



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Prenatal Care Module Electronic Health Record (EHR) Graphical User Interface (GUI)

(BJPN)

Installation Guide and Release Notes

Version 1.0
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Office of Information Technology (OIT)
Division of Information Resource Management
Albuquerque, New Mexico

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1.0 Release Notes

Version 1.0 is the first release of the Electronic Health Record (EHR) Prenatal Care Module (PCM). The site should have already installed EHR. PCM version 1.0 includes functionality to incorporate two new Prenatal modules, the Prenatal Issues and Problem List (PIP) and the Prenatal Pick List (PPL).

The intended audiences for this document are Indian Health Service (IHS) site managers and other technical staff.

2.0 Installation Notes

Prefix: BJPN

Current Version: 1.0

2.1 Contents of Distribution

Table includes the distribution file names and their descriptions

Table 2-1: Distribution File Names and Descriptions

File	Description
bjpn0100.k	Version 1.0 KIDS installation file
bjpn0100GUI.zip	Version 1.0 EHR Prenatal installation files in WINZIP format
bjpn010i.pdf	Version 1.0 Installation Guide
bjpn010u.pdf	Version 1.0 User Manual
bjpn010t.pdf	Version 1.0 Technical Manual

2.2 Required Resources

2.2.1 Resource and Patient Management System (RPMS)

The RPMS server portion of the PCM application does not require a specific version of Cache® or a specific operating (OS). However, the RPMS server must be able to fully support BMXNet (BMX) 4.0 or higher, and is therefore subject to any requirements needed to run that application. Please refer to the BMX version 4.0 Technical Manual for details.

Note: BMX version 4.0 and BJPC*2.0*7 are pre-requisite releases for the Prenatal Care Module Version 1.0 and must be installed prior to the installation of PCM KIDS release.

Required RPMS server software:

Table 2-2: Required RPMS Server Software

Module	Minimum Version
Veterans Administration (VA) FileMan (DI)	v22.0 Patch 1003
VA Kernel (XU)	v8.0 Patch 1015
BMXNet (BMX)	v4.0
IHS/VA Utilities (XB)	v3.0 through Patch 11

Module	Minimum Version
Patient Care Component PCC Data Entry (APCD)	v2.0 through Patch 10
IHS PCC Suite (BJPC)	v2.0 Patch 7
EHR 1.1	v1.1 Patch 10

2.3 Before You Begin: Installation Issues

- Make a copy of this distribution for offline storage.
- Print all notes and readme files.
- To ensure a printed audit trail if any problems arise, capture the terminal output during the installation using an auxport printer attached to the terminal.

3.0 Installation Instructions

The PCM contains components that run on both the RPMS server and the client Personal Computer (PC) via EHR. Installation of the RPMS server components is conventional and consists of a Kernel Installation and Distribution System (KIDS) build. In addition, a setup file to install required Dynamic Linked Library (dll) files into EHR is included.

3.1 Disk Space

With Version 1.0 of Prenatal, approximately 14 MB of disk space on the server is needed for the bjpn0100.exe to install the required dll files in EHR.

3.2 Pre-installation

Before installing the PCM application, the following items should be completed (in no particular order):

- If possible, initially load the software into a test account, then into the production account. There are no routines or globals to remove after the installation is complete.
- Refer to the remaining installation steps and sample installations (Sections 3.3 through 4.2) for the applicable prompts and user responses. User responses appear in bold type.
- Ensure that the BMX system is installed and that a BMX monitor process is running. BMX's Integrated Security feature allows EHR sessions to connect to RPMS without having to re-specify access and verify codes every time. For this feature to work, the integrated security field of the BMX monitor port must be set to Yes. See the BMX User and Installation Manuals for details on BMX.

3.3 RPMS Server Install

The follow steps describe the process to install the KIDS build associated with the PCM release:

1. On the RPMS server, load and install the bjpn0100.k file using the KIDS menu options. From the **KIDS** menu, select the **Installation** menu.
2. From the **Installation** menu, select **Option 1: Load a Distribution**.
3. At the "Enter a Host File" prompt, type **bjpn0100.k**. It might be necessary to precede the file name with the appropriate host path.
4. "At the Want to Continue with Load? YES//'" prompt, type **Yes** (or press the ENTER key to accept the default).

5. From the **Installation** menu, select **Option 2: Verify Checksums in Transport Global**. This option provides a mechanism for ensuring the integrity of your routines, verifies checksums for the components of the Transport global, and reports any errors uncovered.
6. At the “Select Install Name” prompt, type **PRENATAL CARE MODULE 1.0**.
7. The following KIDS options are not required but can be run if desired. If either of the options are run, at the “Select Install Name” prompt, type **PRENATAL CARE MODULE 1.0**.
 - a. Back Up a Transport Global – this option creates a MailMan message that will back up all current routines on the system that would be replaced by this release. Because this is a new release, no files will be replaced.
 - b. Compare Transport Global – this option performs a comparison check between the current system and the changes included with the installation.
8. From the **Installation** menu, select the **Install Packages(s)** option.
9. At the “Select Install Name” prompt, type **PRENATAL CARE MODULE 1.0**.
10. Respond to the following prompts as indicated:
 - a. At the “Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//” prompt, type **NO**.
 - b. At the “Want KIDS to INHIBIT LOGONs during the install?//YES” prompt, type **NO**.
 - c. At the “Want to DISABLE Scheduled Options, Menu Options and Protocols?// YES” prompt, type **NO**.
11. Type the device that will print the install messages.
12. Exit the Installation menu.

3.4 Prenatal EHR setup Installation

The installation of the bjpn0100.exe must be coordinated with the installation of the KIDS on the RPMS server so that the EHR is ready after the KIDS is installed.

To install the prenatal GUI components in the EHR library, run bjpn0100.exe. The setup process will prompt the user for which components they wish to install. Generally, both the EHR Pregnancy Issues and Problems and EHR Prenatal Pick List components should be installed.

Before installing, it is necessary to find out the location on the server to install the new files.

4.0 Sample RPMS Servicer Installation

Note: User responses appear in bold type.

Figure 4-1 shows how to select the KIDS Installation menu:

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

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

Select Kernel Installation & Distribution System Option: Installation

1   Load a Distribution
2   Verify Checksums in Transport Global
3   Print Transport Global
4   Compare Transport Global to Current System
5   Backup a Transport Global
6   Install Package(s)
    Restart Install of Package(s)
    Unload a Distribution

Select Installation Option: 1   Load a Distribution
```

Figure 4-1: Selecting installation option

Other prompts are shown in Figure 4-2:

```
Enter a Host File: D:\RPMS_TST\bjpn0100.k <enter> *Note a different path may be
required here

KIDS Distribution saved on Jul 16, 2012@08:15:49
Comment: PRENATAL CARE MODULE 1.0

This Distribution contains Transport Globals for the following Package(s):
    PRENATAL CARE MODULE 1.0

Distribution OK!

Want to Continue with Load? YES// <enter>
Loading Distribution...

    PRENATAL CARE MODULE 1.0
Use INSTALL NAME: PRENATAL CARE MODULE 1.0 to install this Distribution.

1   Load a Distribution
2   Verify Checksums in Transport Global
3   Print Transport Global
4   Compare Transport Global to Current System
5   Backup a Transport Global
6   Install Package(s)
    Restart Install of Package(s)
    Unload a Distribution
```

```
Select Installation Option: 2 Verify Checksums in Transport Global
Select INSTALL NAME:      PRENATAL CARE MODULE 1.0      Loaded from Distribution
Loaded from Distribution  7/16/12@08:17:01
=> PRENATAL CARE MODULE 1.0 ;Created on Jul 16, 2012@08:15:49

This Distribution was loaded on Jul 16, 2012@08:17:01 with header of
PRENATAL CARE MODULE 1.0 ;Created on Jul 16, 2012@08:15:49
It consisted of the following Install(s):
PRENATAL CARE MODULE 1.0

Want each Routine Listed with Checksums: Yes//  YES
DEVICE: HOME//  VT

PACKAGE: PRENATAL CARE MODULE 1.0      Jul 16, 2012 8:17 am      PAGE 1
-----

BJPN10PR  Calculated      2327783
BJPN10PS  Calculated      75362176
BJPNAPI   Calculated      62958409
BJPNAPI1  Calculated      51586039
BJPNPDET  Calculated     124256629
BJPNPKL   Calculated      76336638
BJPNPRL   Calculated     132506744
BJPNPRNT  Calculated      53450695
BJPNPRUT  Calculated      72216109
BJPNPUP   Calculated     166423134
BJPNPUTL  Calculated     196109122
BJPNVFIL  Calculated      38961390

12 Routines checked, 0 failed.

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
Restart Install of Package(s)
Unload a Distribution

Select Installation Option: 6 Install Package(s)
```

Figure 4-2: Installing the Prenatal Care Module

Figure 4-3 shows an example of an installation of the build:

```
Select Installation Option:
1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
Restart Install of Package(s)
Unload a Distribution

Select Installation Option: Install Package(s)
Select INSTALL NAME:      PRENATAL CARE MODULE 1.0      Loaded from Distribution
```

```
Loaded from Distribution 7/16/12@08:17:01
=> PRENATAL CARE MODULE 1.0 ;Created on 7/16/12@08:17:01

This Distribution was loaded on Jun 22, 2012@10:55:44 with header of
PRENATAL CARE MODULE 1.0 ;Created on Jun 22, 2012@10:53:49
It consisted of the following Install(s):
PRENATAL CARE MODULE 1.0
Checking Install for Package PRENATAL CARE MODULE 1.0

Install Questions for PRENATAL CARE MODULE 1.0

Incoming Files:

90680.01 BJPN PRENATAL PROBLEMS
Note: You already have the 'BJPN PRENATAL PROBLEMS' File.

90680.02 BJPN SNOMED TERMS (including data)
Note: You already have the 'BJPN SNOMED TERMS' File.
I will OVERWRITE your data with mine.

90680.03 BJPN PICK LISTS (including data)
Note: You already have the 'BJPN PICK LISTS' File.
I will OVERWRITE your data with mine.

9000010.43V OB
Note: You already have the 'V OB' File.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//<enter>

Want KIDS to INHIBIT LOGONS during the install? NO// <enter>
Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO// <enter>

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

DEVICE: HOME// VT
-----

Install Started for PRENATAL CARE MODULE 1.0 :
Jul 16, 2012@08:17:13

Build Distribution Date: Jul 16, 2012

Installing Routines:
Jul 16, 2012@08:17:13

Running Pre-Install Routine: PRE^BJPN10PR

Installing Data Dictionaries:
Jul 16, 2012@08:17:14

Installing Data:
Jul 16, 2012@08:17:15

Installing PACKAGE COMPONENTS:
```

```
Installing REMOTE PROCEDURE

Installing OPTION

Installing PARAMETER DEFINITION
      Jul 16, 2012@08:17:15

Running Post-Install Routine: PST^BJPN10PS
Registering the Vucentric Objects...
FILE:INFRAGISTICS2.EXCEL.V10.3.DLL
FILE:INFRAGISTICS2.SHARED.V10.3.DLL
FILE:INFRAGISTICS2.WIN.MISC.V10.3.DLL
FILE:INFRAGISTICS2.WIN.ULTRAWINGRID.EXCELEXPOR.V10.3.DLL
FILE:INFRAGISTICS2.WIN.ULTRAWINGRID.V10.3.DLL
FILE:INFRAGISTICS2.WIN.ULTRAWINPRINTPREVIEWDIALOG.V10.3.DLL
FILE:INFRAGISTICS2.WIN.ULTRAWINSTATUSBAR.V10.3.DLL
FILE:INFRAGISTICS2.WIN.ULTRAWINTOOLBARS.V10.3.DLL
FILE:INFRAGISTICS2.WIN.V10.3.DLL
FILE:INFRAGISTICS2.WIN.ULTRAWINLISTBAR.V10.3.DLL
FILE:INFRAGISTICS2.WIN.ULTRAWINLISTVIEW.V10.3.DLL
FILE:RICHTEXTBOXPRINTCONTROL.DLL
IHS.PN.EHR.PRENATALPICKLIST.PRENATALPICKLISTCOMPONENT
IHS.PN.EHR.PRENATALPROBLEMLIST.PIPCOMPONENT

Updating Routine file...

Updating KIDS files...

PRENATAL CARE MODULE 1.0 Installed.
      Jul 16, 2012@08:17:15

Not a VA primary domain

Install Completed
```

Figure 4-3: Sample Installation

4.1 Post Installation RPMS Parameter Definition

The Prenatal KIDS installation contains two new parameters relating to the new Prenatal components: The BJPN DISABLE PRENATAL EDITING parameter and the BJPN POST DEDD DAYS parameter.

4.1.1 BJPN DISABLE PRENATAL EDITING

The Prenatal components are accessible to users who have existing access to the regular EHR Problem List functionality. If there are specific users or user classes who should not have access to the new Prenatal components they can be set up in the new BJPN DISABLE PRENATAL EDITING parameter.

Figure 4-4 shows how to set the BJPN DISABLE PRENATAL EDITING parameter:

```

Select OPTION NAME:  XPAR EDIT PARAMETER          Edit Parameter Values
Edit Parameter Values
                    --- Edit Parameter Values ---

Select PARAMETER DEFINITION NAME:  BJPN DISABLE PRENATAL EDITING
Disable Prenatal Editing

BJPN DISABLE PRENATAL EDITING may be set for the following:

    100 User          USR      [choose from NEW PERSON]
    200 Class         CLS      [choose from USR CLASS]

Enter selection: 100 User NEW PERSON
Select NEW PERSON NAME:  USER, EXCLUDED

----- Setting BJPN DISABLE PRENATAL EDITING for User: USER, EXCLUDED -----
Value: YES

BJPN DISABLE PRENATAL EDITING may be set for the following:

    100 User          USR      [choose from NEW PERSON]
    200 Class         CLS      [choose from USR CLASS]

Enter selection:
    
```

Figure 4-4: Excluding users from access to the Prenatal components

4.1.2 BJPN POST DEDD DAYS

The Prenatal components contain a new parameter which allows users to control the number of days after a patient’s Definitive Estimated Date of Delivery (EDD) in which the patient’s prenatal PIP can still be edited. Placing a positive numerical value in this field will allow the patient’s PIP to be edited up until the number of days specified after the EDD. For example, placing a “50” in this field will allow patient PIPs to be edited up to ‘50’ days following the patients’ DEDD. If no value is specified in this field, a default of “70” days is used.

Figure 4-5 shows how to set the BJPN POST DEDD DAYS parameter:

```

Select OPTION NAME:  XPAR EDIT PARAMETER          Edit Parameter Values
Edit Parameter Values
                    --- Edit Parameter Values ---

Select PARAMETER DEFINITION NAME:  BJPN POST DEDD DAYS  Prenatal Post EDD Dat
a Entry Days
----- Setting BJPN POST DEDD DAYS for System: 2011 DEMO-HO.ABQ.IHS.GOV -----
Number of Days: 75
-----
Select PARAMETER DEFINITION NAME:
    
```

Figure 4-5: Defining the number of allowable days (post DEDD) to allow edits of a patient's PIP

4.2 Post Installation Prenatal User Setup

In order for users to be able to access the new PCM components, their user definitions must be modified. Any user desiring access to the PCM components must be assigned both the “BMXRPC” and “BJPNRPC” options as secondary menu options in their RPMS user profile. Failure to do so will result in a screen similar to the following figure when attempting to access the prenatal components. Figure 4-6 shows a sample screen which displays if either of the above options have not been assigned as secondary menus for a particular user:

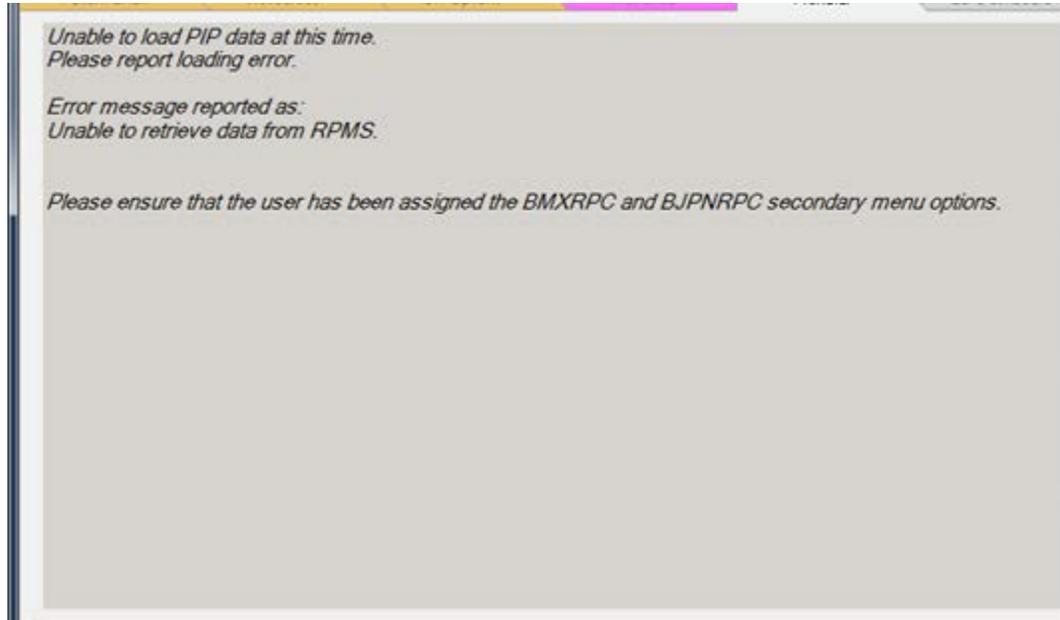


Figure 4-6: Screen detailing an issue with the user's definition

4.3 Sample GUI Client Installation

The following section outlines the installation procedures for loading Prenatal EHR setup files:

1. Navigate to the folder on the client machine that contains the Prenatal EHR setup program and launch the bjpn0100.exe program. Figure 4-7 shows a sample display of the bjpn0100.exe program location:

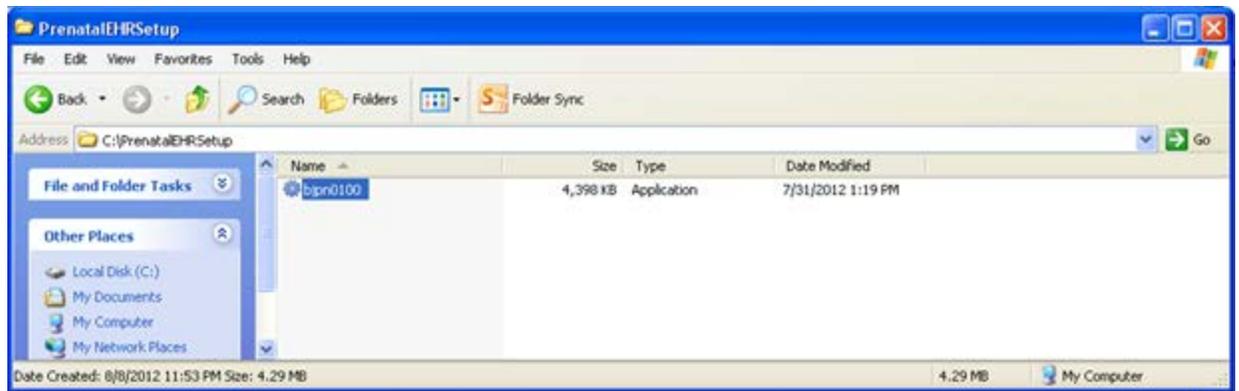


Figure 4-7: bjpgn100.exe program

2. Click **I Agree** on the **License Agreement** screen to continue, shown below in Figure 4-8:

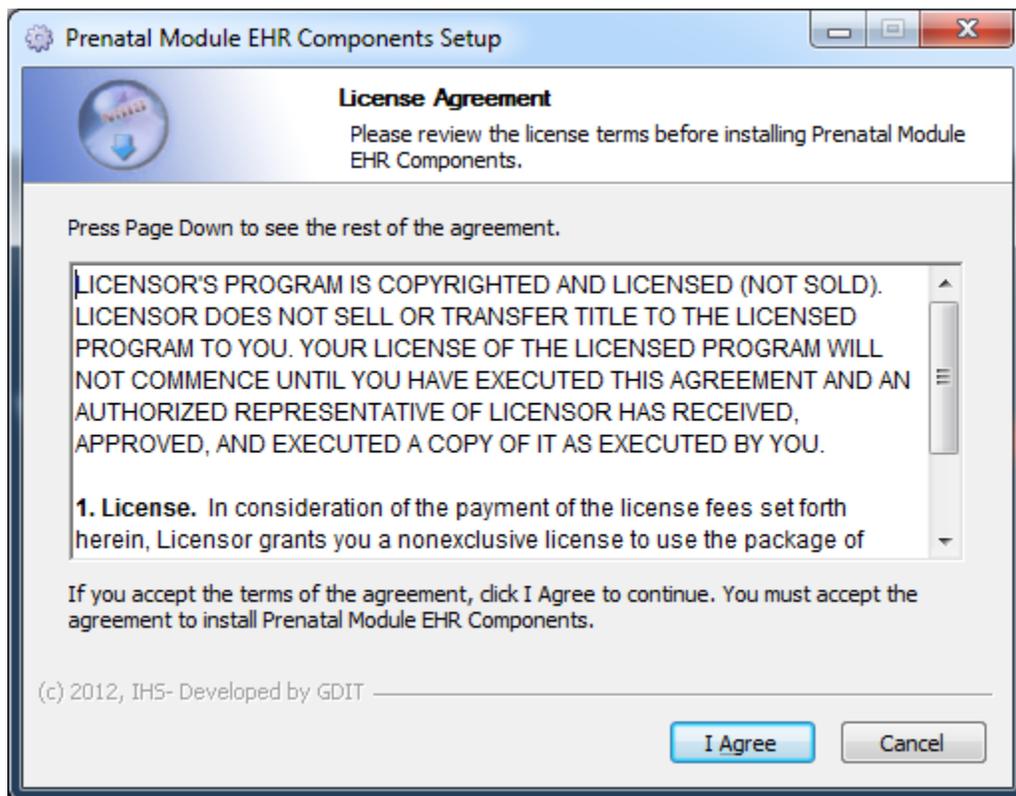


Figure 4-8: License Agreement screen

3. In the **Choose Components** screen (shown below in Figure 4-9), choose to install EHR Prenatal Component Problem List and the EHR Prenatal Component Pick List. Click **Next** to continue.

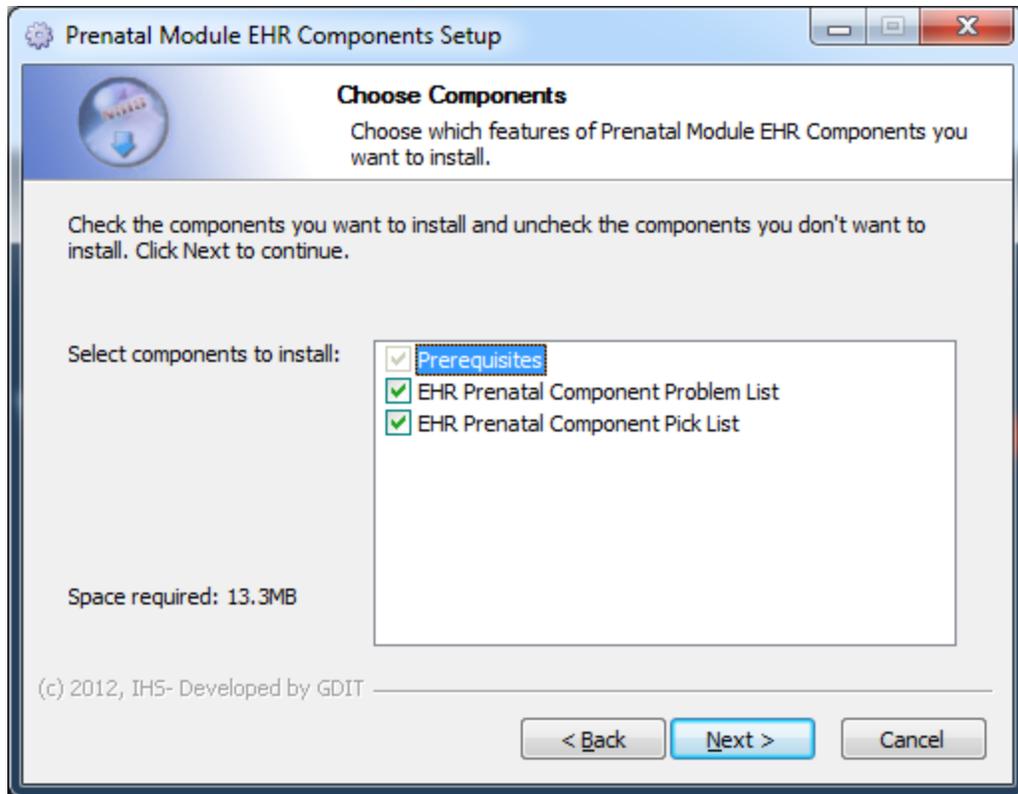


Figure 4-9: **Choose Components** Folder screen

4. In the **Choose Install Location** screen (shown below in Figure 4-10), select the location where to install Prenatal EHR setup files. Click **Install** to continue.

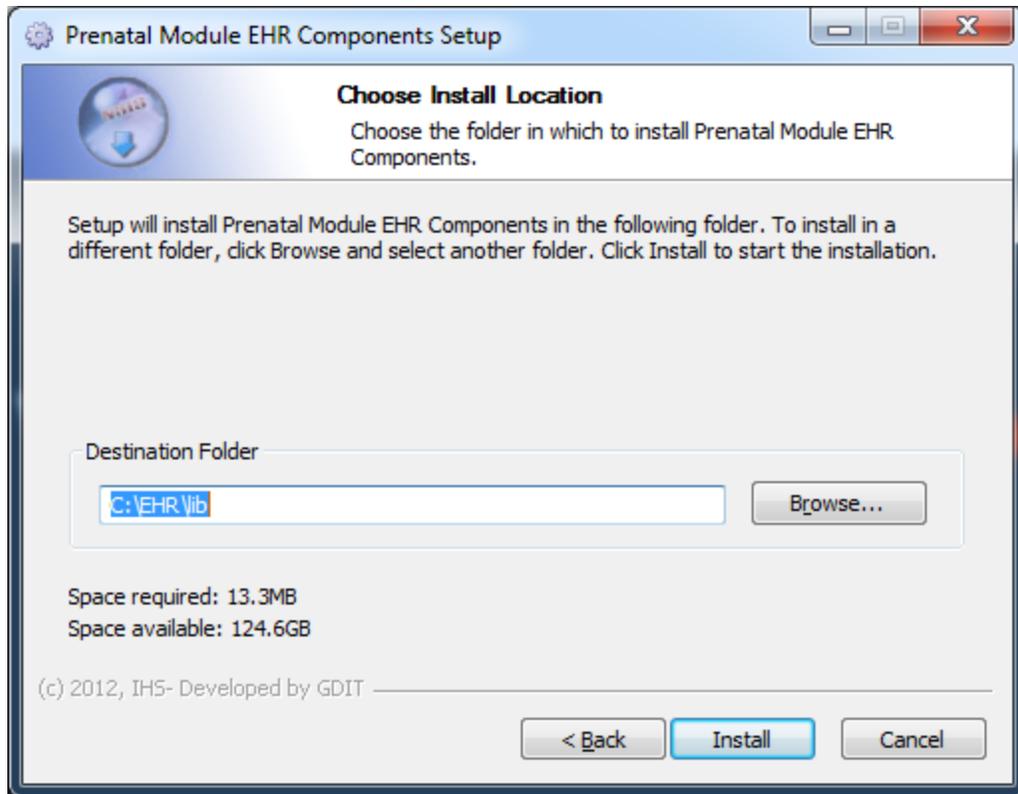


Figure 4-10: **Choose Install Location** screen

5. Click **Finish** to complete the installation. See Figure 4-11 for a display of this step:

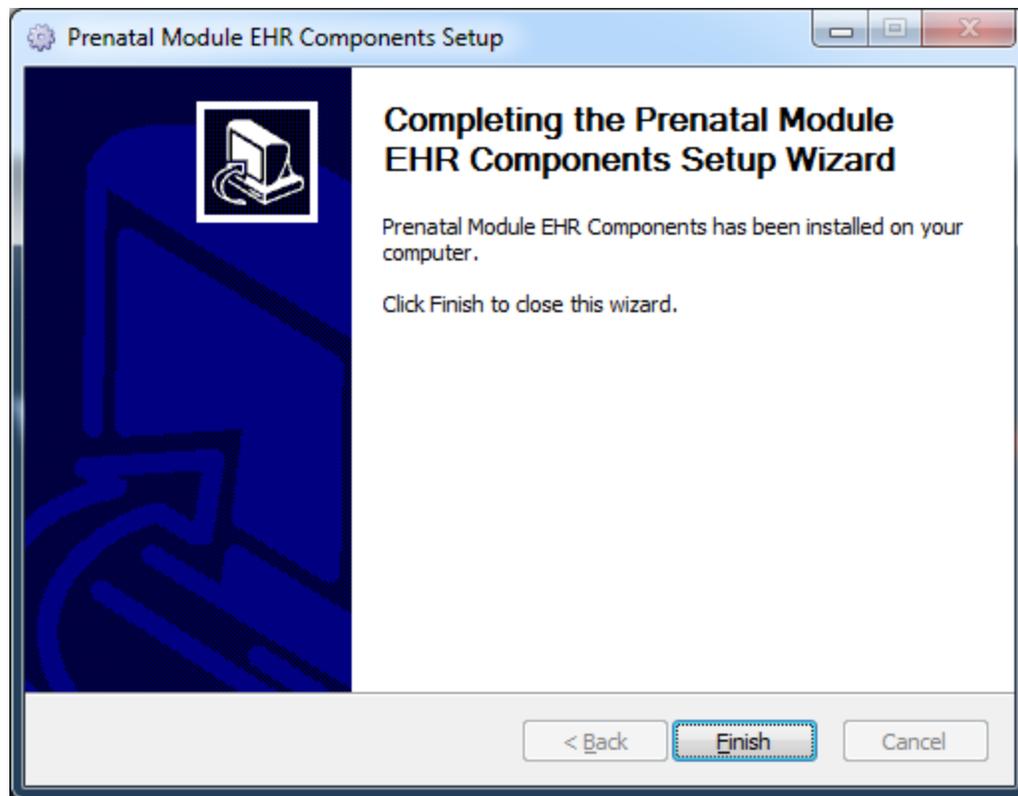


Figure 4-11: Installation Complete screen

6. Click **Close** to complete the installation.

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (505) 248-4371 or (888) 830-7280 (toll free)

Fax: (505) 248-4363

Web: <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

Email: support@ihs.gov