may indicate that a stock kit was used for a patient (Used Stock checkbox), or that a kit is to be ordered (Order Kit checkbox). You may also add or edit information. To see additional records (if any) use the page number links at the bottom of the list.

INCLUDES:

- For each record [all text boxes unless otherwise noted]:
 - Used Stock [checkbox]
 - Order Kit [checkbox]
 - *Workflow ID [pre-populated text]*
 - *Patient (last name, first name) [pre-populated text]*
 - Order Date
 - VAMC Contact
 - VAMC Contact Phone #
 - Address Line 1 | 2 | 3
 - City
 - State
 - ZIP
 - [ZIP] +4
 - Country

When you have finished editing or ordering...

Click the **[Save]** button to save any updates and return to the NEW list, or...

Click the **[Cancel]** button to exit the screen without saving the order and return to the NEW list.

13.2. My Tasks > Lab Kits > Tracking



Note: There are three possible Lab Kit statuses that are “not new.” They all use the Lab Kit Queue (Not New) screen for list displays and the Lab Kit Details (Not New) for details. The status is shown in the Status column on the screen.

Lab Kits whose status is...	Are those which...
Tracking	are awaiting arrival at the Baltimore laboratory.
Received	have been received already at the Baltimore laboratory.
Voided	have been lost, or are no longer applicable for other reasons.

13.2.1. Lab Kits > Tracking Queue

AVAILABILITY: EFR TEFSC Administrator	SCREEN NAME: Lab Kit Queue (Not New) (see Note)
ACCESS: To access this screen, select MY TASKS > LAB KITS > TRACKING	

PURPOSE: This screen is shown after you select a particular institution (hospital) for kit tracking. The screen shows all patients that need a kit, either for biomonitoring or fragment analysis.

You will need to contact the hospital and ask how many kits they already have in stock. After you have determined the number of kits already available, you can order the remainder from [Therapak](#) and mark those items off on this screen, marking it as “ordered” or as “used stock.”

In addition to marking the kit, you can make changes in the kit ordering meta data (for example, if a contact person changed or their address information is different).

MY TASKS > LAB KITS > TRACKING shows the kits which have been ordered and which are being tracked:

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Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

MY TASKS > LAB KITS > TRACKING

Filter by Last Name:

To sort please click table headings

Workflow ID	Patient Name	Site #	Sending Facility	City	Contact Person	Kit Type	Date Contacted	
2642	LastNameAGCEDOG, Patient X	518	BEDFORD VAMC	Bedford		BIOLOGICAL MONITORING	12/20/2011	Select
2637	LastNameAEGHOJ, Patient X	528	VA HEALTHCARE NETWORK UPSTATE NEW YORK SYSTEM - BUFFALO DIVISION	BUFFALO		BIOLOGICAL MONITORING	12/15/2011	Select
2636	LastNameCHBFAC, Patient X	402	TOGUS MAINE VAMC	TOGUS		BIOLOGICAL MONITORING	12/19/2011	Select
2635	LastNameAGBFGFJ, Patient X	402	TOGUS MAINE VAMC	TOGUS		BIOLOGICAL MONITORING	12/19/2011	Select
2634	LastNameACOAFJH, Patient X	402	TOGUS MAINE VAMC	TOGUS		BIOLOGICAL MONITORING	12/19/2011	Select
2633	LastNameJBHDGE, Patient X	506	ANN ARBOR VAMC	ANN ARBOR		BIOLOGICAL MONITORING	12/21/2011	Select
2632	LastNameBBJAEB, Patient X	506	ANN ARBOR VAMC	ANN ARBOR		BIOLOGICAL MONITORING	12/21/2011	Select
2623	LastNameHOEDDO, Patient X	402	TOGUS MAINE VAMC	TOGUS		BIOLOGICAL MONITORING	12/19/2011	Select
2617	LastNameAFEJJC, Patient X	612	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	MARTINEZ		BIOLOGICAL MONITORING	11/29/2011	Select
2617	LastNameAFEJJC, Patient X	612	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	MARTINEZ		BIOLOGICAL MONITORING	12/20/2011	Select

1 2

Figure 77 – My Tasks > Lab Kits > Tracking Queue

INCLUDES:

All are read-only, pre-populated text except **[Select]** button.

- *Workflow ID*
- *Patient Name*
- *Site #*
- *Sending Facility*
- *City*
- *Contact Person*
- *Kit Type*
- *Date Contacted*
- **[Select]** Button

To see additional records (if any) use the page number links at the bottom of the list.

To view or edit a record, click the **[Select]** button at the right of the row which displays the workflow record.

13.2.2. View or Edit a Tracking Lab Kit Record

AVAILABILITY: EFR TEFSC Administrator	SCREEN NAME: Lab Kit Details (Not New) (see Note)
ACCESS: To access this screen, select a record from the list displayed at MY TASKS > LAB KITS > TRACKING	
PURPOSE: This screen is shown after you select a specific Workflow ID record. In addition to marking the kit, you can make changes in the kit ordering data (for example, if a contact person changed or their address information is different).	

When a specific workflow ID is selected, the record displays:

The screenshot displays the 'Embedded Fragments Registry' interface. The top navigation bar includes 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. The left sidebar lists various menu items such as 'Referrals', 'Lab Kits', 'Questionnaires/Forms', 'Lab Orders', 'Lab Results', 'Interpretation & Follow Up', and 'Contact Logs'. The main content area shows the breadcrumb 'MY TASKS > LAB KITS > TRACKING > WORKFLOW ID 2642'. Below this, there are two main sections: 'Kit Order Details' and 'Returned Kit Details'. The 'Kit Order Details' section contains fields for Workflow ID (2642), Patient Name (LastNameAGCEDOG, Patient X), Date Contacted (12/20/2011), TEFSC Representative (HARRIS\ghowar04), VAMC Contact, Address Part 1 (200 Springs Road), Address Part 2, Address Part 3, City (Bedford), State (MA), Zip (01730), Country (United States), Telephone# (518-450-1778p3), and Kit Type (BIOLOGICAL MONITORING). The 'Returned Kit Details' section includes VAMC Facility (BEDFORD VAMC), VAMC Contact, Courier Tracking#, Kit Sent by VA Date, Kit Received Date, Questionnaire/Form Received (Yes/No radio buttons), Reason Tracking Transaction Closed (dropdown), and a Comments text area. At the bottom, there are buttons for 'Save', 'Received', 'Void', and 'Back'.

Figure 78 – My Tasks > Lab Kits > Ordered > Workflow ID NNNN

INCLUDES:

- *Kit Order Details* panel [all text boxes unless otherwise noted]
 - *Workflow ID [prefilled text]*
 - *Patient Name [prefilled text]*
 - *Date Contacted [mm/dd/yyyy]*
 - *TEFSC Representative [prefilled text]*
 - *VAMC Contact*
 - *Address Part 1,2,3*
 - *City*
 - *State*

- ZIP
- Country
- Telephone#
- *Kit Type [prefilled text]*
- **Returned Kit Details** panel [all text boxes unless otherwise noted]
 - *VAMC Facility [prefilled text]*
 - VAMC Contact
 - Courier Tracking #
 - Kit Sent by VA Date
 - Kit Received Date
 - **Questionnaire Received** panel
 - Yes No radio buttons
 - Reason Tracking Transaction Closed [drop-down list]

(Select value) ▾	▪	Kit Lost
(Select value)	▪	Patient Refusal
Kit Lost	▪	Other
Patient Refusal		
Other		
 - Comments

When you have finished editing or reviewing the record...

Click **[Save]** to save the record and return to the list, or...

Click **[Receive]** to indicate that the kit has been received, or...

Click **[Void]** to indicate that the kit has been lost, or the order is no longer applicable for other reasons.

Click **[Cancel]** to abandon any changes made and return to the list.

13.3. My Tasks > Lab Kits > Received

Once a kit has been ordered, the record for that kit is marked as TRACKING. The record will show up in the LAB KITS > TRACKING queue. When the kit is actually received in the lab, it should be marked as received.

13.3.1. Lab Kits Received Queue

AVAILABILITY: EFR TEFSC Administrator	SCREEN NAME: Lab Kit Queue (Not New) (see Note)
ACCESS: To access this screen, select MY TASKS > LAB KITS > RECEIVED	
PURPOSE: This screen lists kits which have been received at the Baltimore laboratory. You can use this screen to review the kits and select one for further detail.	

MY TASKS > LAB KITS > RECEIVED shows the kits which have been received:

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

Referrals
 New
 Accepted
 Open
 Closed
 Follow Ups
 Ineligible

Lab Kits
 New
 Tracking
 Received
 Voided

Questionnaires/Forms
 New
 In Process
 Completed

Lab Orders
 New
 Awaiting Results
 Voided
 Closed

Lab Results
 New
 In Process
 Accepted
 Voided

Interpretation & Follow Up
 New
 In Process
 Interpreted

Contact Logs
 All Contacts

MY TASKS > LAB KITS > RECEIVED

Filter by Last Name:

To sort please click table headings

Workflow ID	Patient Name	Site #	Sending Facility	City	Contact Person	Kit Type	Date Contacted	Received Date	
2643	LastNameJOHDB, Patient X	663	PUGET SOUND HEALTH CARE SYSTEM - SEATTLE DIVISION	Seattle		FRAGMENT ANALYSIS	12/20/2011	12/20/2011	<input type="button" value="Select"/>
2641	LastNameFGHGD, Patient X	402	TOGUS MAINE VAMC	TOGUS		BIOLOGICAL MONITORING	12/19/2011	12/19/2011	<input type="button" value="Select"/>
2631	Four Hundred Forty, Patient X	402	TOGUS MAINE VAMC	Los Angeles	VAMC Contact 4	BIOLOGICAL MONITORING	12/14/2011	12/14/2011	<input type="button" value="Select"/>
2630	LastNameDHGEG, Patient X	612	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	MARTINEZ		BIOLOGICAL MONITORING	12/13/2011	12/13/2011	<input type="button" value="Select"/>
2622	LastNameADCEHOA, Patient X	537	JESSE BROWN VA MEDICAL CENTER	CHICAGO		BIOLOGICAL MONITORING	12/13/2011	12/13/2011	<input type="button" value="Select"/>
2619	LastNameAFEJCJ, Patient X	612	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	MARTINEZ		BIOLOGICAL MONITORING	11/29/2011	11/29/2011	<input type="button" value="Select"/>
2616	LastNameACGOOBO, Patient X	501	NEW MEXICO VA HEALTH CARE SYSTEM - ALBUQUERQUE DIVISION	Albuquerque		BIOLOGICAL MONITORING	11/28/2011	11/28/2011	<input type="button" value="Select"/>
2612	LastNameHBOBF, Patient X	626	VA TENNESSEE VALLEY HEALTHCARE SYSTEM - NASHVILLE DIVISION	NASHVILLE		BIOLOGICAL MONITORING	11/23/2011	11/23/2011	<input type="button" value="Select"/>
2609	LastNameFHGHB, Patient X	539	CINCINNATI VAMC	CINCINNATI		BIOLOGICAL MONITORING	11/22/2011	11/22/2011	<input type="button" value="Select"/>
2608	LastNameAOBJCJ, Patient X	644	PHOENIX VAMC	PHOENIX		BIOLOGICAL MONITORING	11/22/2011	11/22/2011	<input type="button" value="Select"/>

1 2 3 4 5 ... >>

Figure 79 – My Tasks > Lab Kits > Received

13.3.2. View or Edit a Received Lab Kit Record

To view or edit a record, click the **[Select]** button at the right of the row which displays the order record. The Kit Order and Returned Kit details display:

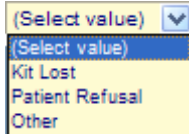
The screenshot displays the 'Embedded Fragments Registry' interface. The top navigation bar includes 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. The left sidebar lists various categories like 'Referrals', 'Lab Kits', 'Questionnaires/Forms', 'Lab Orders', 'Lab Results', 'Interpretation & Follow Up', and 'Contact Logs'. The main content area is titled 'My Tasks > Lab Kits > RECEIVED > WORKFLOW ID 2643'. It is divided into two sections: 'Kit Order Details' and 'Returned Kit Details'. The 'Kit Order Details' section contains fields for Workflow ID (2643), Patient Name (LastNameJOJHDB, Patient X), Date Contacted (12/20/2011), TEFSC Representative (HARRIS\ghowar04), VAMC Contact, Address Part1 (1660 S. Columbian Way), Address Part2, Address Part3, City (Seattle), State (WA), Zip (98108), Country (United States), Telephone#, and Kit Type (FRAGMENT ANALYSIS). The 'Returned Kit Details' section includes VAMC Facility (PUGET SOUND HEALTH CARE SYSTEM - SEATTLE DIVISION), VAMC Contact, Courier Tracking#, Kit Sent by VA Date, Kit Received Date (12/20/2011), Questionnaire/Form Received (Yes/No radio buttons), Reason Tracking Transaction Closed (dropdown), and a Comments text area. At the bottom, there are buttons for 'Save', 'Received', 'Void', and 'Back'.

Figure 80 – My Tasks > Lab Kits > Received > Workflow ID NNNN

INCLUDES:

- **Kit Order Details** [all text boxes unless otherwise indicated]
 - *Workflow ID [pre-filled text]*
 - *Patient Name [pre-filled text]*
 - *Date Contacted (mm/dd/yyyy)*
 - *TEFSC Representative [pre-filled text]*
 - *VAMC Contact*
 - *Address Part1, Part2, Part3*
 - *City*
 - *State*
 - *ZIP*
 - *Country*
 - *Telephone #*
 - *Kit Type [pre-filled text]*

- **Returned Kit Details** [all text boxes unless otherwise indicated]
 - *VAMC Facility [pre-filled text]*
 - VAMC Contact
 - Courier Tracking #:
 - Kit Sent by VA Date
 - Kit Received Date
 - **Questionnaire Received** [Yes No radio buttons]
 - Reason Tracking Transaction Closed [drop-down list]



 - Kit Lost
 - Patient Refusal
 - Other
 - Comments
 - **[Save]** button
 - *[Receive] button*
 - *[Void] button*
 - **[Cancel]** button

When you have finished editing or reviewing the record, click...

 Click **[Save]** to save the record and return to the list, or...

 Click **[Cancel]** to abandon any changes made and return to the list.

Note that since the kit has already been marked as received, both the **[Receive]** and **[Void]** buttons are unavailable (grayed-out).



Important: Do not navigate away from the page or close your browser without clicking either **[Save]** or **[Cancel]**.

13.4. My Tasks > Lab Kits > Voiced

13.4.1. Voiced Lab Kits Queue

AVAILABILITY: EFR TEFSC Administrator	SCREEN NAME: Lab Kit Queue (Not New) (see Note)
ACCESS: To access this screen, select MY TASKS > LAB KITS > VOIDED	
PURPOSE: This screen lists kits which have been marked as voided. You can use this screen to review the list of voided kits and select one for further detail.	

MY TASKS > LAB KITS > VOIDED shows the kits which have been voided:


The screenshot shows the 'Embedded Fragments Registry' interface. The top navigation bar includes 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. The left sidebar menu is expanded to 'Lab Kits > Voiced'. The main content area displays a table of voided kits with the following data:

Workflow ID	Patient Name	Site #	Sending Facility	City	Contact Person	Kit Type	Date Contacted	Status	
2505	EFRSixHundredTwentyEight, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	Seattle	VAMC Contact 3	FRAGMENT ANALYSIS	11/11/2011	Voiced	Select

Figure 81 – My Tasks > Lab Work > Lab Kits >Voiced

13.4.2. View a Voided Record

A voided record may only be viewed; only an Administrator (Super-User) may edit such records (see Note below).

 Click the **[Select]** button at the right of the row which displays the order record. The Voided Kit Order details are displayed. Note that the data fields are either pre-populated read-only text or are grayed out, and cannot be selected for editing.



The screenshot displays the 'Embedded Fragments Registry' interface for the 'United States Department of Veterans Affairs'. The breadcrumb trail is 'MY TASKS > LAB KITS > VOIDED > WORKFLOW ID 2505'. The interface is divided into a left-hand navigation menu and a main content area. The navigation menu includes sections for Referrals, Lab Kits, Questionnaires/Forms, Lab Orders, Lab Results, Interpretation & Follow Up, and Contact Logs. The 'Lab Kits' section is expanded, and the 'Voided' option is selected. The main content area shows the details for a voided kit order. The 'Kit Order Details' section includes fields for Workflow ID (2505), Patient Name (EFRSixHundredTwentyEight, EFRFIRST EFR), Date Contacted (11/11/2011), TEFSC Representative (HARRIS\vshteyn), VAMC Contact (VAMC Contact 3), Address Part1 (1875 Patient Main street), Address Part2 (Apt 4), Address Part3, City (Seattle), State (WA), Zip (00700), Country (United States), Telephone# (111-555-1111), and Kit Type (FRAGMENT ANALYSIS). The 'Returned Kit Details' section includes VAMC Facility (NORTH CHICAGO (DOM)), VAMC Contact (VAMC Contact 3), Courier Tracking#, Kit Sent by VA Date, Kit Received Date, Questionnaire/Form Received (Yes/No radio buttons), Reason Tracking Transaction Closed (Other dropdown), and a Comments text area. At the bottom of the form are buttons for 'Un-Void', 'Received', 'Void', and 'Back'.



Figure 82 – My Tasks > Lab Kits > Voided > Workflow ID NNNN

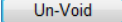
INCLUDES:

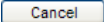
- ***Kit Order Details panel***
 - *Workflow ID*
 - *Patient Name*
 - *Date Contacted*
 - *Kit Ordered Date*
 - *TEFSC Representative*
 - *VAMC Contact*
 - *AddressPart1 | AddressPart2 | AddressPart3*
 - *City | State | Zip | Country*
 - *Telephone Number*
 - *Kit Type*
- ***Returned Kit Details panel***
 - *VAMC Facility*
 - *VAMC Contact*
 - *Courier Tracking #*
 - *Kit Sent by VA Date*
 - *Kit Received Date*
 - ***Questionnaire Received [yes/no]***
 - *Reason Tracking Transaction Closed*
 - *Comments*



Note: Only an Administrator (Super-User) can edit this record.

-  Click the **[Save]** button first; the screen redisplay.
- Edit the fields.
-  Click the **[Save]** button again.

 Click the **[Un-Void]** button to return the record to the Tracking queue.

 When you have finished reviewing the record, click **[Cancel]** to return to the list.

Note that since the kit has already been marked as voided, both the **[Receive]** and **[Void]** buttons are unavailable (they are grayed out).

Part E. Questionnaires/Forms

14. My Tasks > Questionnaires/Forms

AVAILABILITY: See [Table 4 – Tasks by Role](#)

When biomonitoring specimen collection kits are returned to [TEFSC](#) they contain a completed biomonitoring questionnaire. When fragment collection kits are returned to TEFSC they contain a completed fragment specimen collection form. Data Entry Personnel record the information contained in the questionnaires or forms into EFRA. In addition, if they learn of changes to alternate contact information from the form received, they may edit form details and add, edit, or delete alternate contact information associated with the patient.




Important: The biomonitoring questionnaires in EFRA should not be confused with the patient questionnaires in CPSR (as shown in [Appendix G...below](#)).

- [My Tasks > Questionnaires/Forms > New](#)
- [My Tasks > Questionnaires/Forms > In Process](#)
- [My Tasks > Questionnaires/Forms > Completed](#)

14.1. My Tasks > Questionnaires/Forms > New

AVAILABILITY: EFR TEFSC Administrator	SCREEN NAME: Bio Questionnaire/Fragment Form Queue
ACCESS: To access this screen, select MY TASKS > QUESTIONNAIRES/FORMS > NEW	



UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

My Tasks Patients Administration

MY TASKS > QUESTIONNAIRES/FORMS > NEW

Filter by Last Name:

To sort please click table headings

Case #	Questionnaire/Form #	Patient Name	Received Date	Status	Type	
1577	6787	Two Hundred Forty Seven, Patient X	3/31/2010	New	Fragment Analysis	<input type="button" value="Select"/>
1527	6606	Five Hundred Sixty Five, Patient X	3/31/2010	New	Fragment Analysis	<input type="button" value="Select"/>
1522	6581	One Hundred Ninety Eight, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>
1521	6576	One Hundred Ninety Nine, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>
1520	6571	One Hundred Ninety Nine, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>
1519	6563	Two, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>
1517	6552	Two, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>
1509	6750	One Hundred Ninety Nine, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>
1508	6517	Two, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>
1507	6514	Two, Patient X	3/31/2010	New	Biological Monitoring	<input type="button" value="Select"/>

1 2

Figure 83 – My Tasks > Questionnaires/Forms > New

Note that there are two types of questionnaire (shown in the Type column)—one for biological monitoring, and another for fragment analysis. It is possible for the same patient to have either or both.

To edit or view a questionnaire record, click the **[Select]** button at the right of the row which displays the order record. The first question, along with any responses already recorded, displays as shown in [Figure 84](#).

14.1.1. Fragment Questionnaire

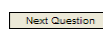
14.1.1.1. Fragment Questionnaire – Fragment Body Location

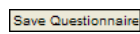
The screenshot displays the 'Embedded Fragments Registry' interface. At the top, there is a header with the United States Department of Veterans Affairs logo and the text 'UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Embedded Fragments Registry'. Below the header is a navigation bar with 'My Tasks', 'Patients', and 'Administration' tabs. A left-hand sidebar contains a menu with categories: 'Referrals' (New, Accepted, Open Cases, Closed Cases, Ineligible), 'Lab Kits' (New, Tracking, Received, Voided), 'Questionnaires/Forms' (New, In Process, Completed), 'Lab Orders' (New, Awaiting Results, Voided, Closed), and 'Lab Results' (New, In Process, Accepted, Voided). The main content area shows a breadcrumb trail: 'MY TASKS > QUESTIONNAIRES/FORMS > NEW > WORKFLOW ID 2186'. Below this is a 'Patient Information' section with fields for Name, DOB, SSN, Gender, Home Phone, Work Phone, Cell Phone, Address 1, Address 2, Address 3, City, State, and Zip Code. The patient information is: Name: Two Hundred Forty Seven, Patient X; DOB: ; SSN: 000-00-8331; Gender: Female; Home Phone: ; Work Phone: ; Cell Phone: ; Address 1: 869 Patient Street; Address 2: Apt 3; Address 3: ; City: Los Angeles; State: CA; Zip Code: . Below the patient information is a 'Fragment Collection Kit Form Details' section. It contains a dropdown menu labeled 'Fragment 1 location in Body:'. At the bottom of the form are three buttons: 'Previous Question', 'Next Question', and 'Save Questionnaire'.

Figure 84 – Fragment Collection Kit (Fragment Location)

INCLUDES:

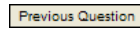
- *Patient Information panel*
 - *Name*
 - *DOB*
 - *SSN*
 - *Gender*
 - *Home Phone | Work Phone | Cell Phone*
 - *Address 1 | Address 2 | Address 3*
 - *City | State | Zip Code*
- **Fragment Collection Kit Form Details panel**
 - Fragment 1 location in body [text field]

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

There are two other screens identical to the one above, except the text field is for fragment #2 and #3.

After the first screen you will also have the option to...

 Return to the previous screen.

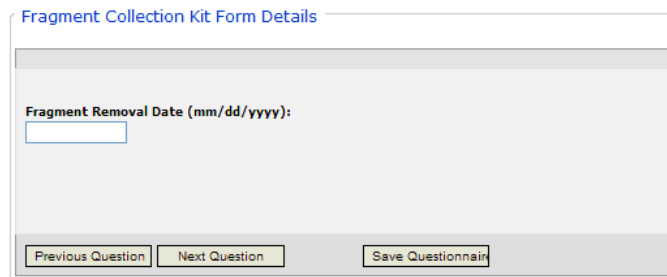


Important: When you have buttons like **[Previous Question]**, please use that button rather than your browser **[Back]** button. If you use the browser **[Back]** button, you may lose any changes you have made.



Note: After this point, all of the questions have the same patient information displayed at the top of the screen. For that reason, only the question itself will be shown and discussed for the remaining questions.

14.1.1.2. Fragment Questionnaire – Removal Date



Fragment Collection Kit Form Details

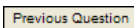
Fragment Removal Date (mm/dd/yyyy):

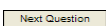
Previous Question Next Question Save Questionnaire

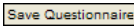
Figure 85 – Fragment Collection Kit (Removal Date)

INCLUDES:

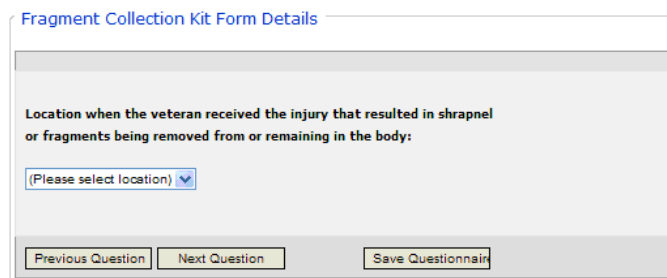
- [Fragment Collection Kit Form Details](#) panel
 - Fragment Removal Date [text field]

 To see the previous question, click the **[Previous Question]** command icon.

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.1.3. Fragment Questionnaire – Injury Location panel



Fragment Collection Kit Form Details

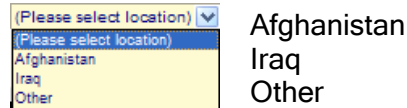
Location when the veteran received the injury that resulted in shrapnel or fragments being removed from or remaining in the body:

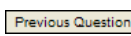
Previous Question Next Question Save Questionnaire

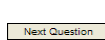
Figure 86 – Fragment Collection Kit (Injury Location)

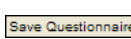
INCLUDES:

- **Fragment Collection Kit Form Details** panel
 - Location where the Veteran received the injury that resulted in shrapnel or fragments being removed from or remaining in the body [drop-down list]



 To see the previous question, click the [**Previous Question**] command icon.

 To see the next question, click the [**Next Question**] command icon.

 To save the questionnaire and return to the list, click the [**Save**] command icon.

14.1.1.4. Fragment Questionnaire – Current VA Facility

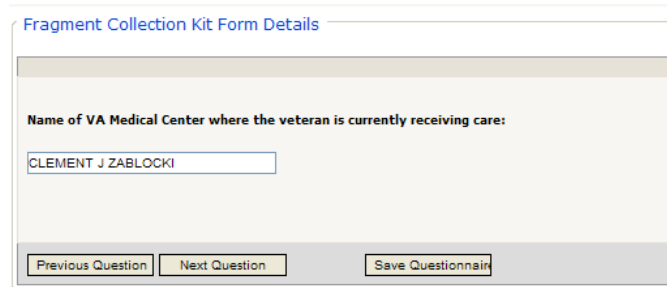
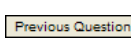
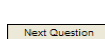


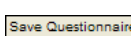
Figure 87 – Fragment Collection Kit Details (Current VA Facility)

INCLUDES:

- **Fragment Collection Kit Form Details** panel
 - Name of VA Medical Center where the Veteran is currently receiving care [text box]

 To see the previous question, click the [**Previous Question**] command icon.

 To see the next question, click the [**Next Question**] command icon.

 To save the questionnaire and return to the list, click the [**Save**] command icon.

14.1.1.5. Fragment Questionnaire – Current VA Facility Address

Fragment Collection Kit Form Details

Address of VA Medical Center where the veteran is currently receiving care:

Address 1: 1821 Patient Main street

Address 2: Apt 5

Address 3:

City: Los Angeles

State: CA

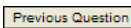
Zip +4: 90310 -

Previous Question Next Question Save Questionnaire

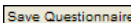
Figure 88 – Fragment Collection Kit Details (Current VA Facility Address)

INCLUDES:

- [Fragment Collection Kit Form Details](#) panel
 - Address of VA Medical Center where the Veteran is currently receiving care [text boxes]
 - Address 1 | Address 2 | Address 3
 - City | State | Zip | Zip plus 4

 To see the previous question, click the [**Previous Question**] command icon.

 To see the next question, click the [**Next Question**] command icon.

 To save the questionnaire and return to the list, click the [**Save**] command icon.

14.1.1.6. Fragment Questionnaire – Referring Surgeon/Care Provider Name

Fragment Collection Kit Form Details

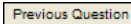
Referring Surgeon/Care Provider Name:

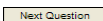
Previous Question Next Question Save Questionnaire

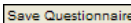
Figure 89 – Fragment Collection Kit Details (Referring Surgeon/Care Provider Name)

INCLUDES:

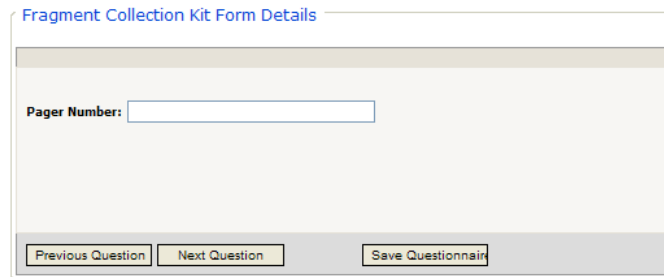
- [Fragment Collection Kit Form Details](#) panel
 - Referring Surgeon/Care Provider Name [text box]

 To see the previous question, click the [**Previous Question**] command icon.

 To see the next question, click the [**Next Question**] command icon.

 To save the questionnaire and return to the list, click the [**Save**] command icon.

14.1.1.7. Fragment Questionnaire – Page Number

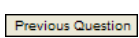


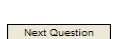
The screenshot shows a web form titled "Fragment Collection Kit Form Details". Inside the form, there is a label "Pager Number:" followed by a text input field. At the bottom of the form, there are three buttons: "Previous Question", "Next Question", and "Save Questionnaire".

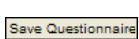
Figure 90 – Fragment Collection Kit Details (Pager Number)

INCLUDES:

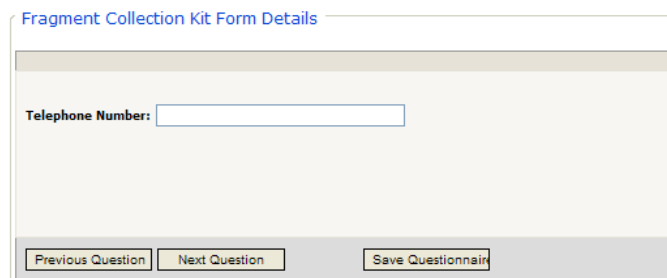
- [Fragment Collection Kit Form Details](#) panel
 - Pager Number [text box]

 To see the previous question, click the **[Previous Question]** command icon.

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.1.8. Fragment Questionnaire – Telephone Number

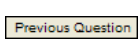


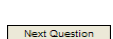
The screenshot shows a web form titled "Fragment Collection Kit Form Details". Inside the form, there is a label "Telephone Number:" followed by a text input field. At the bottom of the form, there are three buttons: "Previous Question", "Next Question", and "Save Questionnaire".

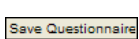
Figure 91 – Fragment Collection Kit Details (Telephone Number)

INCLUDES:

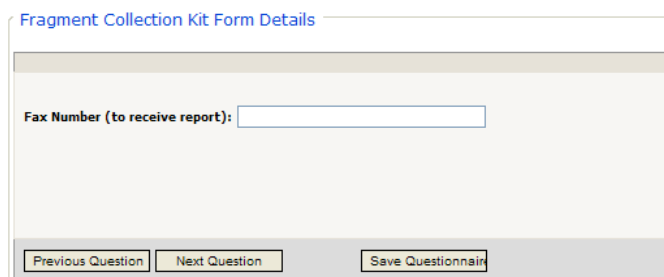
- [Fragment Collection Kit Form Details](#)
 - Telephone Number panel [text box]

 To see the previous question, click the **[Previous Question]** command icon.

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.1.9. Fragment Questionnaire – Fax Number

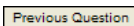


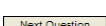
The screenshot shows a web form titled "Fragment Collection Kit Form Details". It contains a single text input field labeled "Fax Number (to receive report):". Below the input field is a horizontal bar with three buttons: "Previous Question", "Next Question", and "Save Questionnaire".

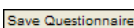
Figure 92 – Fragment Collection Kit Details (Fax Number)

INCLUDES:

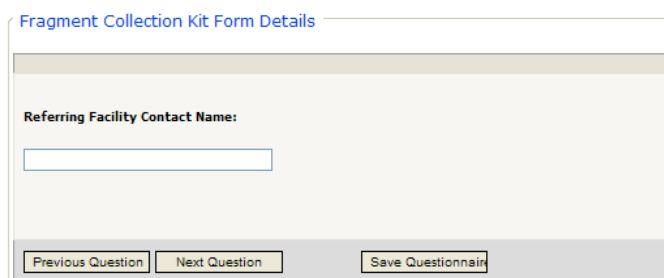
- [Fragment Collection Kit Form Details](#) panel
 - Fax Number (to receive report) [text box]

 To see the previous question, click the **[Previous Question]** command icon.

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.1.10. Fragment Questionnaire – Referring Facility Contact Name

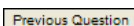


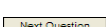
The screenshot shows a web form titled "Fragment Collection Kit Form Details". It contains a single text input field labeled "Referring Facility Contact Name:". Below the input field is a horizontal bar with three buttons: "Previous Question", "Next Question", and "Save Questionnaire".

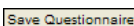
Figure 93 – Fragment Collection Kit Details (Referring Facility Contact)

INCLUDES:

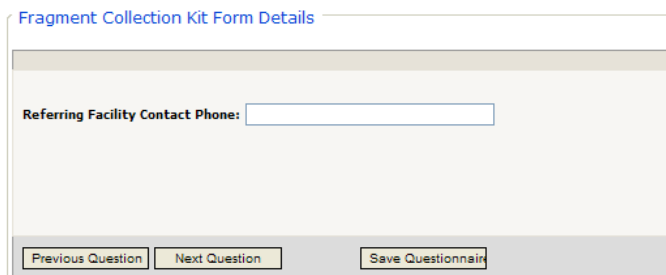
- [Fragment Collection Kit Form Details](#) panel
 - Referring Facility Contact Name [text box]

 To see the previous question, click the **[Previous Question]** command icon.

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.1.11.Fragment Questionnaire – Referring Facility Contact Phone

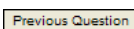


The screenshot shows a web form titled "Fragment Collection Kit Form Details". It features a single text input field labeled "Referring Facility Contact Phone:". Below the input field, there is a horizontal bar containing three buttons: "Previous Question", "Next Question", and "Save Questionnaire".

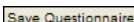
Figure 94 – Fragment Collection Kit Details (Referring Facility Contact Phone)

INCLUDES:

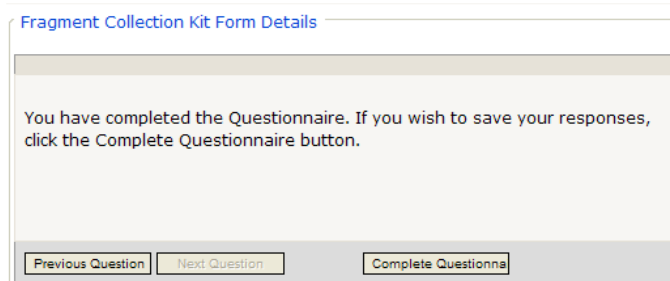
- [Fragment Collection Kit Form Details](#) panel
 - Referring Facility Contact Phone Number [text box]

 To see the previous question, click the [**Previous Question**] command icon.

 To see the next question, click the [**Next Question**] command icon.

 To save the questionnaire and return to the list, click the [**Save**] command icon.

14.1.1.12.Completing the Fragment Questionnaire



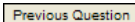
The screenshot shows the same "Fragment Collection Kit Form Details" panel. The text input field is now empty. The main content area displays the message: "You have completed the Questionnaire. If you wish to save your responses, click the Complete Questionnaire button." The buttons at the bottom are "Previous Question", "Next Question", and "Complete Questionnaire".

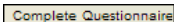
Figure 95 – Completing the Fragment Questionnaire

INCLUDES:

- [Fragment Collection Kit Form Details](#) panel

You have completed the Questionnaire. If you wish to save your responses, click the Complete Questionnaire button.

 To see the previous question, click the [**Previous Question**] command icon.

 To save the questionnaire and return to the list, click the [**Complete Questionnaire**] command icon.

After you click the **[Complete Questionnaire]** command icon, you will return to the first page of the questionnaire to see the “successful completion” notice:

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

My Tasks Patients Administration

MY TASKS > QUESTIONNAIRES/FORMS > COMPLETED > WORKFLOW ID 2186

Patient Information

Name:	Two Hundred Forty Seven, Patient X	Address 1:	869 Patient Street
DOB:		Address 2:	Apt 3
SSN:	000-00-8331	Address 3:	
Gender:	Female	City:	Los Angeles
Home Phone:		State:	CA
Work Phone:		Zip Code:	
Cell Phone:			

Fragment Collection Kit Form Details

The form has been saved and completed successfully.

Fragment 1 location in Body:
Left shoulder

Previous Question Next Question Save Questionnaire

Figure 96 – Fragment Questionnaire (Successful Completion)

14.1.2. The Biomonitoring Questionnaire

14.1.2.1. Biomonitoring Questionnaire – Date Completed, VA Facility

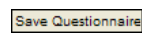
The screenshot displays the Embedded Fragments Registry interface. At the top, the header includes the United States Department of Veterans Affairs logo and the text "UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Embedded Fragments Registry". Below the header, there are navigation tabs for "My Tasks", "Patients", and "Administration". The left sidebar contains a menu with categories: "Referrals" (New, Accepted, Open Cases, Closed Cases, Ineligible), "Lab Kits" (New, Tracking, Received, Voided), "Questionnaires/Forms" (New, In Process, Completed), "Lab Orders" (New, Awaiting Results, Voided, Closed), "Lab Results" (New, In Process, Accepted, Voided), "Interpretation & Follow Up" (New, In Process, Interpreted), and "Contact Logs" (All Contacts). The main content area shows the breadcrumb "MY TASKS > QUESTIONNAIRES/FORMS > NEW > WORKFLOW ID 1521". The "Patient Information" section includes fields for Name, DOB, SSN, Gender, Home Phone, Work Phone, Cell Phone, Address 1, Address 2, Address 3, City, State, and Zip Code. The "Biological Monitoring Specimen Collection Kit Questionnaire" section includes a "Date Form Completed (mm/dd/yyyy)" field, a "Name of VA Medical Center where you are currently receiving care:" field (MARIETTA, OH CBOC), and a "Location of VA Medical Center where you are currently receiving care:" section with fields for Address 1, Address 2, Address 3, City, State, and Zip +4. At the bottom, there are buttons for "Previous Question", "Next Question", and "Save Questionnaire".

Figure 97 – Biological Monitoring Specimen Kit Questionnaire

INCLUDES:

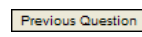
- *Patient Information panel*
 - *Name*
 - *DOB*
 - *SSN*
 - *Gender*
 - *Home Phone | Work Phone | Cell Phone*
 - *Address 1 | Address 2 | Address 3*
 - *City | State | Zip Code*
- **Biological Monitoring Specimen Collection Kit Questionnaire panel** [all text fields unless otherwise indicated]
 - Date Form Completed
 - Name of VA medical center where you are currently receiving care
 - **Location of VA Medical Center where you are currently receiving care**
 - Address 1 | Address 2 | Address 3
 - City | State | Zip | Zip plus 4

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

There are two other screens identical to the one above, except the text field is for fragment #2 and #3.

After the first screen you will also have the option to...

 Return to the previous screen.



Important: When you have buttons like **[Previous Question]**, please use that button rather than your browser **[Back]** button. If you use the browser **[Back]** button, you may lose any changes you have made.



Note: After this point, all of the questions have the same patient information displayed at the top of the screen. For that reason, only the question itself will be shown and discussed for the remaining questions.

14.1.2.2. Biomonitoring Questionnaire – Service Branch, Injury Location and Date, Referred By (items 1 – 3)

Biological Monitoring Specimen Collection Kit Questionnaire

Branch of Service:
(Please select branch) ▼

1) Location when you received the injury that resulted in shrapnel or fragments being removed from or remaining in your body:
(Please select location) ▼

2) Date of injury (mm/dd/yyyy):

3) Who referred you to the VA Medical Center for evaluation of embedded fragments?
(Please select referral source) ▼

Previous Question Next Question Save Questionnaire

Figure 98 – Service Branch, Injury Location and Date, Referred By (Items 1-3)

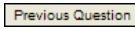
INCLUDES:

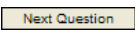
- [Biological Monitoring Specimen Collection Kit Questionnaire](#) panel
 - Branch of Service [drop-down list]
 - Location where you received the injury that resulted in shrapnel or fragments being removed or remaining in your body [drop-down list]

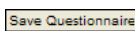
(Please select location) ▼
Afghanistan
Iraq
Other

- Date of Injury [text field]
- Who referred you to the VA Medical Center for evaluation of embedded fragments? [drop-down list]

(Please select referral source) ▼
Department of Veterans Affairs
VA Health Care Provider
Department of Defense-Force Health Protection and Readiness Office
Another Department of Defense Office
Self Referred
Other

 To see the previous question, click the **[Previous Question]** command icon.

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.



Important: When you have buttons like **[Previous Question]**, please use that button rather than your browser **[Back]** button. If you use the browser **[Back]** button, you may lose any changes you have made.

14.1.2.3. Biomonitoring Questionnaire – Injured by Bullet or Blast/Explosion (Items 4 & 5)

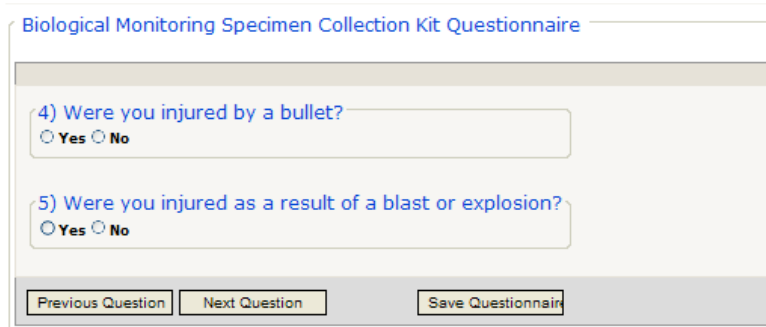
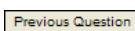
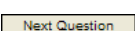


Figure 99 – Biomonitoring Questionnaire – Bullets, Blast or Explosion

INCLUDES:

- **Biological Monitoring Specimen Collection Kit Questionnaire** panel
 - Were you injured by a bullet? [Yes No radio buttons]
 - Were you injured as a result of a blast or explosion? [Yes No radio buttons]

 To see the previous question, click the **[Previous Question]** command icon.

 To see the next question, click the **[Next Question]** command icon.

 To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.2.4. Biomonitoring Questionnaire – Distance from Explosion, In or On Vehicle (Items 5a, 6 & 7)

If the answer to Item 5 is “yes,” then the following additional questions appear. Otherwise, you will skip directly to Item 8.

5a) If yes, approximately how many meters were you from the explosion?

6) Were you in or on a vehicle at the time of the blast or explosion?

Yes No

7) Was the blast or explosion caused by (check all that apply):

Improvised Explosive Device (IED)

Rocket Propelled Grenade (RPG)

Land mine

Grenade

Enemy fire

Friendly fire

Unknown

Other

Figure 100 – Distance from Explosion, In or On Vehicle (Items 5a, 6 & 7)

INCLUDES:

- [Biological Monitoring Specimen Collection Kit Questionnaire](#) panel
 - If yes [to Item 5 above], approximately how many meters were you from the explosion? [text box]
 - [Were you in or on a vehicle at the time of the blast or explosion?](#) panel [Yes No radio buttons]
 - Was the blast or explosion caused by (check all that apply) [checkboxes]
 - Improvised Explosive Device (IED)
 - Rocket Propelled Grenade (RPG)
 - Land mine
 - Grenade
 - Enemy fire
 - Friendly fire
 - Unknown
 - Other

To see the previous question, click the **[Previous Question]** command icon.

To see the next question, click the **[Next Question]** command icon.

To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.2.5. Biomonitoring Questionnaire – Where Injured (Item 8)

Biological Monitoring Specimen Collection Kit Questionnaire

8) Where were you injured? Please check the boxes indicating the body part area(s) where you were injured.

<input type="checkbox"/> 1. Front Head	<input type="checkbox"/> 1. Back Head
<input type="checkbox"/> 2. Front Neck	<input type="checkbox"/> 2. Back Neck
<input type="checkbox"/> 3. Chest	<input type="checkbox"/> 6. Upper Back
<input type="checkbox"/> 4. Abdomen	<input type="checkbox"/> 7. Lower Back
<input type="checkbox"/> 5. Groin/Pelvis	<input type="checkbox"/> 8. Buttocks
<input type="checkbox"/> 9. Left Shoulder	<input type="checkbox"/> 18. Right Shoulder
<input type="checkbox"/> 10. Left Upper Arm	<input type="checkbox"/> 19. Right Upper Arm
<input type="checkbox"/> 11. Left Lower Arm	<input type="checkbox"/> 20. Right Lower Arm
<input type="checkbox"/> 12. Left Hand, Wrist, Fingers	<input type="checkbox"/> 21. Right Hand, Wrist, Fingers
<input type="checkbox"/> 13. Left Upper Leg and Thigh	<input type="checkbox"/> 22. Right Upper Leg and Thigh
<input type="checkbox"/> 14. Left Knee	<input type="checkbox"/> 23. Right Knee
<input type="checkbox"/> 15. Left Lower Leg	<input type="checkbox"/> 24. Right Lower Leg
<input type="checkbox"/> 16. Left Ankle	<input type="checkbox"/> 25. Right Ankle
<input type="checkbox"/> 17. Left Foot and Toes	<input type="checkbox"/> 26. Right Foot and Toes

Previous Question Next Question Save Questionnaire

Figure 101 – Biomonitoring Questionnaire – Where Injured (Item 8)

INCLUDES:

- [Biological Monitoring Specimen Collection Kit Questionnaire](#)
 - Where were you injured? Please check the boxes indicating the body area(s) where you were injured.

1. Front Head	1. Back Head
2. Front Neck	2. Back Neck
3. Chest	6. Upper Back
4. Abdomen	7. Lower Back
5. Groin/Pelvis	8. Buttocks
9. Left Shoulder	18. Right Shoulder
10. Left Upper Arm	19. Right Upper Arm
11. Left Lower Arm	20. Right Lower Arm

- | | |
|-------------------------------|--------------------------------|
| 12. Left Hand, Wrist, Fingers | 21. Right Hand, Wrist, Fingers |
| 13. Left Upper Leg and Thigh | 22. Right Upper Leg and Thigh |
| 14. Left Knee | 23. Right Knee |
| 15. Left Lower Leg | 24. Right Lower Leg |
| 16. Left Ankle | 25. Right Ankle |
| 17. Left Foot and Toes | 26. Right Foot and Toes |

To see the previous question, click the **[Previous Question]** command icon.

To see the next question, click the **[Next Question]** command icon.

To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.2.6. Biomonitoring Questionnaire – Fragments and Treatment (Items 9 – 11)

Biological Monitoring Specimen Collection Kit Questionnaire

9) Did you have shrapnel, fragments or bullets removed during surgery?
 Yes No Unknown

10) Do you have retained fragments or shrapnel in your body from bullets or a blast or explosion?
 Yes No Unknown

11) Where were you treated for this injury (mark all that apply)?

- In The Field
- At a Combat Support Hospital
- At Landstuhl, Germany
- At a U.S. based Medical Treatment Facility
- At a VA Medical Center

Figure 102 – Biomonitoring Questionnaire – Fragments and Treatment (Items 9 - 11)

INCLUDES:

- [Biological Monitoring Specimen Collection Kit Questionnaire](#) panel
 - Did you have shrapnel, fragments or bullets removed during surgery?
 - Do you have retained fragments or shrapnel in your body from bullets or a blast of explosion?
 - Where were you treated for this injury (mark all that apply)?
 - In the field
 - At a Combat Support Hospital
 - At Landstuhl, Germany
 - At a U.S. based Medical Treatment Facility
 - At a VA Medical Center

To see the previous question, click the **[Previous Question]** command icon.

To see the next question, click the **[Next Question]** command icon.

To save the questionnaire and return to the list, click the **[Save]** command icon.

14.1.2.7. Biomonitoring Questionnaire – Other Foreign Bodies or Unrelated Fragments, Urine Collection (Items 12 – 13)

The screenshot shows a web-based questionnaire interface. At the top, the title "Biological Monitoring Specimen Collection Kit Questionnaire" is displayed in blue. Below the title, there are three question items, each with a radio button for "Yes" and "No":

- 12) Do you have any other foreign material in your body such as a joint replacement or pacemaker?
 Yes No
- 13) Do you have shrapnel or fragments in your body that are not related to the injury discussed above?
 Yes No
- 14) Has a 24 hour urine collection for monitoring for exposure to the contents of the shrapnel or fragments been performed?
 Yes No

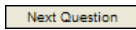
At the bottom of the form, there are three buttons: "Previous Question", "Next Question", and "Save Questionnaire".

Figure 103 – Biomonitoring Questionnaire – Other Foreign Bodies or Unrelated Fragments, Urine Collection (Items 12 – 13)

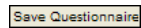
INCLUDES:

- [Biological Monitoring Specimen Collection Kit Questionnaire](#) panel
 - Do you have any other foreign material in your body such as a joint replacement or pacemaker?
 - Do you have shrapnel or fragments in your body that are not related to the injury discussed above?
 - Has a 24 hour urine collection for monitoring for exposure to the contents of the shrapnel or fragments been performed?

To see the previous question, click the **[Previous Question]** command icon.

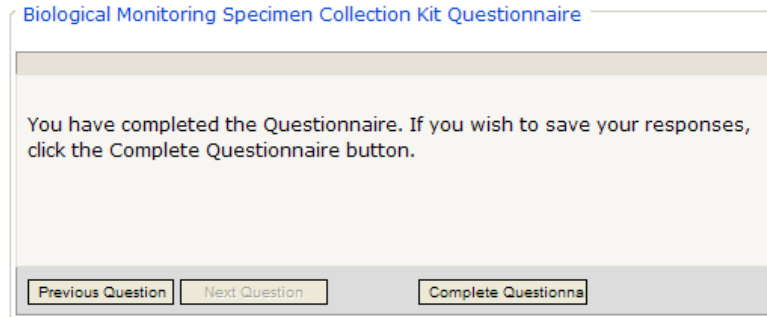


To see the next question, click the **[Next Question]** command icon.



To save the questionnaire and return to the list, click the **[Save]** command icon.

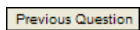
14.1.2.8. Biomonitoring Questionnaire – Other Foreign Bodies or Unrelated Fragments, Urine Collection (Items 12 – 13)



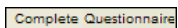
INCLUDES:

- **Biological Monitoring Specimen Collection Kit Questionnaire** panel

You have completed the Questionnaire. If you wish to save your responses, click the Complete Questionnaire button.



To see the previous question, click the **[Previous Question]** command icon.



To save the questionnaire and return to the list, click the **[Complete Questionnaire]** command icon.

After you click the **[Complete Questionnaire]** command icon, you will return to the first page of the questionnaire to see the “successful completion” notice:

Biological Monitoring Specimen Collection Kit Questionnaire

The form has been saved and completed successfully.

Date Form Completed (mm/dd/yyyy):

Name of VA Medical Center where you are currently receiving care:

Location of VA Medical Center where you are currently receiving care:

Address 1:
 Address 2:
 Address 3:

City:
 State:
 Zip +4: -

Figure 104 – Successful Save and Completion

14.2. My Tasks > Questionnaires/Forms > In Process

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
 Embedded Fragments Registry

My Tasks Patients Administration

MY TASKS > QUESTIONNAIRES/FORMS > IN PROCESS


Filter by Last Name:

To sort please click table headings

Case #	Questionnaire/Form #	Patient Name	Received Date	Status	Type		
2196	6800	Two Hundred Forty Seven, Patient X	3/31/2010	In Process	Fragment Analysis	Select	View
2193	6986	Two Hundred Forty Seven, Patient X	3/31/2010	In Process	Fragment Analysis	Select	View
1529	6622	Two Hundred Forty Eight, Patient X	3/31/2010	In Process	Fragment Analysis	Select	View
1429	6542	Four Hundred Seventy Six, Patient X	3/31/2010	In Process	Biological Monitoring	Select	View

Figure 105 – Questionnaires/Forms > In Process

Note that there are two types of questionnaire (shown in the Type column)—one for biological monitoring, and another for fragment analysis. It is possible for the same patient to have either or both.

 To edit or view onscreen a questionnaire record, click the **[Select]** button at the right of the row which displays the order record. The first question, along with any responses already recorded, displays as shown in [Figure 84](#).



Note: The screens for IN PROCESS kits are the same as those for NEW kits. For that reason, they are not shown in this section. Please refer to the screen shots and explanations of the data elements starting at [14.1.1 above](#).

[View](#) To view an onscreen tabular report (called the Questionnaire Summary), click the **[View]** button at the right of the row which displays the order record. A sample of such a report appears in [Figure 106](#).

Biomonitoring Questionnaire/Form for Five Hundred Nine, Patient X Entered by HARRIS\loefruser on 5/21/2010	
Question	Answer
Name of Veterans Administration Medical Center (VAMC) Where Patient Is Being Seen:	MALONE CBOC
Location of VAMC Where Patient Is Being Seen:	2500 Patient Main street Apt 5 Los Angeles CA 90310
Form Completion Date:	5/21/2010
Branch of Service:	
Geographical Location Where Injury was Sustained:	
Date of injury:	
Who Referred You to the VA Medical Center for the Evaluation of Embedded Fragments:	
Indication Patient was injured by a Bullet:	
Indication Patient was injured In a Blast or Explosion:	
Indication Patient was injured In or on a Vehicle:	
Indication Patient was injured In a Blast by Improvised Explosive Device (IED):	No
Indication Patient was injured In a Blast by Rocket Propelled Grenade (RPG):	No
Indication Patient was injured In a Blast by Land Mine:	No
Indication Patient was injured In a Blast by Grenade:	No
Indication Patient was injured In a Blast by Enemy Fire:	No
Indication Patient was injured In a Blast by Friendly Fire:	No
Indication Patient was injured In a Blast by Unknown Source:	No
Indication Patient was injured In a Blast by Other Source:	No
Body Part(s) Where Injured:	
Indication if the Patient had Shrapnel, Fragments or Bullets Removed During Surgery:	
Indication Fragment Remains Embedded In Patient:	
Identification of Where Were you Treated for this injury:	
Do You Have any Other Foreign Material In Your Body Such as a Joint Replacement or Pacemaker:	
Do You Have Shrapnel or Fragments In Your Body That are Not Related to the Injury Above:	
Has a 24 Hour Urine Collection for Monitoring for Exposure to Contents of the Shrapnel or Fragments Been Performed:	
VA sensitive	
Close	

Figure 106 – Sample "View" Report

You may print the report just as you might any other web page, by using your browser's print command.

[Close](#) To close the report, click the **[Close]** button at the bottom of the screen.


14.3. My Tasks > Questionnaires/Forms > Completed

The screenshot shows the 'Embedded Fragments Registry' interface. At the top, there is a navigation bar with 'My Tasks', 'Patients', and 'Administration'. Below this is a red banner with the text 'MY TASKS > QUESTIONNAIRES/ FORMS > COMPLETED'. A search filter for 'Last Name' is present with 'Go' and 'Clear' buttons. A table lists 12 records with columns for Case #, Questionnaire/Form #, Patient Name, Received Date, Status, and Type. Each row has 'Select' and 'View' buttons. The 'Type' column shows 'Fragment Analysis' and 'Biological Monitoring'. A sidebar on the left contains navigation options for Referrals, Lab Kits, Questionnaires/Forms, Lab Orders, and Lab Results.

Case #	Questionnaire/Form #	Patient Name	Received Date	Status	Type		
2211	7036	Five Hundred Nine, Patient X	3/31/2010	Completed	Fragment Analysis	Select	View
2203	6985	One Hundred Eighty Nine, Patient X	3/31/2010	Completed	Fragment Analysis	Select	View
1570	6773	Two Hundred Forty Eight, Patient X	3/31/2010	Completed	Fragment Analysis	Select	View
1569	6767	Two Hundred Forty Eight, Patient X	3/31/2010	Completed	Biological Monitoring	Select	View
1553	6741	Two Hundred Forty Eight, Patient X	3/31/2010	Completed	Fragment Analysis	Select	View
1539	6652	Two Hundred Forty Eight, Patient X	3/31/2010	Completed	Biological Monitoring	Select	View
1531	6634	Two Hundred Forty Eight, Patient X	3/31/2010	Completed	Biological Monitoring	Select	View
1530	6629	Two Hundred Forty Eight, Patient X	3/31/2010	Completed	Fragment Analysis	Select	View
1526	6604	Five Hundred Sixty Five, Patient X	3/31/2010	Completed	Biological Monitoring	Select	View
1525	6593	Two Hundred Forty Eight, Patient X	3/31/2010	Completed	Biological Monitoring	Select	View

Figure 107 – Questionnaires/Forms > Completed

Note that there are two types of questionnaire (shown in the Type column)—one for biological monitoring, and another for fragment analysis. It is possible for the same patient to have either or both.

 To edit or view onscreen a questionnaire record, click the **Select** button at the right of the row which displays the order record. The first question, along with any responses already recorded, displays as shown in [Figure 84](#).



Note: The screens for IN PROCESS kits are the same as those for NEW kits. For that reason, they are not shown in this section. Please refer to the screen shots and explanations of the data elements starting at [14.1.1 above](#).

Part F. Lab Orders

15. My Tasks > Lab Orders

AVAILABILITY: See [Table 4 – Tasks by Role](#)

For any lab orders that are placed with the metals lab, the [TEFSC](#) Admin Staff records the lab order information into the EFR application and print the lab order form that is shipped with the specimen to the metals lab. The [BVAMC](#) Lab is used to analyze creatinine levels in urine samples but, for all other analysis, the specimen is sent to the metals lab. Only lab order information for orders being shipped to the metals lab is covered here. The TEFSC Admin Staff also utilizes the EFR system capabilities provided in this use case to edit an existing order or cancel an existing order. A patient may have multiple occurrences of biomonitoring and/or fragment analysis over time.

15.1. Lab Orders > New

AVAILABILITY: TEFSC Nurse	SCREEN NAME: Lab Order Queue
ACCESS: To access this screen, select MY TASKS > LAB ORDERS > NEW	
PURPOSE: After a biomonitoring or fragment analysis kit has been received, TEFSC needs to place an order with the laboratory. The orders are placed in the lab orders screen. Biomonitoring lab orders result in a paper document generated by the application, which will then be handed over to the laboratory. For Fragment Analysis, no paper document is being generated, but the actual lab order is handled outside the application, with the lab order screen just used for tracking purposes. The lab queue presents a view of all workflows that need a lab analysis ordered. Once the Nurse has found the referral of interest, the [Select] button can be used to pull up the referral details screen, as described in 11.1.3 .	

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

MY TASKS > LAB ORDERS > NEW

Filter by Last Name:

To sort please click table headings

Workflow ID	Patient Name	Site #	Facility	Status	Specimen Type	
2616	LastNameEOEJFG, Patient X	501	NEW MEXICO VA HEALTH CARE SYSTEM - ALBUQUERQUE DIVISION	New	Biological Monitoring	<input type="button" value="Select"/>
2606	EFRSixHundredTwentySix, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	New	Biological Monitoring	<input type="button" value="Select"/>
2498	Four Hundred Seventy Six, Patient X	517GA	GASSAWAY CBOC	New	Fragment Analysis	<input type="button" value="Select"/>

Figure 108 – Lab Orders > New (List)

15.1.1. New Fragment Analysis Lab Orders

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

MY TASKS > LAB ORDERS > NEW > WORKFLOW ID : 2498

Patient Information

Name: Four Hundred Forty, Patient X SSN: 000437008
 Service Branch: F.COMMONWEALTH Service Status: INACTIVE

Lab Request

Sample Type: FRAGMENT

Lab Request #:

Lab Request Date (mm/dd/yyyy):

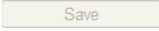
Date Sample Received at Metals Lab (mm/dd/yyyy):

Figure 109 – New Lab Orders (Details)

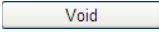
INCLUDES:

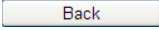
- **Patient Information** [pre-filled text]
 - *Name* | *SSN*
 - *Service Branch* | *Service Status*
- **Lab Request**
 - *Sample Type* [pre-filled text]
 - *Lab Request #* [pre-filled text]
 - Lab Request Date [text box]
 - Date Sample Received at metals Lab [text box]

Note that since these lab orders are still awaiting completion, the **[Save]** button is unavailable (grayed-out) until you enter new data.

 Click the **[Save]** button to save the data you entered. The screen redisplay, now showing the updates you made in the appropriate fields.

 If the order is complete, click the **[Complete]** button.

 If the order is to be voided, click the **[Void]** button.

 Or, click **[Back]** to discard any changes you have made, or to exit without making any changes. You return to the lab order list.

15.1.2. New Biological Monitoring Lab Orders

The screenshot displays the 'Embedded Fragments Registry' interface. At the top, the header includes the Department of Veterans Affairs logo and the text 'UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Embedded Fragments Registry'. Below the header is a navigation bar with tabs for 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. The main content area is titled 'MY TASKS > LAB ORDERS > NEW > WORKFLOW ID 2503'. On the left, a vertical navigation menu lists various categories: Referrals, Lab Kits, Questionnaires/Forms, Lab Orders, Lab Results, Interpretation & Follow Up, and Contact Logs. The 'Lab Orders' section is currently selected, showing a 'New' order.

Patient Information

Name: Five Hundred Nine, Patient X SSN: 000731361
Service Branch: MARINE CORPS Service Status: INACTIVE

Lab Request

Sample Type: URINE

Lab Request #:

Lab Request Date (mm/dd/yyyy) * : 5/24/2011

Date Sample Received at Metals Lab (mm/dd/yyyy):

BSO Number:

Tracking Number:

Sample ID Number: F1361

Sample Description:

Sample Instructions:

Analytes

Aluminum Arsenic Cadmium Chromium
 Cobalt Copper Iron Manganese
 Nickel Lead Uranium Uranium 235/238
 Tungsten Zinc All
 Other

Buttons: Save, Complete, Print, Void, Cancel

Figure 110 - New Biological Monitoring Lab Orders (Detail)

INCLUDES:

- **Patient Information** [pre-filled text]
 - *Name* | *SSN*
 - *Service Branch* | *Service Status*
- **Lab Request**
 - *Sample Type* [pre-filled text]
 - *Lab Request #* [pre-filled text]
 - Lab Request Date [text box]
 - Date Sample Received at metals Lab [text box]
 - BSO Number [text box]
 - Tracking Number [text box]
 - *Sample ID Number* [pre-filled text]
 - Sample Description [text box]
 - Sample Instructions [text box]
- **Analytes**
 - Aluminum | Arsenic | Cadmium | Chromium
 - Cobalt | Copper | Iron | Manganese
 - Nickel | Lead | Uranium | Uranium
 - Tungsten | Zinc | All | 235/238
 - Other [text box]

Note that since the lab orders are still awaiting completion, the **[Save]** button is unavailable (grayed-out) until you enter new data. The **[Print]** button is grayed-out until the record is moved to the Awaiting Results queue. This function prints the letter sent to the TEFSC lab.

Click the **[Save]** button to save the data you entered. The screen redisplay, now showing the updates you made in the appropriate fields.

If the order is complete, click the **[Complete]** button.

If the order is to be voided, click the **[Void]** button.

Or, click **[Cancel]** to discard any changes you have made, or to exit without making any changes. You return to the lab order list.

15.2. Lab Orders > Awaiting Results

AVAILABILITY: TEFSC Nurse	SCREEN NAME: Lab Order Queue
ACCESS: To access this screen, select MY TASKS > LAB ORDERS > AWAITING RESULTS	
PURPOSE: This screen displays all the available voided lab orders Once the user has found the lab order of interest, click the [Select] button to view the Lab Order details screen.	

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

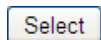
MY TASKS > LAB ORDERS > AWAITING RESULTS

Filter by: (Select value)

To sort please click table headings

Workflow ID	Lab Request #	Patient Name	Site #	Facility	Lab Request Date	Date Received by Metals Lab	Status	Specimen Type	BSO Number	
2619	11-TEF00081	LastNameDAEEG, Patient X	612	NORTHERN CALIFORNIA HEALTH CARE SYSTEM - MARTINEZ DIVISION	11/29/2011		Awaiting Results	Biological Monitoring	B050505050	<input type="button" value="Select"/>
2502	11-TEF00040	Three Hundred Fourteen, Patient X	636DX	QUINCY VA DOMICILIARY	5/10/2011	5/24/2011	Awaiting Results	Biological Monitoring	231234	<input type="button" value="Select"/>
2492	11-TEF00031	One Hundred Ninety Eight, Patient X	5499AC	BONHAM NURSING HOME CARE UNIT	4/12/2011	11/11/2011	Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>
2489	11-TEF00029	Four Hundred Twenty, Patient X	656	VAMC ST. CLOUD, MN	4/8/2011	4/8/2011	Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>
2484	11-TEF00024	Sixty Three, Patient X	506GC	JACKSON CBOC	4/7/2011		Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>
2473	11-TEF00013	Four Hundred Fifty Three, Patient X	640GB	PALO ALTO HEALTH CARE SYSTEM - SONORA DIVISION	3/28/2011		Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>
2472	11-TEF00012	Forty One, PatientTest051810 X	671B0	SOUTH TEXAS HEALTH CARE SYSTEM - MC ALLEN OUTPATIENT CLINIC	3/24/2011		Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>
2469	11-TEF00009	Three Hundred Seventeen, Patient X	520CA	GULFPORT (PHARM)	3/17/2011		Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>
2427	11-TEF00007	Five Hundred Twenty Seven, Patient X	5039AA	ALTOONA (NHCU)	3/17/2011		Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>
2422	11-TEF00008	Five Hundred Nine, Patient X	501GG	ZZHOBBS (CBOC)	3/17/2011		Awaiting Results	Fragment Analysis	N/A	<input type="button" value="Select"/>

Figure 111 – Lab Orders > Awaiting Results



Click [Select] to view the lab order. The fields and functionality on the in Process screens are identical to those depicted [Section 15.1.1](#) and [15.1.2](#) for both Fragment Analysis and Biological Monitoring respectively, with one exception. The **[Print]** button for Biological Monitoring is now available to print the letter sent to the TEFSI lab.

15.2.1. Filtering Lab Results

To filter the lab results, select the appropriate filter in the **Filter by** drop-down menu.

MY TASKS > LAB ORDERS > VOIDED

Filter by: Last Name (Select value) Last Name BSO Number Lab Request Number

Go Clear

Workflow ID	Patient Name	Site Number	Fa
-------------	--------------	-------------	----

Enter the appropriate filter information.

Click **[Go]** to apply the filter.

Click **[Clear]** to reset the contents of the filters.

15.3. Lab Orders > Voided

AVAILABILITY: TEFSC Nurse	SCREEN NAME: Lab Order Queue
ACCESS: To access this screen, select MY TASKS > LAB ORDERS > VOIDED	
PURPOSE This screen displays all the available voided lab orders Once the user has found the lab order of interest, click the [Select] button to view the Lab Order details screen.	

The fields and functionality on the Voided screens are identical to those depicted [Section 15.1.1](#) and [15.1.2](#) for both Fragment Analysis and Biological Monitoring respectively. The only changes are:

Since such lab orders have been voided, the **[Complete]**, **[Print]**, and **[Void]** buttons are unavailable (grayed-out). The **[Save]** button has been replaced with the **[Un-Void]** button.

Click **[Un-Void]** to return the order to the Awaiting Results queue.

Click **[Back]** to discard any changes you have made, or to exit without making any changes. You return to the lab order list.

To filter the lab orders, refer to [Section 15.2.1](#).

15.4. Lab Orders > Closed

AVAILABILITY: TEFSC Nurse	SCREEN NAME: Lab Order Queue
ACCESS: To access this screen, select MY TASKS > LAB ORDERS > CLOSED	
PURPOSE: This screen displays all the available voided lab orders Once the user has found the lab order of interest, click the [Select] button to view the Lab Order details screen.	

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

MY TASKS > LAB ORDERS > CLOSED

Filter by: (Select value) Go Clear

To sort please click table headings

Workflow ID	Lab Request #	Patient Name	Site #	Facility	Lab Request Date	Lab Report Date	Status	Specimen Type	BSO Number	
2612	11-TEF00079	LastNameAFCHOOJ, Patient X	626	VA TENNESSEE VALLEY HEALTHCARE SYSTEM - NASHVILLE DIVISION	11/23/2011		Closed	Biological Monitoring		Select
2609	11-TEF00077	LastNameEOEJGD, Patient X	539	CINCINNATI VAMC	11/22/2011		Closed	Biological Monitoring		Select
2608	11-TEF00076	LastNameJBHJGH, Patient X	644	PHOENIX VAMC	11/22/2011	11/22/2011	Closed	Biological Monitoring		Select
2607	11-TEF00075	LastNameADGDODJ, Patient X	437	FARGO VAMROC	11/22/2011		Closed	Biological Monitoring		Select
2605	11-TEF00078	EFRSixHundredTwentySix, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	11/23/2011		Closed	Biological Monitoring		Select
2604	11-TEF00080	EFRSixHundredTwentyFive, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	11/23/2011		Closed	Biological Monitoring		Select
2593	11-TEF00074	Six Hundred Four, Patient X	589DR	COLUMBIA NON-VA HOSPITAL (CIVIL/PUBLIC) (589DR)	11/22/2011		Closed	Biological Monitoring		Select
2591	11-TEF00070	Five Hundred Nine, Patient X	501GG	ZZHOBBS (CB0C)	11/16/2011	11/16/2011	Closed	Biological Monitoring		Select
2585	11-TEF00066	LastNameCJAAOE, Patient X	671	SOUTH TEXAS HEALTH CARE SYSTEM - SAN ANTONIO DIVISION	11/11/2011		Closed	Fragment Analysis	N/A	Select
2584	11-TEF00067	LastNameCJAAOE, Patient X	671	SOUTH TEXAS HEALTH CARE SYSTEM - SAN ANTONIO DIVISION	11/11/2011		Closed	Biological Monitoring		Select

1 2 3 4 5 ... >>

Figure 112 – Lab Orders > Closed

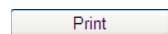
To filter the lab orders, refer to [Section 15.2.1](#).

15.4.1. Closed Fragment Analysis Orders

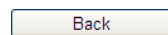
The fields and functionality on the Closed order screen are identical to those depicted [Section 15.1.1](#). Closed Fragment Analysis orders are set for read only. All other options are unavailable. Click the **[Back]** button to return to the Closed lab order list.

15.4.2. Closed Biological Monitoring Orders

The fields and functionality on the Closed order screen are identical to those depicted [Section 15.1.2](#). Closed Biological Monitoring orders are set for read only. Your options are:



Click the **[Print]** button to print the letter to send to the TEFSI lab



Or, click **[Back]** to discard any changes you have made, or to exit without making any changes. You return to the Closed lab order list.

16. My Tasks > Lab Results

AVAILABILITY: See [Table 4 – Tasks by Role](#)

Once an EFR patient's biomonitoring lab order results are made available from the [BVAMC](#) Lab via electronic interface, the TEFSC Admin Staff views the lab order results and closes the associated lab order by acknowledging receipt.

Biomonitoring lab results (but not Fragment lab results) are received via electronic interface from the BVAMC lab. Each lab result is reviewed manually by the Nurse, who can either accept or void the lab result. Each lab order can only have one accepted lab result, so if multiple lab results come in for the same order, the Nurse has to decide which one is correct and manually void all other ones.

16.1. Lab Results > New

**UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry**

Patients My Tasks Reporting Administration Help

MY TASKS > LAB RESULTS > NEW

Filter by Last Name:

To sort please click table headings

Workflow ID	Entry Date	Patient Name	Site #	Facility Name	Workflow Type	
2264		Five Hundred Forty One, Patient X	(405HG)	(QUITTING TIME CLINIC, WILDER VT.)	Fragment Analysis	<input type="button" value="Select"/>
2257		Five Hundred Nine, Patient X	(460HO)	(SALEM CITY MORC)	Biological Monitoring	<input type="button" value="Select"/>
2250		One Hundred Seventy One, Patient X	(632HB)	(RIVERHEAD,NY ORC)	Biological Monitoring	<input type="button" value="Select"/>
2229	5/12/2010	Four Hundred Sixteen, Patient X	(512GD)	(BALTIMORE CBOC)	Biological Monitoring	<input type="button" value="Select"/>
2219		Five Hundred Nine, Patient X	(460HO)	(SALEM CITY MORC)	Fragment Analysis	<input type="button" value="Select"/>
2215		Four Hundred Sixteen, Patient X	(512GD)	(BALTIMORE CBOC)	Fragment Analysis	<input type="button" value="Select"/>
2209	4/26/2010	One Hundred Ninety Eight, Patient X	(5499AC)	(BONHAM NURSING HOME CARE UNIT)	Biological Monitoring	<input type="button" value="Select"/>
2204	5/12/2010	Two Hundred Forty Eight MBA, Patient X	(523GD)	(ZZPLYMOUTH)	Biological Monitoring	<input type="button" value="Select"/>
2197		Two Hundred Forty Seven, Patient X	(442GB)	(SIDNEY CBOC)	Fragment Analysis	<input type="button" value="Select"/>

Figure 113 – Lab Results > New (List)

16.1.1. New Fragment Analysis Lab Results

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

MY TASKS > LAB RESULTS > NEW > WORKFLOW ID 2501

Patient Information

Full Name: Six Jr, Patient X ICN: 814142962
 SSN: 000072788 Gender: Male
 Birth Date: 3/27/1958

Lab Report Details

Kit Received Date: 4/26/2011
 Metals Lab Report Date (mm/dd/yyyy): Accession #:
 Lab Code: Lab ID:
 Producing Event Date (mm/dd/yyyy):

Create Fragment

Fragment Data

Fragment ID	Description
	<input type="text"/>

[Select]

Save Void Cancel [Go to Associated Lab Order](#)

Current User: Vitaly Shteyn
 Role(s): EFR TEFCO COORDINATOR (Super User), EFR Admin Staff, EFR TEFCO PROVIDER, EFR TEFCO NURSE
 5/23/2011 11:00:25 AM

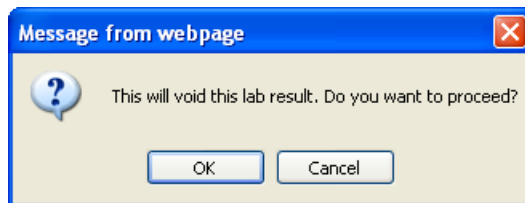
Figure 114 – New Fragment Analysis Lab Result (Detail)

INCLUDES:

- **Patient Information** [pre-filled text]
 - *Name* | *SSN*
 - *Service Branch* | *Service Status*
- **Lab Report Details** [all text boxes except as noted]
 - *Kit Received Date* [pre-filled text]
 - Metals Lab Report Date | Accession #
 - Lab Code | Lab ID
 - Producing Event Date
- **Create Fragment** button
- **Fragment Data**
 - Fragment ID # | Description | [Select] button

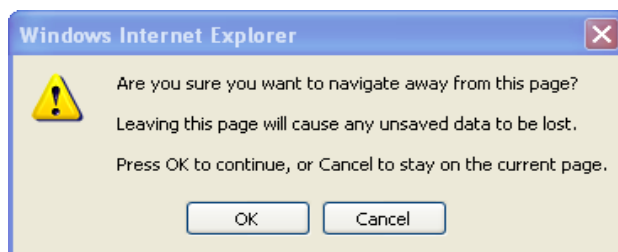
Click the **[Save]** button to save the data you entered. The screen redisplay, now showing the updates you made in the appropriate fields.

Or, click **[Void]** to void the lab result. The system will display a warning:



Click **[OK]** to void the record. The record will be moved Voided section. Click **[Cancel]** to go back to the record.

Or, click **[Cancel]** to discard any changes you have made, or to exit without making any changes. If any changes were made to the record, the system will display a warning:



Click **[OK]** to discard any changes and return to the lab results screen. Click **[Cancel]** to stay on the record.

Before selecting any of these options, you may click the **[Go To Associated Lab Order](#)** text link to see the lab order associated with these results.

16.1.1.1. Lab Results> New >Create Fragment

The **[Create Fragment]** button appears on both the Fragment Analysis New and In Process Lab Results. To enter multiple fragments:

1. Click the **[Create Fragment]** the previous screen (either the Lab Results > New or Lab Results > In Process screen).
2. Enter all of the appropriate information in the necessary fields.
3. Click the **[Save]** button to return to the Lab Results screen.
4. Repeat this process for all fragments.

My TASKS > LAB RESULTS > IN PROCESS > WORKFLOW ID 2472 > FRAGMENTS > FRAGMENT ID > 15

Fragment Data

Fragment ID#: 15

Description: clear description

Mass: 20 mcg

Dimensions

Length: 5 mm

Height: 6 mm

Width: 7 mm

Radioactive: Yes No Not Tested

Radioactive Result: abnormality

Comments:

Tissue Sent: Yes No

Tissue Associated with Fragment Details:

Analyte Data

	Analyte	Analysis Method	Analysis Type	Result %	Comments	CAS Number
<input type="button" value="Edit"/> <input type="button" value="Delete"/>	Manganese	ICP-OES	Whole Fragment Analysis	60	comment	can man 5
<input type="button" value="Add Analyte"/>	Aluminum	LA-ICP-MS	Surface Analysis			

Current User: Vitaly Shteyn

Figure 115 – Create Fragment Entry Screen

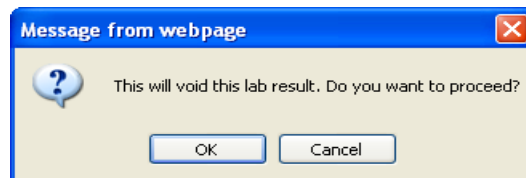
INCLUDES:

- **Fragment Data**
 - Fragment ID # [text box] | Description {text box}
 - Mass [text box] [drop-down list] | **Dimensions**
 - Length [text box] [drop-down list]
 - Height [text box] [drop-down list]
 - Width [text box] [drop-down list]
- **Radioactive** [Yes No radio buttons] | Radioactive Result [text box]
- **Comments** [text box]
- **Tissue Sent** [Yes No radio buttons] | Tissue Associated with Fragment Details [text box]

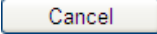
- **Analyte Data** panel [pre-filled text]
 - [Edit] and [Delete] buttons
 - Analyte
 - Analysis Method
 - Analysis Type
 - Result %
 - Comments
 - CAS Number

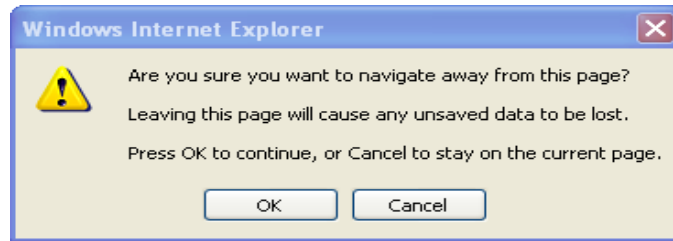
Click the **[Save]** button to save the data you entered. The screen redisplay, now showing the updates you made in the appropriate fields.

Or, click **[Void]** to void the lab result. The system will display a warning:



Click **[OK]** to void the record. The record will be moved Voiced section. Click **[Cancel]** to go back to the record.

 Or, click **[Cancel]** to discard any changes you have made, or to exit without making any changes. If any changes were made to the record, the system will display a warning:



Click **[OK]** to discard any changes and return to the lab results screen. Click **[Cancel]** to stay on the record.

Before selecting any of these options, you may click the **Go To Associated Lab Order** text link to see the lab order associated with these results.

16.1.2. New Lab Results Biological Monitoring

**UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry**

Patients My Tasks Reporting Administration Help

MY TASKS > LAB RESULTS > NEW > WORKFLOW ID 2502

Patient Information

Full Name: Three Hundred Fourteen, Patient X Birth Date: 7/27/1955 ICN: 117100432
 SSN: 000137522 Gender: Female

Lab Report Details

Lab Contact: Dr. Brown Accession [UID]: Kit Received Date: 5/10/2011
 Lab Name: Baltimore VA lab Specimen Type: Urine Lab Report Date (mm/dd/yyyy):
 Specimen Collection Date (mm/dd/yyyy):

Lab Tests

Elapsed Time(hours): Total Volume(ml): Volume of Analyte Tests(ml):

Test Name	Analyte Name	Analysis Method	Result	Unit	Lab Reference Range	Reference Range Unit	Above Lab Reference Range
STANDARDIZED	Chromium	ICP-MS	1.5	mcg/g CRE	1-2	mcg/g CRE	No

Comments:

Test Name *: (Select a Value) Analyte Name *: (Select a Value) Analysis Method: (Select a Value) Result *: Unit: (Select Unit) Lab Reference Range: Reference Range Unit: (Select Unit) Above Lab Reference Range

TEFSC Reference Range:

Evaluation Note:

Comment:

Add Analyte

* Field is required to add an analyte.

Save Void Accept Back [Go to Associated Lab Order](#)

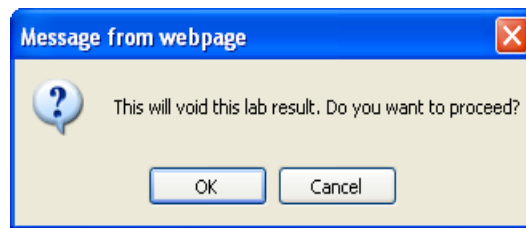
Figure 116 –New Biological Monitoring Lab Results (Detail)

INCLUDES:

- **Patient Information** [pre-filled text]
 - *Full Name* | *Birth Date* | *ICN*
 - *SSN* | *Gender*
- **Lab Report Details** [all text boxes except as noted]
 - *Kit Received Date*
 - **Lab Contact** | **Accession [UID] #** | **Lab Report Date**
 - *Lab Name* | *Specimen Type* | **Specimen Collection Date**
 - Producing Event Date
- **Lab Tests**
 - Elapsed Time (hours) | Total Volume (ml) | Volume of Analyte Tests (ml)
 - **[Edit]** Button | **[Delete]** Button
 - Drop-Down Lists:
 - Test Name | Analyte Name | Analysis Method | Reference Range Unit | Above Lab Reference Range [check box]
 - Text Boxes:
 - Result | Lab Reference Range | Evaluation Note | Comments
 - **[Add Analyte]** Button

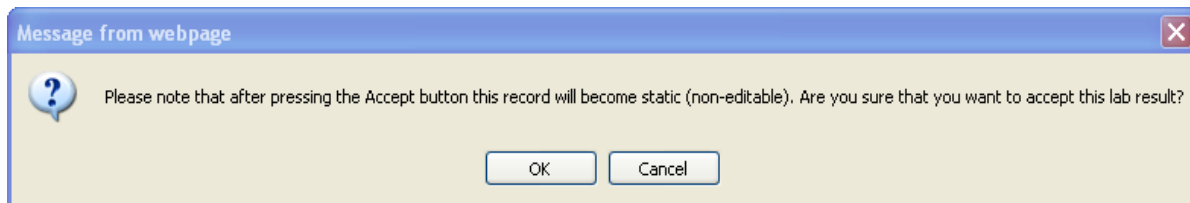
Click the **[Save]** button to save the data. The screen redisplay, now showing the updates you made in the appropriate fields.

Or, click **[Void]** to void the lab result. The system will display a warning:



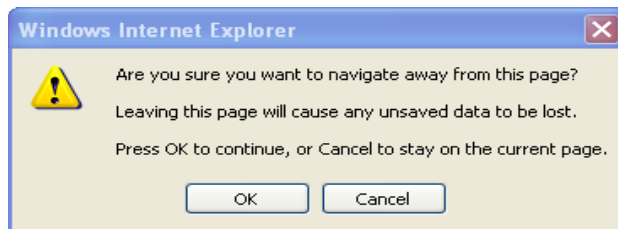
Click **[OK]** to void the record. The record will be moved Voiced section. Click **[Cancel]** to go back to the record.

Or, click to accept the lab results. You return to the lab results list. The system will display a warning:



Click **[OK]** to accept the record. You will be moved to the Accepted section. Click **[Cancel]** to go back to the record.

Or, click **[Back]** to discard any changes you have made, or to exit without making any changes. If any changes were made to the record, the system will display a warning:



Click **[OK]** to discard any changes and return to the lab results screen. Click **[Cancel]** to stay on the record.

Before selecting any of these options, you may click the **[Go To Associated Lab Order](#)** text link to see the lab order associated with these results.

16.2. Lab Results > In Process

The fields and functionality on the Voided screens are identical to those depicted [Section 16.1.1](#) and [16.1.2](#) for both Fragment Analysis and Biological Monitoring respectively; with one exception. The **[Accept]** button is now available on the Fragment Analysis In Process Screen.



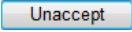
Note: The EFR lab interface will retrieve lab results for patients who have a Biomonitoring lab order in the EFR application. The lab interface will use a patient's SSN to match EFR patients in the Registries database to patients in the Research file in the Baltimore lab system.

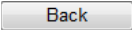
The EFR lab interface will attempt to retrieve lab results only for patients whose lab results are not in an 'Accepted' state in the EFR application. A patient's lab results may be edited manually while in an 'In Process' state. However, the interface will continue to retrieve results as long as the patient's results remain in the 'In Process' queue. A manually edited result will be overwritten by results retrieved by the interface upon its next execution. Likewise, the EFR application will continue to allow new lab results to be entered manually for a patient but those results may potentially be overwritten by the interface until the results are accepted.

The EFR lab interface will continue to retrieve lab results for a patient until the patient's lab results are marked as 'Accepted' in the EFR application. Patient lab results retrieved by the EFR lab interface will be placed in the Lab Results/In Process queue where they will be manually reviewed and 'accepted'.

16.3. Lab Results > Accepted

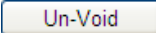
Once you accept a Lab Result, the record is set as read only. Your options are:

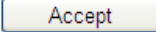
 Click the **[Unaccept]** button to return the record to the [Lab Results > In Process](#) queue. This option is only available to the TEFSC Administrator (Super user).

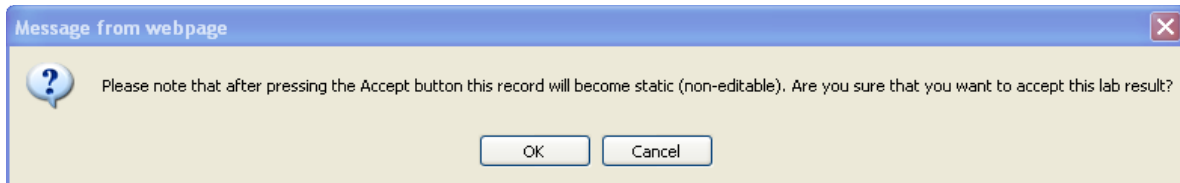
 Click the **[Back]** button to return to the list of accepted lab results.

16.4. Lab Results > Voided

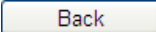
The fields and functionality on the Voided screens are identical to those depicted [Section 16.1.1](#) and [16.1.2](#) for both Fragment Analysis and Biological Monitoring respectively. Voided records are editable. Enter all appropriate information and click:

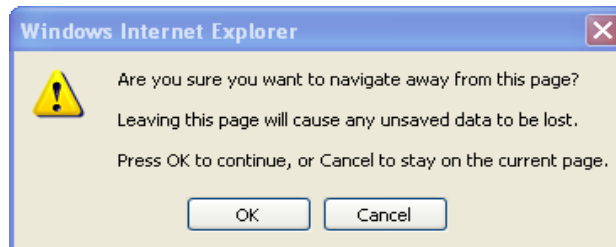
 Click the **[Un-Void]** button to save the data you entered and return the record to the In Process queue. The screen redisplay, in the In Process queue, showing the updates you made in the appropriate fields.

 Or, click to accept the lab results. You return to the lab results list. The system will display a warning:



Click **[OK]** to accept the record. You will be moved to the Accepted section. Click **[Cancel]** to go back to the record.

 Or, click **[Back]** to discard any changes you have made, or to exit without making any changes. On the Fragment Analysis screen, the back button is replaced with the **[Cancel]** button, however, the functionality remains identical. If any changes were made to the record, the system will display a warning:



Click **[OK]** to discard any changes and return to the lab results screen. Click **[Cancel]** to stay on the record.

Part G. Interpretation & Follow Up

17. My Tasks > Interpretation & Follow Up

Once a patient's lab results have been received, the [TEFSC](#) Provider will be notified (using methods outside the scope of EFRA). The TEFSC Provider accesses a patient's lab results in order to assess their care for TEFSC concerns. The TEFSC Provider also records the interpretation and communicates this to the Patient and to the Local [VA](#) Provider (or Primary Care Physician, if available). The system produces separate hardcopy letters which are sent directly to the Patient and Local VA Provider. An Alternate Local VA Provider may also be designated as a recipient. The Provider can also modify an existing interpretation, discontinue or proceed with follow up biomonitoring on a patient, identify lab results that are deemed to indicate high concentrations of an analyte found in the lab result, and define custom reference ranges to aid in the communication of the results.

17.1. My Tasks > Interpretation & Follow Up > New

AVAILABILITY: See Table 4 – Tasks by Role	SCREEN NAME: Interpretation Queue
ACCESS: To access this screen, select MY TASKS > INTERPRETATION & FOLLOW UP > NEW	
PURPOSE: This screen lists those patients who have been accepted into the Registry for either Biological Monitoring (Biomonitoring) or Fragment Analysis.	

MY TASKS > INTERPRETATION & FOLLOW UP > NEW

Filter by Last Name:

To sort please click table headings

Workflow ID	Patient Name	Site #	Facility	Specimen Type	
2497	One Hundred Eighty Nine, Patient X	528G1	MALONE CBOC	Fragment Analysis	<input type="button" value="Select"/>
2480	Seventy, Patient X	5549AB	PUEBLO NURSING HOME CARE UNIT	Fragment Analysis	<input type="button" value="Select"/>
2479	Four Hundred Forty One, Patient X	523BZ	VA BOSTON HEALTHCARE SYSTEM - BOSTON OPC DIVISION	Fragment Analysis	<input type="button" value="Select"/>
2479	Four Hundred Forty One, Patient X	523BZ	VA BOSTON HEALTHCARE SYSTEM - BOSTON OPC DIVISION	Fragment Analysis	<input type="button" value="Select"/>
2478	Five Hundred Forty One, Patient X	405HG	QUITTING TIME CLINIC, WILDER VT.	Fragment Analysis	<input type="button" value="Select"/>
2476	Five Hundred Nine, Patient X	501GG	ZZHOBBS (CBOC)	Fragment Analysis	<input type="button" value="Select"/>
2475	Five Hundred Nine, Patient X	501GG	ZZHOBBS (CBOC)	Fragment Analysis	<input type="button" value="Select"/>
2470	One Hundred Seventy One, Patient X	632HB	RIVERHEAD,NY ORC	Fragment Analysis	<input type="button" value="Select"/>
2470	One Hundred Seventy One, Patient X	632HB	RIVERHEAD,NY ORC	Fragment Analysis	<input type="button" value="Select"/>

Figure 117 – My Tasks > Interpretation & Follow Up > New

Note the column headed Specimen Type. A patient may have one, two or all three of the various types: biological monitoring, fragment analysis, or consultation.

To edit or view a workflow questionnaire record, click the **[Select]** button at the right of the row which displays the workflow record. The workflow information displays as shown in [17.1.1](#) and [17.1.2](#) below.

Click **[Print Completed Letters]** to print all letters from the [Batch Printing](#) queue.

17.1.1. My Tasks > Interpretation & Follow Up > New > Workflow ID [Biomonitoring]

Detail screens for Biomonitoring and Fragment Analysis present different data. The screen for Biomonitoring is shown below, in three parts.

My Tasks > Interpretation & Follow Up > New > Workflow ID 2525

Patient Information

Full Name:	EFRSixHundredTwentyTwo_EFRFIRST_EFR	Birth Date:	7/17/1979	ICN:	4348815519
SSN:	020488888	Gender:	Male	Zip Code:	00600

Lab Report Details

Lab Contact:	Dr. Brown	Accession [UID]:	ASC123	Kit Received Date:	8/4/2011
Lab Name:		Specimen Type:	Urine	Lab Report Date:	11/8/2011
				Specimen Collection Date (mm/dd/yyyy):	10/30/2011

Lab Tests

Elapsed Time: 24 hr Total Volume: 300 mL Volume of Analyte Tests: 150 mL

Test Name: STANDARDIZED Analysis Method: ICP-MS Comments: Lab Reference Range: 1-2 Unit: mcg/g CRE Above Lab Reference Range: No	Analyte: Cadmium Result: 2 mcg/g CRE TEFSC Reference Range: 0-1.02 Unit: mcg/g CRE Above TEFSC Reference Range <input type="radio"/> Yes <input checked="" type="radio"/> No
Test Name: MASS SPEC Analysis Method: ICP-MS Comments: Lab Reference Range: .2 - .6 Unit: mcg/day Above Lab Reference Range: Yes	Analyte: Chromium Result: .7 mcg/day TEFSC Reference Range: 0.1-2.0 Unit: mcg/day
Test Name: STANDARDIZED Analysis Method: ICP-MS Comments: Lab Reference Range: 0-8 Unit: mcg/g CRE Above Lab Reference Range: No	Analyte: Lead Result: 5 mcg/g CRE TEFSC Reference Range: 0-1.94 Unit: mcg/g CRE Above TEFSC Reference Range <input type="radio"/> Yes <input checked="" type="radio"/> No
Test Name: STANDARDIZED Analysis Method: ICP-MS Comments: < LOD [†] Lab Reference Range: N/A Unit: N/A Above Lab Reference Range: No	Analyte: Nickel Result: mcg/g CRE TEFSC Reference Range: 8-8.8 Unit: mcg/g CRE Above TEFSC Reference Range <input type="radio"/> Yes <input checked="" type="radio"/> No

Figure 118 – My Tasks > Interpretation & Follow Up > New > Workflow ID nnnn (Biological Monitoring, Part 1)

INCLUDES:

- **Patient Information**
 - Full Name | Birth Date | ICN
 - SSN | Gender | Zip Code
- **Lab Report Details** [all text boxes unless otherwise indicated]
 - Kit Received Date [pre-filled text]
 - Lab Contact
 - Accession (UID)
 - Lab Report Date [pre-filled text]
 - Lab Name [pre-filled text]
 - Specimen Type [pre-filled text]
 - Specimen Collection Date (mm/dd/yyyy) [text box]
- **Lab Tests** [all pre-filled text] [may repeat, as for CREATININE test, CONCENTRATION test, etc.]
 - Elapsed Time | Total Volume | Volume of Analyte Tests
 - Test Name | Analysis Method | Analyte
 - Result
 - Comments

- TEFSC Reference Range
- Lab Reference Range
 - Lab Reference Range / Above TEFSC Reference Range [Yes/No]
 - Above Lab Reference Range



Note: The patient's Full Name field displayed on the MY TASKS>INTERPRETATION & FOLLOW UP>NEW (OR IN PROCESS)>WORKFLOW ID N screen has been hyperlinked to the patient's Workflows screen. Similar functionality exists on the Referrals screen for Open and Closed referrals.

Clicking the hyperlink will display the [Workflow Information](#) screen for the patient.

Clicking **[Cancel]** on the Workflows screen will return to the previous screen from which the hyperlink was clicked.

<p>Primary Care Physician</p> <p>VAMC Provider3 1875 Provider Street Apt 4 Seattle, WA 00900 USA 111-555-1111</p> <p><input type="button" value="Send to PCP"/></p>	<p>Local VAMC Contact</p> <p>VAMC Contact 3 NORTH CHICAGO (DOM) 1875 Patient Main street Apt 4 Seattle, WA 12345-0023 United States 111-555-1111</p> <p><input type="button" value="Send to Contact"/></p>
<p>Provider Address</p> <p>Name: <input type="text" value="VAMC Provider3"/></p> <p>Facility Name: <input type="text"/></p> <p>Address Part1: <input type="text" value="1875 Provider Street"/></p> <p>Address Part2: <input type="text" value="Apt 4"/></p> <p>Address Part3: <input type="text"/></p> <p>City: <input type="text" value="Seattle"/></p> <p>State: <input type="text" value="WA"/></p> <p>Zip: <input type="text" value="00900"/></p> <p>Country: <input type="text" value="USA"/></p> <p>Telephone#: <input type="text" value="111-555-1111"/></p>	
<p>Patient Address</p> <p>Name: <input type="text" value="EFRSixHundredTwentyTwo, EFRFIRST EFR"/></p> <p>Address Part1: <input type="text" value="1244 Main St"/></p> <p>Address Part2: <input type="text"/></p> <p>Address Part3: <input type="text"/></p> <p>City: <input type="text" value="AnyCity"/></p> <p>State: <input type="text" value="VA"/></p> <p>Zip: <input type="text" value="00600"/></p> <p>Country: <input type="text" value="US"/></p> <p>Telephone#: <input type="text" value="222-555-1111"/></p>	
<p>Interpretation Notes To Provider</p> <div style="border: 1px solid gray; height: 30px;"></div>	

Figure 119 – My Tasks > Interpretation & Follow Up > New > Workflow ID nnnn (Biological Monitoring, Part 2)

INCLUDES:

- **Provider Address** [all pre-filled text]
- *Primary care Physician / Local VAMC Contact [all prefilled text]*
 - [Send to PCP] button | [Send to Contact] button
- **Provider Address** [all text boxes]
 - Name
 - Facility Name
 - Address Part 1, 2, 3
 - City
 - State
 - ZIP
 - Country
 - Telephone #
- **Patient Address** [all text boxes]
 - Name
 - Address Part 1, 2, 3
 - City
 - State
 - ZIP
 - Country
 - Telephone #
- **Interpretation Notes to Provider**
 - Provider Notes [text box]

The screenshot shows a web form titled 'Interpretation & Follow Up'. It contains several sections:

- Interpretation Notes To Patient:** A text area for notes.
- Letter Information:**
 - Provider Letter From:** A text box.
 - Provider Letter Subject (Patient name and last 4 digits of SSN will be appended to the end):** A text box.
 - Signing Clinician:** A dropdown menu.
 - CC Name:** A text box.
- Provider Letter Comment Before Signature:** A text area with pre-filled text: 'A copy of the enclosed letter addressed to the patient has been mailed directly to the patient. If you have any questions, please do not hesitate to call me at [redacted]'.
- Patient Letter Comment Before Signature:** A text area with pre-filled text: 'We are also sending your results to your VA healthcare provider. Please contact your VA healthcare provider if you have questions and to discuss the need for follow-up.'
- Biomonitoring Follow Up:**
 - Need Biomonitoring Follow Up?:** Radio buttons for 'Yes' (selected) and 'No'.
 - Follow Up Biomonitoring Due Date (mm/dd/yyyy):** A date input field.
 - Remind Me On (mm/dd/yyyy):** A date input field.


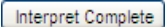
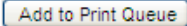



 At the bottom, there are buttons for 'Save', 'Interpret Complete', 'Add to Print Queue', 'Preview Provider Letter', 'Preview Patient Letter', and 'Back'.

Figure 120 – My Tasks > Interpretation & Follow Up > New > Workflow ID nnnn (Biological Monitoring, Part 3)

INCLUDES:

- **Interpretation Notes to Patient**
 - Patient Notes [text box]
 - **Letter Information** [all text boxes unless otherwise indicated]
 - Provider Letter From
 - Provider Letter Subject (Patient name and last 4 digits of SSN will be appended to end)
 - Signing Clinician [select from drop-down list]
- The dropdown menu shows three options: 'Beta Provider, D.O., M.P.H.' (highlighted in yellow), 'Able Physician, M.D.', and 'Beta Provider, D.O., M.P.H.' (highlighted in blue).
- CC Name
 - Provider Letter Comment Before Signature
 - Patient Letter Comment Before Signature
- **Biomonitoring Follow Up**
 - Need Biomonitoring Follow Up?
 - Yes | No
 - Follow Up Biomonitoring Due Date (mm/dd/yyyy) [text box]
 - Remind Me On (mm/dd/yyyy) [text box]


When you have finished editing or reviewing the record...

-  Click **[Save]** to save the record and return to the list.
-  Click **[Interpret Complete]** to mark the record as complete and return to the list. The record will be In Process status.
-  Click **[Add to Print Queue]** to add the letter to the [Batch Printing](#) queue.
-  Click **[Preview Provider Letter]** to print a letter to the VA Provider.*
-  Click **[Preview Patient Letter]** to print a letter to the Patient.*
-  Click **[Back]** to abandon any changes made and return to the list.

**This option is not available in the New queue.*

17.1.2. My Tasks > Interpretation & Follow Up > New > Workflow ID [Fragment Analysis]

Detail screens for Fragment Analysis and Biomonitoring present different data. Below is the screen for Fragment Analysis.


UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients
My Tasks
Reporting
Administration
Help

MY TASKS > INTERPRETATION & FOLLOW UP > NEW > WORKFLOW ID 2479

Referrals

- New
- Accepted
- Open
- Closed
- Follow Ups
- Ineligible

Lab Kits

- New
- Tracking
- Received
- Voided

Questionnaires/Forms

- New
- In Process
- Completed

Lab Orders

- New
- Awaiting Results
- Voided
- Closed

Lab Results

- New
- In Process
- Accepted
- Voided

Interpretation & Follow Up

- New**
- In Process
- Interpreted
- Contact Logs
- All Contacts

Patient Information

Full Name: [Four Hundred Forty One, Patient X](#) **ICN:** 1025135014
SSN: 000827411 **Gender:** Male
Birth Date: 4/12/1980

Lab Report Details

Metals Lab: 4/4/2011 **Accession #:** asc 2479
Report Date: **Lab ID:** lab id 2479
Lab Code: 123
Producing Event Date:

Fragment Data

Fragment ID	Description	Action
2479(1)	frag 1 in 2479	Select
2479(2)	frag 2 in 2479	Select
2479(3)	frag 3 in 2479	Select

Primary Care Physician

VAMC Provider3
2487 Provider Street
Apt 4
Seattle, WA 00900
USA
111-555-1111

Local VAMC Contact

VAMC Contact 3
VA BOSTON HEALTHCARE SYSTEM - BOSTON OPC DIVISION
2487 Patient Main street
Apt 4
Seattle, WA 12345-0023
United States
111-555-1111

Provider Address

Name: VAMC Provider3
Facility Name:
Address Part1: 2487 Provider Street
Address Part2: Apt 4
Address Part3:
City: Seattle
State: WA
Zip: 00900
Country: USA
Telephone#: 111-555-1111

Patient Address

Name: Four Hundred Forty One, Patient X
Address Part1: 1063 Main St
Address Part2:
Address Part3:
City: Kansas City
State: MO
Zip: 00600
Country: US
Telephone#: 222-555-1111

Interpretation Notes To Provider

Interpretation Notes To Patient

Letter Information

Provider Letter From:
Medical Director, Toxic Embedded Fragment Surveillance Center (512/11DU) Baltimore VA Medical Center

Provider Letter Subject (Patient name and last 4 digits of SSN will be appended to the end):
Interpretation Fragment Analysis Results for

Signing Clinician:
Melissa A. McDiarmid, M.D., M.P.H.

CC Name:

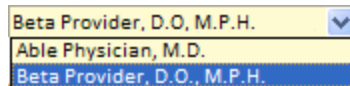
Provider Letter Comment Before Signature:
If you have any questions, please do not hesitate to call me at (410) 605-7373.

Patient Letter Comment Before Signature:
We are also sending your results to your VA healthcare provider. Please contact your VA healthcare provider if you have questions.

Figure 121 – My Tasks > Interpretation & Follow Up > New [Fragment Analysis] > Workflow ID NNNN

INCLUDES:

- *Patient Information*
 - Full Name | ICN
 - SSN | Gender
 - Birth Date
- *Lab Report Details [all pre-filled text]*
 - Metals Lab Report Date | Accession #
 - Lab Code | Lab ID
 - Producing Event Date
- *Fragment Data [all pre-filled text]*
 - Fragment ID# | Description | [Select button]
- *Analyte Data [prefilled text in columns]*
 - Analyte | Analysis Method | Analysis Type | Result % | Comments | CAS Number
- *Primary Care Physician* | *Local VAMC Contact*
 - PCP Address | Local VAMC Address
 - [Send to PCP Button] | [Send to Contact Button]
- **Provider Address panel** [all text boxes]
 - Name
 - Facility name
 - Address Part 1 | Part 2 | Part 3
 - City | State | Zip | Country
 - Telephone#
- **Patient Address**
 - Name
 - Address Part 1 | Part 2 | Part 3
 - City | State | Zip | Country
 - Telephone#
- **Interpretation Notes to Provider** panel [text box]
- **Interpretation Notes to Patient** panel [text box]
- **Letter Information** [all text boxes unless otherwise indicated]
 - Provider Letter From
 - Provider Letter Subject (Patient name and last 4 digits of SSN will be appended to end)
 - Signing Clinician [select from drop-down list]



- CC Name
- Provider Letter Comment Before Signature
- Patient Letter Comment Before Signature



Note: The patient's Full Name field displayed on the MY TASKS>INTERPRETATION & FOLLOW UP>NEW (OR IN PROCESS)>WORKFLOW ID *N* screen has been hyperlinked to the patient's Workflows screen. Similar functionality exists on the Referrals screen for Open and Closed referrals.

Clicking the hyperlink will display the [Workflow Information](#) screen for the patient.

Clicking **[Cancel]** on the Workflows screen will return to the previous screen from which the

hyperlink was clicked.

When you have finished editing or reviewing the record...

- Click **[Save]** to save the record and return to the list.
- Click **[Interpret Complete]** to mark the record as complete and return to the list. The record will be In Process status.
- Click **[Add to Print Queue]** to add the letter to the [Batch Printing](#) queue.
- Click **[Preview Provider Letter]** to print a letter to the VA Provider.*
- Click **[Preview Patient Letter]** to print a letter to the Patient.*
- Click **[Back]** to abandon any changes made and return to the list.

**These options are not available in the New queue.*

17.2. Interpretation & Follow Up > In Process

AVAILABILITY: See Table 4 – Tasks by Role	SCREEN NAME: [???
ACCESS: To access this screen, select MY TASKS > INTERPRETATION & FOLLOW UP > IN PROCESS	
PURPOSE: This screen is designed to show the interpretation records currently in process.	

MY TASKS > INTERPRETATION & FOLLOW UP > IN PROCESS

Filter by Last Name:

To sort please click table headings

Workflow ID	Patient Name	Site #	Facility	Specimen Type	
2513	One Hundred Ninety Nine, Patient X	519GD	FT. STOCKTON CBOC	Biological Monitoring	<input type="button" value="Select"/>
2500	Two Hundred Forty Seven, Patient X	442GB	SIDNEY CBOC	Fragment Analysis	<input type="button" value="Select"/>
2499	Four Hundred Forty, Patient X	544CN	COLUMBIA, SC ARMY HOSP	Fragment Analysis	<input type="button" value="Select"/>
2478	Five Hundred Forty One, Patient X	405HG	QUITTING TIME CLINIC, WILDER VT.	Fragment Analysis	<input type="button" value="Select"/>
2474	One Hundred Fifty Eight, Patient X	693GA	SAYRE OPC	Fragment Analysis	<input type="button" value="Select"/>
2426	Five Hundred Twenty Seven, Patient X	5039AA	ALTOONA (NHCU)	Biological Monitoring	<input type="button" value="Select"/>
2420	Five Hundred Nine, Patient X	501GG	ZZHOBBS (CBOC)	Biological Monitoring	<input type="button" value="Select"/>

Figure 122 – My Tasks > Interpretation & Follow Up > In Process

Note that there are two types of specimens (shown in the Specimen Type column)—one for biological monitoring, and another for fragment analysis. It is possible for the same patient to have either or both.

Select

To edit or view onscreen a record, click the **[Select]** button at the right of the row which displays the order record.

To edit or view onscreen a record, click the **[Select]** button at the right of the row which displays the order record.



Note: The screens for IN PROCESS records are the same as those for NEW records. For that reason, they are not shown in this section. Please refer to the screen shots and explanations of the data elements starting at [17.1 above](#).

When you have finished editing or reviewing the record...

Save

Click **[Save]** to save the record and return to the list.

Interpret Complete

Click **[Interpret Complete]** to mark the record as complete and return to the list. The record will be In Process status.

Add to Print Queue

Click **[Add to Print Queue]** to add the letter to the [Batch Printing](#) queue.

Preview Provider Letter

Click **[Preview Provider Letter]** to print a letter to the VA Provider. The letter is printed from this screen.

Preview Patient Letter

Click **[Preview Patient Letter]** to print a letter to the Patient. The letter is printed from this screen.

Back

Click **[Back]** to abandon any changes made and return to the list.

17.3. Interpretation & Follow Up > Interpreted

AVAILABILITY: See Table 4 – Tasks by Role	SCREEN NAME: [???
ACCESS: To access this screen, select MY TASKS > INTERPRETATION & FOLLOW UP > INTERPRETED	
PURPOSE: This screen is designed to show the records for which interpretation is complete.	

Filter by Last Name:

To sort please click table headings

Workflow ID	Patient Name	Site #	Facility	Specimen Type	
2536	Four Hundred Forty, Patient X	544CN	COLUMBIA, SC ARMY HOSP	Fragment Analysis	<input type="button" value="Select"/>
2533	Three Hundred Eighty One, Patient X	618GG	ROCHESTER (CBOC)	Biological Monitoring	<input type="button" value="Select"/>
2532	One Hundred Eighty Six, Patient X	695HK	CLEMENT J ZABLOCKI	Biological Monitoring	<input type="button" value="Select"/>
2531	One Hundred Eighty Six, Patient X	695HK	CLEMENT J ZABLOCKI	Biological Monitoring	<input type="button" value="Select"/>
2530	Six Hundred Four, Patient X	589DR	COLUMBIA NON-VA HOSPITAL (CIVIL/PUBLIC) (589DR)	Biological Monitoring	<input type="button" value="Select"/>
2529	One Hundred Eighty Eight, Patient X	504	AMARILLO HCS	Biological Monitoring	<input type="button" value="Select"/>
2528	EFRSixHundredTwenty, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	Biological Monitoring	<input type="button" value="Select"/>
2527	EFRSixHundredTwenty, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	Biological Monitoring	<input type="button" value="Select"/>
2526	EFRSixHundredTwentyOne, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	Biological Monitoring	<input type="button" value="Select"/>
2523	EFRSixHundredTwentyThree, EFRFIRST EFR	556BU	NORTH CHICAGO (DOM)	Biological Monitoring	<input type="button" value="Select"/>

1 2 3 4

Figure 123 – Interpretation & Follow Up > Interpreted

Note that there are two specimens (shown in the Specimens Type column)—one for biological monitoring, and another for fragment analysis. It is possible for the same patient to have either or both.




To edit or view onscreen a record, click the **[Select]** button at the right of the row which displays the order record.



Note: The screens for INTERPRETED records are the same as those for NEW records. For that reason, they are not shown in this section. Please refer to the screen shots and explanations of the data elements starting at [17.1 above](#).

The primary difference between this type of record and the earlier ones is that the record would carry complete lab tests and fragment analyses, like these:


UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients
My Tasks
Reporting
Administration
Help

MY TASKS > INTERPRETATION & FOLLOW UP > INTERPRETED > WORKFLOW ID 2533

Referrals

- New
- Accepted
- Open
- Closed
- Follow Ups
- Ineligible

Lab Kits

- New
- Tracking
- Received
- Voided

Questionnaires/Forms

- New
- In Process
- Completed

Lab Orders

- New
- Awaiting Results
- Voided
- Closed
- Lab Results

Interpretation & Follow Up

- New
- In Process
- Interpreted**
- Contact Logs
- All Contacts

My Tasks > INTERPRETATION & FOLLOW UP > INTERPRETED > WORKFLOW ID 2533

Patient Information

Full Name: Three Hundred Eighty One, Patient X	Birth Date: 6/11/1980	ICN: 1361052350
SSN: 000557768	Gender: Female	Zip Code: 00600

Lab Report Details

Lab Contact: Dr. Brown	Accession [UID]:	Kit Received Date: 7/27/2011
Lab Name:	Specimen Type: Urine	Lab Report Date:
		Specimen Collection Date (mm/dd/yyyy):

Lab Tests

Elapsed Time: hr	Total Volume: mL	Volume of Analyte Tests: mL
Test Name: STANDARDIZED	Analysis Method: ICP-MS	Analyte: Cadmium
		Result: 4 mcg/g CRE
Comments:		TEFSC Reference Range: 0-1.02 Unit: mcg/g CRE
Lab Reference Range: N/A Unit: N/A		Above TEFSC Reference Range
Lab Reference Range: N/A Unit: N/A		<input type="radio"/> Yes
Above Lab Reference Range: No		<input type="radio"/> No

Primary Care Physician

VAMC Provider3
2491 Provider Street
Apt 4
Seattle, WA 00900
USA
111-555-1111

Local VAMC Contact

VAMC Contact 3
ROCHESTER (CROC)
2491 Patient Main street
Apt 4
Seattle, WA 12345-0023
United States
111-555-1111

Provider Address

Name: VAMC Provider3

Facility Name:

Address Part1: 2491 Provider Street

Address Part2: Apt 4

Address Part3:

City: Seattle

State: WA

Zip: 00900

Country: USA

Telephone#: 111-555-1111

Primary Patient Address

Three Hundred Eighty One, Patient X
1003 Main St
San Francisco, CA 00600
US
222-555-1111

Alternate Patient Address

Three Hundred Eighty One, Patient X
111 Test St

Patient Address

Name: Three Hundred Eighty One, Patient X

Address Part1: 1003 Main St

Address Part2:

Address Part3:

City: San Francisco

State: CA

Zip: 00600

Country: US

Telephone#: 222-555-1111

Interpretation Notes To Provider

EdEd
1303

Interpretation Notes To Patient

EdEd
1303

Letter Information

Provider Letter From:
Medical Director, Toxic Embedded Fragment Surveillance Center (512/11DU) Baltimore VA Medical Center

Provider Letter Subject (Patient name and last 4 digits of SSN will be appended to the end):
Interpretation Urine Biomonitoring Results for

Signing Clinician:
Melissa A. McDermid, M.D., M.P.H.

CC Name:

Provider Letter Comment Before Signature:
If you have any questions, please do not hesitate to call me at (410) 665-7373.

Patient Letter Comment Before Signature:
We are also sending your results to your VA healthcare provider. Please contact your VA healthcare provider if you have questions.

Biomonitoring Follow Up

Need Biomonitoring Follow Up?

Yes No

Follow Up Biomonitoring Due Date (mm/dd/yyyy):

Remind Me On (mm/dd/yyyy):

The Follow Up Biomonitoring was created on 7/27/2011, Workflow ID 2533

Figure 124 – Complete Lab Test Results

You would likely also see completed interpretation notes, like this:

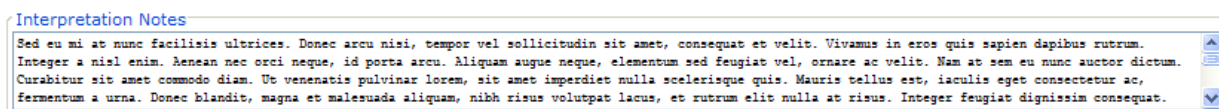

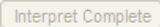

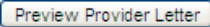
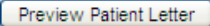



Figure 125 – Completed Interpretation Notes

When you have finished editing or reviewing the record...

-  Click **[Save]** to save the record and return to the list. This ability to edit a completed interpretation letter is only available to the TEFSC Administrator (Superuser). All other users, the **[Save]** button will be greyed-out.
-  Click **[Interpret Complete]** to mark the record as complete and return to the list. The record will be In Process status.*
-  Click **[Add to Print Queue]** to add the letter to the [Batch Printing](#) queue.*
-  Click **[Preview Provider Letter]** to print a letter to the VA Provider. The letter is printed from this screen.
-  Click **[Preview Patient Letter]** to print a letter to the Patient. The letter is printed from this screen.
-  Click **[Back]** to abandon any changes made and return to the list.

** These options are not available from the Interpreted queue.*

17.3.1. Printing an Interpretation Letter

After clicking **[Preview Provider Letter]** or **[Preview Patient Letter]**, the EFRA will display the interpretation letter.



Note: The screens for Patient and Provider Interpretation are identical. For that reason, only the provider letter is shown [Figure 126](#).

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

Patients My Tasks Reporting Administration Help

Referrals
New
Accepted
Open
Closed
Follow Ups
Ineligible
Lab Kits
New
Tracking
Received
Voided
Questionnaires/Forms
New
In Process
Completed
Lab Orders
New
Awaiting Results
Voided
Closed
Lab Results
New
In Process
Accepted
Voided
Interpretation & Follow Up
New
In Process
Interpreted
Contact Logs
All Contacts

MY TASKS > INTERPRETATION & FOLLOW UP > INTERPRETED > WORKFLOW ID 2584 > PROVIDER LETTER

1 of 1 Select a format Export

Department of Veterans Affairs

DATE: November 15, 2011

FROM: Medical Director, Toxic Embedded Fragment Surveillance Center (512/11DU)
Baltimore VA Medical Center

SUBJ: Interpretation Urine Biomonitoring Results for LastNameCJAAOE, Patient X - 6105

TO: SOUTH TEXAS HEALTH CARE SYSTEM - SAN ANTONIO DIVISION
7400 MERTON MINTER BLVD
SAN ANTONIO, TX 78229

testing 479

Chemical Substance	Creatinine Adjusted Value	Units of Measurement	Reference Range	Above Reference Range
Aluminum	2	mcg/g CRE	0-10.0 mcg/g CRE	Yes

* Value is below limit of detection.

If you have any questions, please do not hesitate to call me at (410) 605-7373.

Sincerely,

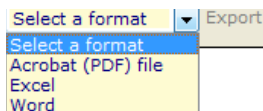
Melissa A. McDiarmid, M.D., M.P.H.
Medical Director
Toxic Embedded Fragment Surveillance Center

Figure 126 – Interpretation Letter Preview

On the task bar at the top of the letter:



Scrolls between the pages of the letter.



Exports the letter to one of the listed formats (PDF, Excel or Word).
Select the appropriate format and click **[Export]**.



Refreshes the data in the letter.



Prints the letter.

17.3.2. Batch Printing

Clicking the **[Add to Print Queue]** button on [the My Tasks > Interpretation & Follow Up > New > Workflow ID \[Biomonitoring\]](#), [My Tasks > Interpretation & Follow Up > New > Workflow ID](#)

[[Fragment Analysis](#)], and either [Interpretation & Follow Up > In Process](#) screens adds that letter to the Batch Print Queue.

To print all letters in the print queue, click [**Print Completed Letters**] on the [My Tasks > Interpretation & Follow Up > New](#) screen, refer to [Section 17.3.1 Printing an Interpretation Letter](#) for details on printing.



Note: The letters in the batch print queue are not official completed letters. They are draft versions for review only.

17.4. My Tasks > Contact Logs

AVAILABILITY: See Table 4 – Tasks by Role	SCREEN NAME: [???
ACCESS: To access this screen, select MY TASKS > [CONTACT LOGS] ALL CONTACTS	
PURPOSE: This screen is designed to show all of the contact logs.	

During the course of managing a case in the EFR, it is often necessary for [TEFSC](#) personnel to contact providers, patients, or their representatives. It may also be necessary or advantageous to have the patient visit the TEFSC for certain activities. The contact log will serve as a chronological record detailing the relevant information recorded during these communications with the provider, patient, or their representatives.

Referral #	Patient Name	Facility	Referral Date	Status	Last Contact Date	# Contacts
2492	Four Hundred Fifty Three, Patient X	SAN FRANCISCO VAMC	11/8/2009	Open Case	5/20/2010	1
1870	Two Hundred Forty Eight, Patient X	COLORADO SPRINGS	7/27/2007	Open Case	1/20/2010	4
1826	One Hundred Ninety Three, Patient X	COOKEVILLE COMMUNITY BASED OUTPATIENT CLINIC	9/14/2010	Open Case	1/10/2010	3

17.5. Contact Logs

17.5.1. All Contacts

The screenshot displays the 'Embedded Fragments Registry' interface. The top navigation bar includes 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. The left sidebar contains a list of tasks such as 'Referrals', 'Lab Kits', 'Lab Orders', 'Lab Results', and 'Interpretation & Follow Up'. The main content area is titled 'MY TASKS > CONTACT LOGS > ALL CONTACTS'. Below the title is a search filter 'Filter by Last Name:' with 'Go' and 'Clear' buttons. A table of contact logs is displayed with the following data:

Referral #	Patient Name	Facility	Referral Date	Status	Last Contact Date	# Contacts	
2492	Four Hundred Fifty Three, Patient X	SAN FRANCISCO VAMC	11/8/2009	Open Case	5/20/2010	1	Select
1870	Two Hundred Forty Eight, Patient X	COLORADO SPRINGS	7/27/2007	Open Case	1/20/2010	4	Select
1826	One Hundred Ninety Three, Patient X	COOKEVILLE COMMUNITY BASED OUTPATIENT CLINIC	9/14/2010	Open Case	1/10/2010	3	Select

Figure 127 – Contact Logs > All Contacts

When you select the CONTACT LOGS > ALL CONTACTS task, you will see the list of contact logs, as shown above.

Select a record to look at or work on by clicking the **[Select]** button at the right of the row containing the record. Or, if you have triaged a referral and clicked **[Add Contact]** (see [11.1.3.4 above](#)) and if no contact log has previously been established, you will see the New Log screen. You will see the same information in either, as shown in [Figure 128](#).

17.5.2. Creating or Editing a Contact Log

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Embedded Fragments Registry

My Tasks Patients Administration

MY TASKS > CONTACT LOGS > ALL CONTACTS > REF # 2495 > NEW LOG

Patient
 ICN: Name: Three Hundred Seventeen, Patient X SSN: 000-27-5336 DOB:

Contact Log Details

Person Contacted First Name * :

Person Contacted Last Name * :

Date Contact was Made (mm/dd/yyyy) * :

Time (hh:mm): AM

Name of Person Initiating Contact: PATRIOT-REGISTR\OneEfrprovider

Method of Contact:

Person Contacted Telephone Number:

Person Contacted Email:

Person Contacted Addr1:

Person Contacted Addr2:

Person Contacted Addr3:

Person Contacted City:

Person Contacted State:

Person Contacted Zip Code + 4: -

Person Contacted Country:

Reason for Contact * :

Textual Record of the Contact Conversation * :

Telemedicine Consultation with Provider?: Yes No

Telemedicine Consultation with Patient?: Yes No

Inpatient Evaluation Recommended?: Yes No

Inpatient Evaluation Completed Date (mm/dd/yyyy):

Follow Up Contact Needed?: Yes No

Follow Up Contact Required By Date (mm/dd/yyyy):

Follow Up Contact Completed Date (mm/dd/yyyy):

Figure 128 – Contact Log

INCLUDES:

- *Patient*
 - *ICN*
 - *Name*
 - *SSN*
 - *DOB*
- **Contact Log Details** (all text entry boxes unless otherwise indicated)
 - Person Contacted Last Name
 - Person Contacted First Name
 - Date and Time Contact was Made
 - *Name of Person Initiating Contact (provided by application)*
 - Method of Contact [w/ drop-down list]
 - Person Contacted Telephone Number
 - Person Contacted Email
 - Person Contacted Addr1
 - Person Contacted Addr2
 - Person Contacted Addr3
 - Person Contacted City
 - Person Contacted State
 - Person Contacted ZIP Code+4
 - Person Contacted Country
 - Reason for Contact
 - Textual Record of the Contact Conversation [w/ text entry box]
 - Telemedicine Consultation with Provider? [Yes No radio buttons]
 - Telemedicine Consultation with Patient? [Yes No radio buttons]
 - Inpatient Evaluation Recommended? [Yes No radio buttons]
 - Inpatient Evaluation Completed Date
 - Follow Up Contact Needed? [Yes No radio buttons]
 - Follow Up Contact Required By Date
 - Follow Up Contact Completed Date

Enter the available information. From here, you can...

Save the Contact information and exit the Contact form

Cancel the edit and close the Contact record

Part H. Patients Tab

18. Patients tab

From any area of the application, you can search for a patient already in the Registry. Click on the Patients tab; the PATIENTS > PATIENTS LOOKUP screen appears and displays the [Lookup Patient](#) pane. You can search using either the SSN, patient Last Name, or a combination. EFRA uses “contains” search logic. *Do not* use “wildcard” indicators like “*” or “?” in your search.

Here we enter the Last Name and click on **[Search]** (or, you may press the < **Enter** > key). Note how the text entry box background changes to light yellow when you start entering text.

The screenshot shows the 'Patient Lookup' interface. At the top, there is a header with the United States Department of Veterans Affairs logo and the text 'UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Embedded Fragments Registry'. Below this is a navigation bar with 'My Tasks', 'Patients', and 'Administration' tabs. The main content area is titled 'PATIENTS > PATIENTS LOOKUP'. On the left, there is a 'Patient Lookup' sidebar. The main search area contains a 'Lookup Patient' section with four text input fields: 'SSN:', 'First Name:', 'Last Name:', and 'ICN:'. The 'Last Name:' field contains the text 'One Hundred' and has a light yellow background. Below the input fields is a 'Search' button. At the bottom left, there is a status bar showing 'Current User: One EFRUser', 'Role(s): EFR Data Entry Personnel', and '2/2/2010 10:34:15 AM'.

Figure 129 – Patient Search Pane

INCLUDES:

- [Lookup Patient](#) [all text boxes]
 - SSN
 - First Name
 - Last Name
 - ICN

When you have entered the data, click the **[Search]** button.

18.1. Patient Search Results

In this case, we find several patients (only two shown here):

Last Name:

ICN:

To sort please click table headings

Patient #	SSN	Full Name	VAMC	City	
776	000-61-4358	One Hundred Fifty Four, Patient X	(VISN 23) (438GC) SIOUX CITY	Minneapolis	<input type="button" value="Select"/>
777	000-84-7201	One Hundred Fifty Five, Patient X	(VISN 18) (501) NEW MEXICO HCS	Dallas	<input type="button" value="Select"/>

Figure 130 – Patient Search Results

To view complete information for a patient, click on the **[Select]** button at the right of the row listing the patient.

18.2. Patient Data Display

All available patient data is displayed. Note that the data in the [Patient Information](#) pane (which was brought over from [VistA](#)) is read-only here. You may, however, enter data in the [Patient Alternative Contact](#) pane.

INCLUDES:

- [Patient Information](#) [all pre-filled text]
 - *ICN*
 - *SSN*
 - *Full Name*
 - *Home VAMC*
 - *Gender*
 - *Birth Date*
 - *Race*
 - *Death Date*
 - *Marital Status*
 - *Ethnicity*
 - *Address | Address Line 2 | Address Line 3*
 - *City | State | Postal Code | County | Country*
 - *Home Phone | Work Phone*
- [Patient Alternate Contact Information](#) [all text boxes unless otherwise noted]
 - Alternate Street Address 1 | 2 | 3
 - Alternate City | State | ZIP | Country
 - Alternate Home Telephone
 - Alternate Work Telephone
 - Alternate Mobile Telephone
 - [Preferred Alternate Telephone Number](#) [radio buttons; select one]
 - Home
 - Work
 - Mobile
 - Email Address

Again, note that the text field turns light yellow when you begin to enter text:

Click the **[Save]** button to save the data you entered. The screen redisplay, now showing the updates you made in the appropriate fields. Make other changes as needed and click **[Save]**. When you have made all desired changes, use the **LEFT NAVIGATION BAR** or the **TABS** to continue with other tasks.

Or, click **[Cancel]** to discard any changes you have made, or to exit without making any changes. You return to the search results screen.

18.3. Patient Not Found

If a patient is not found using your search criteria, you will see this result:

The screenshot shows the 'Patient Lookup' interface of the Embedded Fragments Registry. The header includes the Department of Veterans Affairs logo and the text 'UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Embedded Fragments Registry'. Below the header are tabs for 'My Tasks', 'Patients', and 'Administration'. The main content area is titled 'PATIENTS > PATIENTS LOOKUP'. It contains a 'Lookup Patient' form with fields for 'SSN:', 'First Name:', 'Last Name:' (containing 'EFRPatient'), and 'ICN:'. A 'Search' button is located below the fields. Below the search button, there is a message: 'To sort please click table headings' and a table with one row: 'No EFR patients found matching your search criteria'. This row is circled in red. At the bottom left, the current user information is displayed: 'Current User: One EFRUser', 'Role(s): EFR Data Entry Personnel', and '2/2/2010 10:34:15 AM'.

Figure 132 – Patient Not Found

Use the **LEFT NAVIGATION BAR** or the **TABS** to continue with other tasks.

Part I. Administration Tab

19. Administration tab

The User Administration Application allows the Admin Staff to view, edit, and sort user roles. The Admin Staff role is designed to be a global role that is not specific to any facility. The Admin Staff can view, edit, and manage users and user roles.

19.1. Administration > Users

At ADMINISTRATION > USERS, a list of all users displays on the screen.

The screenshot displays the 'Administration > Users' interface. At the top, there is a navigation bar with tabs for 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. Below this, a sidebar on the left lists 'Users', 'Role Matrix', 'Reference Ranges', 'Auto Triage', and 'DoD Fragment Data'. The main content area features a search bar with 'Search' and 'Clear' buttons. A table lists users with columns for 'Id', 'NT Username', and 'Name'. Each row includes 'Edit', 'Edit Roles', and 'Remove' buttons. A '1 2' pagination indicator is visible at the bottom of the table. An 'Add User' button is located at the bottom left of the main content area.

Id	NT Username	Name			
1			Edit	Edit Roles	Remove
27			Edit	Edit Roles	Remove
36			Edit	Edit Roles	Remove
37			Edit	Edit Roles	Remove
54			Edit	Edit Roles	Remove
55			Edit	Edit Roles	Remove
58			Edit	Edit Roles	Remove
71			Edit	Edit Roles	Remove
72			Edit	Edit Roles	Remove
74			Edit	Edit Roles	Remove

Figure 133 – Administration > Users List

Use this screen to see users and to edit information about the user (“profile” information), to edit the user’s roles, or to remove the user from the list of authorized users. You can search for a specific user, or leave the search field empty and click **[Search]** to see all users. Search results are displayed as shown above.



To edit information about the user, click the **[Edit]** button beside the user’s name. **MORE INFORMATION:** [19.1.1.](#)

[Edit Roles](#)

To edit information about the user's role, click the **[Edit Roles]** button beside the user's name. **MORE INFORMATION:** [19.1.2.](#)

[Remove](#)

To remove the user from the list, click the **[Remove]** button. You will be asked to confirm the removal.

[Add User](#)

To add a new user, click the **[Add]** button at the bottom of the screen. **MORE INFORMATION:** [19.1.4.](#)

19.1.1. Administration > Edit User

The screenshot shows the 'Edit User Account Information' form within the 'Administration > Users > JHAGERTY' section. The form contains the following fields:

- NT Username:
- Full Name:
- First Name:
- Middle Name:
- Last Name:
- Maiden Name:
- Employee Number:
- Job Title:
- Email Address:
- Telephone:
- Fax:

Metadata fields at the bottom of the form:

- Created By:
- Created On: 6/1/2009
- Updated By:
- Updated On: 5/15/2012

Navigation buttons:

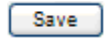
Figure 134 – Administration > Users > Name

INCLUDES:

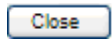
- [Edit User Account Information](#) [all text boxes]
 - NT Username
 - Full Name
 - First Name
 - Middle Name

- Last Name
- Maiden Name
- Employee Number
- Job Title
- Email Address
- Telephone
- Fax

When you have recorded the new or changed information...



Click the **[Save]** button to save the record. There is no acknowledgment message; the edit screen redisplay with the updated information.



Click the **[Close]** button to close the edit screen and return to the list of users. Remember that the state in which you left the information at the time you click **[Close]** is what will be retained in the database.

Use the **LEFT NAVIGATION BAR** to choose your next task.

19.1.2. Administration > Edit User Roles

The available roles are:

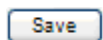
- **Admin Staff:** The Admin Staff is responsible for administrative activities associated with placing kit orders with third party vendors for specimens and fragments. The Admin Staff will also manage kit tracking and sample tracking.
- **TEFSC COORDINATOR (Super User):** The TEFSC Coordinator is ultimately responsible for following EFR patients through their lifecycle of involvement with [TEFSC](#). The TEFSC Coordinator is responsible for keeping the TEFSC Providers informed of status of cases. Another responsibility of the TEFSC Coordinator is to perform population level surveillance using data captured in the EFR.
- **TEFSC PROVIDER:** TEFSC Providers are the physicians located at the [TEFSC](#). They act as subject matter experts on the standards of care as they apply to Veterans who have embedded fragments. Through analysis of EFR data they develop handbooks and directives that convey care guidelines to the Local [VA](#) Providers at VAMC facilities. TEFSC Providers also interpret lab results for individual patients to provide treatment recommendations to the Local VA Providers.
- **TEFSC NURSE:** The TEFSC Nurse is responsible for interaction with [VA](#) providers and patients to assist with information gathering required to make Registry population determinations and coordination of clinical consultations.
- **Data Entry Personnel:** When biomonitoring specimen collection kits are returned to [TEFSC](#), they contain a completed biomonitoring questionnaire. When fragment collection kits are returned to TEFSC they contain a completed fragment specimen collection form. Data Entry Personnel record information from the forms into EFRA. In addition, if they learn of changes to alternate contact information from the form received, they may edit form details and edit, or delete alternate contact information associated with the patient.

Figure 135 – Administration > Users > Name > Roles

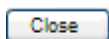
INCLUDES:

- [Edit User Role Information](#)
 - [User Profile](#) [all pre-filled text]
 - *NT Username*
 - *Full Name*
 - *Job Title*
 - [Roles](#) [all checkboxes; check one, several, or all]
 - Admin Staff
 - TEFSC Coordinator (Super User)
 - TEFSC Provider
 - TEFSC Nurse
 - TEFSC Data Entry Personnel

When you have recorded the new or changed information...



Click the [**Save**] button to save the record. There is no acknowledgment message; the edit screen redisplay with the updated information.



Click the [**Close**] button to close the edit screen and return to the list of users. Remember that the state in which you left the information at the time you click [**Close**] is what will be retained in the database.

Use the **LEFT NAVIGATION BAR** to choose your next task.

19.1.3. Administration > Users > Remove User

If you click the **[Remove]** button on the user list screen, you will be asked to confirm the removal:

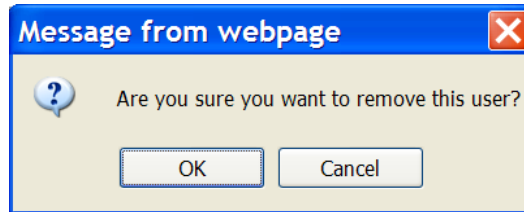


Figure 136 – Confirm User Removal

Click **[OK]** to remove the user

Click **[Cancel]** to cancel the removal and leave the user in the database

19.1.4. Administration > Users > Add New User

19.1.4.1. Searching the User Database

On the Administration > User screen, click **[Add User]**.

In order to limit the number of duplicate users, you must first do a search to determine if the username is already in the database. Enter the complete NT username.

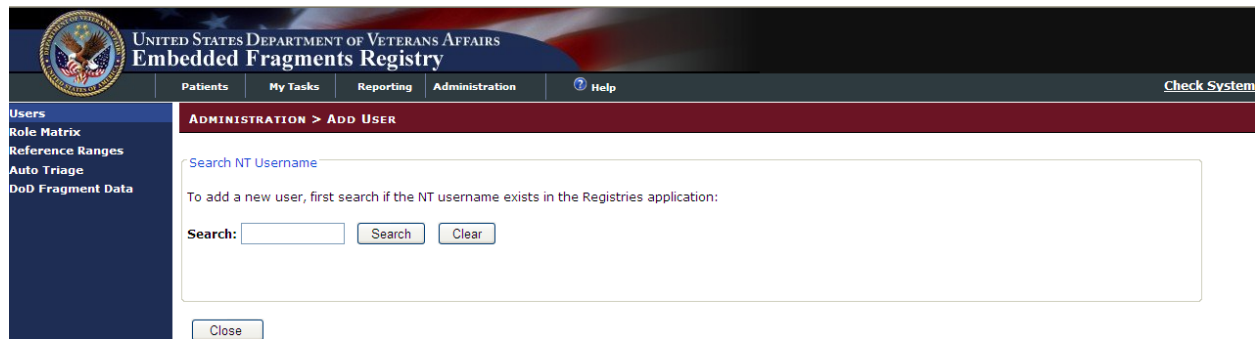


Figure 137 – Administration > Add User > Search

Click **[Search]** to execute the search.

Click **[Clear]** to clear the search field of all contents

Click **[Close]** to cancel the process and return to the Administration > Users screen

19.1.4.2. New Username Does Not Exist

If the username you entered is not found in the database, you will see the view/edit screen for user changes (as shown in [Figure 134](#) above). Complete and save the information as shown in that section.



Important: Verify the user role information is accurate. If a role is not assigned, the user will not be able to access EFRA. See [19.1.2 above](#).

19.1.4.3. New Username Already Exists

If the username you entered already exists, you will see this screen:

Figure 138 – Username Exists

The system advises you that a user by this name is already in the database. While you cannot add the new username, you can see the details about the existing username:

[View / Edit User Account](#)

Click the **[View/Edit User Account]** button. The view/edit screen for user changes appears (as shown in [Figure 134](#) above).

[Close](#)

Or, click the **[Close]** button to return to the user list.

19.2. Administration > Role Matrix

In addition to managing users and their roles by name, you can also see a list of users and all their associated user roles. Clicking the user's ID number brings up the [Administration > Edit User Roles](#) screen.

The screenshot displays the 'Administration > Role Matrix' page in the Embedded Fragments Registry. The page header includes the United States Department of Veterans Affairs logo and the title 'Embedded Fragments Registry'. The navigation menu includes 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. The left sidebar contains 'Users', 'Role Matrix', 'Reference Ranges', 'Auto Triage', and 'DoD Fragment Data'. The main content area shows a search bar with 'Search' and 'Clear' buttons. Below the search bar is a table with columns 'ID', 'NT Username', 'Full Name', and 'Role'. The table contains 11 rows of user data. At the bottom of the table is a 'Download To Excel' button.

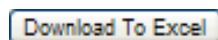
ID	NT Username	Full Name	Role
1			EFR Admin Staff
1			TEFSC Data Entry Personnel
1			TEFSC Nurse
1			TEFSC Provider
14			EFR Admin Staff
14			EFR TEFSC COORDINATOR (Super User)
14			TEFSC Provider
14			TEFSC Nurse
14			TEFSC Data Entry Personnel
27			EFR Admin Staff

1 2 3 4 5 ... Last Page

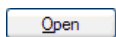
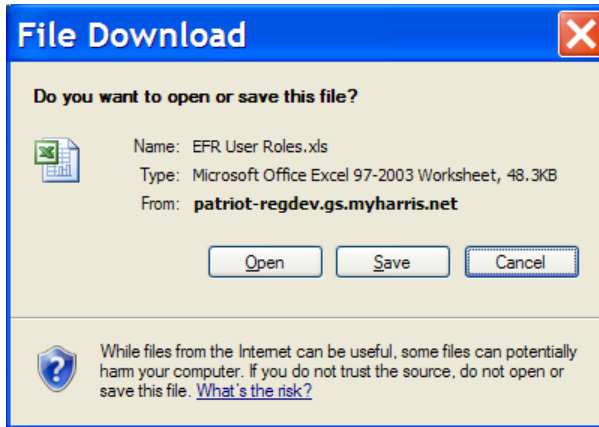
Download To Excel

Figure 139 – Administration > Role Matrix

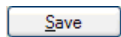
You can download the list in a format suitable for loading into Excel.



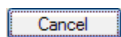
Click the **[Download to Excel]** button. You will see a popup like this:



Click **[Open]** to run Excel and insert the contents of the list into the spreadsheet `EFR User Roles.xls`.



Click **[Save]** to save the list to your hard drive.



Click **[Cancel]** to cancel the file download.

If you click **[Open]**, you may see this notice:

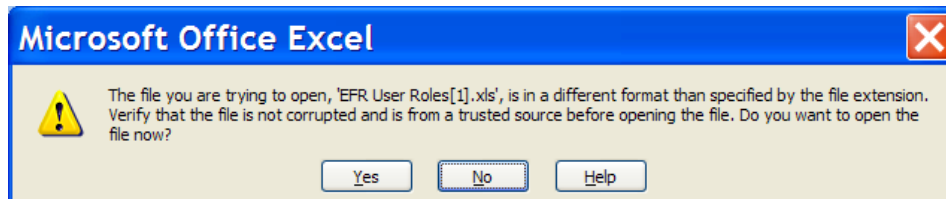


Figure 140 – Excel Format Warning

Click **[Yes]** to run Excel and insert the contents of the downloaded file.



Note: Although the spreadsheet will display the same notice seen on the list screen...

To sort please click table headings

... you cannot sort using this method. We suggest that you delete the row carrying the notice and use Excel's built-in sort utilities if you wish.

19.3. Administration > Reference Ranges

The Reference Ranges screen provides TEFSC the ability to maintain their own reference ranges for lab results. The TEFSC reference range is the acceptable level of metals in a patient's bloodstream.

Test Name	Analyte Name	TEFSC Reference Range	Unit	
CONCENTRATION	Creatinine		mg/dl	Edit
CREATININE	Creatinine	0.6-2.5	g/24hr	Edit
MASS SPEC	Aluminum	1-20	mcg/day	Edit
MASS SPEC	Arsenic	0-66.2	mcg/l	Edit
MASS SPEC	Cadmium	0-1.80	mcg/l	Edit
MASS SPEC	Chromium	0.1-2.0	mcg/day	Edit
MASS SPEC	Cobalt	0-1.06	mcg/l	Edit
MASS SPEC	Copper	3.0-50.0	mcg/day	Edit
MASS SPEC	Iron	100-300	mcg/day	Edit
MASS SPEC	Lead	1-3.21	mcg/l	Edit
MASS SPEC	Manganese	2-5.25	mcg/day	Edit
MASS SPEC	Nickel	0.1-10.0	mcg/day	Edit
MASS SPEC	Tungsten	0-0.360	mcg/l	Edit
MASS SPEC	Uranium	0-0.029	-no unit-	Edit
MASS SPEC	Zinc	150-1300	mcg/day	Edit
RATIO U235/U238	Uranium	0.006-0.009	mcg/day	Edit
STANDARDIZED	Aluminum	0-10.0	mcg/g CRE	Edit
STANDARDIZED	Arsenic	0-53.90	mcg/g CRE	Edit
STANDARDIZED	Cadmium	0-1.02	mcg/g CRE	Edit
STANDARDIZED	Chromium	0-2.0	mcg/g CRE	Edit
STANDARDIZED	Cobalt	0-0.98	mcg/g CRE	Edit
STANDARDIZED	Copper	1-51.0	mcg/g CRE	Edit
STANDARDIZED	Iron	1-400	mcg/day	Edit
STANDARDIZED	Lead	0-1.94	mcg/g CRE	Edit
STANDARDIZED	Manganese	0-2.0	mcg/g CRE	Edit
STANDARDIZED	Nickel	8-8.8	mcg/g CRE	Edit
STANDARDIZED	Tungsten	0-0.28	mcg/g CRE	Edit
STANDARDIZED	Uranium	0-0.03	mcg/g CRE	Edit
STANDARDIZED	Zinc	0-1300.0	mcg/g CRE	Edit

Figure 141 – Administration > Reference Ranges

[Edit](#) Click **[Edit]** next to the appropriate analyte to adjust the reference range.

19.3.1. Editing a Reference Range

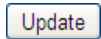
On the Administration > Reference Range > Analyte screen, adjust the reference range as appropriate.



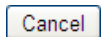
Figure 142 – Administration > Reference Range > Edit Analyte

INCLUDES:

- *Test Name*
- *Analyte Name*
- TEFSC Reference Range
- Unit [Drop-Down Menu]



Click [**Update**] to save the changes to the analyte



Click [**Cancel**] to discard the changes and return to the Reference Range screen.

19.4. Administration > Auto Triage

The TEFSC Administrator (Superuser) has the ability to automatically triage all new referrals in the referral queue. To auto-triage qualifying referrals, click [**Run Auto Triage**]:



Figure 143 – Run Auto Triage

This automatic triaging functionality is executable at any point in time by the superuser role. The EFRA will automatically pull in the referrals according to the following qualifications:

1. The system triages new referrals to a biomonitoring workflow that have one of the following risk categories:
 - a. The Auto-triage indicates that the patient has had a fragment removed at surgery or has a documented retained fragment
 - b. The Auto-triage indicates that the patient has a high likelihood of having a retained fragment
 - c. The Auto-triage indicates the veteran possibly has a retained fragment as a result of injuries sustained while serving in the area of conflict.
2. The system triages new referrals that show the veteran likely does not have a retained fragment as a result of injuries sustained while serving in the area of conflict as ineligible, with an ineligibility reason of "Likely does not have fragment."
3. The system triages new referrals that have the Unable to Screen health factor (for any reason) as Ineligible only where there are no health factors present from the second clinical reminder. For these scenarios, the Auto-triage generates the ineligibility reason as the name of the health factor as it appears on the screen (i.e., Acute Illness, Severe Cognitive Impairment, or Refused Screening Tool).
4. The system triages duplicate referrals as ineligible with an ineligibility reason of "Duplicate."
5. The "Reviewed By" as reflected on the Referral screen and in the Referral export will indicate SYSTEM as the user for any referral triaged by this script.
6. The data validation rules applied on the referral screen for the VA Contact fields would not be applicable to this script; whatever data is sent from the source systems will be written to the database as received.

19.5. Administration > DoD Fragment Data

The Administration > DoD Fragment Data screen displays read-only information regarding the date of the last DoD extract.

The screenshot shows the 'Embedded Fragments Registry' interface. At the top, there is a header with the Department of Veterans Affairs logo and the text 'UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Embedded Fragments Registry'. Below the header is a navigation bar with tabs for 'Patients', 'My Tasks', 'Reporting', 'Administration', and 'Help'. A left sidebar contains a menu with options: 'Users', 'Role Matrix', 'Reference Ranges', 'Auto Triage', and 'DoD Fragment Data'. The main content area displays a table with the following data:

DoD Lab	Last Fragment Extract File Received Date
JPC	3/28/2012

Figure 144 – Administration > DoD Fragment Data Extract

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Part J. Appendixes

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Appendix A. Browsers and Web-Based Applications

A.1. Standard Web Browser Shortcut Keys

In the following table, two or more keys connected by a plus sign (+) indicate that the keys should be pressed at the same time. Keys connected by a comma (,) indicate that the keys should be pressed in succession. These keys can be used while running EFRA in a web browser.

Table 7 – Browser Shortcut Keys

Browser Option	Shortcut	IE	Firefox
Bookmark menu	< Ctrl > + < B >	✓	✓
Bookmark, new (for current page)	< Ctrl > + < D >	✓	✓
Browser window, new	< Ctrl > + < N >	✓	✓
Browser window, close	< Alt > + < F4 >	✓*	
Close browser window	< Alt > + < F4 >	✓*	
Exit browser	< Alt > + < F4 >	✓*	
Find [on the page displayed]	< Ctrl > + < F >	✓	✓
Help	< F1 >	✓	✓
Location in history, go to next	< Alt > + < → >	✓	✓
	< Space >	✓	
Location in history, go to previous	< Alt > + < ← >	✓	✓
	< Backspace >	✓	✓
Location, open	< Ctrl > + < L >	✓	✓
Home page, go to	< Alt > + < Home >	✓	✓
New browser window	< Ctrl > + < N >	✓	✓
Open location	< Ctrl > + < L >	✓	✓
Print...	< Alt > , < F > , < P >	✓	✓
Select All [on the page displayed]	< Ctrl > + < A >	✓	✓
Tab, close	< Ctrl > + < W >	n/a*	✓
Tab, open new	< Ctrl > + < T >	n/a*	✓
Window management	< Alt > + < space > , < R > (restore)	✓	✓
	< Alt > + < space > , < M > (move)	✓	✓
	< Alt > + < space > , < S > (size)	✓	✓
	< Alt > + < space > , < N > (minimize)	✓	✓

Browser Option	Shortcut	IE	Firefox
	< Alt > + < space >, <X> (maximize)	✓	✓
	< Alt > + < space >, <C> (close)	✓	✓
* In versions prior to 8.0 (not currently authorized for VA use, and not tested with the application)			

A.2. Web Pages

In a web-based application, a “page” is the specific area on your computer screen used by a program. You might start on a launch page, for example, and use the menus available to you to move to another, more specific task-oriented page. If you have more than one browser window running at the same time, you can go from one window to another by clicking in each of those windows or by using < Alt >+< Tab >. You can also move, close, or minimize the application window to make room for another window (see [A.2.12. Changing \(Resizing\) a Browser Window](#) for further instructions on these functions).

Elements which may appear on web pages are shown in the following paragraphs.

A.2.1. Pop-up Windows

These are windows that pop up within (or on top of) a window to provide or request information. Ordinarily, they require some action before they will disappear. Clicking on buttons with the words [OK], [Cancel], [Exit], or something similar usually closes these windows. Sometimes, they can be dismissed by pressing the < Esc > key.

A.2.1. Text Box

SAMPLES:



Note how the appearance of the box changes: from a plain line border (**SAMPLE 1**) to an almost three-dimensional, pale yellow-highlighted field when you tab to it or click in it (**SAMPLE 2**).

Type your entry into the text box. The entry will not be saved until you tab away from or otherwise exit from the text box. In cases where the format of your entry is important, a sample will appear near the box. The relative width of these boxes is usually a reflection of the number of characters you are allowed to enter. Sometimes (as with date fields) there may also be a “date picker” next to the field; see [A.2.16. Pop-up Calendars](#) for details.

You should see a “tool tip” pop up when you hover your mouse pointer over the text box.

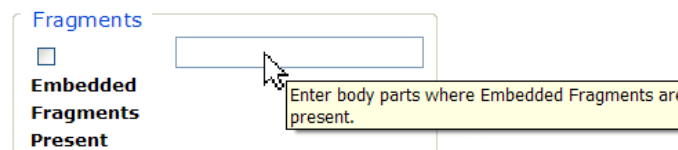


Figure 145 – Tool Tip for Text Box

A.2.3. Checkbox

SAMPLE: Work Related

A **checkbox** “toggles” (changes) between a YES / NO, ON / OFF setting. It is typically a square box which can contain a check mark or an “X” and is usually accompanied by text.

Clicking the box or tabbing to the field and pressing the spacebar toggles the checkbox setting.

In some instances, checkboxes may be used to provide more than one choice; in such cases, more than one box can be selected. Sometimes, a pre-determined “default” entry will be made for you in a checkbox; you can change the default if needed.

A.2.4. Radio button

SAMPLE: Living Arrangement: Alone Family Friend Facility Other

- A **radio button**, also known as an **option button**, is a small, hollow circle adjacent to text. Radio buttons usually appear in sets, with each button representing a single choice; normally, only one button in the set may be selected at any one time. Clicking on the radio button places a solid dot in the circle, selecting the option. Clicking a selected radio button de-selects it, removing the dot. As one radio button is selected, others within the category switch off. For example, **Male** or **Female** may be offered as choices through two radio buttons, but you can only select one of the choices. Similarly, some questions require a “yes” or a “no” response: Yes No.

A.2.5. Command button

SAMPLES

A **command button** initiates an action. It is a rectangular “3-dimensional” shape with a label that specifies what action will be performed when the button is clicked. Common examples are shown at left. Command buttons that end with three dots indicate that selecting the command may evoke a subsidiary window.

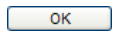
In the text of this document, **command button** names appear inside square brackets. *Examples:* **[Search]**, **[Save]**.

The **[Cancel]** command allows you to cancel the action about to be taken, or to discard changes made on a form. For example, when closing an application, you may be prompted to validate the action to close. If you click the **[Cancel]** button, the application will not close and you will resume from the point at which the close action was initiated. Or, on a data screen, you may use the **[Cancel]** button to discard any changes you may have made to the data and close the tab.

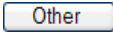
The **[Select]** command is used to select records for editing.

The **[Search]** command is used to find one or more records. When at least one character is typed in a lookup dialog box, clicking the **[Search]** button will bring up

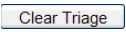
matching entries. In many cases, leaving the lookup box blank will find all such records. Enter the search string and click **[Search]**. Searches are case-insensitive and use “contains” logic.



The **[OK]** command is used to accept a default choice, or to agree with performing an action.



Other command buttons may be unique to a specific screen. For example, the **[Clear Triage]** button is used when editing a Referral record and you wish to “clear” (or undo) the triage decision just made. These buttons are described under the discussion of the individual screen(s) to which they apply.



A.2.6. Date fields

SAMPLE: Referral Date:

Date fields are identified by their labels, but otherwise look like an ordinary text field. They may have an associated popup calendar (see [A.2.16. Pop-up Calendars](#)). The month and day components of the date may consist of one or two digits and the year must consist of four digits (*e.g.*, 7/27/07 or 7/27/2007). You may use either slashes (/) or dashes (-) to separate the month, day and year. The selected entry will not be effective until you tab away from or otherwise exit the date field; at that point, the year will be reformatted, if necessary, to four digits; likewise, if you use dashes as separators, they will be converted to slashes.

A.2.7. Drop-Down List

SAMPLE 1: Facility Name:

SAMPLE 2:

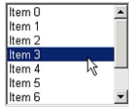
Facility Name:

A drop-down list (sometimes called a “pull-down” list) is displayed as a box with an arrow button on the right side (**SAMPLE 1**). Such a list allows you to select one item from the list. The current choice (or a prompt) is visible in a small rectangle; when you click on the arrow, a list of items is revealed (**SAMPLE 2**). Click on one of the entries to make it your choice; the list disappears.

To select multiple items from a drop-down list, first pick one item or a value from the drop-down list and click the **[Add]** button. To add an additional item from the drop-down list, choose that item from the drop-down and again click **[Add]**.

Imaging Methodology	Test Date (optional)	
Fundus Photography	9/1/2009	Delete
Corneal topography	8/1/2009	Delete
Keratometers	8/15/2009	Delete
-- Select a Value --	(mm/dd/yyyy)	Add

A.2.7. List Box



SAMPLE:

The list box shows a list of items. If more items exist than can be seen in the box, a scroll bar appears on the side of the box. Click the desired entry to select it from the list.

A.2.8. Faded (“Grayed Out”) Choices

As a web-based application, EFRA does not use grayed-out choices. If a choice is unavailable, it will simply not appear on screen, or (if it is a link) will not respond to clicking.

A.2.9. Keyboard Commands



Keyboard keys and onscreen buttons are shown in different style brackets throughout this manual to differentiate them from on-screen buttons or menu options: < **Ctrl** > and < **Enter** > are on the keyboard, [**Close**] is a command button on the screen.

RESOURCE See [Appendix B](#) for a complete listing of keyboard shortcuts.

A.2.10. Read-Only Data Fields

Items in fields that appear as shown below are read-only; that is, they cannot be entered or changed directly via the screen on which they appear. In this manual, when such screens are shown, they are usually accompanied by an “**INCLUDES:**” list of fields; on those lists, read-only fields are shown in a 50% gray, italicized typeface:

INCLUDES:

- *Encounter Information*
- *Provider Information*
 - *Name*
 - *Address*
 - *Phone*
 - *Other*



Generally speaking, the read-only data thus shown is pre-populated by data feeds from various sources.

A.2.11. Tab Key

Use the **< Tab >** key or the mouse to move between fields. Do *not* use the **< Enter >** or **< Return >** key, which is usually reserved for the default command button or action.



Tip: In most cases, you may move “backward” to a previous field by holding down the **< Shift >** key and pressing **< Tab >**.

A.2.12. Changing (Resizing) a Browser Window

Windows and columns displayed within EFRA cannot be resized, although the size of the browser window can be changed. To change the size of a browser window, position the mouse pointer over the right edge of the column or the outside edge of the window, left click, and while holding the mouse button down, move the mouse and “drag” to change the size of the window or column. Position the mouse pointer over one corner and drag diagonally to increase the size of the entire window.



Note: Also see **Resizing the Browser Screen** for tips on how to maximize or minimize browser windows using the keyboard.

A.2.13. Online Help

SAMPLE: 

Provides generalized help on the application, or specialized help for the area in which you are currently working. See [Online Help](#) for more information.

A.2.14. OK button

SAMPLE: 

Confirms the input and initiates the action defined by the window. Also indicates that you agree with the default choice shown in the window.

A.2.15. Save button

SAMPLE: 

Saves all changes made since the last save action. If you attempt to save and all required fields have not yet been completed, you will receive notification that the required fields must be completed before saving.

A.2.16. Pop-up Calendars

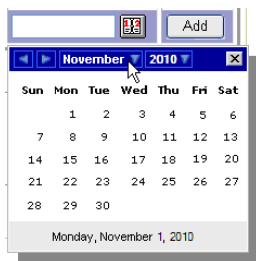


Note: This function will be included in a future increment.

SAMPLE: 

Pop-up calendars are used throughout EFRA. Click the calendar icon  next to the entry box to open the “date picker.”

Example:

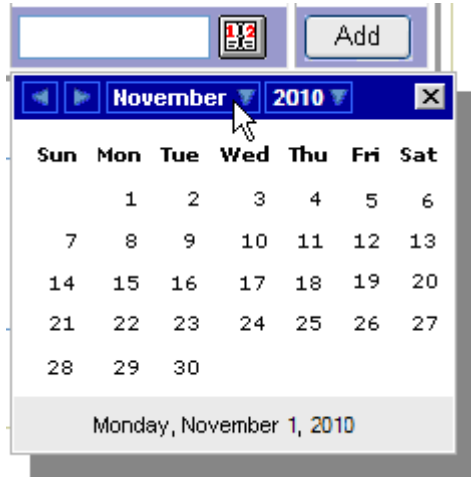


You can select or change the date displayed on the calendar using the methods described in the following table.

To Select/Change	Do this:
...	

To Select/Change ...	Do this:
----------------------	----------

Month To change the month, click on the down arrow [▼] next to the month at the top of the calendar.



Day Click the actual day of the week on the calendar. Or, use the left and right arrows to move through the days of the month.

Year Click on the down arrow next to the year.

A.2.16. System Timeout



Note: This function will be included in a future increment.

A timeout function is automatically enforced in EFRA. When you open the application, your activity is programmatically monitored. If there is no activity for 20 minutes, the application will begin to shut itself down.

The “Application Time Out” message window displays for 30 seconds. If there is still no activity within 30 seconds, the application automatically closes; a countdown of seconds remaining is displayed.

A.2.17. Activating Drop-Down Lists

You can activate drop-down lists from the keyboard. Simply tab to the drop-down list field and press the up < ↑ > or down arrow key < ↓ >.

A.2.18. Navigating the Date Picker Calendar Pop-ups

Using the date selection pop-up calendars (known as “date pickers”) may be somewhat problematic for those using screen readers such as [JAWS](#). The pop-up date picker calendar is essentially a graphic, rather than text, feature that is designed to be navigated using the mouse. There are no keyboard equivalents in this application. You can, however, simply type a properly-formatted date into the text box.

A.2.19. Using the < Ctrl >, < Alt > and < Esc > Keys


Some of the current features of the EFRA navigation may not be intuitive if you are using assistive technology (for example, a screen reader like [JAWS](#)). Remember that the following statements apply to the browser, not to EFRA.

In many situations, pressing < **Ctrl** > + a letter that represents the function will perform a function (for example, < **Ctrl** >+< **P** > activates the browser Print menu).

< **Alt** >+< **F4** > closes the browser (and also closes EFRA).

< **Esc** > often may be used to close dialog boxes and pop-ups.

A.2.20. Resizing the Browser Screen

Instead of clicking the browser’s Maximize  button, you can press < **Alt** >+< **space** > and then select Maximize by pressing < **x** >. If you wish to minimize the screen, you may press < **Alt** >+< **space** > and then select Minimize by pressing < **n** >.

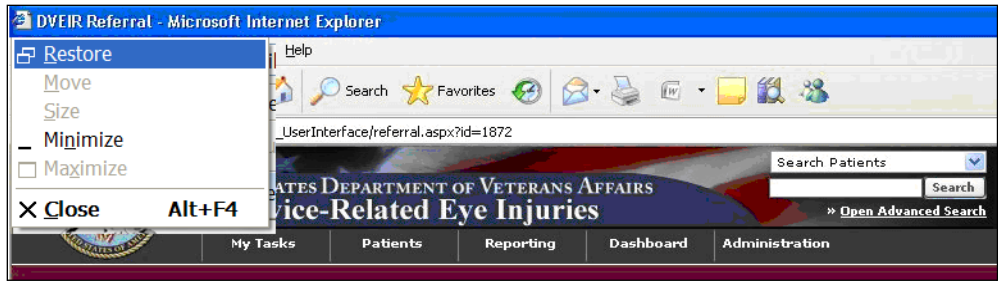


Figure 146 – Resizing the Browser Screen

You can also resize your browser window to match the resolution of your monitor. For example, to resize the window to 1024 x 768 pixels, enter the following into the browser address box and press < Enter >: `javascript:window.resizeTo(1024,768);` (yes, include the semicolon at the end). This works both in Internet Explorer (shown below) and in Firefox, although with slightly different results. *Source:* <http://www.petefreitag.com/item/633.cfm>

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Appendix B. Windows Accessibility Features

The Windows operating system offers a number of accessibility shortcuts which can be useful. These are “toggled” options, meaning that you perform the specified action once to turn the option on, and then again to turn it off.



Warning: Using some of these options will dramatically change the way your computer keyboard functions. If all else fails, reboot your computer to clear any such selections.

Each option will produce a popup confirmation window like those pictured below. Each of these confirmation pop-ups has the same three choice buttons, in this order left to right: **[OK]**, **[Cancel]**, and **[Settings]**. **[OK]** is always the default choice.

B.1. StickyKeys

StickyKeys lets you use the < **Shift** >, < **Ctrl** > or < **Alt** > keys by pressing one key at a time, rather than having to press these keys in conjunction with another key.

Press < **Shift** > five times to toggle StickyKeys on and off:

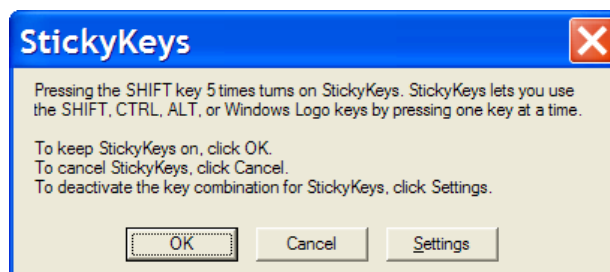


Figure 147 – Turning on StickyKeys

B.2. FilterKeys

FilterKeys causes Windows to ignore brief or repeated keystrokes and slows down the keyboard repeat rate.

Press down and hold the right-hand < **Shift** > key for eight seconds to toggle FilterKeys on and off:

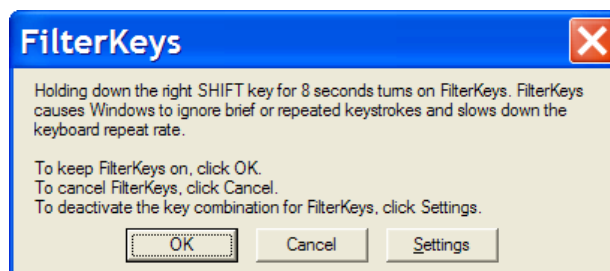


Figure 148 – Turning On FilterKeys

B.3. ToggleKeys

ToggleKeys causes a tone to sound when you press the < **Caps Lock** >, < **Num Lock** >, or < **Scroll Lock** > keys.

Press down and hold the < **Num Lock** > key for five seconds to turn ToggleKeys on and off:

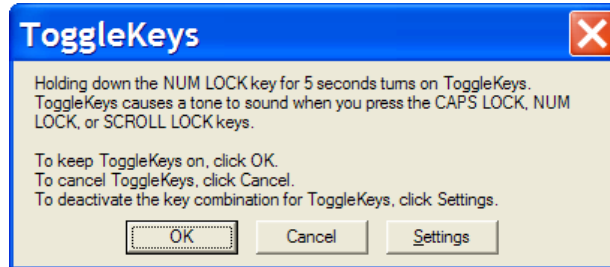


Figure 149 – Turning On ToggleKeys

B.4. MouseKeys

MouseKeys lets you control the mouse pointer by using the numeric keypad on your keyboard.

Press the left-hand < **Alt** > key plus the left-hand < **Shift** > key plus the < **Num Lock** > key to toggle MouseKeys on and off:

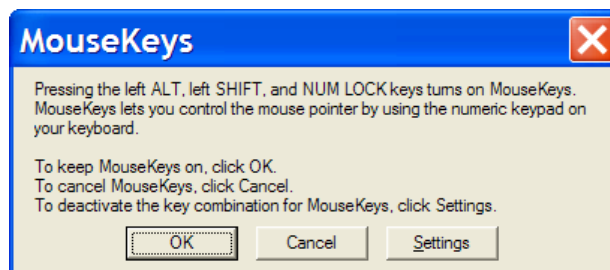


Figure 150 – Turning On MouseKeys

B.5. HighContrast

HighContrast improves readability for people with visual impairments by applying a special system color scheme and font size.

Press the left-hand < **Shift** > key plus the left-hand < **Alt** > key plus the < **Print Screen** > key to toggle HighContrast on and off:

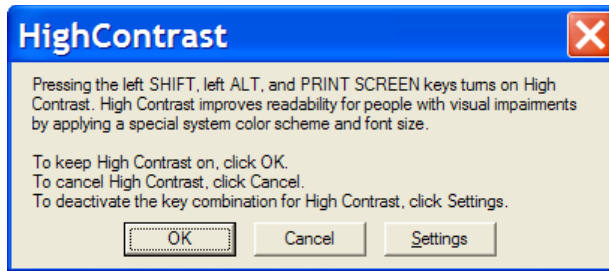


Figure 151 – Turning on HighContrast

Appendix C. Status Indicators

The following table shows the possible status indicators for various kinds of EFRA records.

Record Type	Possible Status Indicators	Comments
Referral	New	
	Accepted	
	In Process	
	Completed	
	Ineligible	
Lab Kits	New	
	Ordered	
	Received	
	Canceled	
Questionnaires	New	
	In Process	
	Completed	
Lab Orders	New	
	In Process	
	Completed	
	Voided	
	Closed	
Lab Results	New	
	In Process	
	Accepted	
Interpretation & Diagnosis	New	
	In Process	
	Interpreted	
Contact Logs	All Contacts	

Appendix D. Standard Web Browser Shortcut Keys

In the following table, two or more keys connected by a comma (,) indicate that the keys should be pressed in succession. Keys connected by a plus sign (+) indicate that the keys should be pressed at the same time. These keys can be used while running EFRA in a web browser.

Browser Option	Shortcut	IE	Firefox
Bookmark (menu)	< Ctrl > + < B >	✓	✓
Bookmark, add for current location	< Ctrl > + < D >	✓	✓
Browser window, new	< Ctrl > + < N >	✓	✓
Browser window, close	< Alt > + < F4 >	✓*	
Close browser window	< Alt > + < F4 >	✓*	
Exit browser	< Alt > + < F4 >	✓*	
Find [on the page displayed]	< Ctrl > + < F >	✓	✓
Help	< F1 >	✓	✓
Location in history, go to next	< Alt > + < → >	✓	✓
	< Space >	✓	
Location in history, go to previous	< Alt > + < ← >	✓	✓
	< Backspace >	✓	✓
Location, open	< Ctrl > + < L >	✓	✓
Home page, go to	< Alt > + < Home >	✓	✓
New browser window	< Ctrl > + < N >	✓	✓
Open location	< Ctrl > + < L >	✓	✓
Print...	< Alt > , < F > , < P >	✓	✓
Select All [on the page displayed]	< Ctrl > + < A >	✓	✓
Tab, close	< Ctrl > + < W >	n/a*	✓
Tab, open new	< Ctrl > + < T >	n/a*	✓
Window management	< Alt > + < space > , < R > (restore)	✓	✓
	< Alt > + < space > , < M > (move)	✓	✓
	< Alt > + < space > , < S > (size)	✓	✓
	< Alt > + < space > , < N > (minimize)	✓	✓
	< Alt > + < space > , < X > (maximize)	✓	✓
	< Alt > + < space > , < C > (close)	✓	✓
* In versions prior to 8.0 (not currently authorized for VA use, and not tested with the application)			

Appendix E. VA Approved Internet Browsers

The following VA-approved browsers have been tested for use with EFRA and are believed to be fully functional. If you encounter unusual problems, please submit a Remedy report and/or consult with your local IRM.

Browser	Version(s)	Remarks
Microsoft® Internet Explorer	6.0 or later	Does not support tabbed browsing
Mozilla® Firefox	3.x	Supports tabbed browsing

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Appendix F. List of EFR Health Factors

Table 8 – EFR Health Factors

Health Factor	Category	Comment field?
EF-BLAST SOURCE OTHER	EMBEDDED FRAGMENTS	yes
EF-BLAST SOURCE UNKNOWN	EMBEDDED FRAGMENTS	
EF-BLAST/EXPLOSION INJURY	EMBEDDED FRAGMENTS	
EF-BULLET INJURY	EMBEDDED FRAGMENTS	
EF-CONTACT EMAIL	EMBEDDED FRAGMENTS	yes - optional
EF-CONTACT NAME	EMBEDDED FRAGMENTS	yes
EF-CONTACT PHONE NUMBER	EMBEDDED FRAGMENTS	yes
EF-ENEMY FIRE	EMBEDDED FRAGMENTS	
EF-FRAGMENTS IN BODY	EMBEDDED FRAGMENTS	
EF-FRAGMENTS NOT REMOVED IN SURGERY	EMBEDDED FRAGMENTS	
EF-FRAGMENTS NOT SENT TO LAB	EMBEDDED FRAGMENTS	
EF-FRAGMENTS ON RADIOGRAPH	EMBEDDED FRAGMENTS	
EF-FRAGMENTS REMOVED IN SURGERY	EMBEDDED FRAGMENTS	
EF-FRAGMENTS SENT TO LAB	EMBEDDED FRAGMENTS	
EF-FRIENDLY FIRE	EMBEDDED FRAGMENTS	
EF-GRENADE	EMBEDDED FRAGMENTS	
EF-IED	EMBEDDED FRAGMENTS	
EF-IN VEHICLE	EMBEDDED FRAGMENTS	
EF-LAND MINE	EMBEDDED FRAGMENTS	
EF-NO BLAST/EXPLOSION INJURY	EMBEDDED FRAGMENTS	
EF-NO BULLET INJURY	EMBEDDED FRAGMENTS	
EF-NO FRAGMENTS IN BODY	EMBEDDED FRAGMENTS	
EF-NO FRAGMENTS ON RADIOGRAPH	EMBEDDED FRAGMENTS	
EF-NOT IN VEHICLE	EMBEDDED FRAGMENTS	
EF-REFUSED SCREENING TOOL	EMBEDDED FRAGMENTS	
EF-RPG	EMBEDDED FRAGMENTS	
EF-UNKNOWN IF FRAGMENTS IN BODY	EMBEDDED FRAGMENTS	
EF-UNKNOWN IF FRAGMENTS ON RADIOGRAPH	EMBEDDED FRAGMENTS	
EF-UNKNOWN IF REMOVED IN SURGERY	EMBEDDED FRAGMENTS	
EF-UNKNOWN IF SENT TO LAB	EMBEDDED FRAGMENTS	
SEVERE CHRONIC COGNITIVE IMPAIRMENT	MENTAL HEALTH	yes
UNABLE TO SCREEN - ACUTE ILLNESS	MENTAL HEALTH	yes
EMBEDDED FRAGMENTS PRESENT	IRAQ/AFGHANISTAN	yes - optional
NO EMBEDDED FRAGMENTS	IRAQ/AFGHANISTAN	

Sample CPRS Screen Shots

The following screen shots illustrate the questionnaire filled out in [CPRS](#).

Reminder Resolution: Evaluation of Embedded Fragments

Who: Patients with or suspected to have embedded fragments from blast or bullet injuries

What: Documentation of type of injury and prior evaluation

Why: Need long term follow-up of Veterans for risks posed from toxic metals or chemical contamination

Detailed information on Embedded Fragments (click here)

Were you injured by a bullet?

No - no injury from a bullet

Yes - bullet injury

Unable to Perform Risk Evaluation for Embedded Fragments

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

<No encounter information entered>

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Who: Patients with or suspected to have embedded fragments from blast or bullet injuries
 What: Documentation of type of injury and prior evaluation
 Why: Need long term follow-up of Veterans for risks posed from toxic metals or chemical contamination

Detailed information on Embedded Fragments (click here)

Completion of the Iraq & Afghan Post-Deployment Screen indicates that this patient has or may have a retained fragment/shrapnel as a result of traumatic wounds received while serving in the area of conflict. This is of concern because of the risk of wound contamination and/or prolonged systemic exposure to potentially toxic metals or chemicals released from plastics and composite materials found in Improvised Explosive Devices (the signature wound in Iraq and increasingly in Afghanistan). The following questions will further define the risk to this patient and help to determine if further follow-up is recommended.

Were you injured by a bullet?

No - no injury from a bullet

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

<No encounter information entered>

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Who: Patients with or suspected to have embedded fragments from blast or bullet injuries
 What: Documentation of type of injury and prior evaluation
 Why: Need long term follow-up of Veterans for risks posed from toxic metals or chemical contamination

Detailed information on Embedded Fragments (click here)

Were you injured by a bullet?

No - no injury from a bullet

Were you injured as a result of a blast or explosion?

No - no injury from blast or explosion

SCREENING TOOL COMPLETE

 This screening tool indicates that the veteran likely does not have a retained fragment as a result of injuries sustained while serving in the area of conflict. If you have questions please contact the VA Toxic Embedded Fragment Surveillance Center located at the Baltimore VA Medical Center at 1-800-815-7533.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

Clinical Reminders:
 Health Factors: EF-NO BLAST/EXPLOSION INJURY, EF-NO BULLET INJURY

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Were you injured by a bullet?
 No - no injury from a bullet

Were you injured as a result of a blast or explosion?
 No - no injury from blast or explosion
 Yes - injury from blast or explosion

Were you in or on a vehicle at the time of the blast or explosion?
 No
 Yes

Was the blast or explosion caused by
 Improvised Explosive Device (IED)
 Rocket Propelled Grenade (RPC)
 Land Mine
 Grenade
 Enemy Fire
 Friendly Fire

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

Clinical Reminders:
Evaluation of Embedded Fragments:
 The patient was not injured by a bullet.
 The patient indicates an injury due to a blast or an explosion.
 Were you in or on a vehicle at the time of the blast or explosion?

Health Factors: EF-BLAST/EXPLOSION INJURY, EF-IED, EF-NO BULLET INJURY

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Rocket Propelled Grenade (RPG)
 Land Mine
 Grenade
 Enemy Fire
 Friendly Fire
 Unknown
 Other

Did you have shrapnel, fragments or bullets removed during surgery?

No

Do you have retained fragments or shrapnel in your body?

No
 Unknown
 Yes

Unknown
 Yes

Clinical Reminders:

Evaluation of Embedded Fragments:
 The patient was not injured by a bullet.
 The patient indicates an injury due to a blast or an explosion.
 Were you in or on a vehicle at the time of the blast or explosion?

Health Factors: EF-BLAST/EXPLOSION INJURY, EF-FRAGMENTS NOT REMOVED IN SURGERY, EF-IED, EF-NO BULLET INJURY

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

No

SCREENING TOOL COMPLETE

This screening tool indicates that the veteran possibly has a retained fragment as a result of injuries sustained while serving in the area of conflict. This veteran will be added to the VA Embedded Fragment Registry. If you have questions please contact the VA Toxic Embedded Fragment Surveillance Center located at the Baltimore VA Medical Center at 1-800-815-7533

POINT OF CONTACT INFORMATION:
Please provide contact information for the veteran's primary healthcare provider or enter contact information for the VA medical center staff member deemed appropriate by your VA facility.

Contact
Name: *

Contact
Phone #: *

Contact

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

Clinical Reminders:
Evaluation of Embedded Fragments:
The patient was not injured by a bullet.
The patient indicates an injury due to a blast or an explosion.
How was he or she injured at the time of the blast or explosion?

Health Factors: EF-BLAST/EXPLOSION INJURY, EF-CONTACT EMAIL, EF-CONTACT NAME, EF-CONTACT PHONE NUMBER, EF-FRAGMENTS NOT REMOVED IN SURGERY, EF-NO BULLET INJURY, EF-NO FRAGMENTS IN BODY

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Did you have shrapnel, fragments or bullets removed during surgery?

No

Do you have retained fragments or shrapnel in your body?

No

Unknown

Yes

Have retained fragments been documented by radiograph?

No

Unknown

SCREENING TOOL COMPLETE

 This screening tool indicates that the patient has a high likelihood of having a retained fragment. The veteran may benefit from specialized medical surveillance for exposure to toxic materials and will be added to the VA Embedded Fragment Registry. The VA Toxic Embedded Fragment Surveillance Center (TEFSC) will contact the healthcare provider or point of contact designated by your VA facility. The TEFSC is located at the Baltimore VA Medical Center and can be contacted for additional information at 1-800-815-7533.

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

Clinical Reminders:
 Evaluation of Embedded Fragments

Health Factors: EF-BLAST/EXPLOSION INJURY, EF-CONTACT INFORMATION, EF-ENEMY FIRE, EF-FRAGMENTS IN BODY, EF-FRAGMENTS NOT REMOVED IN SURGERY, EF-IN VEHICLE, EF-LAND MINE, EF-NO BULLET INJURY, EF-UNKNOWN IF FRAGMENTS ON RADIOGRAPH

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Have retained fragments been documented by radiograph?

No
 Unknown
 Yes

SCREENING COMPLETE

 This screening tool indicates that the patient has had a fragment removed at surgery or has a documented retained fragment. The veteran may benefit from specialized medical surveillance for exposure to toxic materials and will be added to the VA Embedded Fragment Registry. The VA Toxic Embedded Fragment Surveillance Center (TEFSC) will contact the healthcare provider or point of contact designated by your VA facility. The TEFSC is located at the Baltimore VA Medical Center and can be contacted for additional information at 1-800-815-7533.

POINT OF CONTACT INFORMATION: Please provide contact information for the veteran's primary healthcare provider. If the veteran does not have a primary healthcare provider, enter contact information for the VA medical center staff member deemed appropriate by your VA facility.

Name, Telephone number, Email address of VA Contact:

Clinical Reminders:

Health Factors: EF-BLAST/EXPLOSION INJURY, EF-CONTACT INFORMATION, EF-ENEMY FIRE, EF-FRAGMENTS IN BODY, EF-FRAGMENTS NOT REMOVED IN SURGERY, EF-FRAGMENTS ON RADIOGRAPH, EF-IN VEHICLE, EF-LAND MINE, EF-NO BULLET INJURY

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Do you have retained fragments or shrapnel in your body?

No
 Unknown

SCREENING TOOL COMPLETE

 This screening tool indicates that the veteran possibly has a retained fragment as a result of injuries sustained while serving in the area of conflict. This veteran will be added to the VA Embedded Fragment Registry. If you have questions please contact the VA Toxic Embedded Fragment Surveillance Center located at the Baltimore VA Medical Center at 1-800-815-7533
 . *****

POINT OF CONTACT INFORMATION:
 Please provide contact information for the veteran's primary healthcare provider or enter contact information for the VA medical center staff member deemed appropriate by your VA facility.

Contact
 Name: *
 Contact
 Phone #: *
 Contact
 Email:

Clinical Reminders:
 Health Factors: EF-BLAST/EXPLOSION INJURY, EF-CONTACT EMAIL, EF-CONTACT NAME, EF-CONTACT PHONE NUMBER, EF-NO BULLET INJURY, EF-UNKNOWN IF FRAGMENTS IN BODY, EF-UNKNOWN IF REMOVED IN SURGERY

* Indicates a Required Field

Reminder Resolution: Evaluation of Embedded Fragments

Who: Patients with or suspected to have embedded fragments from blast or bullet injuries

What: Documentation of type of injury and prior evaluation

Why: Need long term follow-up of Veterans for risks posed from toxic metals or chemical contamination

Detailed information on Embedded Fragments (click here)

Were you injured by a bullet?

No - no injury from a bullet

Yes - bullet injury

Unable to Perform Risk Evaluation for Embedded Fragments

Due to Acute Illness


Due to Chronic, Severe Cognitive Impairment

Refused to answer questions about embedded fragments

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

<No encounter information entered>

* Indicates a Required Field

 ✕

Do you have or suspect that you have retained fragments or shrapnel as a result of injuries you received while serving in the area of conflict? (For example, were you injured as a result of small arms fire or a blast or explosion caused by an IED, RPG, landmine, enemy or friendly fire?)

No

Yes

Clear Clinical Maint Visit Info < Back Next > Finish Cancel

<No encounter information entered>

* Indicates a Required Field

Reminder Resolution: Screen for Embedded Fragments

Do you have or suspect that you have retained fragments or shrapnel as a result of injuries you received while serving in the area of conflict? (For example, were you injured as a result of small arms fire or a blast or explosion caused by an IED, RPG, landmine, enemy or friendly fire?)

No
 Yes

Were you injured by a bullet?

No - no injury from a bullet
 Yes - bullet injury

Clinical Reminders:

Screen for Embedded Fragments:
SCREEN FOR EMBEDDED FRAGMENTS
The patient reports having or possibly having retained embedded fragments

Health Factors: **EMBEDDED FRAGMENTS PRESENT**

* Indicates a Required Field

Glossary

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
0-9												

Control-click character to see entries; grayed-out character means no entries for that character.

Term or Acronym	Description
0 - 9	
508	See Section 508
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Term or Acronym	Description
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Term or Acronym	Description
A	
Alliance, The	See National Alliance for Health Information Technology
< Alt >+< Tab >	This keystroke combination used for switching between top-level windows without using the mouse; hence it was named <i>Task Switcher</i> . Casual users may press < Alt >+< Tab > to alternate between the two most recent tasks, but used to its full potential, < Alt >+< Tab > can switch to any running program. The list of tasks is kept in an order with the most recently used tasks at the front. Tab does not need to be pressed as many times to move the task selection cursor from the front of the list to a nearer task—the more recently used, the easier to get back.
AAC	See Corporate Data Center Operations .
ACoS CoC	See American College of Surgeons Commission on Cancer
Acquired Immune Deficiency Syndrome (AIDS)	Disease of the immune system characterized by increased susceptibility to opportunistic infections, to certain cancers, and to neurological disorders. Caused by a retrovirus and transmitted chiefly through blood or blood products that enter the body's bloodstream, especially by sexual contact or contaminated hypodermic needles. AIDS is a disease of the human immune system caused by the human immunodeficiency virus (HIV). This condition progressively reduces the effectiveness of the immune system and leaves individuals susceptible to opportunistic infections and tumors.
Active Directory (AD)	AD is a technology created by Microsoft that provides a variety of network services, including user authentication. For EFRA, AD essentially keeps track of who the users are and what EFRA functions they are authorized to perform.
Active Dual Consumer	A beneficiary who has received or can potentially receive health care from the Department of Defense (DoD) and/or Department of Veterans Affairs (VA) . An ADC beneficiary can be considered as Dual Eligible or Dual User , or both.
ADC	See Active Dual Consumer
ADPAC	See Automated Data Processing Application Coordinator .
AFIP	See Armed Forces Institute of Pathology
AHIMA	See American Health Information Management Association
AHLTA	See Armed Forces Health Longitudinal Technology Application
AIDS	See Acquired Immune Deficiency Syndrome
AITC	See Austin Information Technology Center
AJCC	See American Joint Commission on Cancer
Aliquot	Contained an exact number of times in something else —used of a divisor or part. Fractional. Chemistry, Pharmacology. comprising a known fraction of a whole and constituting a sample: an aliquot quantity of acid for analysis. As a noun: <i>an aliquot part</i> .
American College of Surgeons Commission on Cancer (ACoS CoC)	A consortium of professional organizations dedicated to improving survival and quality of life for cancer patients through standard-setting, prevention, research, education, and the monitoring of comprehensive quality care.
American Health Information Management Association (AHIMA)	Professional group which strives to improve healthcare by advancing best practices and standards for health information management. Considered a trusted source for education, research, and professional credentialing.
American Joint Commission on Cancer (AJCC)	Organization established in 1959 to formulate and publish systems of classification of cancer, including staging and end results reporting.
Analyte	A chemical substance that is the subject of chemical analysis.
Armed Forces Health Longitudinal Technology Application (AHLTA)	AHLTA, the military's electronic health record (EHR), marks a significant new era in healthcare for the Military Health System (MHS) and the nation. In his January 2004 State of the Union address, the President set the goal of ensuring

Term or Acronym	Description
	<p>most Americans had an EHR by 2014. The Department of Defense is leading this effort by completing the implementation of AHLTA, the interoperable, globally-accessible, protected, and always available EHR for Uniformed Services members, retirees and their families by 2011. AHLTA gives healthcare providers access to data about beneficiaries' conditions, prescriptions, diagnostic tests and additional information essential to providing quality care.</p> <p><i>Source:</i> http://www.ahlta.us/about.php</p>
<p>Armed Forces Institute of Pathology (AFIP)</p>	<p>Provides diagnostic consultations on pathologic specimens from military, Veterans, and civilian medical, dental and veterinary sources. Conducts scientific research in fields such as environmental pathology and toxicology, infectious diseases, oncology and forensic science.</p>
<p>Austin Automation Center (AAC)</p>	<p>See Corporate Data Center Operations</p>
<p>Austin Information Technology Center (AITC)</p>	<p>AITC is a recognized, award-winning Federal data center within the Department of Veterans Affairs (VA). It provides a full complement of cost-efficient e-government solutions to support the information technology (IT) needs of customers within the Federal sector. AITC has also implemented a program of enterprise “best practice” initiatives with major vendor partners that ensures customers receive enhanced, value-added IT services through the implementation of new technologies at competitive costs.</p>
<p>Automated Data Processing Application Coordinator (ADPAC)</p>	<p>The ADPAC is the person responsible for planning and implementing new work methods and technology for employees throughout a medical center. ADPACs train employees and assist users when they run into difficulties, and needs to know how all components of the system work. ADPACs maintain open communication with their supervisors and Service Chiefs, as well as their counterparts in Fiscal and Acquisitions and Materiel Management (A&MM), or Information Resource Management (IRM).</p>

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Term or Acronym	Description
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Term or Acronym	Description
B	
back-end	Any software or system which performs either the final stage in a process, or a task not apparent to the user.
Baltimore Veterans Affairs Medical Center (BVAMC)	The BVAMC is home to the Toxic Embedded Fragment Surveillance Center (TEFSC)
browser	A program which allows a person to read hypertext . The browser provides some means of viewing the contents of nodes (or "pages") and of navigating from one node to another. A browser is required in order to access the EFRA software application. Microsoft® Internet Explorer and Firefox are examples for browsers for the World-Wide Web. They act as clients to remote web servers.
BVAMC	See Baltimore Veterans Affairs Medical Center
Biomonitoring (or Biological Monitoring)	Process of assessing and measuring clinical response to toxins introduced into the body as a result of embedded fragment trauma. Specimens are collected and sent to a laboratory to establish baseline levels of analytes. The process of collection and analysis is then repeated periodically to develop a longitudinal assessment for diagnosis, corrective treatment and prognosis.
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Term or Acronym	Description
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Term or Acronym	Description
C	
CAC	Clinical Application Coordinator
Case	The collection of information maintained on patients that have been included in a registry.
Case Finding	Those activities associated with the identification of patients for potential inclusion in a registry.
Case Tracking	Those activities associated with monitoring patients that have met the criteria for inclusion in a registry through the case finding process.
CCHIT	Certification Commission of Health Information Technology
CCR	Clinical Case Registry
CDC	See Centers for Disease Control and Prevention
CDC	Center for Disease Control
CDCO	See Corporate Data Center Operations
CDW	See Corporate Data Warehouse
Center for Quality Management in Public Health (CQM)	CQM, based in the VA Palo Alto Health Care System, functions as part of the VA Public Health Strategic Health Care Group at VA Central Office in Washington, DC. CQM was first established with a primary focus on HIV care; the mission expanded to include Hepatitis C issues in January 2001. In line with the mission of its organizational parent, the CQM mission further expanded to include work on various issues and conditions with public health significance, including operational support and management of data from the EFRA.
Centers for Disease Control and Prevention (CDC)	The CDC is one of the major operating components of the United States Department of Health and Human Services. It includes a number of Coordinating Centers and Offices which specialize in various aspects of public health, as well as the National Institute for Occupational Safety and Health (NIOSH). See http://www.cdc.gov/about/organization/cio.htm
Chain of Custody	Chain of custody refers to the chronological documentation, and/or "paper trail," showing the custody, control, transfer, analysis, and disposition of specimens, whether physical or electronic. A chain of custody form is used to document these events for biological monitoring and fragment analysis kit tracking in the EFR application.
CHPPM	See U.S. Army Public Health Command (Provisional) .
Clinical Application Coordinator	A clinically experienced person who guides and supports clinicians, IT experts, and others through design, adoption, tailoring, and use of clinical computing systems such as an electronic medical record. A CAC teaches, trains, supports and innovates.
Clinical Reminder	A clinical reminder is a software decision support tool that defines evaluation and resolution logic for a given clinical activity. The evaluation logic defines conditions in the database including the presence or absence of specified criteria such as diagnoses, procedures, health factors, medications, or demographic variables (e.g., age, gender). A reminder may or may not require provider resolution, depending on its purpose and design, through a user interface, also known as a reminder dialog. Also, in accordance with the underlying logic, reminders may be used to collect specified patient information that may or may not be related to the dialog.
Comma-Delimited Values (CDV)	See Comma-Separated Values
Comma-Separated Values (CSV)	"Separated" or "delimited" data files use specific characters (delimiters) to separate its values. Most database and spreadsheet programs are able to read or save data in a delimited format. The comma-separated values file format is a delimited data format that has fields separated by the comma character and records separated by newlines. Excel can import such a file and create a spreadsheet from it.
computable data	<i>Computable data</i> is a representation of data values in a form that can be machine-processed and reasoned upon. It is usually depicted in a code value from some formal terminology where semantic links are meaningful and support activities such as decision support. At the present, data available on eye injuries and treatment within the VA lack this computable data. Free text information (such as that in the

Term or Acronym	Description
	<p>TIU “eye notes”) is helpful and valuable to a caregiver, but does not allow the computer to provide the assistance that would be possible if a more structured representation were available. For instance, support functions such as allergy checking, automated reporting of measurements and test results, and so on each require computable data.</p>
Computerized Patient Record System (CPRS)	<p>A Computerized Patient Record (CPR) is a comprehensive database system used to store and access patients' healthcare information. CPRS is the Department of Veterans Affairs electronic health record software. The CPRS organizes and presents all relevant data on a patient in a way that directly supports clinical decision making. This data includes medical history and conditions, problems and diagnoses, diagnostic and therapeutic procedures and interventions. Both a graphic user interface version and a character-based interface version are available. CPRS provides a single interface for health care providers to review and update a patient's medical record, and to place orders, including medications, special procedures, x-rays, patient care nursing orders, diets, and laboratory tests. CPRS is flexible enough to be implemented in a wide variety of settings for a broad spectrum of health care workers, and provides a consistent, event-driven, Windows-style interface.</p>
context-sensitive help	<p>Online help is topic-oriented, procedural or reference information delivered through computer software. It is a form of user assistance. Most online help is designed to give assistance in the use of a software application or operating system, but can also be used to present information on a broad range of subjects.</p> <p>When a user presses the [F1] key while using the GUI application, the application automatically opens the online help file (which is distributed and installed alongside the application file itself).</p> <p>Context-sensitive help is a kind of online help that is obtained from a specific point in the state of the software, providing help for the situation that is associated with that state.</p> <p>Context-sensitive help, as opposed to general online help or online manuals, doesn't need to be accessible for reading as a whole. Each topic is supposed to describe extensively one state, situation, or feature of the software.</p> <p>Context-sensitive help can be implemented using tooltips, which either provide a terse Description of a GUI widget or display a complete topic from the help file. Other commonly used ways to access context-sensitive help start by clicking a button. One way uses a per widget button that displays the help immediately. Another way changes the mouse pointer shape to a question mark, and then, after the user clicks a widget, the help appears.</p> <p>Context-sensitive help is most used in, but is not limited to, GUI environments. Examples are Microsoft's WinHelp, Sun's JavaHelp or Panviva's SupportPoint.</p>
Corporate Data Center Operations (CDCO)	<p>Federal data center within the Department of Veterans Affairs (VA). As a franchise fund, or fee-for-service organization, CDCO-Austin provides cost-efficient IT enterprise solutions to support the information technology needs of customers within the Federal sector. <i>Formerly</i> the Austin Automation Center (AAC); <i>formerly</i> the Austin Information Technology Center (AITC).</p> <p>See http://www.aac.va.gov/index.php.</p>

Term or Acronym	Description
Corporate Data Warehouse (CDW)	<p>CDW is a national repository comprising data from several Veterans Health Administration (VHA) clinical and administrative systems. The CDW's objective is to provide data and tools to support management decision making, performance measurement and research objectives. Its premise is that incorporating data from multiple differing data sets throughout the VHA into one standard database structure will facilitate reporting and data analysis at the enterprise level. The CDW operates within the VA Office of Information & Technology's Field Operations Business Intelligence Service Line.</p> <p>CDW data are stored in a relational database. Multiple VA data sources are being merged so that cohorts will be definable by attributes such as ICD-9 codes and CPT codes from both inpatient and outpatient encounters or from abnormal values of vital signs like blood pressure, weight and height, within a target time period.</p> <p>These data are kept current by frequent updates with new data from the source data-bases so timely data are available for research. When the CDW database is updated, changed data values are written over, not maintained. These incremental updates are, however, flagged with a new "last update" date. In addition, if a data transmission indicates an encounter record has been deleted from the source database, it is instead flagged in the CDW as "deleted" (Delete Flag = Y) so that original demographic data can always be recovered.</p> <p><i>Source:</i> http://www.virec.research.va.gov/DataSourcesName/CDW/CDW.htm <i>See also:</i> Data warehouse</p>
CPRS	See Computerized Patient Record System
CPT	See Current Procedural Terminology
CPT-4	See Current Procedural Terminology
CQM	See Center for Quality Management in Public Health
Creatinine	<p>Used as a measurement of renal function as part of the biological monitoring process.</p> <p>A crystalline end product of creatine metabolism which occurs in urine, muscle, and blood. Creatinine levels in blood and urine may be used to calculate the creatinine clearance for further process to takes place, which would reflect the glomerular filtration rate (GFR). The GFR is clinically and vitally important because it is a measurement of renal function.</p>
CSV	See Comma-Separated Values
Current Procedural Terminology (CPT or CPT-4)	<p>CPT® is the most widely accepted medical nomenclature used to report medical procedures and services under public and private health insurance programs. CPT codes describe a procedure or service identified with a five-digit CPT code and descriptor nomenclature. The CPT code set accurately describes medical, surgical, and diagnostic services and is designed to communicate uniform information about medical services and procedures among physicians, coders, patients, accreditation organizations, and payers for administrative, financial, and analytical purposes. The current version is the CPT-4 (4th Edition), 2009.</p> <p><i>Note:</i> CPT® is a registered trademark of the American Medical Association.</p>
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Term or Acronym	Description
D	
Data Dictionary	A data structure that stores meta-data, <i>i.e.</i> , data about data. The term “data dictionary” has several uses; most generally it is thought of as a set of data Descriptions that can be shared by several applications. In practical terms, it usually means a table in a database that stores the names, field types, length, and other characteristics of the fields in the database tables.
Data Transfer Agreement (DTA)	Agreement between two or more VA departments, or between a VA department and an outside agency. DTAs cover transfers of data or information between agencies or departments in order to maintain appropriate administrative, technical and physical security safeguards to prevent unauthorized use and to protect the confidentiality of the data.
Data Warehouse	A system for storing, retrieving and managing large amounts of data. Data warehouse software often includes sophisticated compression and hashing techniques for fast searches, as well as advanced filtering. A data warehouse is often a relational database containing a recent snapshot of corporate data and optimized for searching. Planners and researchers can use this database without worrying about slowing down day-to-day operations of the production database. The latter can be optimized for transaction processing (inserts and updates).
Decentralized Hospital Computer Program (DHCP)	Obsolete term; VistA is the modern equivalent
Defense Health Information Management System (DHIMS)	System designed to provide a trusted, comprehensive health information management system that seamlessly captures, manages and shares health information from the Theater of Operations to the home front and beyond. This is, roughly, the DoD equivalent of CPRS .
Defense/Veterans Eye Injury Registry (DVEIR)	DVEIR helps identify and document treatment of all OEF/OIF service members with ocular injuries. Since eye injuries frequently result from fragments, there is a relationship between the two Registries... but not between the two applications.
Department of Defense (DoD)	A department of the U.S. federal government, charged with ensuring that the military capacity of the U.S. is adequate to safeguard the national security.
DHCP	Decentralized Hospital Computer Program (obsolete term; VistA is the modern equivalent)
DHIMS	See Defense Health Information Management System
DoD	See Department of Defense
DTA	See Data Transfer Agreement
Dual Consumer	A patient who is eligible for health care under DoD and VA health plans, or who has been assigned to a joint venture site and meets the requirements under a DoD/VA sharing agreement for coverage of specified clinical services.
Dual User	A patient who has received care at both a DoD facility and a VA facility. Dual users are a subset population of Active Dual Consumers.
DVEIR	See Defense/Veterans Eye Injury Registry

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Term or Acronym	Description
E	
EHR	See Electronic Health Record
Electronic Health Record (EHR)	An evolving concept, defined as a longitudinal collection of electronic health information about individual patients or populations. It is a record in digital format that can be shared across different health care settings, by being embedded in network-connected enterprise-wide information systems.

Term or Acronym	Description
Embedded Metal Fragments Registry (EMFR)	DoD system for tracking information relevant to injuries associated with embedded metal fragments.
Embedded Metal Fragments Registry (EMFR) data extract	<p>This extract includes the following read-only data:</p> <ul style="list-style-type: none"> • Social Security Number • Lab ID Number • Fragment ID Number (may be multiple IDs for each patient) • Date Fragment Received at Lab • Date of Fragment Producing Event • Lab Report Date • Fragment Description • Mass of Fragment • Units for Mass • Units for Fragment Measurements • Length of Fragment • Height of Fragment • Width of Fragment • Indication that Fragment is Radioactive • Results of Radioactivity Testing • Comments <p>For each Fragment ID Number:</p> <ul style="list-style-type: none"> • Analytical Method Code • Analytical Method Description • Other Analytical Method Description • Analyte Name • Analyte Results • Analyte Comments • Chemical Abstract Service (CAS) Number
Epidemiology	A branch of medical science that deals with the incidence, distribution and control of disease in a population.
ESM	Enterprise System Manager, Office of Enterprise Systems Management
ETL	See Extract, Transform and Load
EVIR	See Military Eye/Vision Injury Registry
Extensible Mark-up Language (XML)	An initiative from the W3C defining an “extremely simple” dialect of SGML suitable for use on the World-Wide Web.
Extract, Transform and Load (ETL)	ETL is a process in database usage and especially in data warehousing that involves extracting data from outside sources; transforming it to fit operational needs (which can include quality levels); and loading it into the end target (database or data warehouse).

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Term or Acronym	Description
F	
Federal Recovery Coordinator (FRC)	FRCs help severely injured combat Veterans and their families maneuver through military and Veterans' treatment and benefits programs. There are 14 Federal Recovery Coordinators responsible for fewer than 300 cases of the most severely injured combat Veterans who face complicated treatment and recovery plans.
FHP&R	See Office of Force Health Protection and Readiness
File Transfer Protocol (FTP)	A client-server protocol which allows a user on one computer to transfer files to and from another computer over a TCP/IP network. Also the client program the user executes to transfer files. It is defined in STD 9, RFC 959.
Firewall	A firewall is a part of a computer system or network that is designed to block unauthorized access while permitting authorized communications. It is a device or set of devices configured to permit, deny, encrypt, decrypt, or proxy all (in and out) computer traffic between different security domains based upon a set of rules and other criteria.
Fragment	Any piece of material that is or has been embedded in the body as a result of injury. Also known as shrapnel.
FRC	See Federal Recovery Coordinator
FTP	See File Transfer Protocol
Function key	A key on a computer or terminal keyboard which can be programmed so as to cause an operating system command interpreter or application program to perform certain actions. On some keyboards/computers, function keys may have default actions, accessible on power-on. For example, <F1> is traditionally the function key used to activate a help system.
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Term or Acronym	Description
G	
Global War On Terror (GWOT)	<i>Obsolete term; see Overseas Contingency Operation</i>
Graphical User Interface (GUI)	A graphical user interface (or GUI, often pronounced “gooey”) is a graphical (rather than purely textual) user interface to a computer. A GUI is a particular case of user interface for interacting with a computer which employs graphical images and widgets in addition to text to represent the information and actions available to the user. Usually the actions are performed through direct manipulation of the graphical elements. A GUI takes advantage of the computer's graphics capabilities to make the program easier to use. <i>Sources:</i> http://en.wikipedia.org/wiki/GUI http://www.webopedia.com/TERM/G/Graphical_User_Interface_GUI.html See also User Interface
GUI	See: Graphical User Interface
GWOT	Global War On Terror (<i>obsolete term; see Overseas Contingency Operation</i>).
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Term or Acronym	Description
H	
HTML	See Hypertext Mark-up Language
hypertext	A term coined around 1965 for a collection of documents (or "nodes") containing cross-references or "links" which, with the aid of an interactive browser program, allow the reader to move easily from one document to another.
Hypertext Mark-up Language (HTML)	A hypertext document format used on the World-Wide Web. HTML is built on top of SGML . "Tags" are embedded in the text. A tag consists of a "<", a "directive" (in lower case), zero or more parameters and a ">". Matched pairs of directives, like "<title>" and "</title>" are used to delimit text which is to appear in a special place or style.
Healthcare Analysis & Information Group (HAIG)	A field unit of Clinical Affairs and Information Management in Milwaukee, WI. Functions as a provider of information syntheses, analyses, report formatting, and dissemination of many types of information and tools in support of national policies, strategic planning and decision-making processes. HAIG develops corporate reports, proceedings, analyses, and disseminates information through the use of state-of-the-art technology including survey design, statistical analysis, customized publications, web design/management, and advanced computer applications.
HAIG	See Healthcare Analysis & Information Group
HAISS	See Healthcare Associated Infection and Influenza Surveillance System
Healthcare Associated Infection and Influenza Surveillance System (HAISS)	VHA is seeking to leverage its advanced electronic medical records to establish a comprehensive electronic surveillance system for monitoring healthcare-associated infections and antibiotic resistance trends, as well as influenza and other emerging infectious diseases or syndromes potentially associated with bioterrorist activity. This project is now being merged with the project known as Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) and will be managed separately from the Registries projects.
HDR	Health Data Repository
HDS	Health Data Systems
Health Factor	A health factor is a computerized component that captures patient information that for which no standard code exists, such as Family History of Alcohol Abuse, Lifetime Non-smoker, No Risk Factors for Hepatitis C, etc. See also, Clinical Reminders.
HIMSS	See Healthcare Information and Management Systems Society
Healthcare Information and Management Systems Society (HIMSS)	HIMSS is a healthcare-stakeholder membership organization exclusively focused on providing global leadership for the optimal use of information technology (IT) and management systems for the betterment of healthcare.
HIV	See Human Immunodeficiency Virus
Human Immunodeficiency Virus (HIV)	HIV is a lentivirus (a member of the retrovirus family) that can lead to acquired immunodeficiency syndrome (AIDS), a condition in humans in which the immune system begins to fail, leading to life-threatening opportunistic infections. HIV is different from most other viruses because it attacks the immune system. The immune system gives our bodies the ability to fight infections. HIV finds and destroys a type of white blood cell (T cells or CD4 cells) that the immune system must have to fight disease. See http://www.cdc.gov/hiv/topics/basic/index.htm .

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Term or Acronym	Description
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Term or Acronym	Description
I	
ICD-9	See International Statistical Classification of Diseases and Related Health Problems
ICN	See Integration Control Number
IDMC	See Information and Data Management Committee
Information and Data Management Committee (IDMC)	IDMC is the advisory group to the Under Secretary for Health through the National Leadership Board (NLB) on Information Technology (IT) issues. The IDMC membership is comprised of a cross section of Veterans Health Administration (VHA) leadership representing VHA health care programs and operations, and helps ensure IT investments support corporate goals. The IDMC works collaboratively with other committees and groups concerned with IT-related issues.
Information Resources Management (IRM)	The service which is involved in planning, budgeting, procurement and management-in-use of VA's information technology investments.
Information Technology (IT)	Refers to applied computer systems (both hardware and software), and often including networking and telecommunications, usually in the context of a business or other enterprise. Often the name of the part of an enterprise that deals with all things electronic.
Integration Control Number (ICN)	The national VA patient record number.
Interface	An interface defines the communication boundary between two entities, such as a piece of software, a hardware device, or a user.
Interim Solution	Temporary registry solution being developed by the VSSC; includes referral page, application for TEFSC, and a Structured Query Language (SQL) Database (DB). This interim solution is under consideration for delivery. The development of EFRA, as described in this document, envisions a more mature product to replace the interim solution.
International Statistical Classification of Diseases and Related Health Problems (ICD-9)	The <i>International Statistical Classification of Diseases and Related Health Problems</i> , Ninth Edition (commonly abbreviated as "ICD-9") provides numeric codes to classify diseases and a wide variety of signs, symptoms, abnormal findings, complaints, social circumstances and external causes of injury or disease. Every health condition can be assigned to a unique category and given a code, up to six characters long. Such categories can include a set of similar diseases. The "-9" refers to the ninth edition of these codes; the tenth edition has been published, but is not in widespread use at this time. See also Current Procedural Terminology
Interpreted Lab Results	Lab results from either the Baltimore VAMC laboratory or from the AFIP laboratory that have been reviewed and interpreted by a TEFSC Provider.
intranet	Any network which provides similar services within an organization to those provided by the Internet outside it, but which is not necessarily connected to the Internet. The commonest example is the use by a company of one or more World-Wide Web servers on an internal TCP/IP network for distribution of information within the company. The VA intranet hosts EFRA as well as other programs and information.
IRM	See Information Resources Management
IT	See Information Technology

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Term or Acronym	Description
J	
JAWS	See Job Access with Speech
Job Access with Speech (JAWS)	Refers to a software product for visually impaired users. The software is produced by the Blind and Low Vision Group of Freedom Scientific. See http://en.wikipedia.org/wiki/JAWS_%28screen_reader%29 and http://www.freedomscientific.com/fs_products/software_jaws.asp .
Joint Medical Workstation (JMeWS)	Military commanders need to have online, near-real-time medical situational awareness for forward-deployed forces during Operation Iraqi Freedom (OIF). JMeWS provides that capability. Like AHLTA-T and JPTA, JMeWS is an integral part of the TMIP-J capability.
Joint Patient Tracking Application (JPTA)	JPTA tracks the location and disposition of ill or injured patients as they move through the echelons of care, from the U.S. Central Command theater of operations, to Landstuhl Regional Medical Center and back to selected Military Health System or Department of Veterans Affairs medical facilities in the U.S.
Joint Theater Trauma System (JTTS)	JTTS is an approach to providing improved trauma care across the continuum of the Levels of Care to trauma patients, especially in the battlefield environment. Its mission is to: <ul style="list-style-type: none"> - Establish and maintain a Department of Defense Trauma Registry System to capture data and provide information on care and outcomes of military and civilian trauma patients. - Provide the Department of Defense and other authorized interests with timely and relevant information about care and outcomes of military and civilian injuries. - Create a research strategy that supports reduction of morbidity and mortality in military and civilian trauma patients. - Establish and maintain a trauma outcomes database to analyze and evaluate clinical decision making and measure subsequent outcomes for improving treatment modalities. - Provide activities of each of the services with full and complete access to data resident in the DoD Trauma Registry.

Term or Acronym	Description
Joint Theatre Trauma Registry (JTTR)	<p>JTTR is the DoD's data repository collecting and hosting all trauma related data. Sited at Fort Sam Houston, Texas, helps track casualty information from Iraq and Afghanistan to give senior leaders the concrete information they need as they make decisions about everything from what protective gear troops will use to how to better deliver combat casualty care. JTTR also helps ensure that decision makers have more than anecdotal evidence to guide their decisions that directly affect troops on the ground.</p> <p>The Registry captures details about wounds received and the medical care provided from combat support hospitals, aboard ships and aircraft and throughout the course of their treatment, as well as the results. This shows medical care providers what treatments were most effective as they apply those lessons learned to other patients with similar wounds. Medical care providers call this the most important stage of the patient's treatment and ultimate recovery. The Registry also helps medical instructors better tailor their training for the theater.</p> <p>Providing more information and speeding up its delivery is a slow, labor-intensive process that involves sorting through files of hand-written notes from weary battlefield healthcare providers, extracting the critical details, translating them into medical codes and entering them into the database. Nevertheless, the database is providing combat trauma care information which was never before available, and certainly not while the war was still under way. In the past, medical data from the theater was never collected, and inpatient records were retired to the National Personnel Records Center in St. Louis as soon as each patient left the hospital.</p> <p>NOTE: JTTR data can only be shared with government entities.</p>
JPTA	See Joint Patient Tracking Application
JTTR	See Joint Theatre Trauma Registry
JTTS	See Joint Theater Trauma System

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Term or Acronym	Description
K	
Kit	Medical supplies used to collect specimens or fragments. Also referred to as specimen collection kit or fragment collection kit as appropriate.

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Term or Acronym	Description
L	
Longitudinal	Occurring over a period of time.
Laboratory Information Manager (LIM)	Manager of the laboratory files in VistA . Additional duties include creation of new tests, interface set-up and maintenance of instruments, coordination with staff outside of lab to create quick orders, order sets and other Computerized Patient Record System functions.
Local Registry	The local file of patients that were grandfathered into the Registry or have passed the selection rules and been added to the Registry.
Local Registry Update	This process adds new patients (that have had data entered since the last update was run and pass the selection rules) to the local Registry.
Logical Observation Identifiers Names and Codes (LOINC)	LOINC® is designed to facilitate the exchange and pooling of clinical results for clinical care, outcomes management, and research by providing a set of universal codes and names to identify laboratory and other clinical observations. The Regenstrief Institute, Inc., an internationally renowned healthcare and informatics research organization, maintains the LOINC database and supporting documentation. See http://loinc.org/
LOINC	See Logical Observation Identifiers Names and Codes
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Term or Acronym	Description
M	
Medical SAS Datasets	The VHA Medical SAS Datasets are national administrative data for VHA-provided health care utilized primarily by Veterans, but also by some non-Veterans (e.g., employees, research participants).
Military Eye/Vision Injury Registry (MEVIR)	[???] [CANNOT FIND ANY REFERENCE TO THIS ON THE Military Health System website (www.health.mil). IS IT OBSOLETE?]
MTFs	<i>Acronym for Medical Treatment Facilities</i>
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Term or Acronym	Description
N	
NAACCR	See North American Association of Central Cancer Registries
NAHIT	See National Alliance for Health Information Technology
National Alliance for Health Information Technology (NAHIT)	NAHIT was founded in 2002 as a technical standards organization. In 2004, it launched a comprehensive directory of healthcare IT standards, intended to be a starting point and common ground for healthcare organizations and vendors that are discussing IT implementations. In 2005, NAHIT began calling itself “The Alliance.” NAHIT ceased operation on 9/30/2009, saying it had accomplished its mission.

Term or Acronym	Description
National Cancer Institute (NCI)	NCI coordinates the National Cancer Program, which conducts and supports research, training, health information dissemination, and other programs with respect to the cause, diagnosis, prevention, and treatment of cancer, rehabilitation from cancer, and the continuing care of cancer patients and the families of cancer patients.
National Case Registry (NCR)	All sites running the EFRA software transmit their data to the central database for the Registry.
National Data Service (NDS)	NDS is a division of Information Assurance, VHA Office of Information. It maintains an inventory of corporate databases and produces the Corporate Databases Monograph. NDS is the primary source for data coming in to the Data Store.
National Health Information Network (NHIN)	NHIN is a collection of standards, protocols, legal agreements, specifications, and services that enables the secure exchange of health information over the internet. The NHIN is a key component of the nationwide health information technology strategy and will provide a common platform for health information exchange across diverse entities, within communities and across the country.
National Leadership Board (NLB)	NLB plays an active and extensive role in determining VHA policy, strategy, and oversight of organizational performance. It serves as a forum to advise the Under Secretary for Health regarding the Department's mission, goals, and priorities. The NLB also develops and disseminates information both internal and external to the organization, and facilitates the inclusion of diverse views and opinions of various organizational constituencies within VHA.
National Patient Care Database (NPCD)	The NPCD is the source data for the VHA Medical SAS Datasets. NPCD is the VHA's centralized relational database (a data warehouse) that receives encounter data from VHA clinical information systems. It is updated daily. NPCD records include updated patient demographic information, the date and time of service, the practitioner(s) who provided the service, the location where the service was provided, diagnoses, and procedures. NPCD also holds information about patients' assigned Primary Care Provider and some patient status information such as exposure to Agent Orange, Ionizing Radiation or Environmental Contaminants, Military Sexual Trauma, and Global Assessment of Functioning.
National Training and Education Office (NT&EO)	[??]
NCI	See National Cancer Institute
NDS	See National Data Service
NHIN	See National Health Information Network
NLB	See National Leadership Board
North American Association of Central Cancer Registries (NAACCR)	A professional organization that develops and promotes uniform data standards for cancer registration; provides education and training; certifies population-based registries; aggregates and publishes data from central cancer registries; and promotes the use of cancer surveillance data and systems for cancer control and epidemiologic research, public health programs, and patient care to reduce the burden of cancer in North America.
NPCD	See National Patient Care Database
NT&EO	See National Training and Education Office

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Term or Acronym	Description
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O	
OCO	See Overseas Contingency Operation
OEF/OIF	See Operation Enduring Freedom and Operation Iraqi Freedom .
OEF/OIF Clinical Reminder	A clinical reminder designed to assist in screening candidates for the Embedded Fragment Registry. The clinical reminder consists of a questionnaire targeted at identifying health factors pertaining to EFR: Afghan and Iraq Post-Deployment Screen EMBEDDED FRAGMENTS PRESENT NO EMBEDDED FRAGMENTS
OEF/OIF Coordinators and Case Managers	Each VA Medical Center has an OEF/OIF case management team, consisting of a nurse or social worker program manager leading the program; a nurse or social worker case manager providing clinical case management services; and a transition patient advocate acting as an ombudsman for the patient and family. The OEF/OIF Coordinators and Case Managers may initiate the referral to the EFR and need to be aware of the TEFSC protocols; however, they will not need access to the Registry. See also Operation Enduring Freedom and Operation Iraqi Freedom .
Office of Force Health Protection and Readiness (OFHPR)	OFHPR serves as the principal staff assistant and advisor to the Assistant Secretary of Defense (Health Affairs) for all DoD deployment medicine policies, programs, and activities. In carrying out these responsibilities the office is responsible for deployment related health policy, doctrine, theater information systems, system rightsizing, and international agreements.
Office of Information and Technology (OI&T)	Delivers available, adaptable, secure, and cost effective technology services; supports the goal of delivering world-class service to veterans and their families through effective communication and management of people, technology, business processes and financial processes.
OPCS	See Patient Care Services
Operation Enduring Freedom (OEF)	Military operation in Afghanistan and Iraq. Used mostly in conjunction with Operation Iraqi Freedom , which refers to another similar operation.
OIF	See Operation Iraqi Freedom
Operation Iraqi Freedom (OIF)	Military operation in Afghanistan and Iraq. Used mostly in conjunction with Operation Enduring Freedom , which refers to another similar operation.
OEF	See Operation Enduring Freedom . See also Operation Iraqi Freedom
OEF/OIF	See Operation Enduring Freedom and Operation Iraqi Freedom .
OI&T	See Office of Information and Technology
Overseas Contingency Operation (OCO)	Term used to replace the terms Global War on Terror (GWOT) and "Long War." Per direction from the Office of Management and Budget (OMB) through the VA Communications Division, the terms <i>GWOT</i> and <i>Long War</i> are no longer to be used and are being replaced with <i>Overseas Contingency Operation</i> .
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Term or Acronym	Description
P	
Patient Care Services, Office of (OPCS)	OPCS oversees VHA's clinical programs that support and improve Veterans' health care. The VA's broad approach to Veteran care incorporates expert knowledge, clinical practice and patient care guidelines in all aspects of care.
PDF	See Portable Document Format
PCS	See Patient Care Services

Term or Acronym	Description
Personally Identifiable Information (PII)	PII refers to information that can be used to uniquely identify, contact, or locate a single person or can be used with other sources to uniquely identify a single individual.
PII	See Personally Identifiable Information
PMO	See Program Management Office
Portable Document Format (PDF)	A file format for representing documents in a manner that is independent of the original application software, hardware, and operating system used to create those documents. A PDF file can describe documents containing any combination of text, graphics, and images in a device-independent and resolution independent format.
Program Management Office (PMO)	<p>[[[</p> <p>DOES THIS REFER TO THE VHA PMO, THE VA PMO, OR WHAT?</p>
Protocol	A protocol is a convention or standard that controls or enables the connection, communication, and data transfer between two computing endpoints. In its simplest form, a protocol can be defined as the rules governing the syntax, semantics, and synchronization of communication. Protocols may be implemented by hardware, software, or a combination of the two.
Provider	An organization or individual who delivers health care in a professional, systematic way to any individual in need of health care services. For purposes of the EFR project, Providers will be considered as individual health care practitioners. Providers coordinate health care of patients that are included in EFRA.

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Term or Acronym	Description
Q	
questionnaire	<p>[[[NEED GOOD DEFINITION OF JUST WHAT A QUESTIONNAIRE IS</p> <p>See also</p>

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Term or Acronym	Description
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Term or Acronym	Description
R	
Raw Lab Results	Lab results from either the Baltimore VAMC laboratory or from the AFIP laboratory that have not been reviewed or interpreted by a TEFSC Provider.
RCB	See Recognized Certification Body
read only (RO)	The term <i>read only</i> usually refers to something that can be read, but not written to or modified. In programming, a data variable can be declared as RO, which prevents modification to the values. In EFRA, this applies specifically to several categories of data, including basic information about a patient.
Recognized Certification Body (RCB)	The certification of electronic health record software is recognized to be a two part process: (1) the Secretary of the Department Health and Human Services (the Secretary) recognizing specific enumerated criteria for the certification of electronic health record (EHR) software, and (2) certification to the criteria and standards so recognized by the Secretary. An organization/entity recognized to carry out the second step of this process is referred to as a Recognized Certification Body (RCB).
Referral	To send or direct for treatment, aid, information, or decision. For the purposes of the EFR application, a referral may also mean the data sent to identify a patient being referred.
Registry	The VHA Registries Program supports the population-specific data needs of the enterprise including (but not limited to) the Defense/Veterans Eye Injury Registry, Oncology Tumor Registry, Traumatic Brain Injury Registry, Embedded Fragment Registry and Eye Trauma Registry. <i>Also</i> , a database containing a collection of data relating to a disease or condition.
RO	See read only
Roll-and-scroll, roll'n'scroll	“Scrolling” is a display framing technique that allows the user to view a display as moving behind a fixed frame. The scrolling action typically causes the data displayed at one end of the screen to move across it, toward the opposite end. When the data reach the opposite edge of the screen they are removed (i.e., scroll off of the screen). Thus, old data are removed from one end while new data are added at the other. This creates the impression of the display page being on an unwinding scroll, with only a limited portion being visible at any time from the screen; i.e., the display screen is perceived as being stationary while the displayed material moves (scrolls) behind it. Displays may be scrolled in the top-bottom direction, the left-right direction, or both. Traditionally, VistA data displays have been referred to as “roll-and-scroll” for this reason.
Routine	A set of programming instructions designed to perform a specific limited task.
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Term or Acronym	Description
S	
screen reader	<p>“Screen reader” software is designed to make personal computers using Microsoft Windows accessible to blind and visually impaired users. It accomplishes this by providing the user with access to the information displayed on the screen via text-to-speech or by means of Braille display and allows for comprehensive keyboard interaction with the computer.</p> <p>It also allows users to create custom scripts using the JAWS Scripting Language, which can alter the amount and type of information which is presented by applications, and ultimately makes programs that were not designed for accessibility (such as programs that do not use standard Windows controls) usable through JAWS.</p>
Screening	The process of determining if a Veteran should be referred to TEFSC for embedded fragment follow-up.
Section 508	Section 508 of the Rehabilitation Act as amended, 29 U.S.C. Section 794(d) , requires that when Federal agencies develop, procure, maintain, or use electronic and information technology, they shall ensure that this technology is accessible to people with disabilities. Agencies must ensure that this technology is accessible to employees and members of the public with disabilities to the extent it does not pose an “undue burden.” Section 508 speaks to various means for disseminating information, including computers, software, and electronic office equipment. The Clinical Case Registry must be 508 compliant, able to extract data as needed including SNOMED codes.
SEER	See Surveillance, Epidemiology and End Results
Selection Rules	A pre-defined set of rules that define a Registry patient.
Sensitive Information	Any information which requires a degree of protection and which should be made available only to authorized system users.
Server	In information technology, a server is a computer system that provides services to other computing systems—called clients—over a network. The server is where Vista M-based data and Business Rules reside, making these resources available to the requesting server.
SGML	See Standardized Generic Markup Language
Single Sign On	Single Sign On is the process that enables the secure access of disparate applications by a user through use of a single authenticated identifier and password.
Site Configurable	A term used to refer to features in the system that can be modified to meet the needs of each local site.
SNOMED	See Systematized Nomenclature of Medicine
Specimen	A portion or quantity of material for use in testing, examination, or study. For the purposes of the EFR application, specimens will typically involve urine, blood or tissue collected from a patient.
SQL	See Structured Query Language
SQL Server	See Structured Query Language Server
SQL Server Integration Services (SSIS)	<p>SSIS is a component of the Microsoft SQL Server database software which can be used to perform a broad range of data migration tasks.</p> <p>SSIS is a platform for data integration and workflow applications. It features a data warehousing tool used for data extraction, transformation, and loading (ETL). The tool may also be used to automate maintenance of SQL Server databases and updates to extremely complex data.</p>

Term or Acronym	Description
SSIS	See SQL Server Integration Services
Standardized Generic Markup Language (SGML)	A generic markup language for representing documents. SGML is an International Standard that describes the relationship between a document's content and its structure. SGML allows document-based information to be shared and re-used across applications and computer platforms in an open, vendor-neutral format.
Structured Query Language (SQL)	An industry-standard language for creating, updating and, querying relational database management systems. SQL was originally based upon relational algebra. Its scope includes data query and update, schema creation and modification, and data access control. The data displayed in EFRA is stored in SQL databases. Typically, the acronym SQL (<i>pronounced "sequel"</i>) is used instead of the actual phrase.
Structured Query Language Server (SQL Server)	A relational database management system (RDBMS) which is part of the Microsoft® BackOffice® family of servers. SQL Server was designed for client/server use and is accessed by applications using SQL. It runs on Windows NT version 3.5 or higher and is compliant with the ANSI SQL-92 and FIPS 127-2 SQL standards.
Surveillance	Systematic collection, analysis, and interpretation of health data about a disease or condition.
Surveillance, Epidemiology and End Results (SEER)	[??] [DOES THIS REFER TO THE NCI'S SEER? OR SOMETHING ELSE?] [IF IT'S NCI, THEN WE SHOULD ADD THE LINK HERE: http://seer.cancer.gov]
Systematized Nomenclature of Medicine (SNOMED)	SNOMED is a terminology that originated as the systematized nomenclature of pathology (SNOP) in the early 1960s under the guidance of the College of American Pathologists. In the late 1970s, the concept was expanded to include most medical domains and renamed SNOMED. The core content includes text files such as the concepts, Descriptions, relationships, ICD-9 mappings, and history tables. SNOMED represents a terminological resource that can be implemented in software applications to represent clinically relevant information comprehensive (>350,000 concepts) multi-disciplinary coverage but discipline neutral structured to support data entry, retrieval, maps etc.

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Term or Acronym	Description
T	
"The Alliance"	See National Alliance for Health Information Technology
TBI	See Traumatic Brain Injuries
Technical Services Project Repository (TSPR)	The TSPR is the central data repository and database for VA Health IT (VHIT) project information. See http://tspr.VistA.med.va.gov/tspr/default.htm
TEFSC	See Toxic Embedded Fragment Surveillance Center
TEFSC Coordinator	A person (role) at the Toxic Embedded Fragment Surveillance Center responsible for the continuity of patients' interactions with the center.

Term or Acronym	Description
Terminal emulation software	A program that allows a personal computer (PC) to act like a (particular brand of) terminal. The PC thus appears as a terminal to the host computer and accepts the same escape sequences for functions such as cursor positioning and clearing the screen. Attachmate <i>Reflection</i> is widely used in VHA for this purpose.
Text Integration Utilities (TIU)	TIU simplifies the use and management of clinical documents for both clinical and administrative medical facility personnel. In connection with the Authorization/Subscription Utility (ASU), a facility can set up policies and practices for determining who is responsible or has the privilege for performing various actions on required documents. <i>See complete discussion in Appendix E.</i>
Theater Medical Data Store (TMDS)	<p>The main purpose of TMDS is to give health care providers an unclassified Web-based means of accessing the same theater medical information collected by the Joint Medical Workstation (JMeWS). Because TMDS uses the same baseline code as JMeWS, medical surveillance and medical command and control features can be activated in support of unclassified operations during a disaster or mass casualty event in the Continental United States or elsewhere.</p> <p>On May 1, 2008, the Joint Patient Tracking Application (JPTA) was merged with TMDS into a single application, which retained the name of TMDS. All data transferred to the Veterans Tracking Application will come from TMDS.</p> <p>TMDS is built on the same baseline code as the Joint Medical Workstation (JMeWS), but the features that make JMeWS a classified system (such as medical command and control and the aggregation of population health data for medical surveillance) have been turned off in TMDS to allow it to be run on the Non-classified but Sensitive Internet Protocol Network (NIPRNet).</p>
Therapak	Therapak Corporation is a leading supplier of diagnostic test kits used by hospitals, physicians, laboratories and pharmaceutical companies. Therapak currently provides the biomonitoring and fragment analysis kits used by EFR.
TMDS	<i>See Theater Medical Data Store</i>
Tool tips	Tool tips are “hints” assigned to menu items which appear when the user “hovers” the mouse pointer over a menu.
Toxic Embedded Fragment Surveillance Center (TEFSC)	<p>The TEFSC mission is to follow OEF/OIF Veterans with fragments and to identify and treat potential health problems early.</p> <p>TEFSC clinical care and surveillance of OEF/OIF Veterans injured by a bullet, blast or explosion includes:</p> <ul style="list-style-type: none"> • Maintaining a Registry of OEF and OIF Veterans who have had a fragment removed or who still have a fragment in their body. • Using information from the Registry to write guidelines for medical care. • Providing guidelines for medical care to other VA healthcare providers across the country. • Providing special testing for chemicals that might be released from the fragments.

Term or Acronym	Description
Traumatic Brain Injuries (TBI)	The Traumatic Brain Injuries (TBI) Registry software application allows case managers to identify those Veterans who participated in Operation Enduring Freedom (OEF) or Operation Iraqi Freedom (OIF) and who sustained a head injury and thus are potential traumatic brain injury (TBI) patients. The TBI application permits the case manager to oversee and track the comprehensive evaluation of those patients. It also provides 17 types of reports used for tracking the evaluation and care of individuals identified as possible TBI candidates.
Triage	For the purposes of the Embedded Fragment Registry application, triage refers to the process of making a decision regarding the follow-on treatment and inclusion of a patient in the EFR that has been referred to the TEFSC.
Triage Algorithm	For the purposes of the Embedded Fragment Registry application, the triage algorithm refers to the procedure or computation applied in the process of making a decision regarding the follow-on treatment and inclusion of a patient in the EFR that has been referred to the TEFSC.
TSPR	See Technical Services Project Repository

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Term or Acronym	Description
U	
Uniform Resource Locator (URL)	(Formerly <u>Universal</u> Resource Locator). A standard way of specifying the location of an object, typically a web page, on the Internet. URLs are the form of address used on the World-Wide Web. In EFRA, the URL is typically a web page which displays another application screen.
URL	See Uniform Resource Locator
USAF	<i>Acronym for United States Air Force</i>
U.S. Army Public Health Command (Provisional)	The former U.S. Army Center for Health Promotion and Preventive Medicine is now the U.S. Army Public Health Command (Provisional). The overall objectives of the USAPHC are to: <ul style="list-style-type: none"> • Enhance health and wellness of Soldiers and military retirees, their families, and Army civilian employees • Optimize public health support to the Army • Create a single point of accountability and responsibility for public health within the Medical Command • Improve planning and use of Army public health assets across the full spectrum of installations and activities See http://usachppm.apgea.army.mil/APHC/
User Interface	A user interface is the means by which people (the users) interact with a particular machine, device, computer program or other complex tool (the system). The user interface provides one or more means of: <ul style="list-style-type: none"> • Input, which allows the users to manipulate the system • Output, which allows the system to produce the effects of the users' manipulation The interface may be based strictly on text (as in the traditional "roll and scroll" IFCAP interface), or on both text and graphics. In computer science and human-computer interaction, the user interface (of a computer program) refers to the graphical, textual and auditory information the program presents to the user, and the control sequences (such as keystrokes with the computer keyboard and movements of the computer mouse) the user employs to control the program. See also Graphical User Interface

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Term or Acronym	Description
V	
VA	See Veterans Affairs
VA/DoD Information Repository (VADIR)	The VADIR database was established to support a One VA/DoD data-sharing initiative in order to consolidate data transfers between DoD and VA. The DoD Defense Manpower Data Center (DMDC) stage shared data as defined in a Memorandum of Understanding (MOU), and transmits data to VADIR. The VADIR data are used to assist in determining Veteran benefits. (Note: Health data is not collected in VADIR.)
VACO	See Veterans Affairs Central Office
VADIR	See VA/DoD Information Repository

Term or Acronym	Description
VALU	Veteran's Affairs Learning University
VAMC	<i>Acronym for Veterans Affairs Medical Center</i>
VBA	Veterans Benefits Administration
Verified Referral	A patient's referral information in the EFR application that has been verified by TEFSC through a process of comparing an incoming referral to referral information previously stored in the EFR application and selecting the most appropriate response. This process 'builds' the verified referral.
Veteran Tracking Application (VTA)	A VA version of the Joint Patient Tracking Application which provides clinicians access to medical records on combat wounded soldiers throughout the continuum of care, from the battlefield to a VA hospital.
Veteran Tracking Application (VTA) data extract	<p>This extract includes the following read-only data:</p> <ul style="list-style-type: none"> • Patient Last Name • Patient First Name • Social Security Number • ICD-9 Codes (used by DoD in their case definition algorithm) • Subjective Objective Assessment and Plan (SOAP) Note Keywords (used by DoD in their case definition algorithm) • Patient Address Line1 • Patient Address Line2 • Patient City • Patient State • Patient Zip/Postal Code • Patient Phone (primary) • Patient email address
Veterans Affairs Central Office (VACO)	The VA “headquarters” offices, located in Washington DC, which oversees field operations throughout the VA.

Term or Acronym	Description
Veterans Affairs, Department of (VA)	The VA mission is to serve America's Veterans and their families with dignity and compassion and to be their principal advocate in ensuring that they receive medical care, benefits, social support, and lasting memorials promoting the health, welfare, and dignity of all Veterans in recognition of their service to this Nation. VA is the second largest Federal department and has over 278,000 employees. Among the many professions represented in the vast VA workforce are physicians, nurses, counselors, statisticians, architects, computer specialists, and attorneys. As advocates for Veterans and their families, the VA community is committed to providing the very best services with an attitude of caring and courtesy.
Veterans Affairs Learning University (VALU)	VALU supports all employee learning and performance improvement across VA.
Veterans Benefits Administration (VBA)	VBA, in partnership with the Veterans Health Administration and the National Cemetery Administration, provides benefits and services to the Veterans and their families in a responsive, timely and compassionate manner in recognition of their service to the Nation.
Veterans Health Administration (VHA)	VHA administers the United States Veterans Healthcare System, whose mission is to serve the needs of America's Veterans by providing primary care, specialized care, and related medical and social support services.
Veterans Health Information Systems and Technology Architecture (VistA)	VistA is a comprehensive, integrated health care information system composed of numerous software modules. <i>See</i> http://www.va.gov/VistA_monograph/docs/2008VistAHealthVet_Monograph.pdf and http://www.virec.research.va.gov/DataSourcesName/VISTA/VISTA.htm .
Veterans Integrated Service Network (VISN)	VHA organizes its local facilities into networks called VISNS (VA Integrated Service Networks). At the VISN level, VistA data from multiple local facilities may be combined into a data warehouse.
VHA	<i>See</i> Veterans Health Administration
VHA Support Service Center (VSSC)	The VHA Support Service Center (VSSC) was established in 1996 as an information and technical support arm for VHA healthcare operations. The VSSC delivers information, tools and technical and analytical services to support the management of field operations. The VSSC reports to the ADUSH/OM and is governed by an Advisory Board that sets organizational goals and priorities. The VSSC is structured as a decentralized, virtual organization that is customer driven and outcome oriented. The VSSC organization includes Network Services (Capital Assets, Planning and Data Analysis and Veteran Service and Advocacy), Information Management and Analysis.
VISN	<i>See</i> Veterans Integrated Service Network
VistA	<i>See</i> Veterans Health Information Systems and Technology Architecture
VRAD	VA/DOD Reporting and Analysis Data Mart
VSSC	<i>See</i> VHA Support Service Center
VTA	<i>See</i> Veteran Tracking Application

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Term or Acronym	Description
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Term or Acronym	Description
W	
WBA	See Web-Based Application
Web-Based Application (WBA)	<p>In software engineering, a web application is an application that is accessed via a web browser over a network such as the Internet or an intranet. The term may also mean a computer software application that is hosted in a browser-controlled environment (e.g. a Java applet) or coded in a browser-supported language (such as JavaScript, possibly combined with a browser-rendered markup language like HTML) and reliant on a common web browser to render the application executable.</p> <p>Web applications are popular due to the ready availability of web browsers, and the convenience of using a web browser as a client, sometimes called a thin client. The ability to update and maintain web applications without distributing and installing software on potentially thousands of client computers is a key reason for their popularity, as is the inherent support for cross-platform compatibility. Common web applications include webmail, online retail sales, online auctions, wikis and many other functions. The EFRA is a WBA.</p> <p>See also User Interface</p>
Workflow	EFR provides two complex workflows: Biomonitoring and Fragment Analysis. Each referral can have multiple workflows, also known as cases. Each case contains up to five activities which reflect the stage the workflow case currently is in. Each referral, case and activity has a status that indicates progress of the particular item.
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Term or Acronym	Description
X	
XML	See Extensible Mark-up Language
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