SEER*Abs v2.24

Users Manual

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Table of Contents

Table of Contentsi	ii
Section 1: SEER*Abs Installation	1
Section 2: Introduction to SEER*Abs	2
Logging In Changing Your Password SEER*Abs Menus, Toolbar, and Shortcuts Status Bar Keyboard Commands User Preferences	3 3 6 7
Section 3: Worklist	0
Navigation Keys for the Worklist.1Searching the Worklist1List of Tasks1Contextual Menu for the Worklist Table1Processing an AFL1Opening a Record in the Worklist1	1 3 4 6
Section 4: Editing a Record 1	7
Accessing the Record Editor1Record Data Entry Form1Record Editor Toolbar.2Color Codes Used in the Record Editor2Entering Values into Data Fields2Field Descriptions2Fields Lookup2Autocomplete Feature2Multi-lines text boxes2Physician and Facility Lookups2Site-specific surgery lookup3Edits to Validate Data3Text Viewer3Record Summary Panel3Multiple Primary Rules Tool3Creating a Record from another Record3Keyboard Shortcuts3	90234556780145567
Section 5: Searching the Reference Data	9
Patient Reference Data	1 2 5
Section 6: Synchronizing SEER*Abs with the Central Registry	9
Exporting Data	1

Section 1: SEER*Abs Installation

The registry's first installation of SEER*Abs should be on the workstation of the registry's SEER*Abs system administrator. The system administrator will configure SEER*Abs and create a registry-specific installation program for you and other SEER*Abs users at the registry.

To install SEER*Abs on your computer:

1. Install SEER*Abs by executing the SEER*Abs installer provided to you by your registry's SEER*Abs system administrator. Please refer to the SEER*Abs Installation Guide or documentation provided by your registry's system administrator for further instructions.

Note that as of version 2.14, SEER*Abs is distributed with an embedded Java Runtime Environment (JRE) and it is not a requirement to have Java installed on your computer anymore.

Section 2: Introduction to SEER*Abs

Install your registry's version of SEER*Abs on your laptop. The system configuration defines how patient and record data are displayed in the system, the availability of reference data, your username and initial password, and your Abstractor ID. Please contact your registry's IT staff for assistance with the SEER*Abs installation or to request changes to the configuration.

Logging In

Your user name and initial password were defined by your registry's system administrator when SEER*Abs was configured for your laptop. If a shortcut was created, the SEER*Abs icon is will be displayed on your desktop or in your system tray.

To log in:

- Click the SEER*Abs icon or double-click the seerabs.exe executable file. SEER*Abs will load configuration files and execute initialization scripts. You may continue with the login process while SEER*Abs loads and executes the scripts.
- 2. Enter your **username** and **password**. The username field will default to the username entered in the previous session.
- 3. If your work will be related to data for one facility, you may specify the **Facility** on the login page. This sets the Current Facility for your session. The Current Facility is used as the default facility in the worklist and, depending on your registry's configuration; it may be used as a default value for some data entry fields. It may also be used in scripts that create extracts and download data from your registry database. Consult your registry's SEER*Abs system administrator to determine the ways in which the Current Facility is used.
 - a. To specify the Current Facility on the login page, enter the facility ID or use the lookup to search for a facility. SEER*Abs Facility IDs are the same as those in your central registry's data management system. If your registry uses SEER*DMS, you do not have to enter the FAC- prefix.
 - b. If you are not working on data for a single facility or if you have not yet downloaded the facility list from your central registry's database, you may leave this field blank. (Facility lists in SEER*Abs are updated when SEER*Abs is synchronized with data from the registry's central database.)
- 4. Click Login.
- 5. If this is your first SEER*Abs Session, you will be prompted to change your password:
 - a. Enter a value in **Password**. Password requirements are described below in the *Changing Your Password* section of this chapter.
 - b. Verify the new password by re-entering it into the **Repeat Password** field.
 - c. Click OK.

Changing Your Password

SEER*Abs provides access to confidential data. It is your responsibility to protect and maintain your password according to registry policy. Your registry may require that you periodically create a new password. If you have forgotten your password, please contact the SEER*Abs system administrator at your registry.

To change your password:

- 1. Select **File > Change Password**. (Keyboard alternative: use Alt-F to access the file menu and the down arrow key to select Change Password.)
- 2. Enter your **Current Password**.
- 3. Enter a **New Password**. All passwords must be at least 8 characters in length. Security measures to protect the confidentiality of patient data must include the use of strong system passwords. Your password should:
 - a. Include symbols, digits, and letters of both upper and lower case. You must use at least one lower case letter, one upper case letter, and one digit or punctuation mark.
 - b. Be significantly different from passwords that you have used in the past.
 - c. Not include your name, your username, your child's name, or your pet's name.
 - d. Not be a common word or name.
- 4. Re-enter your new password in the **Repeat New Password** field.
- 5. Click **OK**. Your new password will be effective immediately.

SEER*Abs Menus, Toolbar, and Shortcuts

Every item on the SEER*Abs menus can be accessed via keyboard shortcuts. In addition, items on the Show menu can be accessed via toolbar icons. When logged on as a standard user, the toolbar includes four items – Worklist, Editor, Search, and Synchronization. The menus and tools for the standard user are described in this manual. The Configuration, Users, and Log tools are only shown when logged on as the administrative user and are described in the SEER*Abs System Administration reference.



File Menu

Shortcut	Menu Item
Alt+F, arrows	New Abstract – opens a blank abstract record in the editor
Alt+F, arrows	New <other record="" types=""></other> – SEER*Abs can be configured to create records other than abstract and casefinding. If your system administrator configured SEER*Abs to allow data entry of other record types, they will also be listed in the File menu.
Ctrl+Shift+P	Search Patient Data – opens the Patient Data tab of the Search page. The search filters are reset.
Ctrl+Shift+F	Search Facilities – opens the Facility tab on the Search page. The search filters are reset.
Ctrl+Shift+Y	Search Physicians – opens the Physician tab on the Search page. The search filters are reset.
Ctrl+Shift+D	Search SEER*Rx Drugs – opens the SEER*Rx drugs on the Search page.
Ctrl+Shift+I	Search Hematopoietic Diseases – opens the Hematopoietic Diseases database on the Search page.
Alt+F, arrows	Backup Main Database – creates a backup of the data stored in the main SEER*Abs database. Data entered in SEER*Abs, changes made to AFLs, and changes made to the user list are stored in the main database. Reference data are not stored in the main database and are not included in this backup.
Alt+F, arrows	Restore Main Database – overwrites the main database using a previously created backup. You will be prompted to select the backup from your hard disk or network.
	Import Reference Database – updates the reference data from a database created by the system administrator. You will be prompted to select the main DB folder containing the reference data (a default folder may have been set in your registry's configuration).
Alt+F, arrows	Recreate Indexes – ensures that database indexes and tables are in sync. Indexes are used by SEER*Abs to optimize database searches.
	Recreating the indexes will ensure that the indexes and database are in sync. It is a good first step to try if you notice odd results in searches or when filtering. It should be very rare that this would need to be done.
Alt+F, arrows	Package Application for Technical Support – creates a compressed file containing the files required by the Technical Support staff to track down an issue. Use this option only if requested by Technical Support.

Shortcut	Menu Item
Alt+F, arrows	Set Current Facility – allows you to change the Current Facility used throughout SEER*Abs. You may select a facility or set Current Facility to none. Current Facility is used as the default facility in the worklist and, depending on your registry's configuration, it may be used as a default value for some data entry fields. It may also be used in scripts that create extracts, download data from your registry database, or perform other functions. Consult the SEER*Abs system administrator at your registry to determine the ways in which Current Facility is used.
Alt+F, arrows	Change Password – allows you to specify a new password.
Alt+F, arrows	Login as a Different User – allows you to login with a different username.
Alt+F, arrows	Preferences – displays the User Preferences dialog.
Ctrl+Shift+Q	Exit – closes SEER*Abs. You will be prompted to save any unsaved changes.

Show Menu

Toolbar Icon	Shortcut	Menu Item
	F1	Worklist – opens or returns you to the SEER*Abs worklist. When you first login, the worklist filters are set to show outstanding abstracting tasks (AFLs) for the current facility. AFLs for all facilities will be displayed if you do not select a current facility.
	F2	Editor - allows you to create new records. Abstract and casefinding record layouts are defined for most registries; a short abstract layout is supported but is only available if defined in your registry's configuration.
6.	F3	Search – opens the Search page. If you have used the Search page in this session, the filters and results most recently displayed are restored.
		Use this to search patient, facility, and physician data in the SEER*Abs database. These reference data are extracted from the registry's main database or loaded from external files during synchronization. Scripts maintained in the registry's Configuration determine the contents of the reference data.
\bigcirc	F4	Synchronization – allows users to update SEER*Abs with data from the registry's data management system; and create extracts to update the registry's data management system.
		Input Folder – displays the input folder (default folder used to import data files)
		Output Folder – displays the output folder (default folder used to create extracts)

Action Menu

Shortcut	Menu Item
Alt+A, arrows	Purge Archived Data – deletes archived AFLs and/or records older than that are older than a period of time defined in registry configuration settings. Note: This feature may be hidden in your registry's configuration.
Alt+A, arrows	Your registry's system administrator can customize the Action menu. Other actions may be listed. If your registry's configuration does not support any actions, the Action menu will not be displayed.

Help Menu

Shortcut	Menu Item
Ctrl+Shift+H	User Manual – displays this document.
Ctrl+Shift+T	Keyboard Shortcuts – displays a list of keyboard shortcuts. Global shortcuts and shortcuts specific to the current page will be listed.
Alt+H, arrows	Coding Manuals – Some of the SEER, NAACCR, FORDS, and Collaborative Staging coding manuals have been distributed with SEER*Abs and can be opened via the Help menu.
Alt+H, arrows	Version History – displays a dialogs showing the changes made to each release of the application
Alt+H, arrows	About SEER*Abs – displays system information including the installed version and credits.

Status Bar

A status bar is shown at the bottom of the screen. The contents of the status bar are described below.

- Your username and the current facility are displayed on the left side of the status bar. The facility will be used as the default for filters and some fields when entering data. If you need to change the facility, select File > Set Current Facility.
- The name of the current module is shown on the far right side of the status bar. In the example below, the user is viewing the Worklist and FAC-0010 is the Current Facility.

Logged in as depryf at FAC-0010 (Testing Hospital)

Showing Worklist

- You may move back and forth from the record editor to other parts of the system without closing the record. If a record is open in the editor:
 - \circ $\,$ The center part of the status bar contains the edit failure for the current file (if any edit is failing for it).

- The type of record is indicated by an ID prefix or the full record ID. If the record has never been saved, only the prefix is shown. ABS is the ID prefix for abstract records.
- $_{\odot}$ $\,$ Mod is displayed if the record has been modified but not saved.
- The number of failing edits will be shown in parentheses.
- The current status of the record is also displayed.
- The figure below shows the status bar as it would be displayed while editing an abstract record that was saved and then modified. The modifications have not been saved. The (2) indicates that there are two edits failing for the record.

```
Logged in as depryf at FAC-0010 (Testing Hospital) [SEER*Abs edit] Date of Diagnosis is required ABS-000007 : Mod (2) - IN PROGRESS Showing Editor
```

Keyboard Commands

To access a menu using your keyboard, press Alt + a letter. To view the letter assigned to each menu, only press the Alt key. A single letter will be underlined in each menu item. Alt + that letter will open the menu. You may then use arrow keys or the key combinations listed on the menu to access a specific menu item.

In addition to the shortcuts listed in the menus and toolbar icons, there may be shortcuts designed specifically for the current page. Enter **Ctrl+Shift+T** to view a list of the currently available keyboard shortcuts.

Worklist	Use the Text Vie	ewer (if available)				
AFL Editor	Ctrl+<	Hide the editor (show text viewer only)				
Record Editor	Ctrl +>	Show editor only (hide text viewer)				
Lookup (Standard)	Ctrl +\	Show as much text as possible				
Lookup (Facility/Physician)	Ctrl +?	Toggle between right and bottom side				
Lookup (Staging)	Ctrl +J	Jump to a particular text box				
Lookup (Surgery)	Ctrl +I	Initiate a search within the Text Viewer				
Text Viewer	Ctrl +K	Go to the next component found with the current search				
Expanded Window Failing Edit Info Window	Ctrl +M	Clear the current search				
Search	Ctrl +H	Set focus back on record editor				
Reference Data Window	Enter Open the field that has focus in the record editor					
	Alt+Down	Scroll the text viewer down one unit				
Configuration Editor (Admin Only)	Alt+Up Scroll the text viewer up one unit					
	Alt+PageDown	Scroll the text viewer up one page unit				
Global Shortcuts						

User Preferences

User Preferences are tied to the configuration settings so that different preferences can be set for different types of SEER*Abs installations.

To open the User Preferences dialog, click on the **Preferences** under the **File** menu.

Preferences - SEER*Abs			×					
Startup	F-keys (F1 - F12) by default	switch between pages, but they can be re-assigned to common a	ctions in the editor.					
Worklist Login) use F-keys to swit	O use F-keys to switch between pages						
Record Editor Key Binding Lookups	() use F-keys to trigg	er record editor actions as specified hereunder:						
····· Text Panel ····· Info Panel	F1	Delete Current Record	~					
Font Size Auto Save	F2	< Unassigned >	~					
Input/Output	F3	< Unassigned >	\sim					
Output Folder	F4	< Unassigned >	\sim					
Backup Database Backup Folder	F5	< Unassigned >	\sim					
	F6	< Unassigned >	\sim					
	F7	< Unassigned >	\sim					
	F8	< Unassigned >	\sim					
	F9	< Unassigned >	\checkmark					
	F10	< Unassigned >	\checkmark					
	F11	< Unassigned >	\sim					
	F12	< Unassigned >	\checkmark					
1	1	Save & Close Cancel						

The following parts of the application can be customized:

- **Startup Toolbar**: whether the toolbar should display large icons, small icons or no icons at all. The F keys short still work even when the icons are not displayed (unless the F-keys have been re-assigned to record editor actions, see Key Binding).
- **Startup Worklist**: default filter for the worklist: display only the outstanding work, or all the records (and Abstract Facility Leads if they have been enabled in your Registry).
- **Startup Login**: whether the facility, user, and SEER*Abs window location should be remembered from one login to the next. If these are selected in the preferences, then the previous login's information will be automatically applied for the next login.
- Record Editor Key Binding: this is the most complicated feature in the Preferences; it allows the 12 F-keys to be re-map to common action in the record editor like display the lookup for the current field, display the documentation for the current field, initiate a physician search, etc.. By default the F-Keys are used to access the main pages of the application (Worklist, Editor, Search and Synchronization). If the F-keys are used for record editor actions instead, they won't trigger the main pages anymore. In that case, the Alt+Left and Alt+Right can still be used to go to the next and previous main page. The figure on the next page shows the different option that can be assigned to the F-keys

- **Record Editor Lookups**: simple customizations for the lookups.
- **Record Editor Text Panel**: whether the text panel (for large text fields) is shown by default when opening a record. Note that not all record types support a text viewer; that depends on how your Registry configured the data entry forms.
- **Record Editor Info Panel**: Whether the info panel (showing the record summary on the top of the page) is shown by default when opening a record. Note that not all record types support a record information panel; that depends on how your Registry configured the data entry forms.
- **Record Editor Font Size**: the default font size to use in the record editor.
- **Record Editor Auto Save**: whether the record auto-save feature should be turned ON or OFF and how often it should run if ON.
- **Input/Output Input Folder**: the default folder to use when importing data.
- **Input/Output Output Folder**: the default folder to use when extracting data.
- **Backup Database Backup Folder**: the default folder to use when backing up the database.

Section 3: Worklist

The SEER*Abs worklist displays tasks related to records (abstracts and possibly some other types if the application has been configured to support them) and Abstract Facility Leads (if they have been turned on in your Registry). In SEER*Abs, an Abstract Facility Lead (AFL) is used to let an Abstractor know that an abstract is needed. An AFL is a request to abstract medical records for a patient at a specific hospital or facility. The AFL may include data items describing the patient and case.

AFL is an optional feature in SEER*Abs. If used, the AFLs are loaded from registry data. The AFLs are listed in the worklist. You would open an AFL and review the information. You could then create an abstract record from the AFL (some fields may be auto-filled using values in the AFL).

In addition to AFL tasks, all records created in SEER*Abs are listed as tasks in the worklist. It is possible to have tasks for each type of record supported in SEER*Abs including abstract records and records designed specifically for your registry. The task ID includes a prefix which identifies the type of task. The prefixes can be customized for your registry, if desired. The prefixes used for tasks in the default version of SEER*Abs are:

- AFL Abstract Facility Lead. This "lead" indicates that an abstract is needed from a specific facility for the patient.
- ABS worklist task to finish an incomplete abstract record.

🙎 SEER Abs	tracting Tool [DEMO]										-	- 🗆	×
File Show	Action Help												
	🖗 🐻	3											
'Items	Type: <	ANY > V Stat	tus:	< ANY >	 Facility: 	FAC-001	Ç	DX Dat	te: /	/ 2010 Text: da		Reset	0
ID	Last Name	First Name	м	SSN	Med Rec #	Facility	Site	Morph	DX Date	Last Modified	Linked Rec/AFL	Stat	JS
AFL-000022	CAROMURIO	ANDAIVENOR	в	000855158	MRN-3088370565	FAC-001	C775	8751/3	01/01/2010	03/20/2025 10:45 AM		NOT ABSTR	ACTED
ABS-000002	BREZUR	DATHANHIR	Α	000071454		FAC-001				03/20/2025 10:42 AM	AFL-000208	COMPLE	TED
AFL-000142	ARTH	DAURGATO	D	000888370	MRN-7621788431	FAC-001	C664	8764/3	01/01/2010	03/20/2025 10:42 AM		NOT ABSTR	ACTED
AFL-000208	BREZUR	DATHANHIR	Α	000071454	MRN-4210014008	FAC-001	C441	8575/2	01/01/2010	03/20/2025 10:42 AM	ABS-000002	ABSTRA	CTED
ABS-000001	BISPETH	DATRODDYN	D	000741468		FAC-001				03/20/2025 10:41 AM	AFL-000021	IN PROG	RESS
AFL-000021	BISPETH	DATRODDYN	D	000741468	MRN-3650131762	FAC-001	C040	8263/3	01/01/2010	03/20/2025 10:41 AM	ABS-000001	IN PROG	RESS
AFL-000437	ANDIRA	DATHANHIR	В	000730023	MRN-3354223528	FAC-001	C313	8751/3	01/01/2010	03/20/2025 10:36 AM		NOT PROC	ESSED
Results are so	rted by relevance to criteria. S	orting by a column will cause	this o	rder to be lost.									_

• There may be other types of tasks unique to your registry.

The worklist filters and columns can be configured, the worklist in your version of SEER*Abs may not be exactly as shown above. Typically, there will be filters at the top of the worklist that allow you to search for tasks by task type, status, facility, and other search fields. The results of your search will be displayed in the table below. When you first log in, the worklist will display the outstanding AFL tasks for the Current Facility.

Navigation Keys for the Worklist

If you prefer keyboard navigation to using the mouse, you may use the following keys to move through the worklist and make selections:

- **Tab**: press Tab to move from one filter to the next. Tab will also take you from the last filter to the Reset button, and from the Reset button to the first task in the worklist.
- Shift+Tab: use this to move in the reverse direction as Tab
- **Alt+Down**: to view the choices in a drop-down menu
- **Arrow keys**: to scroll through the choices in a drop-down menu; or to scroll through the tasks in the worklist.
- **Enter**: If your cursor is on a filter, pressing Enter will start the search using the settings in all filters. If your cursor is on the Reset button, the filters will be reset to their default values. If your cursor is on a worklist task, the task will open.

Searching the Worklist

Search criteria are entered in filters displayed at the top of the worklist. Your registry's system administrator can configure SEER*Abs to show different filters or change the way that the searches are implemented. The following describes the default configuration in the distribution version of SEER*Abs.

To search for tasks in the worklist:

- 1. Use the drop-down menu to select the **Type** of worklist task.
 - a. AFL a request for an abstract from a specific facility. Data identifying the patient and the cancer of interest are defined in the AFL. This type will not be shown if AFLs are turned off in your Registry.
 - b. Abstract and Other Types of Records The worklist includes records entered in your installation of SEER*Abs. These include records that were entered but not completed, records that were completed but not submitted to the registry, and records that were submitted and archived. Archived records are available in the worklist until they are purged using the Action > Purge Archived Data menu item.
 - c. Any all of the above.
- Select the **Status**. The values listed in the drop-down menu will vary based on the **Type** of task selected in step 1; you cannot filter by status if Type = Any. Options that are enclosed in brackets are combinations of other values, for example <Outstanding> lists all open tasks for the selected data type; and <Any> lists tasks with any status for the selected data type.

The following are the statuses for AFLs and Records as defined in the default distribution. The values may not be exactly what you see in your Registry.

a. Default Statuses for AFL Tasks

- i. Not Processed have not started abstracting the case
- ii. In Progress began abstracting but did not complete the abstract
- iii. Abstracted created a complete abstract record for the case
- iv. Not Abstracted determined that the case should not be abstracted
- v. Archived submitted the results of the AFL to the registry. The status of an AFL is set to Archived when you export the AFL data. Archived AFLs are retained in SEER*Abs for a period of time that is defined in registry configuration settings. Archived data that have expired can be removed by selecting Action > Purge Archived Data.
- vi. Outstanding AFL tasks that have a status of In Progress or Not Processed.
- vii. Any All of the above.
- b. Default Statuses for Record Tasks
 - i. In Progress entered some but not all data in the record
 - ii. Completed entered all fields and marked the record as complete
 - iii. Archived submitted the record to the registry. The status of a completed record is set to Archived when the record is exported. Archived records are retained in the system for a period of time as defined in registry configuration settings.
 - iv. Outstanding In Progress is the only outstanding status for records.
 - v. Any All of the above.
- 3. If you are searching for tasks related to a particular facility, enter a value in the **Facility** filter:
 - a. If you know the facility's ID, type the ID into the filter. SEER*Abs Facility IDs are the same as those in your central registry's data management system. If your registry uses SEER*DMS, you do not have to enter the FAC- prefix. Multiple IDs can be entered separated by commas. You may press Enter to apply your changes to the facility filter or Tab to another filter to enter additional search criteria.
 - b. Or click the Lookup Ω to search the database for the facility ID.
 - i. Enter search text into the lookup's filter. The lookup table and its search feature are defined by registry configuration settings. You may sort the table of search results by clicking a column header.
 - ii. Double-click an entry to select it. If you prefer to use keyboard controls:
 - 1. Press tab to move from the text search box to the list.
 - 2. Use the arrow keys to move through the list.

- 3. Press Enter to select an entry.
- 4. If you are searching for tasks with a specific Date of Diagnosis, enter values in the **DX Date** filter. There are 3 date parts: month, day, and year. It is not required that you fill in all three parts. You can search for tasks for a given year by only filling out the year field. You can search for tasks for a given month by only filling out the year and month fields.
- 5. The **Text** box is a generic, Google-style search box that can be used to search for tasks based on fields displayed in the worklist. Registry-defined configuration files determine which fields are searched.
- 6. Press Enter to apply the filter settings.

You may click **Reset** to return all filters to their default values and reload the worklist.

List of Tasks

The items that match the filter settings are displayed in a scrolling table just below the filters. The columns displayed in this table are controlled by the configurations set by your registry staff. SEER*Abs is shipped with the columns ID, Last Name, First Name, Middle initial, SSN, Medical Record Number, Facility, Primary Site, Morphology, DX Date, Last Modified, Linked Record/AFL, and Status. The table can be sorted by clicking the column header of any column. Click the column header a second time to reverse the sort order.

A message is printed above the worklist table on the left side that shows the number of items displayed. A configuration parameter determines the maximum number that will be displayed in the worklist (500 is the default setting). A message will be displayed if the number of results returned by your search exceeded the display limit.

If your search exceeded the display limit and you are looking for a particular task, it may be missing from the items listed. You should add more detailed search criteria in the filters. For example, if you enter a common last name into the "Text" filter and the search results exceed the display limit then you should search by SSN, facility, medical record number, or other search criteria.

Contextual Menu for the Worklist Table

In addition to the Navigation keys, a contextual menu is available on the worklist when the right button of the mouse is clicked. The following options are available:

- **Open Selected Entity**: opens the selected record or AFL; identical to double-click the corresponding row. This option is enabled only if a single row is selected.
- **Delete Selected Entities**: deletes the selected records or AFLs; use the Ctrl key in combination with the mouse to select multiple rows. If the rows that need to be selected are together, then just select the first one with the mouse and drag down to the last one.
- **Change Status of Selected Entities**: changes the status of the selected entities. A dialog shows the status of the selected entities, and the new status that should be assigned.



- **Copy Cell to Clipboard**: copies the content of the current cell to the clipboard. The content of the clipboard can then be copied into other applications.
- **Copy Row to Clipboard**: copies the content of the current row to the clipboard (fields are comma-separated). The content of the clipboard can then be copied into other applications.
- **Copy Table to Clipboard**: copies the content of the entire table into the clipboard (one line per row, fields are comma-separated). The content of the clipboard can then be copied into other applications.

Processing an AFL

To open and process and AFL in the worklist:

- 1. Open the Worklist. (Click the Worklist toolbar icon, select **Show > Worklist** or press **F1**.)
- 2. Use the filters to search for AFLs from a particular facility or for a specific patient (see the *Searching the Worklist* section of this chapter).
- 3. Use your mouse or keyboard controls to select an AFL (see the *Navigation Keys for the Worklist* section of this chapter).
- 4. Double-click anywhere on the AFL's row or press Enter to open it.
- 5. The AFL will be displayed in a pop-up. The layout of this screen is defined by your registry's configuration settings. The snapshot below is based on the configuration shipped with SEER*Abs.

AFL-0006 - SEER*Abs
Related To REC-00000001 Created By SEERDMS Creation Date 01/01/2009
Lead
Last VERA First CLARC M MORGAN
Birth Date 01 / 01 / 1950 SSN 990000001 Race 01 Sex 2
DX Date 01 / 01 / 2008 Site C535 Hist 8000 Behav 2 Grade 9 Lat 1
Facility
Facility FAC-0001 TESTING FACILITY 1
Pat ID SOME ID Accession # TEST-0001
Med Rec # 000000001 Tumor Seq # 1
Doctor 1 PER-0001 TEST1, TEST1
Doctor 2 PER-0002 TEST2, TEST2
Doctor 3 PER-0003 TEST3, TEST3
Abstract Not Abstract >> Search Cancel

- 6. Review the AFL and determine the appropriate action. The Abstract button is selected, by default, when the AFL is first opened. Use tab or your mouse to move from one button to the next.
 - a. To abstract the case, press Enter or click **Abstract**. SEER*Abs will open the abstract editor. Data from the AFL and your abstractor ID may be auto-loaded into the record fields, as defined in your registry's configuration settings. Instructions for entering and saving the record data are provided in the *Editing a Record* section of this document.
 - b. If an abstract is not appropriate for this case, use your keyboard or mouse to select **Not Abstract**.
 - i. Type a value or use the lookup to specify the **Reason Not Abstracted**.
 - ii. Provide information specific to the case in the **Detailed Explanation** section.
 - iii. Click **Update AFL Status** to save these changes.
 - c. **Search** Takes you to the Search module with the filters set for the patient described in this AFL. If your registry uses reference data, this allows you to see if your registry has any information about this patient already.
 - d. **Cancel** exit the AFL without saving any changes.

Opening a Record in the Worklist

To open a Record from the worklist in order to complete or review it:

- Open the Worklist. (Click the Worklist toolbar icon, select Show > Worklist or press F1.)
- 2. Use the filters to search for the record as described in the *Searching the Worklist* section of this chapter.
- 3. Use your mouse or keyboard controls to select a record (see the *Navigation Keys for the Worklist* section of this chapter for more information).
- 4. Double-click or press Enter to open it.
- 5. The record will be displayed in the editor. Instructions for entering and saving the record data are provided in the *Editing a Record* section of this document. The editor might not be editable if the record has already been extracted out of SEER*Abs.

Section 4: Editing a Record

The SEER*Abs Editor allows you to create or modify records.

To create or modify a record:

- 1. Open a record in the SEER*Abs Editor using one of these methods:
 - a. Abstract records may be created while completing an AFL worklist task as described in the *Processing an AFL* instructions provided in *Section 3: Worklist*.
 - b. Or you may create a new record by selecting New Abstract or New <other record type> from the File menu.
 - c. Saved records can be opened via the worklist as discussed in Section 3: Worklist.
 - d. Or you may go directly to the SEER*Abs editor by pressing F2, using the toolbar icon, or by selecting Show > Editor. To open a record in the editor:
 - i. If you would like to create a new record, click the button corresponding to the type of record that you wish to create (Abstract or a record defined specifically for your registry).
 - ii. If you would like to re-open a record that you were working on recently, select it from the **Recent Records** list. The last 25 records that were modified in the Editor will be listed. Records listed with an asterisk are In Progress.
- 2. Enter data into the fields. Refer to the subsequent sections of this chapter for an overview of the editor and descriptions of the controls and features.
- 3. Registry-defined edits, system edits, and edit packages such as the SEER Edits may be integrated into SEER*Abs. Edits are described in detail in the *Edits to Validate Data* section of this chapter. To apply edits as you enter data:
 - a. Configuration settings determine whether edits are executed as you move from one field or tab to another. If edits do not execute as you move from field to field, you may click **Validate** to execute edits for all fields.
 - b. To display a list of all edits failing for the record, click **Show Errors**. The edits will be listed in the Message pane at the bottom of your screen.
- 4. Options for exiting and/or saving changes while editing a record:
 - a. **Save** will save changes made in the current session. The current values in the record will be written to the SEER*Abs main database. The record will remain open in the record editor and the record's status (In Progress or Completed) will not be altered.
 - b. **Complete** will save your changes, flag the record as a completed record, and close the record display.

- c. **Close** will close the record display. If you have made changes that have not been saved, you will be asked if you want to save those changes. The record's status will not be altered.
- d. You can actually navigate to any part of the system while you are editing a record. The record will remain open in the editor. The status bar will indicate the type of record, whether there are unsaved changes, and if the record has failing edits. If you exit SEER*Abs you will be notified if unsaved modifications have been made to the record.

Records can be opened and modified until they are exported (status = archived); you cannot modify data once it has been archived and you cannot use SEER*Abs to modify records that were created by other software. Archived records can be viewed in the editor in read only mode. Archived records are completely removed from the SEER*Abs database when the Purge Archived Data action is used. It is possible to modify the status of a record to recover from a mistake.

To modify the status of a record:

- 1. Select the record in the **worklist** by clicking one on its row.
- 2. Right click that row to display the context menu.
- 3. Select the option **Change Status of Selected Entities**.
- 4. In the option dialog, select the new status for the record.
- 5. Click **OK**.

This operation should be used with care; the record statuses define the workflow of the records, modifying them through this mechanism override the normal workflow. It is not something that should be done on a regular basis.

Accessing the Record Editor

If no record is open, a page is displayed that shows a summary of record counts and allows you to create a record. This page can be customized. The screen shot below shows the default page, it might look slightly different in your registry depending on your customized configuration.

The top left section is the **Create New Record** section. It contains a button for each record type that can be created with the application. By default only Abstract records can be created, but the application can be customized to support other Registry-specific types.

Under that section is the **Recent Records** section. The last 25 records that were opened are listed in that section; double-click a record to open it. If a record as an asterisk after its label, it means it is still in progress.

The right side of the page provides **Records Counts**. The entire section is fully customizable by your Registry; the default version shows counts for the Abstract records split by their status, for the current year, the previous year, and all the years together.

SEER Abstracting Tool					
Eile Show Action Help	_	_	_	_	_
Create New Record	Record Counts				
Abstract	Abstracts (2012) IN PROGRESS: 1	Abstracts (2011) IN PROGRESS: 0	Abstracts (Other Years) IN PROGRESS: 0	Abstracts (Unk Year Dx) IN PROGRESS: 0	Abstracts (All Years) IN PROGRESS: 1
	COMPLETED: 1	COMPLETED: 0	COMPLETED: 0	COMPLETED: 0	COMPLETED: 1
Recent Records	ARCHIVED: 0	ARCHIVED: 0	ARCHIVED: 0	ARCHIVED: 0	ARCHIVED: 0
ABS-000001 (DEPRY, FABIAN) *					
Logged in as depryf at FAC-000051 (Testing Hospital)					Showing Editor

Record Data Entry Form

SEER*Abs has default screen layouts for abstract records. Other types of records can be defined by your registry's system administrator. All record layouts can be customized by staff at your registry. If you experience any problems or would like adjustments, please contact your registry's SEER*Abs system administrator. The screen shot below is of an abstract record using the default layout shipped with SEER*Abs.

The next screenshot shows the default data entry form for Abstract records. It is composed of the following elements:

- A toolbar is displayed on the very top.
- Under the toolbar is the record's summary panel. Whether that panel is shown, and which fields are shown in the panel can be configured differently for each Registry.
- On the right-side of the screen is the text viewer used to display a read-only version of the large text fields. Whether the text viewer is shown, and which fields are shown in its panel can be configured differently for each Registry.
- The rest of the screen is the data entry form for the current record.

SEER Abstracting Tool [DEMO]	
Eile <u>S</u> how <u>A</u> ction <u>H</u> elp	
🔚 💱 📭 😨 🕞 🔫 🔍 💘 🗙 🚮 🛛 Text: 🔐 🛃 🔏 🎜 Info: 🚗 Tools: 🔍 🗙 🔩 🔩	
Last: DEPRY First: FABIAN DOB: 01/01/2000 SSN: 123456789 Fac: FAC-0001 DX: 01/01/2013	Site: Morph: /
Demographics Tumor (3) Staging Summary TX Hospital TX DX Text Path	Jump to Field: <select field=""></select>
Diagnosis DX Date 01 / 01 / 2013 Place Of DX	Staging (select edit) Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
Ctrl Seq # DX Conf Q Rpt Src Q	Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque
Site Site Caterality Site Title	penatibus et magnis dis parturient montes, nascetur ridiculus mus.
Hist(03) Behav(03) Hist Title	Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem.
Grade 🔤 🖓 Grade Path Val 🔤 🖓 Grade Path Sys 🔄 🖓	Nulla consequat massa quis enim. Donec pede justo, fringilla vel,
Multi Cntr 🛛 🗘 Multi Dt 🔢 / 👘 / Multi as One 💭 Ambig DX 🖓 Condsv Dt 🔰 /	aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut,
Cancer Stat O Class of Case Marital DX O Age DX Payer DX O CF Source O	imperdiet a, venenatis vitae, justo.
Prognostic Factors	Remarks (select edit)
Recur 1st Dt / / Recur 1st Type	
Comorbid ICD Rev Comorb	Surg Txt (select edit)
Secondary DX	Radtn Beam (select edit)
Physicians	Radtn Other (select edit)
Managing Physician O	
Follow-up Physician 0 NPI	Chemo Txt (select edit)
Primary Surgeon Q	
۲	Search: Go Clear
Logged in as depryf at FAC-0001 (TESTING FACILITY 1) [SEER *Abs] Primary Site is required	ABS-000001 : Mod (3) - IN PROGRESS Showing Editor

The record type is shown on the right side of the status bar (ABS in the example above). The full record ID is displayed only if the record has been saved. A complete description of the status bar is provided in *Section 2: Introduction to SEER*Abs*.

Record Editor Toolbar

Icon	Shortcut	Description
	Ctrl+S	Save the current record.
₹	Ctrl+0	Complete and close the current record. Only completed records can be extracted.
P2		Create a new record based on the value of the current record. The current record will be closed. If it contains unsaved changes, a confirmation dialog will be displayed. Not all records can create other records; this option might be disabled for some record types.
Ð	Ctrl+T	Validates the current record. Although that behavior can be customized differently in your registry, the form is also validated every time a field looses focus.

Icon	Shortcut	Description
E _	Ctrl+R	Display the failing edits at the bottom of the page.
¢,	Ctrl+Minus	Decrease the font size of the editor. The default font size to use can be changed in the User Preferences dialog.
۹,	Ctrl+Zero	Reset the font size of the editor. The default font size to use can be changed in the User Preferences dialog.
۲	Ctrl+Plus	Increase the font size of the editor. The default font size to use can be changed in the User Preferences dialog.
×	Ctrl+D	Delete the current record.
5	Ctrl+Q	Close the current record. If it contains unsaved changes, a confirmation dialog will be displayed.
	Ctrl+<	Display only the text viewer (hiding the data entry form). The default behavior of the text viewer can be changed in the User Preferences dialog. Note all the record types support a text viewer and this option might be disabled.
	Ctrl+\	Display both the text viewer and the data entry form. The amount of space used by the text viewer can be changed by dragging the separation between the data entry form and the text viewer panel. The default behavior of the text viewer can be changed in the User Preferences dialog. Note all the record types support a text viewer and this option might be disabled.
	Ctrl+>	Display only the data entry form (hiding the text viewer). The default behavior of the text viewer can be changed in the User Preferences dialog. Note all the record types support a text viewer and this option might be disabled.
	Ctrl+?	Toggles the location of the text viewer between right side of the data entry form and bottom side. The default behavior of the text viewer can be changed in the User Preferences dialog. Note all the record types support a text viewer and this option might be disabled.
-		Hide the record summary panel. The default behavior of the summary panel can be changed in the User Preferences dialog. Note all the record types support a record summary panel and this option might be disabled.
	Ctrl+Shift+P	Search Patient Data.
	Ctrl+Shift+P	Search Facilities.

Icon	Shortcut	Description
<u>e</u> ,	Ctrl+Shift+Y	Search Physicians.
1	Ctrl+Shift+D	Search SEER*Rx Drugs.
•	Ctrl+Shift+I	Search Hematopoietic Diseases.
		Multiple Primary Rules.

Color Codes Used in the Record Editor

The SEER*Abs record editor displays data fields in different colors to highlight fields that contain errors and fields that have been modified but not saved.

Colored Field	Description
C809	White indicates that the field does not have an error and has not been changed since the last save.
C900	Red indicates that the field is failing a system edit or an edit defined in the configuration files. The message is displayed when you mouse-over the field.
C809	Yellow indicates that the field has been changed. The record has not been saved since the change was made.
C 809	The field is shaded in green to indicate the current location of your cursor.
Memorial Hospital	Gray indicates that the field is read-only. Read-only fields are skipped when tabbing during a data entry session.
Memorial Hospital	A combined shaded of gray and green is used to indicate that a read-only field has focus. You are allowed to select a read-only field so that you can copy-and-paste the value of the field.

Entering Values into Data Fields

To enter values into data fields:

- You will be able to type values directly into most fields.
- Some fields will be auto-filled with default values based on your registry's scripts. The scripts will determine whether you can over-ride those values or not.
- Fields with light bulbs 🖸 have a lookup table associated with them. The lookup tables are defined in registry configuration files.

Site	- Lookup - SEER*Abs	×
C4		
Code	Description	
C400	Long bones of upper limb, scapula and associative joints	
C401	Short bones of upper limb and associative joints	
C402	Long bones of lower limb and associative joints	
C403	Short bones of lower limb and associative joints	Ξ
C408	Overlapping lesion of bone & articular cartilage of limbs	
C409	Bone & articular cartilage of limb, NOS	
C410	Bones of skull & face	
C411	Mandible	
C412	Vertebral column	
C413	Ribs, sternum & clavicle	
C414	Pelvic bones, sacrum & coccyx	
C418	Overlapping lesion of bone & articular cartilage	
C419	Bone & articular cartilage, NOS	
C420	Blood	
C421	Bone marrow	
C422	Spleen	
C423	Reticuloendothelial system, NOS	Ŧ

- $_{\odot}$ Click the light bulb $\hfill \Omega$, press Ctrl+L or use the right-click contextual menu to open the lookup.
- $_{\odot}$ $\,$ Enter search text. You may search for a code or for descriptive text.
- If you press Enter while entering search text, your search text will be copied into the field. This is useful if you enter a code and use the lookup to confirm its meaning.
- To select a value from the list using keyboard controls, press Tab or Ctrl + Down to move your cursor to the list and the arrow keys to move through the list. Press Enter on the highlighted row or double-click an entry to select the value.
- For some fields, the value may only be changed by modifying a related field. For example, the figure below shows the ID and name of the Managing Physician. You may enter a value into the ID field by typing the value or by using the lookup. The name field is read only and will be auto-filled based on the ID.



- If auto-forwarding is enabled, the cursor will automatically advance to the next field when you enter the number of characters equal to the field's length. (Field length is the maximum number of characters that can be entered and may differ from the size of the box on the screen.) If auto-forwarding is on, you should only need to use tab to move out of fields that vary in length, for example, name, address, and text fields.
- The cursor will not move forward if you enter a value that triggers a System edit. A system edit fails when the value does not match the data type of the field (letters in a numeric field, for example). The system will beep and your cursor will stay in the field. You can either enter a valid value or press Tab a second time to move your cursor forward.
- If edits do not execute as you move from field to field, click **Validate** to execute edits for all fields. The edits are controlled by a configuration setting. The edits may be set to execute as you move from one field to another; or the edits may be suppressed until you move to another tab or click Validate.
- You can use the shortcuts CTRL+Z and CTRL+Y within a field to undo/redo your recent typing. This applies to each field individually; that means if you want to undo the typing of a field that does not have the focus anymore, you need to first give back the focus to that field then use CTRL+Z.

Field Descriptions

Coding information and other descriptive text can be associated with fields. Descriptions from the NAACCR coding manuals are included by default for NAACCR items. Registry staff may configure SEER*Abs to display descriptions for registry-specific fields. If a description is available, the field label will be underlined when you mouse-over the label. Click the label, press CTRL-N or use the right-click contextual menu when editing a field to display the description.

Race	-	T . 11		a aa 1	<u> </u>
	Alternate Name	Item#	Length	Source of Standard	Column #
Race		160	2	SEER/CoC	177-178
and Sta	ging Manual,.				
Referen		or ethnicity and race: <u>http:/</u>	//www.census.gov/prod/cen.	2000/doc/sf2.pd. (Appendix G).	
	ice to Census 2000 definitions f	or ethnicity and race: <u>http:/</u>	//www.census.gov/prod/cen/	2000/doc/sf2.pd. (Appendix G).	
Ration a Because	ace to Census 2000 definitions f ale e race has a significant associat	on with cancer rates and o	outcomes, a comparison betw	een areas with different racial distributio	
Rationa Because race to i	ace to Census 2000 definitions f ale e race has a significant associate interpret the findings. The race	on with cancer rates and o codes listed correspond cl	outcomes, a comparison betw osely to race categories used	reen areas with different racial distribution by the U.S. Census Bureau to allow calo	culation of race-specific
Rationa Because race to i incidence	ace to Census 2000 definitions f ale e race has a significant associate interpret the findings. The race ce rates. The full coding system	on with cancer rates and o codes listed correspond cl	outcomes, a comparison betw osely to race categories used	een areas with different racial distributio	culation of race-specific
Rationa Because race to i incidence	ace to Census 2000 definitions f ale e race has a significant associate interpret the findings. The race	on with cancer rates and o codes listed correspond cl	outcomes, a comparison betw osely to race categories used	reen areas with different racial distribution by the U.S. Census Bureau to allow calo	culation of race-specific
Rationa Because race to i incidence the race Codes	ace to Census 2000 definitions f ale e race has a significant associat interpret the findings. The race ce rates. The full coding system e categories.	on with cancer rates and o codes listed correspond cl	outcomes, a comparison betw osely to race categories used	reen areas with different racial distribution by the U.S. Census Bureau to allow calo	culation of race-specific
Rationa Because race to i incidence the race Codes 01	the to Census 2000 definitions f ale e race has a significant association interpret the findings. The race ce rates. The full coding system e categories. White	on with cancer rates and o codes listed correspond cl	outcomes, a comparison betw osely to race categories used	reen areas with different racial distribution by the U.S. Census Bureau to allow calo	culation of race-specific
Rationa Because race to i incidence the race Codes	ace to Census 2000 definitions f ale e race has a significant associat interpret the findings. The race ce rates. The full coding system e categories.	ion with cancer rates and o codes listed correspond cl should be used to allow a	outcomes, a comparison betw osely to race categories used ccurate national comparison	reen areas with different racial distribution by the U.S. Census Bureau to allow calc and collaboration, even if the state popula	culation of race-specific

Fields Lookup

Use Ctrl+F to bring up a special lookup dialog that will allow you to search fields by typing part of they name or label.

r:	Include length 0	📄 Includ	e invisible Apply	Res	et	
Name	Label	Length	Туре	Visible	NAACCR #	Tab
abstractedBy	Abstd By	3	STRING	YES	570	Summary TX
accessionNumberHosp	Accession #	9	STRING	YES	550	Hospital TX
addressAtDxCity	City	50	STRING	YES	70	Demographics
addressAtDxCountry	Country	3	STRING	YES	102	Demographics
addressAtDxCounty	Cnty Code	3	NUMBER.	YES	90	Demographics
addressAtDxPostalCode	Zip	9	NUMBER.	YES	100	Demographics
addressAtDxState	State	2	STRING	YES	80	Demographics
addressAtDxStreetDirectPost	Post	2	STRING	YES	2330	Demographics
addressAtDxStreetDirectPre	Pre	2	STRING	YES	2330	Demographics
addressAtDxStreetName	Street	60	STRING	YES	2330	Demographics
addressAtDxStreetNum	Num	10	STRING	YES	2330	Demographics
addressAtDxStreetType	Туре	10	STRING	YES	2330	Demographics
addressAtDxSupplementl	Suppl	40	STRING	YES	2335	Demographics
addressCurrentCity	City	50	STRING	YES	1810	Demographics
addressCurrentCountry	Country	3	STRING	YES	1832	Demographics
addressCurrentCounty	Cnty Code	3	NUMBER.	YES	1840	Demographics
addressCurrentPostalCode	Zip	9	NUMBER.	YES	1830	Demographics
addressCurrentState	State	2	STRING	YES	1820	Demographics
addressCurrentStreetDirect	Post	2	STRING	YES	2350	Demographics
addressCurrentStreetDirect	Pre	2	STRING	YES	2350	Demographics
addressCurrentStreetName	Street	60	STRING	YES	2350	Demographics
addressCurrentStreetNum	Num	10	STRING	YES	2350	Demographics
addressCurrentStreetType	Туре	10	STRING	YES	2350	Demographics
addressCurrentSupplementl	Suppl	40	STRING	YES	2355	Demographics
ageAtDx	Age DX	3	NUMBER.	YES	230	Tumor
ambiguousTerminologyDx	Ambig DX	1	NUMBER	YES	442	Tumor

Once you have identified the field you need, double-click it (or select it with the keybard and type Enter) to jump to it in the data entry form.

Autocomplete Feature

While entering text in a field, you may press Ctrl+Space to use the autocomplete feature. SEER*Abs will search a list of terms based on the current word that you are typing.

When using the autocomplete feature, you may:

- Continue typing until there is a single term in the list. Press Enter. This is useful for confirming spelling or syntax.
- Or when you see the term in the list, press Tab to move your cursor to the list itself. Scroll through the list using the arrow keys. When the term is highlighted, press Enter.
- If you enter text that is not in the list, enter a complete term and press Enter. The value of the field will be set to the text that you entered. You may want to ask your registry's SEER*Abs system administrator to add missing terms to the autocomplete list.

Site Title	A		
10	Hist T	Acute	ŀ
J₩	nist i	Acute Lymphocytic Leukemia	ŀ
ade 🛛 😡	Grade	Acute Monocytic Leukemia	L
		Acute Myeloid Leukemia	L
10	Ambig	acute differentiated progressive histiocytosis	L
div Lint	Mar	acute erythremia	L
nily Hist	Mar	acute erythremic myelosis	L
		acute granulocytic leukemia	L
		acute infantile reticuloendotheliosis	
		acute leukemia	l
		acute lymphatic leukemia	
Eval 🗌 😡	LN P	acute lymphoblastic leukemia 👻	

SEER*Abs supports multiple sets of autocomplete terms. Separate lists may be designated for different fields, for example, there may be one list for histology and another for primary site. Or terms from all lists may be made available in a field, for example, all terms are typically made available when editing large text fields.

Multi-lines text boxes

Some fields can support multiple lines of text as shown below.

Remarks This is a multi-line text box

Pressing Enter in a multi-line field will add a line break and your cursor will stay within the field. To enter a significant amount of text into a field, press CTRL+E or use the right-click contextual menu to open a larger text editor.



The autocompletion feature (CTRL+Space) can be used when entering text in the expanded text editor. Click **OK** to close the dialog and apply the new text to the field, or **Cancel** to close the dialog and leave the field as-is.

The number of characters per text field is limited by configuration settings. If you enter more than the maximum allowed, an error message will be displayed at the bottom of the expanded text window.

The CTRL+Z and CTRL+Y shortcuts can be used in the window to undo/redo your last typing.

Physician and Facility Lookups

The facility and physician lookups are associated with search dialogs similar to the one shown below. The physician and facility lookup have a Simple and Advanced search tabs. The Simple Search tab has a single search field that is matched against multiple fields (a Google-style search). The Advanced search tab has multiple fields to filter the list.

The Simple Search tab is configurable. Your registry's system administrator can change the configuration and control which fields are presented in the table, which fields are used in the Simple Search, and the type of searching algorithm that is used (exact, contains, fuzzy, or a lookup). To use the Simple Search, type a search string into the Text box and press Enter or click Search. Click Reset to clear the search string from the Text box.

ext <mark>dini</mark>	c (type text to search and	hit 'Enter' or click the 'Sea	rch' button to star	t the search)		Rese
ID	Name	Туре	NPI	FIN	Address	
FAC-006	BRYORI COBRIGASS Clinic	Clinic	1427244513	3651312883	01586 BISPERON CERIVERIM Street	
AC-016	ADISENDRA ABRISTIRI Clinic	Clinic	6317471087	2444737224	43508 BRYION AQUASHAN Street	
FAC-030	DAIDRETH BABU Clinic	Clinic	3065655611	2135838014	73712 DAELELEB BALIFOROCK Street	
FAC-036	DORTROLAN ARSHA Clinic	Clinic	6226142720	7336886388	58438 DEMTRIOS ARRDARKIA Street	
FAC-041	ARKEBARLA AMIOCH Clinic	Clinic	5401780725	2000150566	68020 ASTASANOR ANDAIVENOR Street	

If you see the result you are interested in, type Ctrl+Down to move the focus from the search field to the table of results, use the down key to go on the correct row and type Enter. You can also double-click the row.

Note that the different fields that are searched from the Simple Search tab are "ORed" together. The results are always sorted by relevance to the criteria, which the most relevant result shown first in the table.

If the simple search is not enough, press Ctrl+Tab or use your mouse to move to the Advanced Search tab. Components of the Advanced Search are also configurable. The registry's configuration determines which fields are available for searching and the type of search algorithm used for each field.

🖉 Lookup	Facility - SEER*Abs						
Simple Se	earch Advanced Search						
Name	Туре		▼ NPI 142724	4513 FIN			Search Reset
ID	Name	Doctor Office Hospice	Туре	NPI	FIN	Address	
FAC-006	BRYORI COBRIGASS Clinic		Clinic	1427244513	3651312883	01586 BISPERON CERIVERIM Street	
Results an	e sorted by relevance to criteria, Sorting	by a column will cause this o	order to be lost.				

Note that the different search fields of the advanced search are "ANDed" together. The results are always sorted by relevance to the criteria, which the most relevant result shown first in the table.

If you prefer keyboard navigation to using the mouse, click Ctrl+Shift+T to view the shortcuts that are specific to the physician and facility lookup.

Ctrl+Down	Move the cursor to the table of search results
Ctrl+Q	Close current Window
Ctrl+R	Reset the search criteria (clear search Text box or filters)
Ctrl+S	Start the search
Ctrl+Tab	Switch between Simple and Advanced search tabs
Enter	If your cursor is in the top section with the search criteria, enter starts the search. If your cursor is on one of the search results, it sets the field to the ID selected.
Escape	Close the current Window
Shift+Tab	In the advanced search, go to previous field.
Tab	In the advanced search filter, go to the next field.

Staging Lookups

Four Staging frameworks are currently supported: Collaborative Stage (for 2004-2015 cases), TNM (for 2016-2017 cases), EOD (for 2018+ cases), and Pediatric (for 2018+ cases). The framework to use is determined by the application based on the diagnosis year. The suffix "[CS]", "[TNM]", "[EOD]", or "[PEDIATRIC]" is displayed on the data entry form after the schema name.

Once the framework is known as well as the schema within that framework, the relevant SSF or SSDI are displayed. Here is an example of the CS framework for LipLower (C001/8000):

Collaborative Stage
Schema: LipLower
CS Size Q Eval Q LN Q LN Pos Q LN Exm Q Version Original 02.0440
CS Mets Eval
Site Specific Factors
SSF 1 [REQ] Size of Lymph Nodes
SSF 3 REQ] Levels I-III, Lymph Nodes for Head and Neck
SSF 4 [REQ] Levels IV-V and Retropharyngeal Lymph Nodes for Head and Neck
SSF 5 [REQ] Levels VI-VII and Facial Lymph Nodes for Head and Neck
SSF 6 [REQ] Parapharyngeal, Parotid, and Suboccipital/Retroauricular Lymph Nodes for Head and Neck
SSF 9 [REQ] Extracapsular Extension Pathologically, Lymph Nodes for Head and Neck
SSF 11 Q [REQ] Measured Thickness (Depth)
Show All Factors

The labels starting with [REQ] are the SEER required site-specific factors for that particular schema. You may use the "Show All Factors" button to display all the relevant items.

The content of the lookups change dynamically depending on the schema:

Lip, Lower (excluding Malignant Melanoma)						
	CS Site-Specific Factor 1	: Size of Lymph Nodes 🕥 🗐 📮				
Code	Description	Note: Code the largest diameter, whether measured clinically or pathologically, of any involved regional lymph node(s). Do not code the size of any nodes coded in CS Mets at DX.				
000	No involved regional nodes	regionarymprinode(s). Bo not code the size of any nodes coded in comets at DX.				
001-979	001 - 979 millimeters (mm) (Exact size of lymph node to nearest mm)	C00.1 External lower lip (vermilion) C00.4 Mucosa of lower lip				
980	980 mm or larger (Includes cases converted from codes 981-989 during conversion to V0200)	C00.6 Commissure of lip				
988	Not applicable: Information not collected for this case (If this item is required by your standard setter, use of code 988 will result in an edit error)					
990	Microscopic focus or foci only and no size of focus given					
991	Described as "less than 1 centimeter (cm)"					
992	Described as "less than 2cm" or "greater than 1cm" or "between 1cm and 2cm"					
993	Described as "less than 3cm" or "greater than 2cm" or "between 2cm and 3cm"					
994	Described as "less than 4cm" or "greater than 3cm" or "between 3cm and 4cm"					
995	Described as "less than 5cm" or "greater than 4cm" or "between 4cm and 5cm"					
996	Described as "less than 6cm" or "greater than 5cm" or "between 5cm and 6cm"					
997	Described as "more than 6cm"					
999	Regional lymph node(s) involved, size not stated Unknown if regional lymph nodes involved Not documented in patient record					

The following features are displayed in the Staging lookups:

- Search box. You may search on the code or any text in the table. To select a value once you have completed your search:
 - If you have entered a valid code in the search box, press Enter. Text in the search box will be copied into the field (do not use enter if you type descriptive search text instead of a code).
 - To move your cursor to the table, press Ctrl + Down. You can then scroll through the table entries. Press enter to select.

- All shortcuts can be displayed by pressing Ctrl+Shift+T.
- The site and histology, staging, field name, and field description:
 - Site and histology In the site-specific Staging lookup, the site and histology are displayed in the title bar of the popup.
 - Schema The staging schema name is displayed as a title in the lookups. In the example above, "Lip, Lower (excluding Malignant Melanoma)" is the schema.
 - Field name and description In the example above, the name is CS Site-Specific Factor 1 and the description is 'Size of Lymph Nodes'. The field names and descriptions of the taging fields are returned by the staging library and are not configurable. Descriptions are not available for all staging fields.
- A section with the code and corresponding description; and a separate section of notes. You may use the icons at the top right of the window or keyboard shortcuts to control the display:

	F		
1) [2	
		↓	
	↓	Hide notes (Ctrl+Right)	
↓ I	Sho	w both side-by-side (Ctrl+U	p)
Sho	w not	es only (Ctrl+Left)	

- To hide notes: Use the rightmost icon that shows the right side of a book or press Ctrl + Right Arrow.
- To show both notes and codes side-by-side: Use the middle "open book" icon or press Ctrl + Up Arrow.
- To show notes only: Use the leftmost icon that shows the left side of a book or press Ctrl + Left Arrow.
- You may also drag the center bar to adjust the size.

The default behavior of the Staging lookups can be customized in the User Preferences dialog.

Site-specific surgery lookup

Some fields might also be attached to a special site-specific surgery lookup. Like the Staging lookups, its content is dynamically created once a valid diagnosis year, site, and histology have been provided.

	0 - 1 Courtha		
	Oral Cavity	1	
	Code/Description		
000 None; no surgery of primary site; autopsy ONLY			
100 Local tumor destruction, NOS			
A110 Photodynamic therapy (PDT)			
A120 Electrocautery; fulguration (includes use of hot forceps for tu	umor destruction)		
A130 Cryosurgery			
A140 Laser			
o specimen sent to pathology from surgical events A100-A14	40		
200 Local tumor excision, NOS			
A260 Polypectomy			
A270 Excisional biopsy		window ship	
Any combination of A200 or A260-A270 WITH			
A210 Photodynamic therapy (PDT)			
A220 Electrocautery			
A230 Cryosurgery			
A240 Laser ablation			
A250 Laser excision			
[SEER Note: Codes A200-A270 include shave and wedge resection]			
A300 Wide excision, NOS			
Code A300 includes:			
Hemiglossectomy			
Partial glossectomy			
A400 Radical excision of tumor, NOS			
A410 Radical excision of tumor ONLY			
A420 Combination of A410 WITH resection in continuity with mandit	hle (marginal segmental hemis or total resection)		
A430 Combination of A410 WITH resection in continuity with maxilla			
	issues were removed during the same procedure, but not necessarily in a single specimen]		
Codes A400-A430 include:			
Total glossectomy			
Radical glossectomy			

The features of the Site-specific Surgery lookup are identical to one for the Staging lookups. Note that this lookup contains empty lines and comment lines (in blue); those cannot be double-clicked to assign a value to the corresponding field (since they do not correspond to any value).

The default behavior of the Site-specific Surgery lookup can be customized in the User Preferences dialog.

Edits to Validate Data

Registry-defined edits, system edits, and edit packages such as the SEER Edits may be used to validate fields while entering data. Failing edits do not prevent the record from being saved, completed, or closed. When a field triggers an edit, the field is shown in red and the edit failure message is shown in the status bar if the field is focused. The error message will also be displayed if you place your mouse over the field. Only one message is displayed if multiple edits are failing for the field. All edits failing on the record are shown in the failing edits tables at the bottom of the screen (the Show Errors button toggles the display of the table; by default it is not displayed).

There are two types of edits, internal system edits and edits defined in the configuration files.

• **System Edits**: Indicates that the value does not conform to database or system rules. For example, the value may be an incorrect data type for the field (a letter in a numeric field) or the value may not be in the field's lookup. Configuration settings determine whether a field can have a value that is not in the lookup. If a system edit fails, SEER*Abs will beep and

not move your cursor forward (correct the value or press Tab a second time to move forward). Examples of system edits:

- o a numeric field contains characters that are not digits
- $\circ~$ a Boolean field contains a value other than "0" or "1"
- a date field is not in the "mm/dd/yyyy" format
- a field contains a physician or facility ID that does not exist in the SEER*Abs physician or facility lists.
- a field associated with a lookup contains a value that is not in the lookup table (and the configuration for the field requires a value in the lookup)
- a text field containing non-printable characters.
- Edits included in your registry's configuration: These include edits defined by registry staff, SEER Edits, and other edit packages that may be integrated into SEER*Abs. SEER Edits are distributed with SEER*Abs, but are turned off in the default configuration.

The following screenshot shows a system edit failing on the field "Race 4" because the value "XX" is not in its lookup; and a SEER*Abs edit failing for the Maiden name, notice how the sex field is also in red because both fields are involved in the edit.

SEER Abstracting Tool [DEMO]	
Eile Show Action Help	
🔚 👽 📭 🗊 📴 🧠 🔍 🔍 🗙 🕺 🛛 Text: 📄 🔯 🔓 📓 Info: 🖐 Tools: 🖾 🧙 🔩 🔩 🍕	
Last: DEPRY First: FABIAN DOB: 01/01/2000 SSN: 123456789 Fac: FAC-0001 DX: 01/01/2013 Site	e: C008 Morph: 8000/3
Demographics (3) Tumor Staging Summary TX Hospital TX DX Text Path	Jump to Field: <select field=""></select>
Pat ID # Pre Last DEPRY First FABIAN M Suf SSN 123456789 Sex Q Maiden JONES Alias Race 01 Q 88 Q 88 Q 88 Q XX Q Hisp Q Birth State Q Country Q Birth Dt 01 / 01 / 2000 E	Staging (select edit) Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.
Follow-up DOLC 01 / 01 / 2013 Vital Status Q Autopsy Q Surv Quality Q FU Source Q Next FU Src Q SEER Type FU Q FU Src Cntl Q Follow Reg NPI Follow Reg D DC File # Death State Q COD COD Rev # Q Address at Diagnosis Address at Diagnosis D	Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo. Remarks (select edt)
Num Pre Q Street Type Q Post Q Suppl	Surg Txt (select edit)
ID Name Group Failing Message ABS-003 SEER*Abs Yes If Maiden Name is provided, sex must be 2 (FEMALE)	
Field 'race5' System Yes Value is not in corresponding lookup	
Edits Filter: Display only failing edits Apply Clear Double-click a row to open the edit definition. Use	e Ctrl+R to hide/show this edits view.
Logged in as depryf at FAC-0001 (TESTING FACILITY 1)	ABS-000001 : Mod (2) - IN PROGRESS Showing Editor

To view a list of all edits failing for the record, click **Toggle Errors View** button. This button is a toggle to show or hide the error panel at the bottom of the screen. The error panel shows the Edit ID, Name (not all edits have a name), Group, and Message for each edit that is failing. Double-click a row to open the Edit Information dialog for that particular edit.

The number of edits failing in the record is displayed on the right side of the status bar. If your record layout uses a tabbed interface, the number of fields failing edits is shown next to the tab name. In the example, 3 fields are related to failing edits. Maiden name and sex are related to EDIT-001; and Race 4 is related to the Field 'race4' edit. In this example, there are 3 fields related to 2 edits that are failing for the record.

To view more information about a failing edit:

- Use the Ctrl+P shortcut
- Right-click on the field to bring up the contextual menu and select the **View Failing Edit Info** option
- If the failing edits are displayed at the bottom of the page, you can double-click a given row.

The Edit Information dialog shows the documentation for the current edit; it also contains other data like the edit's history, code, dependencies, etc... The following screenshot shows the documentation of a SEER edit, pure SEER*Abs edits usually have less documentation available.

Sequence_Numbercentral - SEER*Abs	- D X
ID: Sequence_Numbercentral Name: Sequence NumberCentral (SEER SEQUENC)	
Group: SEER Category: Field	
Msg : Sequence numbercentral is not valid.	
Documentation History Code Contexts Dependencies	
Valid codes for Sequence numbercentral[380] are 00-59,60-88,98,99.	
00 = One primary only in the patient's lifetime	
01 = First of two or more primaries	
02 = Second of two or more primaries	
etc. (Actual number of this primary) 59 = Fifty-nineth of fifty-nine or more primaries	
99 = Unspecified or unknown sequence number	
60 = Only one non-malignant tumor or central registry-defined neoplasm	
61 = First of two or more non-malignant tumor or central registry-defined neoplasms	
62 = Second of tow or more non-malignant tumor or central registry-defined neoplasms	
etc.	
87 = Twenty-seventh of twenty-seven	
88 = Unspecified or unknown sequence number of non-malignant tumor or central registry-defined neoplasms	
98 = Cervix carcinoma in situ (CIS/CIN III, Diagnosis Years 1996-2002)	
······································	
	Close

Text Viewer

The Text Viewer allows you to view text fields while coding other fields. The Text Viewer is a read only panel within the editing window. The Text Viewer stays on the screen when you switch from one data tab to another. Your registry's configuration defines the fields shown in the Text Viewer. The viewer was designed for the display of large text fields, but any field may be shown in the viewer.

Use **Jump To Field** to view a specific field in the Text Viewer. The scrollbar will adjust so that the selected field is shown at the top of the panel.

To find text in any field, enter text in the **Search** box and type **Enter** or click the **Go** button. All occurrences of the text will be highlighted; the Text Viewer will adjust to show the first occurrence of the term in red. Click Go again to search for the next occurrence. Click **Clear** to reset the search box.

Jump to Field <select field=""></select>	9
Staging (select edit)	
Lorem ipsum dolor sit amet,	
consectetur adipisicing elit, sed do	
eiusmod tempor incididunt ut labore	
et dolore magna aliqua. Ut enim ad	
minim veniam, quis nostrud	
exercitation ullamco laboris nisi ut	
aliquip ex ea commodo consequat.	
Duis aute irure dolor in	
reprehenderit in voluptate velit	
esse cillum dolore eu fugiat nulla	Ξ
pariatur. Excepteur sint occaecat	
cupidatat non proident, sunt in	
culpa qui officia deserunt mollit	
anim id est laborum.	
Remarks (select edit) Surg Txt (select edit)	
Radtn Beam (select edit)	
Radtn Other (select edit)	
Chemo Txt (select edit)	
Hormone Txt (select edit)	
BRM Txt (select edit)	-
Search excepteur Go Clear	

There are some very specific shortcuts for the text viewer; those can be viewed by using **Ctrl+Shift+T**:

- **Ctrl+<:** show only the text viewer (hide the editor).
- **Ctrl+>:** show only the editor (hide the text viewer).
- **Ctrl+\:** show both the editor and the text viewer.
- **Ctrl+?:** toggle text viewer location between right side and bottom side.
- **Ctrl+J:** Jump to a particular text box in the text viewer.
- **Ctrl+I:** Initiate a search in the text viewer.
- **Ctrl+K:** Search the text boxes with the current search text.
- **Ctrl+M:** Clear the current search.
- **Ctrl+H**: Set the focus on the record editor.
- Alt+Down: scroll down the text viewer while the focus is in the editor
- Alt + Up: scroll up the text viewer while the focus is in the editor
- **Alt + Page Down**: page down the text viewer while the focus is in the editor
- Alt + Page Up: page up the text viewer while the focus is in the editor

Record Summary Panel

The record summary panel shows the value of key fields for the current record. It is displayed on the top of the editor. Not all record types support this feature.

When a record is opened for the first time, the panel will only show the labels.

Last: First: DOB: / / SSN: Fac: DX: / / Site: Morph: /

The value will appear as the data entry form is populated.

Last: DEPRY First: FABIAN DOB: 01/01/2000 SSN: 123456789 Fac: FAC-0010 DX: 01/01/2011 Site: C001 Morph: 8000/3

The panel can be hidden using the **Toggle Info View** icons in the toolbar.

The behavior of the panel can also be customized in the User Preferences dialog.

Multiple Primary Rules Tool

You may access the Multiple Primary Rules tool by clicking the corresponding button in the toolbar.



After your provide the two sets of input and click the Execute Rules button, the tool will display the output and provide some information about the logic the algorithm used to come up with that result.

Creating a Record from another Record

You may create a new record based on an existing record. You will be able to auto-fill selected fields by copying values from the current record into the new record. This was primarily designed for creating an abstract record from a casefinding record, but it can be used to create a second abstract record to reduce data entry for multiple primaries.

To create a record from another record:

- 1. Open an existing record in the SEER*Abs Editor. This will be referred to as the "original" record in these instructions.
- 2. Click Copy.
- 3. If there are unsaved changes, you will be asked if you would like to save them.
- 4. Select the record type for the new record.
- 5. If you are creating an abstract from an abstract, you may copy all data or sections of data from the original record into the new abstract. A dialog like the one shown below will be displayed. Select the sections of data that you would like to have copied from the original record into the new abstract. The copy feature is a configurable feature in the scripts for creating records. The registry's system administrator must ensure that the appropriate elements are copied.



Keyboard Shortcuts

In addition to the global shortcuts, there are several shortcuts specific to editing record data. Press **CTRL+Shift+T** to view the Shortcut Help.

Key Command	Action
Ctrl+A	Select all text in the focused field
Ctrl+C	Copy the selected text
Ctrl+D	Delete the record currently being edited. This is the same as clicking Delete.
Ctrl+Down Arrow	Go to next row in the editor. From the last row on a tab, this goes to the first row in the
	next tab. From the last row on the last tab, this goes to the first row on the first tab.
Ctrl+E	Display the Expanded text window for a multi-line field.
Ctrl+L	Display the field lookup if one is defined for the current field. It is the same as clicking
	the light bulb.
Ctrl+Left Arrow	Go to the previous field in the row. From the first field in the row, this goes to the last
	field in the previous row. This will also move across tabs. Same as Shift+Tab.
Ctrl+N	Display documentation for the current field, if available.
Ctrl+O	Save the record currently being edited. Change the status to Completed. Close the
	record. This is the same as clicking Complete.
Ctrl+Q	Close the record currently being edited without saving. Same as clicking Close.
Ctrl+R	Switch between viewing and hiding the edit errors. Same as Show/Hide Errors.
Ctrl+Right Arrow	Go to the next field in the row. From the last field in the row, this goes to the first field
	in the next row. From the last field in the last row on the tab, this goes to the first field
	in the first row on the next tab. From the last field in the last row on the last tab, this
	goes to the first field in the first row on the first tab. This works the same as Tab.
Ctrl+S	Save the record currently being edited. This is the same as clicking Save.
Ctrl+Shift+Tab	Go to the previous page. From the first page, this goes to the last.
Ctrl+T	Validate the record currently being edited (force the edits to be recalculated). This is the
	same as clicking Validate.
Ctrl+Tab	Go to the next page. From the last page, this goes to the first.
Ctrl+Up Arrow	Go to the previous row in the record editor. From the first row on a tab, this goes to the
	last row in the previous tab. This works across tabs.
Ctrl+V	Paste previously copied or cut text
Ctrl+X	Cut the selected text
Ctrl+Y	Redo typing
Ctrl+Z	Undo typing
Enter	Go to the next field. For multi-line fields, add a new line in the current field. This is
	similar to tabbing out of the field except when in a multi-line field.

Key Command	Action
Shift+Tab	Go to the previous field in the row. From the first field in the row, this goes to the last
	field in the previous row. This will also move across tabs. Same as Ctrl+Left arrow.
Tab	Go to the next field in the row. From the last field in the row, this goes to the first field
	in the next row. This will also move across tabs. Same as Ctrl+Right arrow.
Ctrl+F	Display the Field Lookup dialog.

Section 5: Searching the Reference Data

The SEER*Abs Search page allows you to search patients and records reference data, facilities, physicians, SEER*Rx drugs and Hematopoietic and Lymphoid diseases.

Reference data are transferred from registry data via the synchronization module. Scripts maintained in the registry's configuration define the amount and type of data that are made available as a reference. These scripts can be configured to load the data directly from the registry's database during synchronization; or the data can be loaded from external files. Your registry's system administrator will provide you with instructions for updating the reference data.

The Search page consists of five tabs with tab-specific filters at the top of the page. As is true throughout SEER*Abs, the columns and filters are defined by registry configuration settings. SEER*Abs is shipped with the filters and columns shown in the snapshots used in this manual.

To search for reference data:

- 1. Go to the Search Page using one of these methods:
 - a. To go to a specific tab and clear all filters:
 - i. Patient Data tab: Select File > Search Patient Data or press Ctrl+Shift+P
 - ii. Facility tab: Select File > Search Facilities or press Ctrl+Shift+F
 - iii. Physicians tab: Select File > Search Physicians or press Ctrl+Shift+Y
 - iv. SEER*Rx Drugs tab: Select File > Search SEER*Rx Drugs or press Ctrl+Shift+D
 - v. Hematopoietic and Lymphoid Database: Select File > Search Hematopoietic Diseases or press Ctrl+Shift+I
 - b. Or press **F3** to return to the Search page from any part of the system. The previously used filter settings will be restored.
- Enter values in the filters at the top of the page. For the Patient Data, Facilities and Physicians, your registry's configuration determines which fields are available as filters, the type of search algorithm used for each filter, and the columns displayed in the search results. The SEER*Rx Drugs and Hematopoietic and Lymphoid Diseases have a single "Google-style" search field.
- 3. Click **Search** or press **Enter** to apply the filters.
- 4. If you need to cancel a search, press **Escape**. If searches are excessively slow, please contact your registry's system administrator for technical support.
- For the Patient Data, Facilities and Physicians, you can double click an entry or use keyboard controls to view data for an individual record, patient set, facility, or physician. The keyboard controls are described below:

- a. Press Tab to move your cursor to the results table.
- b. Use the up and down arrows to move your cursor to a specific item in the table.
- c. Press Enter to open the data item.
- If you open a data item, the data will be displayed using a screen layout defined in the registry configuration settings. Reference data are displayed in read only mode. Click the **Close** button at the top right of the page to close the window.
- 7. Click **Reset** to reset the filter values to blank.

Search results matching your filters will be shown in the table. The total number of results is displayed just above the table. If you exceed the maximum number of allowed results, the message "(maximum number of results was reached)" will follow that number.

The results are initially sorted based on a matching score. You can sort by another column by clicking the column header; click it again to change from ascending to descending order. Clicking Search or Clear will reset the sort order to be based on score.

Patient Reference Data

2	SEER Abstra	cting To	ol [DEMO]										
	ile <u>S</u> how <u>i</u>	<u>A</u> ction	<u>H</u> elp										
			6. 8										
	🖳 Patient	t Data	🟠 Facilities 💁 Physicians	🛃 SEER*Rx 🌔	, Hematopoietic and Lympl	hoid Data	base	•					
	Last Name b	rel	First Name	SSN	Med Rec#								0
	Results: 3											Search	Reset
	ID	Туре	Last Name		First Name		м	SSN	Race	DOB	Sex	Me	lical Rec #
	REC-000009	naaccr	BREL	ANADOR			в	000887707	01	99/99/9999	Male	MRN	6708685128
	REC-000061	naaccr	BREL	CUHAIMOR				000302623	01	99/99/9999	Male		3742674537
	REC-000391	naaccr	BREL	AVATTHARU			B	000747543	01	99/99/9999	Female	MRN	-3805847668
	Results are sorted	d by relev.	ance to criteria. Sorting by a column will ca	use this order to be lost.									
Ľ						_	_		_				han ing Cancab
Ŀ	ogged in as de	pryfat F	AC-0001 (TESTING FACILITY 1)									s	howing Search

The Patient Data tab can be used to search for records and consolidated patient data loaded from registry data. These may include any types of records (abstracts, pathology reports, etc).

Typically, reference records only include records that have not been consolidated with other patient data in the registry's main database. The consolidated patient data are represented as "patient sets". These are data that have been consolidated from abstracts, casefinding, pathology, and other records submitted to the registry.

Facility and Physician Reference Data

The Facility and Physician search tabs can be used to search for data loaded from registry data. These are typically the same facilities and physicians are available in lookups; and the same fields may be available in both the reference data search and lookups. However, registry configuration settings control the reference search tabs and lookups. It is possible that certain criteria will be used to exclude physicians or facilities from lookups (for example, inactive facilities might be excluded). Registry configuration settings also determine the fields shown in both the reference data search and lookup.

The screenshot below shows the default Facility search tab. No search criteria are provided, so all the available facilities are displayed.

🖳 Patien	nt Data 🔝 Facilities 🙆 Physicians	SEER*Rx	🔥 Hemat	opoietic and Lyr	nphoid Database			_
Name	Туре	▼ NPI	FIN		Address ID			(
esults: 51						Se	arch	Reset
ID	Name	Туре	NPI	FIN	Address	City	State	Zip
FAC-001	AUDRIANI AVELWEOMER Other Facility	Other Facility	8451117710	0723652848	43456 CUHAIMOR ARSHNICK Street	ARTUS City	MD	15760
FAC-002	DHAR BRADI Hospital	Hospital	5168331272	5077673215	64082 ARIMRALDIL DULE Street	DAURGATO City	MD	22240
FAC-003	ALHAPO BESESTAN Other Facility	Other Facility	8871866101	3603614128	52464 BERI DALIN Street	DORTROLAN City	MD	26276
FAC-004	BARCYN ANDAIVENOR Lab	Lab	1456451414	4872233428	33854 ARDER DULKYARGOR Street	AMIOCH City	MD	24686
FAC-005	AURGASS CUDEGAN Rad Therapy Unit	Rad Therapy	1246664808	2678246703	30315 BISIRAH AGUILAC Street	BESESTAN City	MD	20621
FAC-006	BRYORI COBRIGASS Clinic	Clinic	1427244513	3651312883	01586 BISPERON CERIVERIM Street	AINIOMNU City	MD	15666
FAC-007	AVAGORA AINIOMNU Nursing Home	Nursing Home	4022506768	6252048341	75562 AIST DHAR Street	DAHRAIG City	MD	20120
FAC-008	ARAVIV ARLI Organization	Organization	5807262256	7641768073	35860 BELEBRON ARIS Street	AINIOMNU City	MD	87558
FAC-009	ALABHEL DATRODDYN Doctor Office	Doctor Office	4547235627	6110220420	23036 ADRIST ANATH Street	CAERINO City	MD	40712
FAC-010	CATHAVILIL CILYN Hospital	Hospital	6126348631	6766226070	01728 BISPERON BABRON Street	DERCISIRIN City	MD	67202
FAC-011	AVELEB AMIROSCHKA Medical Examiner	Medical Examiner	6142243362	0404311383	11126 DAHRAIG AIDORAOI Street	AYISSA City	MD	10161
FAC-012	DOROLASIRE CHINTANN Hospice	Hospice	1581027268	0860246253	14244 AYARONN AMAS Street	BRIADANTH City	MD	01304
FAC-013	ARADI CEDSTLIMO Nursing Home	Nursing Home	0877252216	7237461776	34173 CAEM CUDREYGO Street	BELGAN City	MD	63550
FAC-014	BELEBRON DYMAR Doctor Office	Doctor Office	8418632478	2177783165	42506 DINDRINSON CAEVE Street	DOMBREB City	MD	21632
FAC-015	DIATIVOS CHIEREBDIN Medical Examiner	Medical Examiner	5336436822	8557151776	87657 DULANOR AMMDAS Street	AIDORAOI City	MD	27611
FAC-016	ADISENDRA ABRISTIRI Clinic	Clinic	6317471087	2444737224	43508 BRYION AQUASHAN Street	AUDRIANI City	MD	62132
FAC-017	CUDEGAN DATHANHIR Lab	Lab	0536510715	3463705141	27167 BEYAREB ATIR Street	CEDSTLIMO City	MD	76676
FAC-018	BABRON DHAR Organization	Organization	2363154312	5600062873	53078 CALIDRIM CONNIGURA Street	BRIBOROM City	MD	71884
	BEREZAED AMAS Medical Examiner	Medical Examiner	7668601035	1484075687	85087 CADI AGUILTHIR Street	ARLI City	MD	11081
	DONIVEN AGOLOD Other Facility	Other Facility	1384550300	3163514852	05812 ARYSSA DAELELEB Street	AIDRASS City	MD	52268
	BEYA BANTI Treatment Center	Treatment Ce	3120402346	8426177864	23304 AKIN ARAMORTRIN Street	AAKKAS City	MD	07027
FAC-022	CHINTANN BESESTAN Lab	Lab	8150380321	8477655155	52565 AMAS ANDAIDRAIA Street	ANDRITH City	MD	86181
	DOLNITILYA DOLNITILYA Medical Examiner	Medical Examiner	7366447232	3686358663	35202 BARA DREZAIRA Street	ALHAESTAH City	MD	41631
	ADER ANIOMBRIAN Hospice	Hospice	1546662808	1234257333	08484 AYARONN DAGOLATH Street	CIVENAS City	MD	88352
FAC-025	BELGAN ABRIOS Medical Examiner	Medical Examiner	0462336742	1314067288	71480 ALTHINAGON ARANDA Street	DAGOLATH City	MD	24120

The screenshot below shows the default Physician search tab. The search criteria are any license number containing "XYZ-6".

e <u>S</u> how	<u>A</u> ction <u>H</u> elp										
		3					_				
🛃 Patie	ent Data 🔗 Facilities	A Physicians	SEER*Rx	🔥 Hemato	poietic and Lympho	id Database					
Last Name	e Firs	t Name	NPI	Licens	e # XYZ-6		ID				0
esults: 6	0							Se	earch	Reset	t
ID	Last Name	First Name	Middle	NPI	License #	Specialties	Address	City	State	Zip	T
PER-005	CHADRANAN	DAPHION	С	6375304013	XYZ-6627624336		24026 CONYAN ARADI Street	BABILMANA City	MD	31545	í
ER-008	BESIRAQ	BERFEL	A	1405811823	XYZ-6103001142		05483 CUDEGAN DURIANE	BANTI City	MD	50731	
ER-009	COND	CORE	С	7105635688	XYZ-6822782264		41301 CHIEREBDIN ARLI St	CHADRANAN City	MD	74764	
ER-013	ARSIRI	DHURNOROTT	Α	1548654766	XYZ-6482275030		56560 ARSHNICK DONIVEN	BORARG City	MD	67054	
ER-039	ALHAPO	CADFANTE	D	4110356315	XYZ-6102268087		88847 CIVENAS CEDSTLIM	CRYSIN City	MD	62383	
ER-045	DRIST	DAHIA	D	7201720858	XYZ-6430607241		52372 ARADI BELEBRON St	BREZUR City	MD	23765	
ER-050	DAMINTHOR	ARDER	С	7558113502	XYZ-6337051114		75776 DAMINTHOR CATHA	BESIRAQ City	MD	05506	
ER-053	BRYION	BEREZAED	Α	3236444624	XYZ-6358786210		33361 ARAVEOMBAN CERI	ALABHEL City	MD	24454	
ER-077	CUDREIRIT	BEYAREB	В	4485641811	XYZ-6665823532		53677 COBRIGASS BEYARE	CRABILTIA City	MD	33252	
ER-087	AUDDEGIN	BREZUR	Α	1818543574	XYZ-6687588227		14471 ALGANJA DATHANHI	AINIOMNU City	MD	68835	
ER-088	ADALIFAI	ASTASANOR	С	1712055024	XYZ-6387513267		13830 CHADRANAN CUHAI	AYISTASH City	MD	61805	
ER-097	BRASH	ATIR	Α	2606788423	XYZ-6745226567		55044 DERI AMIROSCHKA	ARAMORTRIN City	MD	62213	
ER-099	ATIR	AZRIFA'ARN	Α	2727057846	XYZ-6846643584		07220 BESIRROMA BISGIA	BESESTAN City	MD	43818	
ER-111	ARRDARKIA	DURNAVESH	D	4073853748	XYZ-6653456318		21117 ANDORAD ARKEBAR	CAROMURIO City	MD	53355	
ER-116	ARSHNICK	CORNAPHIR	В	6414777802	XYZ-6626557177		22310 DEVE DEMAR Street	DAELELEB City	MD	51310	
ER-122	AUDRIANI	ARAMORTRIN	D	4137478785	XYZ-6341824026		64014 DRIST DAHRAIG Street	AKIN City	MD	30672	
ER-123	ALOISIA	AAKKAS	D	1401518506	XYZ-6607488008		72408 ALHAPO DREL Street	ADRAOI City	MD	13688	
ER-137	CALIDRIM	CHINTANN	В	5775568682	XYZ-6376362602		60055 BROSCARRUN ANDO	AINCIR City	MD	51055	
ER-142	DAMINTHOR	DASLANHIR	Α	6853356300	XYZ-6218658267		15453 ANIOMBRIAN ANDIR	AVER City	MD	08774	
ER-157	ASHELYN	ALTIA	В	2488321513	XYZ-6186661838		02105 ASHNICK BESTREVE	CEDSTLIMO City	MD	62747	
ER-173	ARKIN	BRASH	D	4186258872	XYZ-6526136621		83250 ALOISIA AAKA Street	CRABILTIA City	MD	87855	
ER-175	DHURNOROTT	BESTREVEAN	В	1182811616	XYZ-6538102030		30711 CEDSTLIMO ALTHIN	ADRAOI City	MD	56513	
ER-189	DERDI	BELGAN	В	8634563320	XYZ-6105280641		18672 BISPETH BRADI Street	BERFEL City	MD	20660	
ER-214	BANTI	CONI	В	6655673658	XYZ-6712880554		41252 AZRIFA'ARN ALGANJ	DANNON City	MD	60176	
ER-216	AGUILTHIR	ANDORAD	В	8785884663	XYZ-6478448522		32830 CAEM AUDRIANI Str	CADI City	MD	70707	
sults are so	arted by relevance to criteria. So	orting by a column will cause this or	der to he lost.	4040053354	10/7 04004 40000		72020 0 451 51 50 001000 0	4114711-01	140	67040	4

Which fields is search and how (perfect match, starts with or fuzzy search) depends on your registry's configuration. You can review the search criteria for your registry by clicking the question mark icon above the Rest button.

SEER*Rx Drugs and Regimens

The SEER*Rx Drugs and Regimens are available in the Search page. By default no drug is displayed. Click Search without providing a search term to display all the drugs.

SEER Abstracting Tool [DEMO]		- • ×
<u>File Show Action H</u> elp		
1 1 6. 3		
Patient Data 🟠 Facilities	Physicians 🖾 SEER*Rx dematopoletic and Lymphoid Database	
Search Text:		Θ
Results: 2,384	Data Last Updated: 10-24-2017 Search	Reset
Results	Drug Information	
[D] 1,25-Dihydroxyvitamin D3	tame	
[D] 1-Methyl-D-tryptophan	1,25-Dihydroxyvitamin D3	
[D] 1018-ISS	Alternate Name	
[D] 109881	Calciex	
[D] 1311-MIRC		
	Di-Vit-Sol	
	Multi-M	
	Rocatrol Tolerex	
	Vivonex T.E.N.	
	Category	
Dol 4 Us down when direction with	Differentiation inducing agent	
[D] 4-Nitroestrone		
I I I I I I 5 -Inosinic acid bolymers	Remarks	
	Differentiation Inducing Agent; Vitamin	
	Code	
[D] 5-FP	This drug should be coded	
[D] 566C80		
[D] 6-Azuridine [D] 6-Diazo-5-oxo-L-norleucine		
[R] 7+3		
[R] 8 in 1		
[D] 845 485		
[D] 935U83		
[D] 9OY-hPAM4		
[D] A 80967		
[D] A-77003 +		
<		
The online SEER website might contain more u	up-to-date information; dick the following link to open the website: https://seer.cancer.gov/seertools/seerrx/	
Logged in as depryf at FAC-0001 (TESTING	FACILITY 1)	Showing Search

To search for a particular drug or regimen:

- 1. Type one or several words in the **Search Text**.
- 2. Type **Enter** or click the **Search** button.
- 3. The results are displayed on the left side of the window; they are sorted by relevance to the search terms. The first result is selected by default; to view other drugs or regimens, use the up and down arrows to browse the list of results.
- 4. The drug or regimen selected in the Results list is shown on the right side of the window. The search terms found in the fields are displayed in red. The search is based on
 - a. Which field(s) contained the terms (a term found in the Generic Name will yield a higher score than one found in the Remarks for example).
 - b. How many times the term was found in the field(s).
 - c. Whether the terms was a perfect match to the field(s), or if the field(s) started with the term, or if the term was only contained in the field(s).
- 5. By default, if several terms are provided, they will all be required in search fields (this is an AND'ed query). To require any term instead (an OR'ed query), uncheck the Required all

terms checkbox. The terms are separated by a space; to search for a term containing a space, enclose it with double quotes.

- 6. To limit the search to drugs only, unselect the Search Regimens checkbox.
- 7. To limit the search to regimens only, unselect the Search Drugs checkbox.

The following screenshot shows a drug found for the term "adreno".



A complex algorithm is used to search the different fields contained in the drugs and regimens. To view which fields are searched and their corresponding weight, click the question mark button on top of the Reset button.

Regimens are displayed differently than the drugs; since they represent a set of drugs, the information panel shows which drugs make up the regimen. The following screenshot shows a regimen found for the term "AC".



Since the information panel can contain a lot of data, it might scroll. Therefore it is sometimes useful to be able to hide the Results panel and show the information on the full screen. To accomplish that use the Ctrl+< shortcut to hide the results (to extend the information panel to the left) and Ctrl+| to show it again (to come back to a split view). You can always change the amount of horizontal space that each panel uses by dragging the separation between them to the left or to the right.

Hematopoietic Disease Database

The Hematopoietic and Lymphoid Diseases are available in the Search page. By default no disease is displayed. Click Search without providing a search term to display all the disease.

By default, the application shows the diseases applicable to the current year. To switch to another applicable year (for coding old case for example), type the year in the Applicable Year text box.

SEER Abstracting Tool [DEMO]	
<u>File Show Action H</u> elp	
📓 🕏 🗟 🤇	3
🔄 Patient Data 🛛 🏠 Facilities	Physicians 🛃 SEER*Rx 🔥 Hematopoietic and Lymphoid Database
Search Text:	Image: Require all terms Applicable Year: 2017 Image: Optimized State
Results: 191	Hematopoietic Coding Manual Multiple Primaries Calculator Data Last Updated: 10-24-2017 Search Reset
Results	Disease Information
Acute basophilic leukemia	Name
Acute biphenotypic leukemia Acute erythroid leukemia	Acute basophilic leukemia
Acute erythold leakenia	ICD-0-1 Morphology
Acute monoblastic and monocytic leuk	9870/3 (effective 1978-1991)
Acute myeloid leukemia (megakaryobla	ICD-0-2 Morphology
Acute myeloid leukemia with inv(16)(p Acute myeloid leukemia with inv(3)(g2	9870/3 (effective 1992-2000)
Acute myeloid leukemia with maturatio	ICD-0-3 Morphology
Acute myeloid leukemia with minimal di	9870/3 (effective 2001 and later)
Acute myeloid leukemia with myelodys Acute myeloid leukemia with t(6;9)(p2	Reportable
Acute myeloid leukemia with t(8;21)(g	For cases diagnosed 1978 and later
Acute myeloid leukemia with t(9;11)(p	Primary Site(s)
Acute myeloid leukemia without matur;	
Acute myeloid leukemia, NOS Acute myelomonocytic leukemia	Primary Site(s) - Comments Primary site must be bone marrow (C421)
Acute panmyelosis with myelofibrosis	Grade
Acute promyelocytic leukemia with t(1	Code grade specified by pathologist. If no grade specified, code 9
Acute undifferentiated leukemia Adult T-cell leukemia/lymphoma	Definition
Aggressive NK-cell leukemia	An acute myeloid leukemia in which the primary differentiation is to basophils.
ALK-positive large B-cell lymphoma Amyloidosis	Rare form of acute myeloid leukemia where blasts are accompanied by abnormal basophils in all stages of differentiation.
Anaplastic large cell lymphoma, ALK-pc	Abstractor Notes
Anemia	Cutaneous involvement, organomegaly, lytic lesion, and symptoms relating to hyperhistaminemia may be present. Basophilic leukemia is differentiated from
Angioimmunoblastic lymphadenopathy 👻	other AML subtypes with basophilia using basophilia immunological markers, light microscopic cytochemistry for myeloperoxidase and electron microscopy.
The optime CEED we have a windth contain as	ore up-to-date information; click the following link to open the website: https://seer.cancer.gov/seertools/hemelymph
Logged in as depryf at FAC-0001 (TEST)	ING FACILITY 1) ABS : Mod (7) Showing Search

To search for a particular disease:

- 1. Type one or several words in the **Search Text**.
- 2. Type **Enter** or click the **Search** button.
- 3. The results are displayed on the left side of the window; they are sorted by relevance to the search terms. The first result is selected by default; to view other diseases, use the up and down arrows to browse the list of results.
- 4. The disease selected in the Results list is shown on the right side of the window. The search terms found in the fields are displayed in red. The search is based on
 - a. Which fields contained the terms (a term found in the Generic Name will yield a higher score than one found in the Remarks).
 - b. How many times the term was found in the fields.
 - c. Whether the terms was a perfect match to the field, or if the field started with the term, or if the term was only contained in the field.
- 5. By default, if several terms are provided, they will all be required in search fields (this is an AND'ed query). To require any term instead (an OR'ed query), uncheck the Required all

terms checkbox. The terms are separated by a space; to search for a term containing a space, enclose it with double quotes.

The following screenshot shows a disease found for the terms "leukemia" and "chronic".



A complex algorithm is used to search the different fields contained in the drugs and regimens. To view which fields are searched and their corresponding weight, click the question mark button on top of the Reset button.

Since the information panel can contain a lot of data, it might scroll. Therefore it is sometimes useful to be able to hide the Results panel and show the information on the full screen. To accomplish that use the **Ctrl+<** shortcut to hide the results (to extend the information panel to the left) and **Ctrl+|** to show it again (to come back to a split view). You can always change the amount of horizontal space that each panel uses by dragging the separation between them to the left or to the right.

HematoDB Multiple Primaries Calculator Tool

The Multiple Primaries Calculator is the last step of a more complex procedure to identify multiple primaries. Please refer to the Hematopoietic Manual for more information.

1	🖉 Hemat	toDB Multiple Primaries Calculator - SEER*Abs	
	Code	e 1 Code 2 Calculate View	v Manual
	ſ		
Ì		Enter two disease codes and click Calculate or press Enter. You may enter histology codes (9999) or histology/behavior (9999/9)).
		Itiple Primaries Calculator was designed to be used in conjunction with the coding manual. Follow the rules and we nanual prior to using the calculator. Use the Multiple Primaries Calculator when the rules instruct you to do so.	orkflow

To use the Multiple Primaries Calculator:

- 1. Click the **Multiple Primaries Calculator** button.
- 2. Enter two histology codes with or without the behavior (so "8000" or "8000/3").
- 3. Click the **Calculate** button or type Enter. The results will be displayed in the middle of the window.

HematoDB Multiple Primaries Calculator -	SEER*Abs	
Code 1 9800/3 Code 2 9875/3	Calculate	View Manual
	Come Drivery	
	Same Primary	
	igned to be used in conjunction with the coding manual. Follow the rule	

Note that the Multiple Primaries Calculator is part of a more complex set of rules to evaluate single vs multiple primaries. Those rules (the MP rules) are also available in the application via the tool bar in the record editor.

Section 6: Synchronizing SEER*Abs with the Central Registry

The Synchronization module allows you to update your copy of SEER*Abs with data from the registry's main database; and it allows you to create extracts that can be used to submit your data to the registry. Data imported into SEER*Abs include AFLs requiring attention and reference data. The reference data includes lookup tables, facility and contact lists, consolidated patient data, and unconsolidated patient records.

The type of the reference data and how it is imported is configured differently in each Registry. The following screenshot shows all the available synchronization methods, but in general, only a few will be configured in each registry.

The following buttons might be available on the synchronization page:

- **Create Data Files**: click this button to create an extract with the data that is ready to be extracted. That is the most common way of exporting data out of SEER*Abs.
- **Update Central Registry Database**: click this button to update the Central Registry's data using a direct database access. Most Registries won't allow that for security reasons.
- **Update Central Registry**: click this button to update the Central Registry's data using Web Services calls.
- **Recover Extracted Data File**: the application keeps backups of the last few extracts that were created; use this button to re-create an extract that was lost before being imported into the Central Registry.
- **View Export History**: click this button to see a summary of all exports that have been done using the application, using any of the methods just described.
- Load from Data Files: click this button to import a data file (local to the laptop or on a shared network).
- **Query Central Registry Database**: click this button to download data by making a direct connection to the Central Registry's database.
- **Get Data from Central Registry**: click this button to download data by making web services call to the Central Registry.
- **Import Data**: click this button to download data using a method that has been customized for your registry only.
- **View Import History**: click this button to see a summary of all imports that have been done using the application, using any of the methods just described.

Exporting Data

Updated AFLs and completed records can be exported from SEER*Abs into external files for submission to the central registry, through a direct database update or through web services (only the first method is enabled in the default configuration provided with the application).

To export record and/or AFLs:

- Go to the Synchronization page (press F4; click the Synchronization toolbar icon; or select Show -> Synchronization).
- 2. In the **Export Data** section, click the **Create Data Files** button. The following dialog will be displayed:

Synchronization Options - SEER*	Abs	×
Select the type(s) you would like to or by editing the text box.	extract; you can modify the target file name and the target folder by using the Brow	se button
Select All Clear All		
Abstract Records (1)	E:\seerabs\test\output\abs_20110804_085750_001.txd	Browse
Abstract Facility Leads (0)		Browse
	OK Cancel	

- 3. Check the data types you wish to export.
 - a. The number of records/AFLs that can be extracted is shown in parenthesis after the data type label; if a particular type has no entity that can be extracted, it will be disabled.
 - b. The system generates a unique file name for the extract. You can modify the file name by editing it in the text box, or you can use the browse button to select a different location.
 - c. It is recommended that you extract Abstracts whenever you extract AFLs and vice versa.
- 4. Click **OK**. SEER*Abs will execute each script and indicate whether the script executed successfully or if errors were encountered.



5. Click Close.

Once the process is done, the extracted records/AFL will be flagged as ARCHIVED. Archived entities are read-only and cannot be modified anymore.

To view the history of the exports, click the **View Export History** button. A dialog will be displayed with a table containing one row for each extracted data type. Click on one of the columns to sort the rows according to the data contained in the column.

Synchronization History - SEER*Abs							
Username	Date	Data Type	Method	Information			
depryf	08/04/2011 9:01 AM	Abstract Record	Extract	E:\seerabs\test\output\abs_20110804_085750_001.txd			
				(manual)			
Close							

Importing Data

Data can be imported into SEER*Abs directly from external files, by making a direct connection to a database, or by using web services. The IT staff responsible for configuration the application should tell you which method will be used in your registry. If importing files is enabled, an **Import Data File** button will be shown on the synchronization page; if downloading data from the Central Registry's database is enabled, a **Query Central Registry Database** button will be shown; if using web services is enabled, a **Get Data from Central Registry** button will be shown. If external files are used, please be sure you understand when new files will be created for your use.

There are several types of data that can be imported.

- 1. **Lookup** The codes and corresponding meanings for the various fields in SEER*Abs. This must be imported before you can begin using SEER*Abs.
- 2. **Facility** The facilities (hospitals, labs, etc) associated with your registry. This must be imported before you can begin using SEER*Abs. This allows you to indicate where you are collecting data when you log in, as well as capture where events occurred in the records you are creating.
- 3. **Physicians** The physicians associated with your registry. This should be imported before you begin using SEER*Abs. This allows you to capture which doctors interacted with the patients in the records you are creating.
- AFL Abstract Facility Leads (AFLs) represent the tasks within SEER*Abs. An AFL should contain enough information about the patient (e.g. Name, SSN, DOB, etc), the cancer (e.g. Site, Laterality, Date, etc) and facility (Facility ID) to enable you to create the desired abstracts. This should be imported before you begin using SEER*Abs.
- 5. Reference Data Data already captured in the central registry. This would allow you to review what is already known about the patient and cancer before you create a new record. Not all registries will choose to have this information available to their abstractors. If your registry does provide this information, then the reference data should be imported before you begin using SEER*Abs. Reference data can include the following (as originally shipped), but the exact types would be controlled by the configurations set by your registry staff.
 - a. Patient the consolidated information for a patient, all their related tumors and whatever admission and treatment information your registry chooses to provide.
 - b. Record (NAACCR) –Abstracts in NAACCR format that has arrived at the central registry but has not yet been processed; data that is unlinked and unconsolidated.

c. Again, the exact components of the reference data, or even if it is available at all, are controlled by your registry.

You should import data into SEER*Abs before you start to use SEER*Abs in the field. Since the information in the central registry is constantly being updated, this import should be done regularly.

To import data into SEER*Abs:

- Go to the Synchronization page (press F4; click the Synchronization toolbar icon; or select Show -> Synchronization).
- 2. In the **Import Data** section, click the button corresponding to the synchronization method you wish to use:
 - a. **Database** or **Web Services**: a dialog will be displayed; select the data types you wish to download.

Synchronization Options - SEER*Abs
Select the type(s) you would like to download.
Select All Clear All
✓ Lookups
Facilities
Physicians
Abstract Facility Leads
V Patient Sets
VAACCR Records
OK Cancel

b. **Data Files**: a dialog will be displayed; select the data types you wish to download and provide the location of each data file.

Synchronization Options - SEER*Abs	X
Select the type(s) you would like to import; you have to provide a source file for any type	that is selected.
Select All Clear All	
Cookups	Browse
Fadiities	Browse
Physicians	Browse
Abstract Facility Leads	Browse
Patient Sets	Browse
NAACCR Records	Browse
OK Cancel	

- 3. Click **OK**.
- 4. If you have selected the method to access the Central Registry's database, you will be presented with a Remote Login screen. The information about the databases you can connect to will be based on configurations set by your registry staff. They should provide you with the information below.
 - a. Select the database you wish to Connect To.
 - b. Enter the username for that database (there might be a default username provided).
 - c. Enter the password for that database.
 - d. Click Login.
- 5. If you have selected the method to use Web Services, you will be presented with a Login screen asking you to provide your SEER*Abs password. The information about the web server you can connect to will be based on configurations set by your registry staff. They should provide you with the information below.
 - a. Select the server you wish to Connect To.
 - b. Enter your SEER*Abs password
 - c. Click OK.
- 6. The Synchronization Progress dialog will appear. The download takes time to complete, the exact length of which will vary by how much data you are importing.

Zask Progress - SEER*Abs	×
wanning Allentonipaton period for receiver	
> deleting previous facilities	
> deleted previous facilities in 0.058s	
> persisted last 333, persisted 333 facilities in 0.59s	
Successfully ran script	
Running synchronization script for Physicians	
> deleting previous physicians	
> deleted previous physicians in 0.038s	
> persisted another 5000 in 3.72s, persisted 5000 so far	
> persisted last 2353, persisted 7353 physicians in 5.138s	
Successfully ran script	
Running synchronization script for Abstract Facility Leads	
> deleting previous 'NOT PROCESSED' AFLS	
> deleted 0 'NOT PROCESSED' AFLs in 0.02s	
> persisted last 93, persisted 93 AFLs in 0.318s	
Successfully ran script	
Running synchronization script for Patient Sets	
> deleting previous patients	
> deleted previous patients in 0.121s	
> persisted last 1, persisted 1 patients in 0.157s	
Successfully ran script	
Running synchronization script for NAACCR Records	
> deleting previous NAACCR records	E
> deleted previous NAACCR records in 0.04s	
> persisted last 1983, persisted 1983 NAACCR records in 5.449s	
Successfully ran script	
Done executing requested script(s) in 12 seconds	-
	Close

7. Click Close.

Once the process is done, the imported data will be available in the application.

To view the history of the imports, click the **View Import History** button. A dialog will be displayed with a table containing one row for each data type imported. Click on one of the columns to sort the rows according to the data contained in the column.

Jsername	Date	Data Type	Method	Information
depryf	08/04/2011 10:06 AM	Physician	Import	E: \projects \seerabs \test \com \imsweb \seerabs \testing \data \physician.txt
depryf	08/04/2011 10:06 AM	Patient Set	Import	E: \projects \seerabs \test \com \imsweb \seerabs \testing \data \patient. txt
depryf	08/04/2011 10:06 AM	NAACCR Record	Import	E: \projects \seerabs \test \com \imsweb \seerabs \testing \data \naaccr.txt
depryf	08/04/2011 10:06 AM	AFL	Import	E:\projects\seerabs\test\com\imsweb\seerabs\testing\data\afl.txt
depryf	08/04/2011 10:05 AM	Lookup	Import	E:\projects\seerabs\test\com\jmsweb\seerabs\testing\data\lookup.txt
depryf	08/04/2011 10:05 AM	Facility	Import	E:\projects\seerabs\test\com\imsweb\seerabs\testing\data\facility.txt

Recovering an extracted data file

SEER*Abs keeps the last 10 extract files for each data type in its database and allow them to be re-created in case they were not been successfully transmitted to the registry.

To recover an extract:

- Go to the Synchronization page (press F4; click the Synchronization toolbar icon; or select Show -> Synchronization).
- 2. Click the Recover Data File button.



- 3. Double click on the row of the extract that needs to be re-created.
- 4. Click the **Yes** button of the confirmation dialog.
- 5. Click **OK** and **Close**.
- 6. The file is re-created in the output folder. To open that folder and verify that the file is there, select **Show -> Output Folder**.