



RESOURCE AND PATIENT MANAGEMENT SYSTEM (RPMS)

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

(BJPN)

**User Guide**

Version 1.0  
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## Preface

The purpose of this manual is to provide users with the information needed to use the Indian Health Service (IHS) Electronic Health Record (EHR) Prenatal Care Module (PCM) components which have been developed and released under the new BJPN namespace. The PCM is composed of two Windows®-based Graphical User Interface (GUI) components within the EHR. The PCM allows users to manage prenatal problems and issues for a patient during pregnancy. The Pregnancy Issues and Problem List (PIP) component serves to maintain the list of issues and risks associated with both current and all pregnancies for providers to consider the prenatal issues associated with the pregnancy in the context of all similar problems. The Prenatal Pick List (PPL) component provides a quick way to locate and add or remove problems from the PIP.

## 1.0 Introduction

This manual contains reference information about the PCM views and step-by-step procedures to show users how to perform the activities supported by the component.

### 1.1 Background

The traditional EHR Problem List provides a concise inventory of a patient's medical conditions. The list keeps critical patient problem information "on the surface" where the problems can be reviewed quickly and easily. In addition, the list keeps diagnoses from getting lost in the record and makes it simple to evaluate a single diagnosis within the overall context of a patient's other active medical conditions. This problem list is the focal point of problem-oriented medical record keeping.

Past experience suggests that it is useful to maintain a pregnancy-specific problem list that provides a focused summary of problems associated with a patient's pregnancy. This new pregnancy-specific problem list is referred to as the PIP. The content is non-redundant with respect to the traditional EHR Problem List file. That is, problem entries logged to the PIP will not also be resident on the EHR Problem List.

Aside from limiting its context to a single pregnancy, the PIP differs from the traditional problem list in two important ways:

1. Equal emphasis is given to documenting medical conditions and risk factors
2. PIP entries have "scope"; namely, each entry is limited to the current pregnancy or to all pregnancies

### 1.2 Prenatal Care Module

The PCM is intended to allow providers to see a pregnancy-specific problem list that provides a focused summary of problems associated with a single pregnancy.

The PCM can help IHS providers by:

- Providing a pregnancy specific problem list to track problems and issues related to the current pregnancy or all pregnancies.
- Providing the ability for the provider to clarify the issue with provider text to be included with the Systematized Nomenclature of Medicine--Clinical Terms (SNOMED CT®) term associated with the problem.
- Providing the ability to enter provider notes associated with the prenatal problem.
- Providing the ability to set the problem as today's Purpose of Visit (POV).
- Providing the ability to include the problem list and notes in a progress notes using Text Integration Utility (TIU) objects.

- Providing the ability to include the problem list and notes in a Health Summary (HS) using HS objects.

## 2.0 Using Prenatal Care Module Features

This section provides an overall look at the design and functions of the main screen elements of the PCM.

The core concept of the Prenatal Care Module Version 1.0 is the PIP. The PIP is a list of issues and problems associated with a patient's pregnancy that the user has added by selecting individual problems from the PPL. The PPL will present the user with a default set of common pregnancy issues and problems. The list will be delivered pre-populated with coded entries agreed upon by IHS subject matter experts and will not be site-editable in Version 1.0.

### 2.1 Pregnancy Issues and Problems List

The PIP component displays the list of issues and problems associated with a patient's pregnancy. This list is manageable by the user, allowing additions, edits and deletes, as necessary.

Users who hold any of the ORES/ORELSE/PROVIDER keys are viewed as clinical users and have full access privileges to all problem list options. Users with the BGOZ PROBLEM LIST EDIT key can add or edit the problem list. Users with the BGOZ VIEW ONLY key can view information but cannot edit data in this component.

A new parameter BJPN DISABLE PRENATAL EDITING has also been included with the release of the Prenatal Care Module Version 1.0. Users or users subscribed to a User Class entered into this parameter will have view only access to the PCM, regardless of the security keys they hold.

The PIP window (also known as the PIP component) has the following features:

Radio buttons by the PIP label determines what problem status (Active, Inactive, or All) will be displayed in the (lower) grid.

*A visit or visit context **must** be selected in order to access the edit functionality of the PIP/PPL.* PIP/PPL edit functionality consists of using the Add, Edit, Delete, Set as Today's POV, and Toggle buttons or to add/remove items using the Prenatal Pick List.

When in view only mode, *a visit or visit context is **not** required*; however only the Problem Status Radio buttons, the Expand/Collapse All, Print, and Excel Export buttons, as well as the "Notes for All Pregnancies" check box and View Detail option (available by right-clicking on a problem in the PIP) will be accessible. All PIP/PPL edit functionality will be disabled when in view only mode.

## 2.1.1 About the PIP

The PIP displays the selected patient’s pregnancy status and Definitive Estimated Date of Delivery (EDD) for context at the top of the component. The PIP entries are displayed in a grid format with Priority, Status, Scope, Modified, ICD, SNOMED CT®, Provider Text and Most Recent Note columns. Figure 2-1 depicts a sample PIP for a patient.

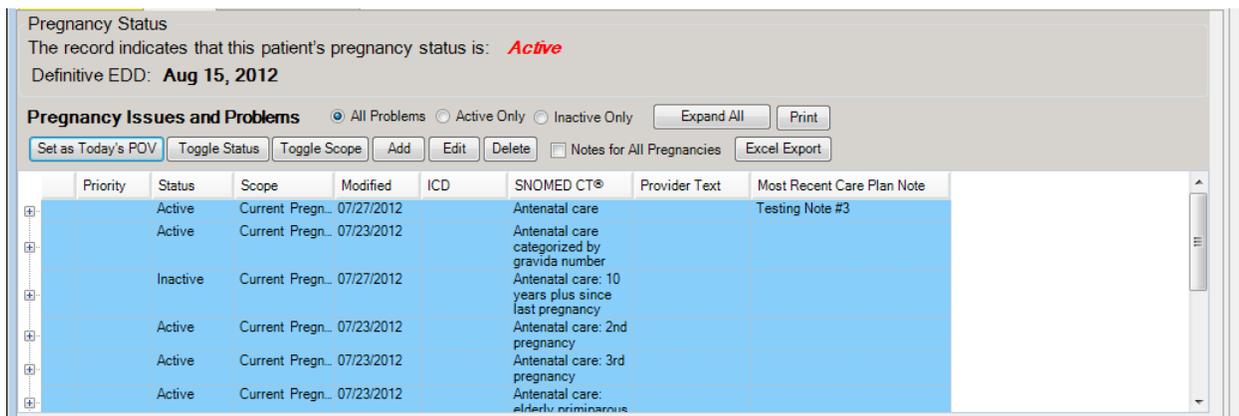


Figure 2-1: Sample PIP

## 2.1.2 Problem Status

Click a radio button next to the **Pregnancy Issues and Problems** List label to select the appropriate problems by status to display in the PIP grid.

The **All Problems** option will display both active and inactive problems for the current patient. Users can filter the list by selecting **Active Only** or **Inactive Only**; this means, for example, if **Active Only** is selected, only those problems with a status of Active will display in the PIP grid.

The Status field is editable when adding or editing a problem through the dialog or by clicking the **Toggle Status** button on the list for the selected problem(s).

## 2.1.3 Expand/Collapse All

Click the **Expand (Collapse) All** button to expand or collapse the PIP entries in the grid to show or hide the associated notes for the problem. This button changes from **Expand All** to **Collapse All**. This same functionality is available on the right-click menu.

## 2.1.4 Print

Click the **Print** button to print all problems currently listed in the PIP grid.

**Note:** Print only works with local printers. EHR remote printers cannot print the graphics associated with the grid itself, only text.

Follow these steps to print selected problems on the patient’s PIP:

1. Click the **Print** button to display the **Print Preview** dialog. The following figures shows a sample of a **Print Preview** dialog:

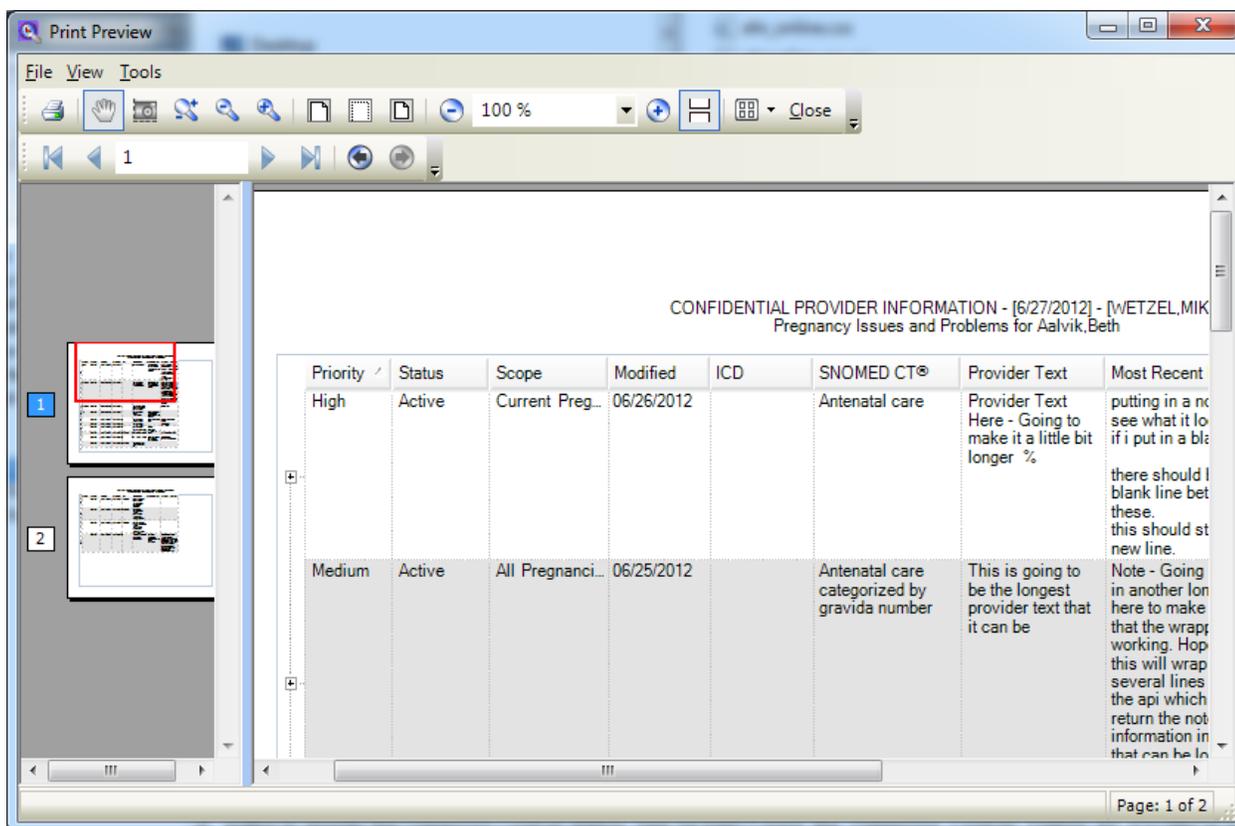


Figure 2-2 - **Print Preview** dialog

2. Make any desired adjustments to the page layout and then print by selecting **File > Print** in the menu or the Print button with the printer icon.

### 2.1.5 Set as Today’s POV

If the PIP is editable, users can select one or more problems in order to simultaneously update the problem’s Set as Today’s POV flag. This setting can also be updated via the **Edit Problem** dialog.

Use the **Set as Today’s POV** button to associate active problems from the PIP component as the POV for the selected visits in the EHR Visit Diagnosis component. This same functionality is available on the right-click menu.

Follow these steps to set a problem as the POV for a visit:

1. To select all active problems, either click the **Set as Today's POV** button (or select the **Set as Today's POV** option on the right-click menu) or alternatively, select multiple problems in the grid and click the **Edit Problem** option on the right-click menu) to display the Set as Today's POV/Update problems dialog for the selected active problems.
2. Set this problem as the POV by checking the box in the **POV** column for the desired row.
3. When a problem has been set as a POV, a note can then be entered, which will be saved along with the current user and date and time.
4. When done editing, click **Update**. Otherwise, click **Cancel** to cancel the update process.

The following figure shows a sample Set as Today's POV display:



Figure 2-3 - **Select POV's/Update Problems** dialog

### 2.1.6 Toggle Status

Click the **Toggle Status** button to toggle the problem status on selected entries in the PIP grid from Active to Inactive or vice versa. The same functionality is available on the right-click menu.

### 2.1.7 Toggle Scope

Click the **Toggle Scope** button to toggle status on selected entries in the Pregnancy Issues and Problems grid from Current Pregnancy to All Pregnancies or vice versa. The same functionality is available on the right-click menu.

## 2.1.8 Add Problem

The Add Problem Information dialog displays when the user clicks the **Add** button on the PIP or when the **Add Problem** is selected from the right-click menu. The dialog allows users to set the attributes for the problem including priority, SNOMED CT® term, provider text, status, scope, set as POV and note.

If the PIP is editable, problems can be added to the list in a variety of ways. Checking an entry in the Prenatal PPL will add the item to the PIP. Alternatively, from the PIP, clicking the **Add** button or selecting **Add Problem** from the right-click menu will open the **Add Problem Information** dialog. Once the entry is updated and saved, the problem will be added to the PIP and appear in the list.

Add a problem to the PIP if an issue is considered important enough and to document as an ongoing issue.

Figure 2-4 shows a sample **Add Problem Dialog** form:

The screenshot shows the 'Add Problem Information' dialog box. It features a title bar with minimize, maximize, and close buttons. The main content area includes: a 'Priority' section with radio buttons for 'Not Set', 'Low', 'Medium', and 'High'; a '\* SNOMED:' section with a text input field and a dropdown arrow; a 'Provider Text:' section with a text input field and '60 characters left' below it; a 'Status' section with radio buttons for 'Active' and 'Inactive'; a 'Scope' section with radio buttons for 'Current Pregnancy' and 'All Pregnancies'; a 'Set as POV:' section with a checkbox; and a 'Care Plan Notes' section with a large text area. At the bottom right are 'Save' and 'Cancel' buttons.

Figure 2-4 - Add Problem Information dialog

Follow these steps to add a new problem to a patient's PIP:

1. Click **Add** (or select the **Add Problem** option on the right-click menu) to display the **Add Problem Information** dialog.
2. If desired, select a **Priority** for a problem.
3. For the required **SNOMED** field, either type in the SNOMED CT® value for the problem (if known) or else click the “...” button to utilize the SNOMED CT® Lookup dialog to select the appropriate entry.
4. If desired, enter a 60 character maximum **Provider Text** field value.
5. Click the appropriate radio button in the **Status** group box, with **Active** pre-selected as the default for a new problem.
6. Click the appropriate radio button in the **Scope** group box, with **Current Pregnancy** pre-selected as the default for a new problem.
7. If desired, set this problem as the POV by checking the box in the **POV** column for the desired row.
8. When a problem has been set as a POV, a note can then be entered, which will be saved along with the current user and date and time.
9. When the Add Problem Information dialog is complete, either click **Save** to file the problem (and note) information into RPMS or click **Cancel** to quit without saving.

### 2.1.9 Edit Problem

The Edit Problem Information dialog displays when the user clicks the **Edit** button on the PIP or when the menu option is selected from the right-click menu. The dialog allows users to set the attributes for the problem including priority, SNOMED CT® term, provider text, status, scope, set as POV and note.

If the PIP is editable, problems can be edited from the list in two ways, either by clicking the **Edit** button on the PIP or by selecting **Edit Problem** from the right-click menu. Each of these options will open the **Edit Problem Information** dialog. The **Edit Problem Information** dialog allows current information for problems already located on the PIP to be updated.

Notes are **NOT** saved until the user clicks on the **Save** button.

Figure 2-5 shows a sample **Edit Problem Information** dialog form:

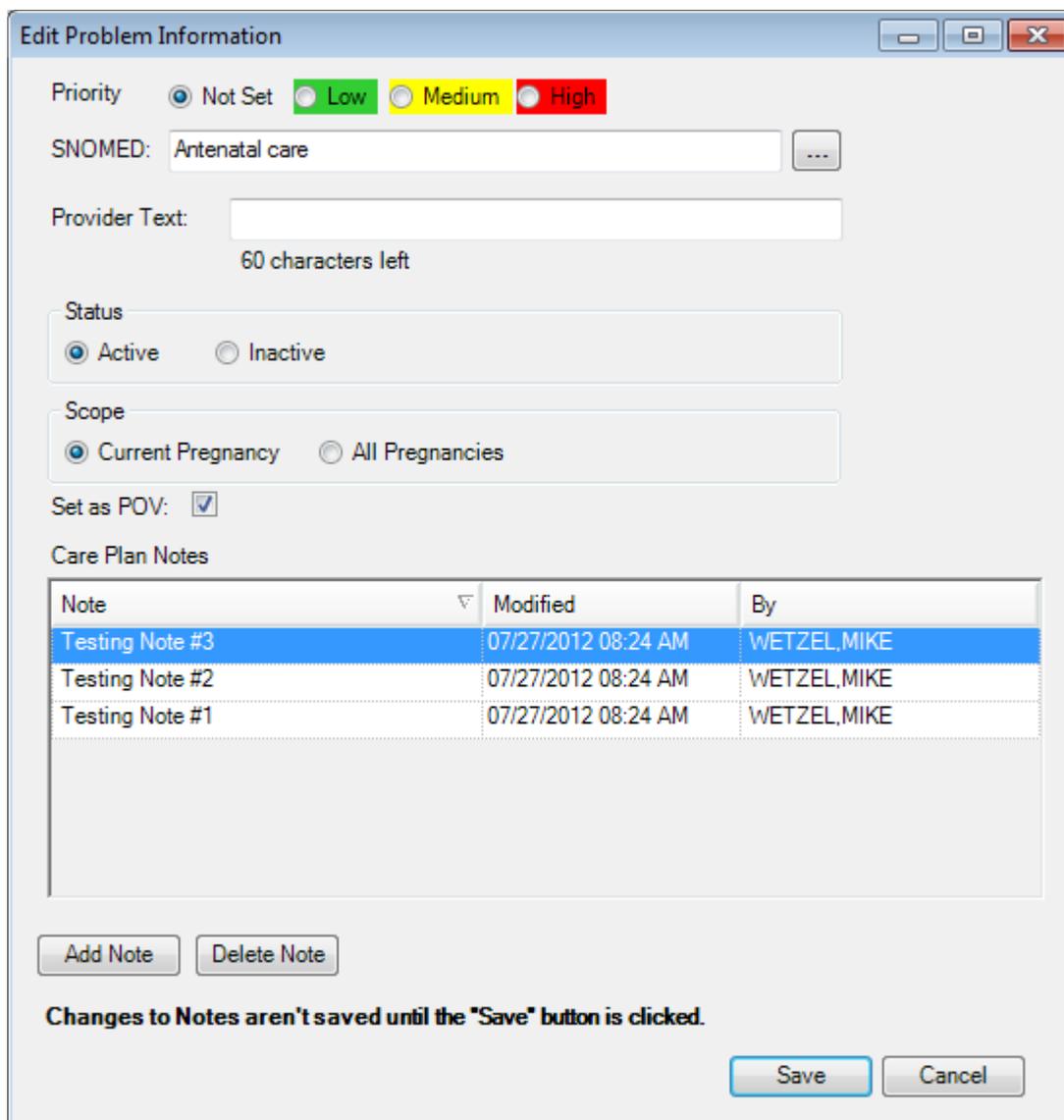


Figure 2-5 - **Edit Problem Information** dialog

Follow these steps to modify current information on the PIP:

1. Highlight a problem in the PIP grid.
2. Click **Edit** (or select the **Edit Problem** option on the right-click menu) to display the **Edit Problem Information** dialog for the selected problem.
3. If desired, select a **Priority** for a problem.
4. If changing the SNOMED CT® value for problem, either type in the new SNOMED CT® value for the problem (if known) or else click the ellipses (...) button to utilize the SNOMED CT® Lookup dialog to select the appropriate entry.

5. If desired, enter a 60 character maximum **Provider Text** field value.
6. Click the appropriate radio button in the **Status** group box.
7. Click the appropriate radio button in the **Scope** group box.
8. If desired, set (or delete) this problem as the POV by checking the box in the **POV** column for the desired row.
9. When a problem has been set as a POV, the Notes section of the **Edit Problem Information** dialog becomes enabled and can be utilized.
  - a. A new 240 character maximum note (which will be saved along with the current user and date and time) can be entered by clicking the **Add Note** button, typing the new note text into the **Care Plan Note** field and then clicking the **Save** button.
  - b. Existing note entries can be removed from the problem by clicking the **Delete Note** button (Notes can only be deleted if you are the author or are a member of “CHIEF, MIS” user class), confirming the deletion of the note by clicking the **Yes** button, entering the **Deletion Reason** and then clicking the **OK** button.
10. After correcting any information about the problem (including adding or deleting a note), click **Save** (on the **Edit Problem Information** dialog) to have the corrected information display in the PIP grid or click **Cancel** to quit without saving.

### 2.1.10 Delete Problem

If the PIP is editable, problems can be deleted from the list in a variety of ways. Unchecking an entry in the PPL will delete the item from the PIP list. Alternatively, from the PIP, clicking the **Delete** button or selecting **Delete Problem** from the right-click menu will delete the problem from the PIP. Once the entry is deleted, the problem will be removed from the PIP and will no longer appear in the list.

Figure 2-6 shows a sample **Delete Reason** dialog:

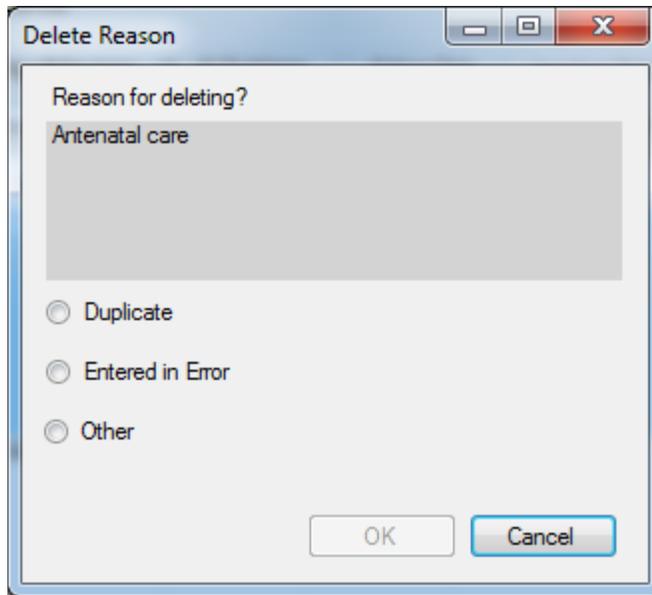


Figure 2-6 - **Delete Reason** Dialog

Follow these steps to remove a problem on the patient's PIP:

1. Highlight the problem in the PIP.
2. Click the **Delete** button (or select the **Delete Problem** option on the right-click menu) to display the **Delete Reason** dialog.
3. If the problem selected has notes, the following error message will be returned.

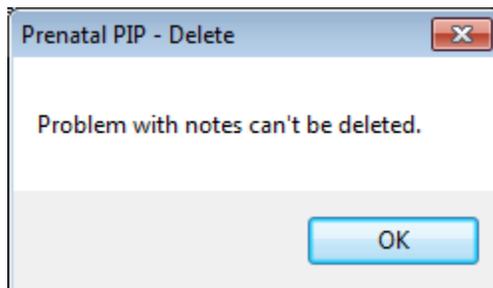


Figure 2-7: Delete Problem with notes dialog

4. If this is the correct problem, enter a reason for deleting. Click **OK** to delete the problem from the PIP. Otherwise, click **Cancel** to cancel the delete action.

### 2.1.11 Notes for All Pregnancies

By default only the notes for the current pregnancy are displayed on the PIP. To display all notes for all pregnancies, check the **Notes for All Pregnancies** option. Notes are defined as being from the current pregnancy if their date of entry falls between the Definitive EDD minus 280 days and Definitive EDD plus the number of days specified in the BJPN POST DEDD DAYS parameter.

### 2.1.12 Right-Click Menu

The Right-Click menu displays when the user clicks the right mouse button on the PIP. This menu allows users to access PIP functionality that is also available from the buttons on the component itself.

The following figure shows the contents of the Right-Click menu:

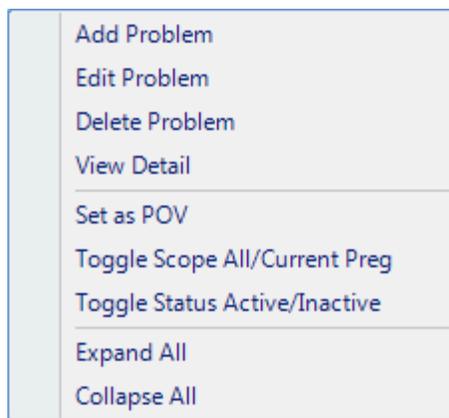


Figure 2-8 – Right-Click Menu

### 2.1.13 Export to Microsoft Excel®

Exports all problems currently listed in PIP to a Microsoft (MS) Excel® file.

1. Click **Excel Export**. A confidential patient data warning message will display.

The following figure shows the first dialog box displayed when exporting information to MS Excel®:

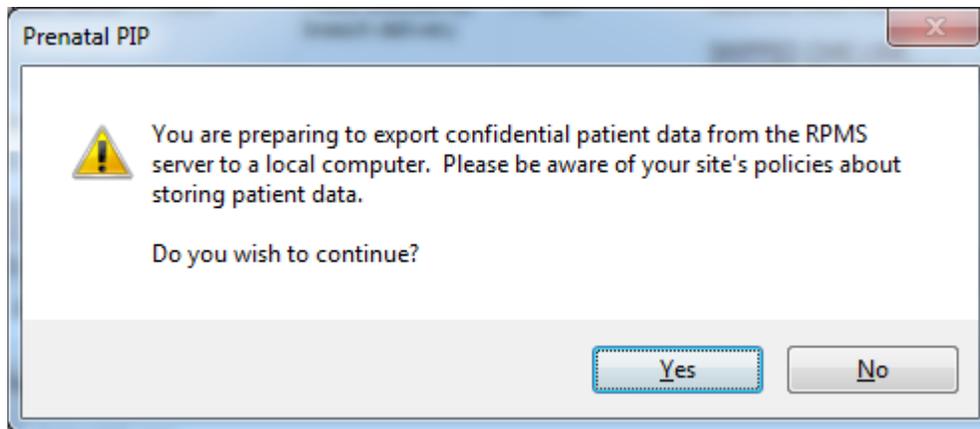


Figure 2-9 - Prenatal PIP warning dialog

2. Click **Yes** to continue or **No** to cancel.
3. Select a location and filename to save to.

Figure 2-10 shows the **Save As** dialog box:

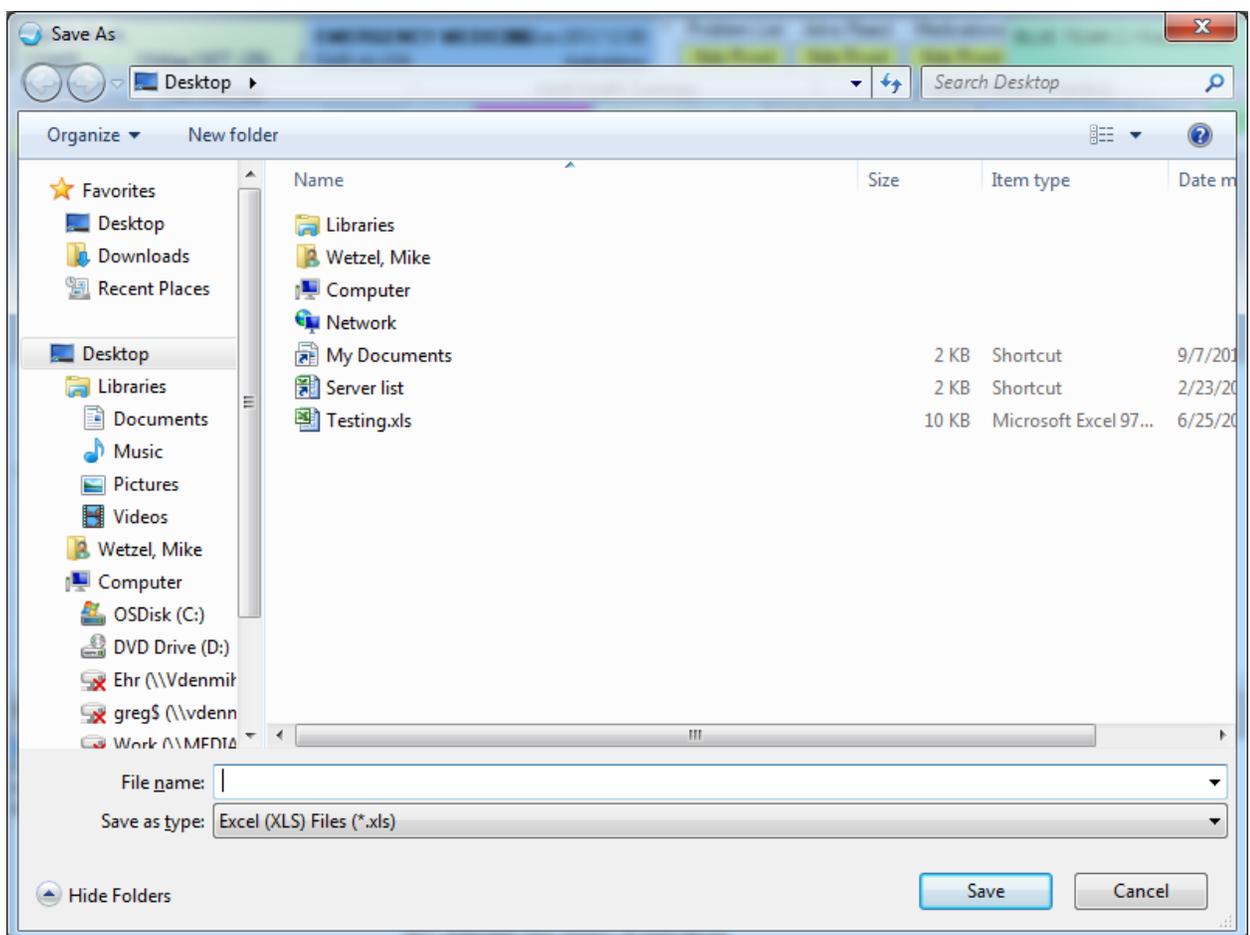


Figure 2-10 - Excel Export **Save As** dialog

4. Click **OK** to finish.

Figure 2-11 shows the confirmation message that the file has been exported successfully:

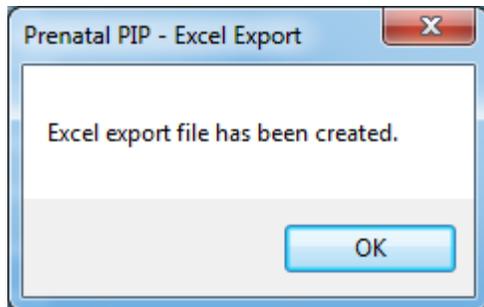


Figure 2-11 - Prenatal PIP - Excel Export confirmation dialog

### 2.1.14 View Detail

This option displays full details for the selected problem and includes a history of all changes.

Follow these steps to View Detail for a problem on the PIP:

1. On the Right-Click Menu, click **View Detail** to display the **Problem Detail** dialog (adjusting the font size as desired).

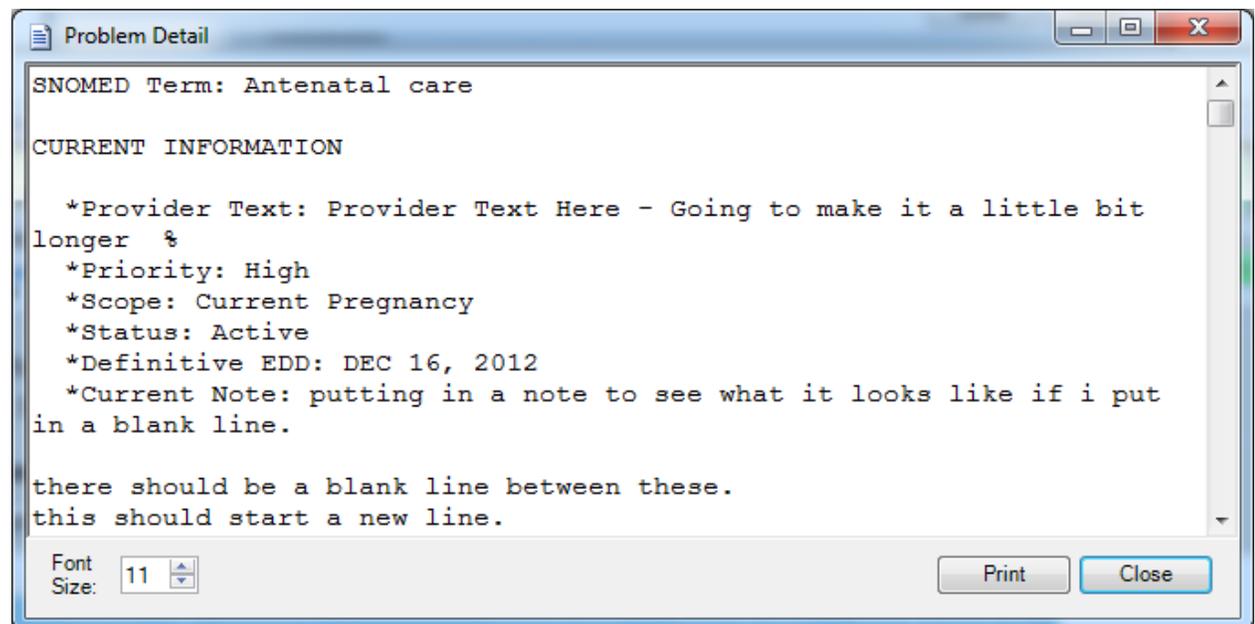


Figure 2-12 - Problem Detail dialog

2. To print, click **Print** or click **Close** to exit.

3. Set the desired number of Copies to print by selecting the appropriate value in the **Copies** field.
4. Check the **Save as your default printer** box to set the selected printer as the default printer.
5. Print the detail by either selecting a local printer by clicking once on a printer name to select it and then click **OK** or else print by double-clicking on a printer name.

Figure 2-13 shows the **Printer Selection** dialog box:

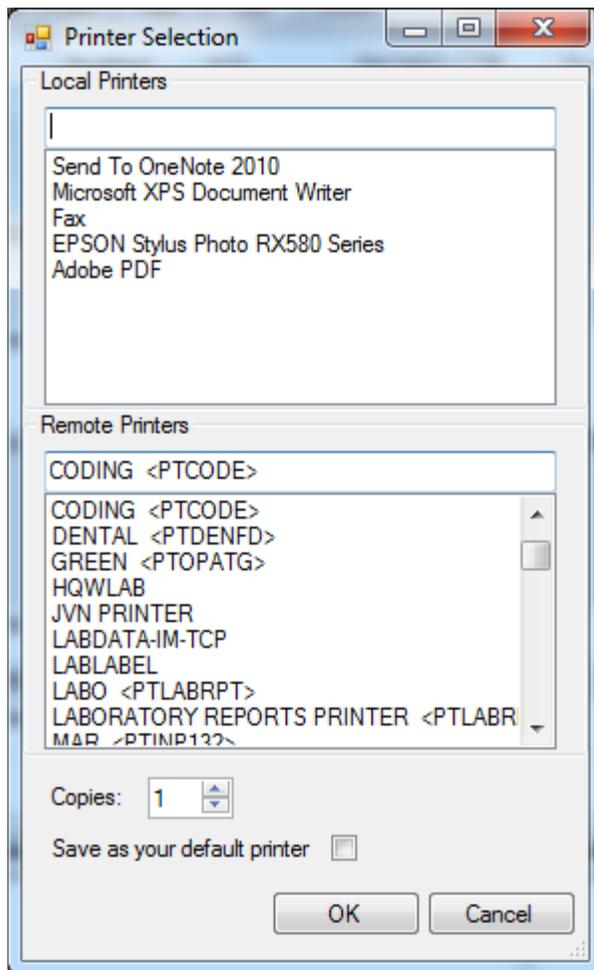


Figure 2-13 - **Printer Selection** dialog

6. Make any desired adjustments to the page layout and then print utilizing the **File** and **Print** menu option or the **print** icon.

Figure 2-14 shows the **Print Preview** dialog box:

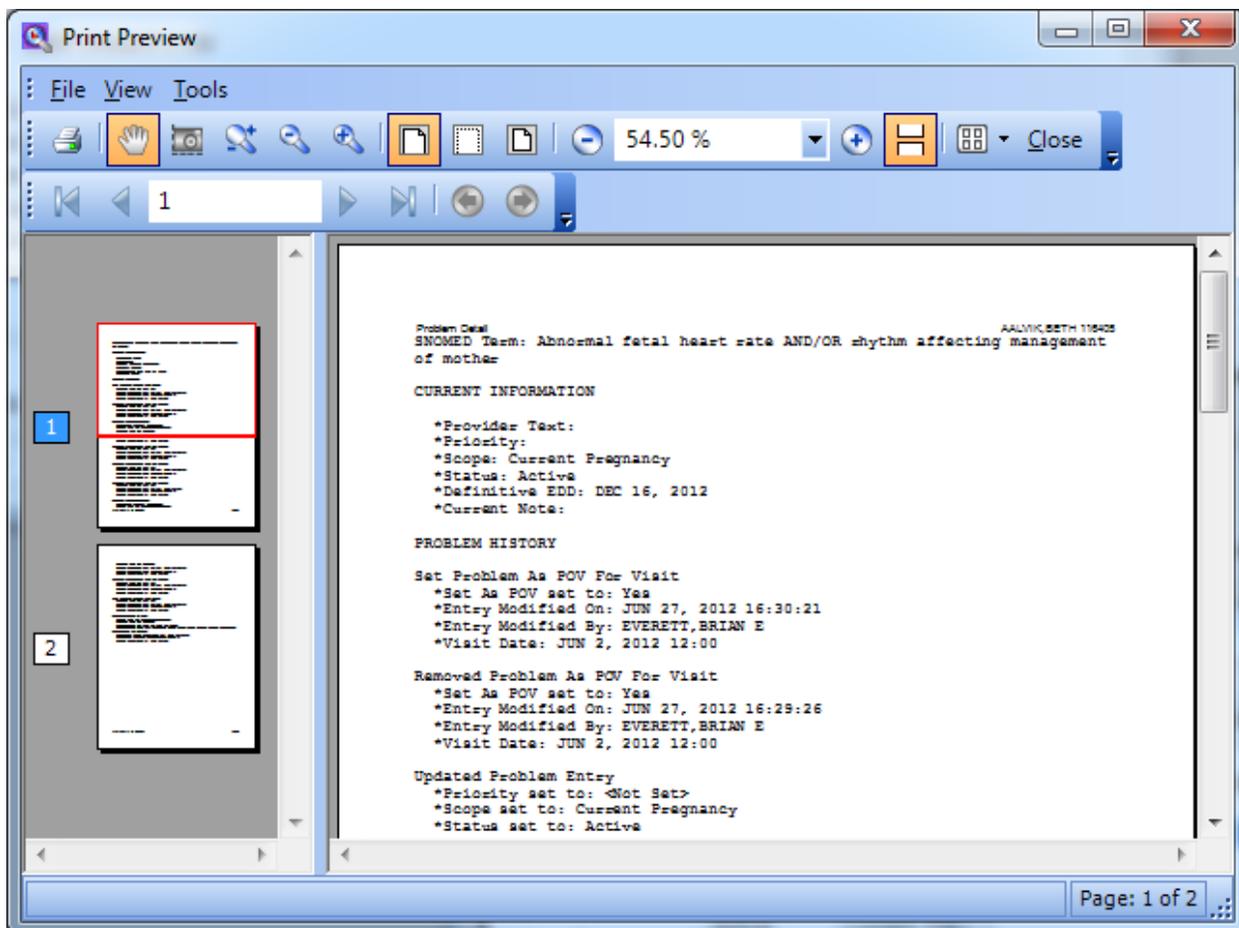


Figure 2-14 - Print Preview dialog

7. Print the detail by either selecting a remote printer by clicking once on a printer name to select it and then click **OK** or else print by double-clicking on a printer name.
8. Click **Close** on the **Print Preview dialog** to finish.

## 2.2 Prenatal Pick List

The PPL is displayed in a checked list format and displays the SNOMED CT® terms available to add as entries in the PIP. The box on the left displays the available pick lists to choose from while the box on the right displays the SNOMED CT® terms available for each pick list. Checking an entry in the list immediately adds it to the PIP list. Unchecking an item in the PPL, deletes the entry from the PIP.

Users can display each category as needed and sort by frequency by checking the box above the list. Additionally, the scroll bars can be used to move up or down in order to view the various items in the category or check **Show All** to disable the pick list selection and display all SNOMED CT® terms for selection and inclusion in the PIP. The SNOMED CT® terms displayed using this method is the comprehensive list of terms available to prenatal as provided by Subject Matter Experts.

Figure 2-15 shows a sample PPL:

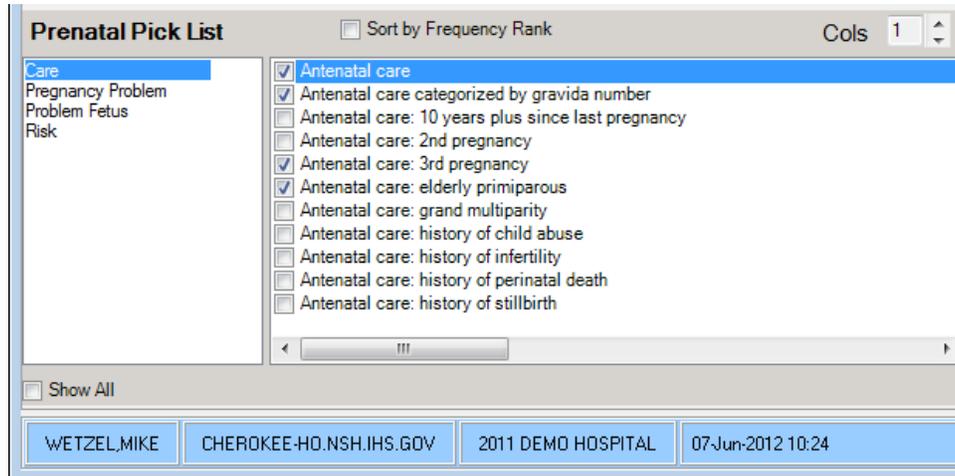


Figure 2-15 - Prenatal Pick List

## 3.0 Using Prenatal TIU Objects

The following TIU objects have been created and are available to include in progress notes to document prenatal patient issues.

### 3.1 PIP Expanded-Current Pregnancy

The first TIU object displays all problems contained on the *current display* of the PIP and the associated Provider Narrative (date added), Notes in reverse chronological order for each item in list with date of entry.

Format:

- 1) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content
- 2) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content

### 3.2 PIP Expanded-Current Encounter

The second TIU object displays all problems contained on the current display of the PIP (“All Pregnancies” and “Current Pregnancy” problems) with the associated Provider Narrative (date added), Notes entered this visit.

Format:

- 1) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content
- 2) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content

### 3.3 PIP Expanded-Most recent note

The third TIU object displays all problems contained on the *current display* of the PIP with the associated Provider Narrative (date added), most recent Note for each problem for current pregnancy (“All Pregnancies” and “Current Pregnancy” problems).

Format:

1) Provider Narrative (date added), Author of note, Date of note: Note content

Author of note, Date of note: Note content

2) Provider Narrative (date added), Author of note, Date of note: Note content

Author of note, Date of note: Note content

## 4.0 Using Prenatal Health Summary Objects

The following Health Summary objects have been created and are available to include in Health Summaries to document prenatal patient issues.

### 4.1 PIP Expanded-Pregnancy

The first Health Summary object displays all problems contained on the *current display* of the Pregnancy Issues and Problem List with the associated Provider Narrative (date added), Notes in reverse chronological order for each item in list with date of entry

Format:

- 1) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content
- 2) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content  
Author of note, Date of note: Note content

### 4.2 PIP Expanded-Current Encounter

The second Health Summary object displays all problems contained on the *current display* of the PIP with associated Provider Narrative (date added), Notes entered today's encounter

Format:

- 1) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content
- 2) Provider Narrative (date added), Author of note, Date of note: Note content  
Author of note, Date of note: Note content

## Appendix A: Getting Started

This section describes the process to access the PCM functionality.

### A.1 Installation

Please refer to the installation manual for installation of the package. This is Prenatal Care Module Version 1.0 (BJPN). The software is intended to bring the features of the Prenatal Care Module to the EHR.

### A.2 Giving Users Access to the PCM Components

In order for a user to be able to access the PCM components, their user definition 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.

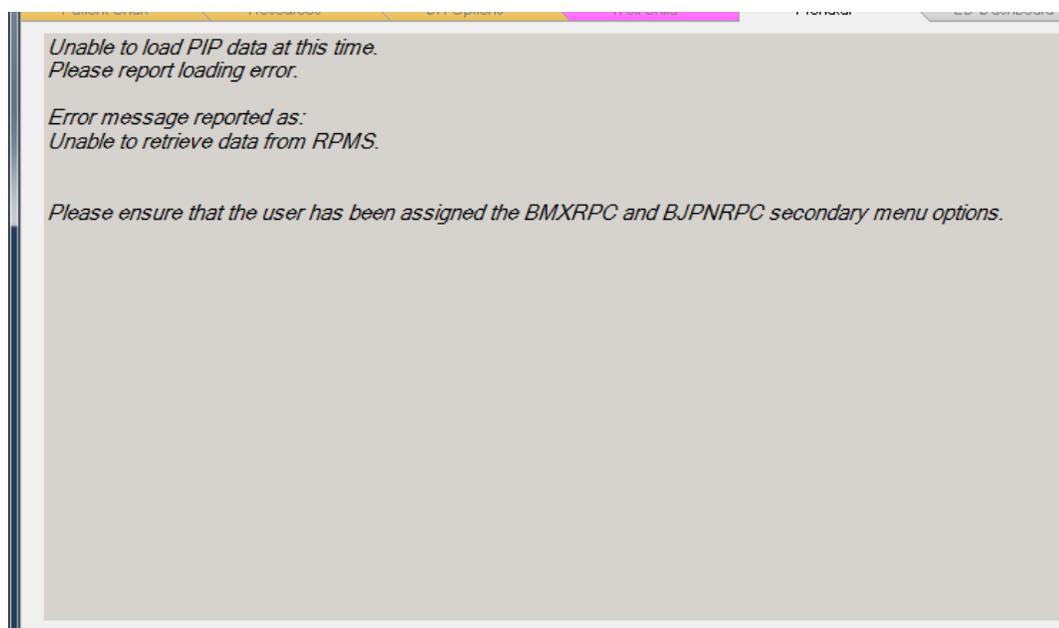


Figure A- 1: Screen which appears if the user is not set up properly to access the PCM

### A.3 Adding Prenatal Care Module Components to EHR

After installing the Prenatal Module Version 1.0 build there will be two new objects available in the EHR object repository. These components are added to the EHR framework like any other object.

The two new prenatal objects are:

- Pregnancy Issues and Problems List
- Prenatal Pick List

It is recommended, but not required, that a new tab be added to EHR which contains both of the new prenatal components. Placing both components on the same tab will allow them to visibly work in conjunction with each other. For example, checking the box of a SNOMED CT® term in the Prenatal Pick List will result in the term getting added to the Prenatal Problem List. Furthermore, adding or deleting an item using the controls found on the Prenatal Problem List will cause the respective term to be checked or unchecked in the Prenatal Pick List.

While not required, it might also be convenient to add the Reproductive Factors component to the new tab as well. Since the Reproductive Factors information is so closely tied to the Prenatal information, it might be helpful to have quick access across each of the components.

The following figure shows a new tab configured to display the Prenatal components as well as the existing Reproductive Factors component:

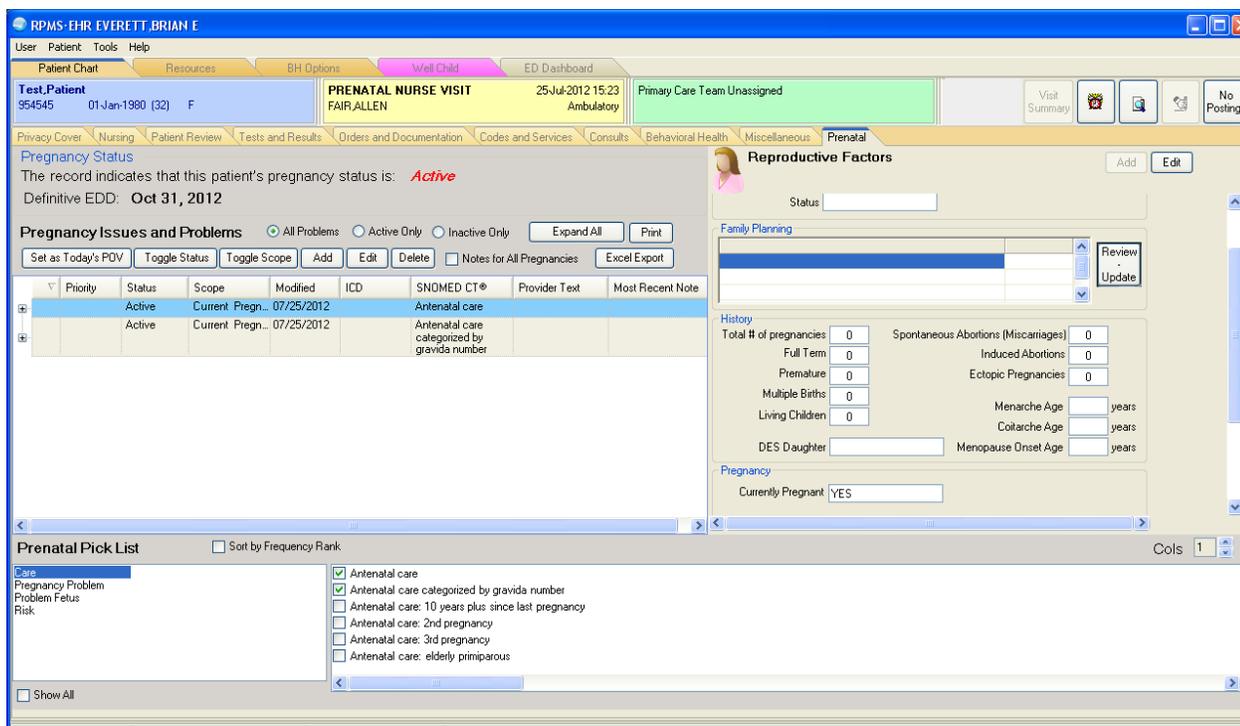


Figure A- 2: Sample Prenatal Tab Layout

### A.3.1 Accessing Design Mode

The following steps describe how to add the prenatal components to EHR:

1. Start the EHR application.

2. Right-Click on the top window bar to display a contextual menu, and select **Design Mode**.

Figure A- 3 shows the contents of the Right-Click menu:

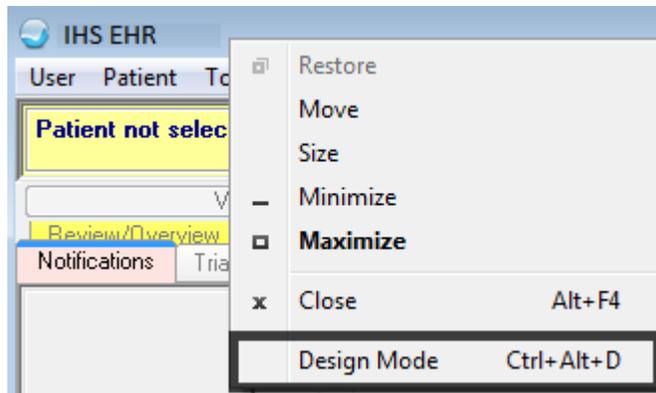


Figure A- 3: Location of **Design Mode** in EHR

3. After selecting **Design Mode**, the **Design** menu becomes available.

Figure A- 4 shows the available menu options:

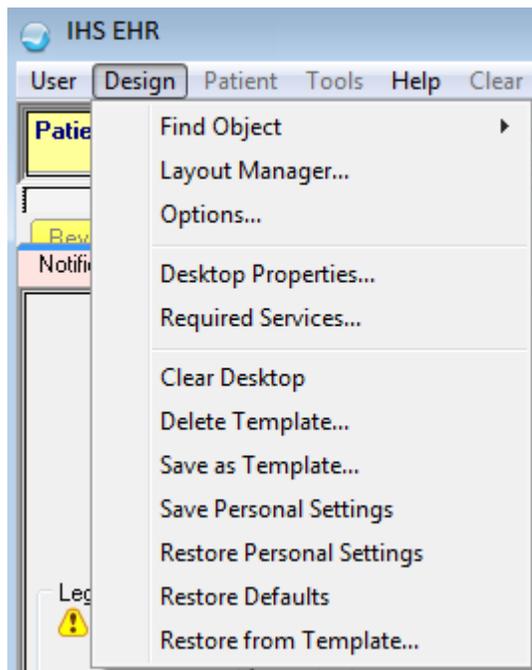


Figure A- 4: **Design** menu options

### A.3.2 Layout Manager

Select the **Layout Manager** option in the **Design** menu to edit from one location. Determine where to put the Prenatal Components.

Figure A- 5 shows the EHR Layout Manager:

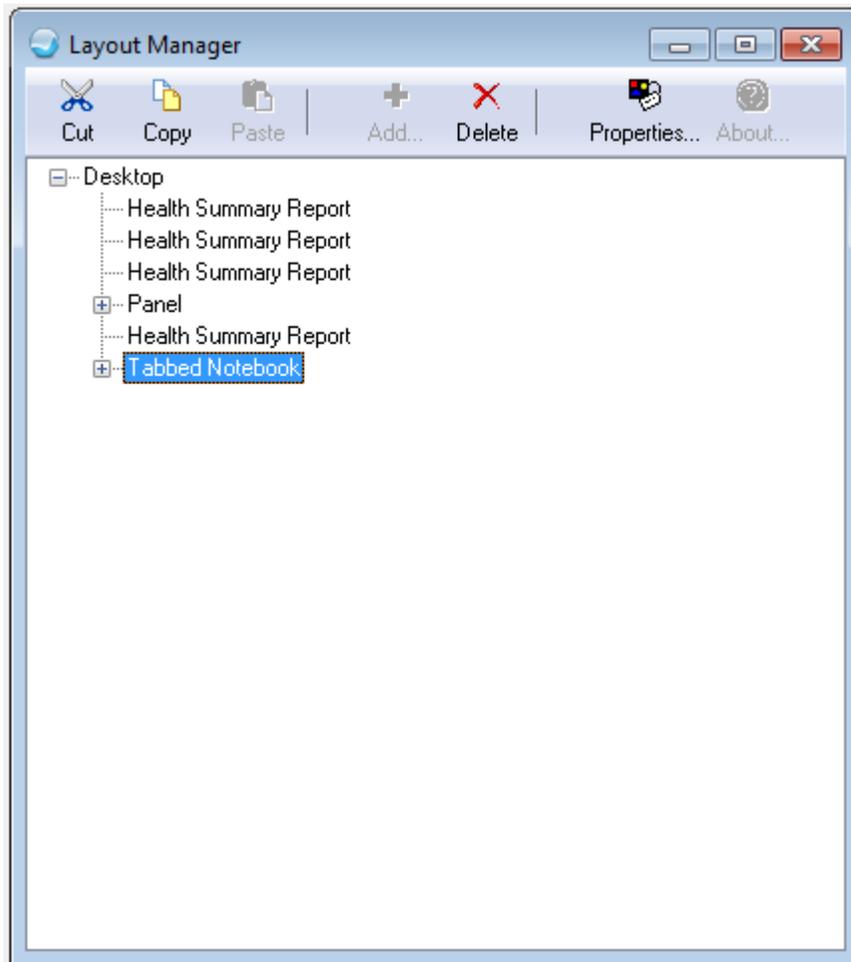


Figure A- 5: EHR **Layout Manager** window

4. Click on the **Properties** option to access the properties for the **Tabbed Notebook**.

Figure A- 6 displays the properties for the **Tabbed Notebook** entry:

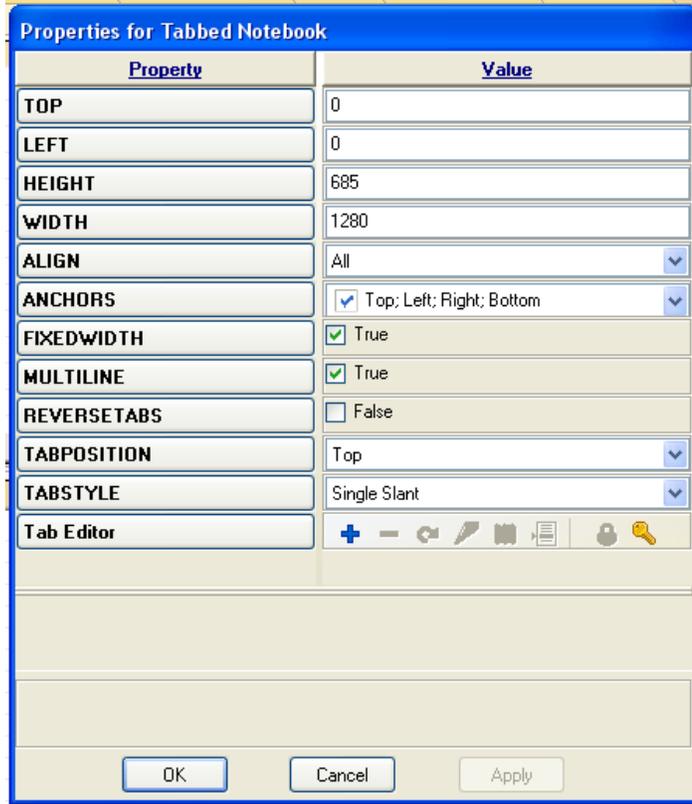


Figure A- 6: Sample **Properties of Tabbed Notebook** display

5. Click the **+** icon on the **Properties of Tabbed Notebook** dialog to access the **Add an Object** dialog.

Figure A- 7 displays the **Add and Object** dialog:

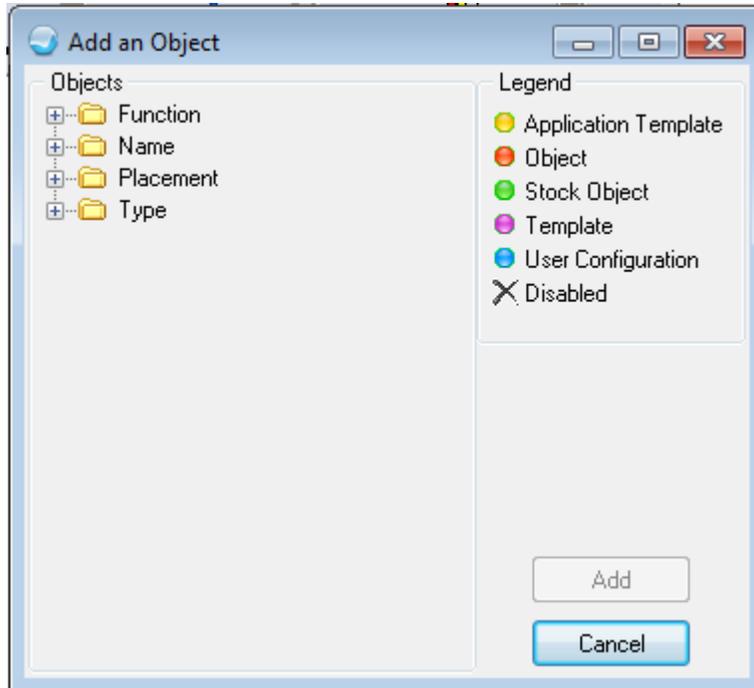


Figure A- 7: Add an Object dialog

6. Click on the **Name** folder to expand it and display a listing of the objects.

Figure A- 8 displays the expanded list of **Objects**:

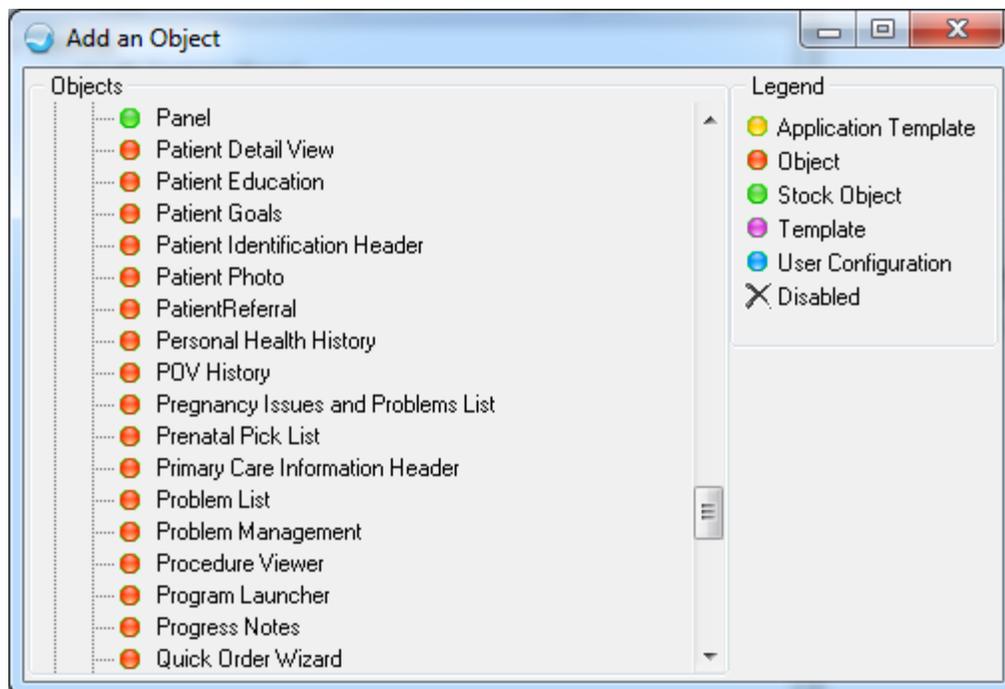


Figure A- 8: Expanded list of **Objects**

7. From the list, select the **Prenatal** objects and click **Add**.
8. When complete, save the template and log out of the EHR and then log back into EHR.

Figure A- 9 shows a sample PCM layout:

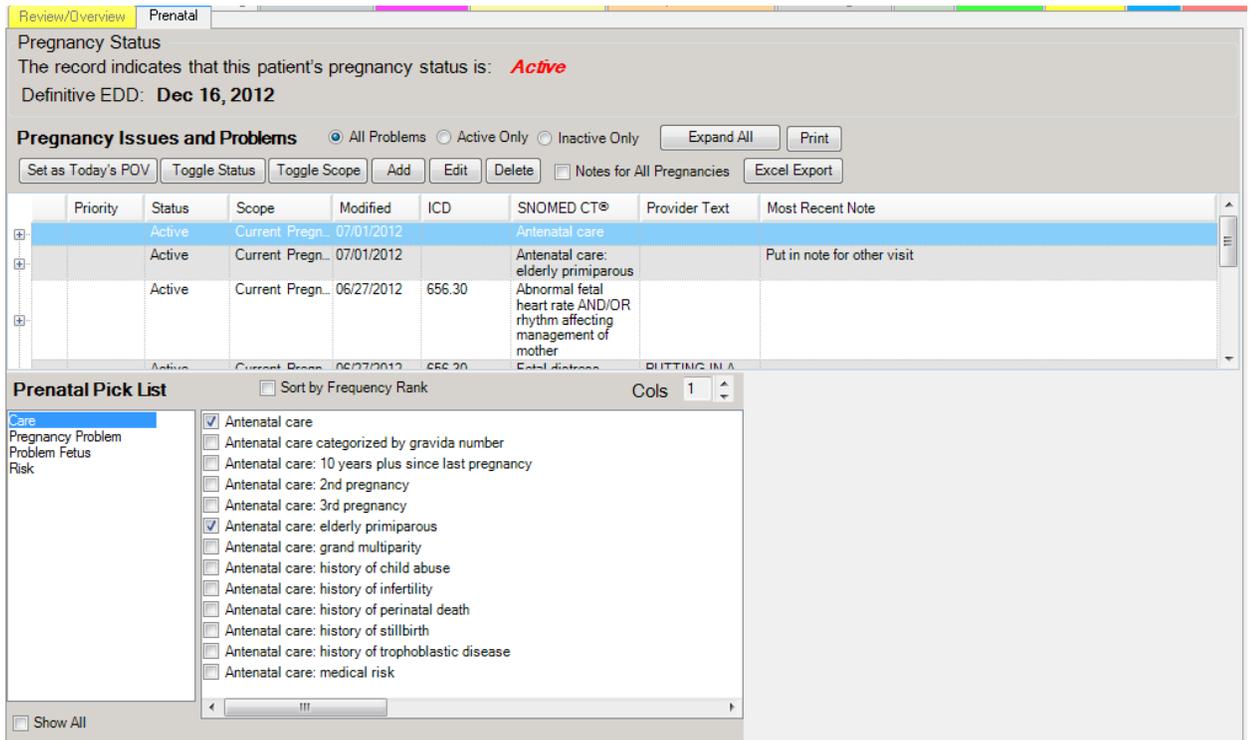


Figure A- 9: Sample Layout for **Prenatal** Tab

## Appendix B: SNOMED CT®

This table displays all of the SNOMED CT® terms for selection and inclusion in the PIP as identified by the Prenatal subject matter experts. The Filter column displays the code associated with pick lists available to filter the terms on the PPL.

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
424525001	Antenatal care (regime/therapy)	2645503011	Antenatal care	PN	C		
169572002	Antenatal care, categorized by gravida number (regime/therapy)	2668610018	Antenatal care categorized by gravida number	PN	C		
169602005	Antenatal care: 10 years plus since last pregnancy (regime/therapy)	2160733017	Antenatal care: 10 years plus since last pregnancy	PN	C		
169574001	Antenatal care of 2nd pregnancy (regime/therapy)	263115012	Antenatal care: 2nd pregnancy	PN	C		
169575000	Antenatal care of 3rd pregnancy (regime/therapy)	263116013	Antenatal care: 3rd pregnancy	PN	C		
169597003	Antenatal care: medical risk (situation)	2667788014	Antenatal care: medical risk	PN	C		
169576004	Antenatal care of multipara (regime/therapy)	263117016	Antenatal care: multip	PN	C		
169605007	Antenatal care: multiparous, older than 35 years (situation)	2668459012	Antenatal care: multiparous, older than 35 years	PN	C		
169578003	Antenatal care: obstetric risk (situation)	2668616012	Antenatal care: obstetric risk	PN	C		
169584000	Antenatal care: poor obstetric history (situation)	2668622015	Antenatal care: poor obstetric history	PN	C		
169573007	Antenatal care of primigravida	263114011	Antenatal care: primigravida	PN	C		
169604006	Antenatal care: primiparous, older than 30 years (situation)	2668458016	Antenatal care: primiparous, older than 30 years	PN	C		
169600002	Antenatal care: under 5ft tall (regime/therapy)	2160732010	Antenatal care: under 5ft tall	PN	C		
102876002	Multigravida (finding)	166282017	Multigravida	PN	C	2	V61.5
161891005	Backache (finding)	2646370015	Back pain	PN	EP	1	724.5
419760006	Bacterial vaginosis (disorder)	2577731014	Bacterial vaginosis	PN	EP		
240589008	Chlamydia trachomatis infection (disorder)	360379017	Chlamydia trachomatis infection	PN	EP		
14760008	Constipation (disorder)	25076018	Constipation	PN	EP	1	564.00
267038008	Edema (finding)	397895018	Edema	PN	EP	1	782.3
105593004	Electrolyte imbalance (disorder)	169714013	Electrolyte imbalance	PN	EP	1	276.9
84229001	Fatigue (finding)	139690015	Fatigue	PN	EP	1	780.79
44635007	Fecal impaction (disorder)	493969019	Fecal impaction	PN	EP		
25374005	Gastroenteritis (disorder)	42550011	Gastroenteritis	PN	EP	1	588.9
15628003	Gonorrhea (disorder)	26487014	Gonorrhea	PN	EP	2	098.89

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
25064002	Headache (finding)	41990019	Headache	PN	EP	1	784
16331000	Heartburn (finding)	27646010	Heartburn	PN	EP	1	787.1
70153002	Hemorrhoids (disorder)	116509010	Hemorrhoids	PN	EP	1	455.6
193462001	Insomnia (disorder)	297924011	Insomnia	PN	EP	1	780.52
237101004	Leukorrhea (finding)	355393011	Leukorrhea	PN	EP	4	623.5
422587007	Nausea (finding)	2643930014	Nausea	PN	EP	1	787.02
65363002	Otitis media (disorder)	108597015	Otitis media	PN	EP	1	382.9
30473006	Pain in pelvis (finding)	50997016	Pelvic pain	PN	EP	2	789.09
29738008	Proteinuria (finding)	49755019	Proteinuria	PN	EP	1	791.0
56335008	Infection by trichomonas (disorder)	93680015	Trichomoniasis	PN	EP	1	131.9
54150009	Upper respiratory infection (disorder)	89996011	Upper respiratory infection	PN	EP	1	465.9
72934000	Candidiasis of vagina (disorder)	121149013	Vaginal candidiasis	PN	EP	1	112.1
271939006	Vaginal discharge (finding)	406946012	Vaginal discharge	PN	EP	1	623.5
308133005	Varicose veins of legs in pregnancy (disorder)	451447016	varicose veins - leg Varicose veins of legs in pregnancy	PN	EP	2	671.00
267282007	Varicose veins of perineum and vulva in pregnancy and the puerperium (disorder)	398446012	Varicose veins of perineum and vulva in pregnancy and the puerperium	PN	EP	1	671.10
416413003	Advanced maternal age gravida (finding)	2548924013	Advanced maternal age gravida	PN	MR		
15167005	Alcohol abuse (disorder)	25750014	Alcohol abuse	PN	MR	1	305.00
271737000	Anemia (disorder)	406636013	Anemia	PN	MR	1	285.9
169589005	Antenatal care: history of infertility (situation)	2666439018	Antenatal care: history of infertility	PN	MR		
169585004	Antenatal care: history of trophoblastic disease (situation)	2668623013	Antenatal care: history of trophoblastic disease	PN	MR		
48694002	Anxiety (finding)	81133019	Anxiety	PN	MR	1	300.00
195967001	Asthma (disorder)	301485011	Asthma	PN	MR	1	493.90
129693008	At risk for imbalanced fluid volume (finding)	208530019	At risk for fluid volume imbalance	PN	MR	0	
78648007	At risk for infection (finding)	213770019	At risk for infection	PN	MR	2	
225444004	At risk for suicide (finding)	338790018	At risk for suicide	PN	MR	2	300.9
198942000	Benign essential hypertension complicating pregnancy, childbirth and the puerperium (disorder)	305750016	Benign essential hypertension complicating pregnancy, childbirth and the puerperium	PN	MR	2	642.00
237220008	Bicornate uterus complicating antenatal care, baby not yet delivered (disorder)	355540011	Bicornate uterus complicating antenatal care, baby not yet delivered	PN	MR		654.03

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
128076000	Bone AND/OR joint disorder in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	194670011	Bone AND/OR joint disorder in mother complicating pregnancy, childbirth AND/OR puerperium	PN	MR		648.70
274121004	Cardiac disease in pregnancy (disorder)	409882016	Cardiac disease in pregnancy	PN	MR		648.63
64779008	Blood coagulation disorder (disorder)	107668010	Coagulation disorder	PN	MR	1	286.9
78267003	Cocaine abuse (disorder)	129874012	Cocaine abuse	PN	MR	1	305.60
6636004	Congenital cardiovascular disorder in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	12001018	Congenital cardiovascular disorder in mother complicating pregnancy, childbirth AND/OR puerperium	PN	MR	1	648.50
302289002	Coordination problem (finding)	443887016	Coordination problem	PN	MR	2	781.3
237200007	Cystocele complicating antenatal care - baby not yet delivered (disorder)	355520016	Cystocele complicating antenatal care - baby not yet delivered	PN	MR		654.43
409049004	Delivery risk (finding)	2470875013	Delivery risk	PN	MR	2	796.4
80967001	Dental caries (disorder)	134311013	Dental caries	PN	MR		521.00
35489007	Depressive disorder (disorder)	59212011	Depressive disorder	PN	MR		311.
76751001	Diabetes mellitus in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	127435018	Diabetes mellitus in mother complicating pregnancy, childbirth AND/OR puerperium	PN	MR		648.00
26416006	Drug abuse (disorder)	44243014	Drug abuse	PN	MR	1	305.90
34150001	Drug dependence in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	57027011	Drug dependence in mother complicating pregnancy, childbirth and/or puerperium	PN	MR		648.30
72366004	Eating disorder (disorder)	120239012	Eating disorder	PN	MR		307.50
1938002	Emotional AND/OR mental disease in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	4347016	Emotional and/or mental disease in mother complicating pregnancy, childbirth and/or puerperium	PN	MR		648.40
160417009	Family history: Congenital anomaly (situation)	2667855013	Family history: Congenital anomaly	PN	MR		

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
66383009	Gingivitis (disorder)	110249014	Gingivitis	PN	MR		
161805006	History of - cesarean section (situation)	252140011	H/O: cesarean section	PN	MR		654.20
161572004	History of - congenital anomaly (situation)	2666089018	History of - congenital anomaly	PN	MR	1	V13.69
161744009	History of - miscarriage (situation)	2666948018	History of - miscarriage	PN	MR		
429424001	History of depressive disorder (situation)	2695936016	History of depression	PN	MR		
80394007	Hyperglycemia (disorder)	133401013	Hyperglycemia	PN	MR	2	790.6
302866003	Hypoglycemia (disorder)	444845012	Hypoglycemia	PN	MR		251.2
8619003	Infertile (finding)	15222012	Infertility	PN	MR	0	
409048007	Labor risk (finding)	2469561019	Labor risk	PN	MR	2	
169594005	Late onset antenatal care (finding)	2692849016	Late onset antenatal care	PN	MR	0	
300916003	Latex allergy (disorder)	442112014	Latex allergy	PN	MR	2	995.3
427189007	Maternal tobacco use (Finding)	2673916013	Maternal tobacco use	PN	MR		
443460007	Multigravida of advanced maternal age (finding)	2840060016	Multigravida of advanced maternal age	PN	MR		659.63
16356006	Multiple pregnancy (disorder)	27701016	Multiple pregnancy	PN	MR	1	651.90
129831005	Noncompliance with diagnostic testing (finding)	208671015	Noncompliance with diagnostic testing	PN	MR	0	
7058009	Noncompliance with treatment (finding)	2647221012	Noncompliance with treatment	PN	MR		
50845008	Nursing difficulty (finding)	84730011	Nursing difficulty	PN	MR		
129844000	Alteration in nutrition (finding)	1220901019	Nutrition alteration	PN	MR	0	
414916001	Obesity (disorder)	2535065012	Obesity	PN	MR	1	278.00
409046006	Perinatal risk (finding)	2470873018	Perinatal risk	PN	MR	2	
237166007	Persistent hymen complicating antenatal care - baby not yet delivered (disorder)	355486011	Persistent hymen complicating antenatal care - baby not yet delivered	PN	MR		654.73
237194004	Polyp of cervix complicating antenatal care - baby not yet delivered (disorder)	355514017	Polyp of cervix complicating antenatal care - baby not yet delivered	PN	MR		654.63
110299009	Poor oral hygiene (finding)	175078018	Poor oral hygiene	PN	MR	1	V41.8
409050004	Postpartum risk (finding)	2470876014	Postpartum risk	PN	MR	2	
199005000	Pre-existing hypertension complicating pregnancy, childbirth and puerperium (disorder)	305826011	Pre-existing hypertension complicating pregnancy, childbirth and puerperium	PN	MR	1	642.00

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
237201006	Rectocele complicating antenatal care - baby not yet delivered (disorder)	355521017	Rectocele complicating antenatal care - baby not yet delivered	PN	MR		654.43
75150001	Renal disease in pregnancy AND/OR puerperium without hypertension (disorder)	124817012	Renal disease in pregnancy AND/OR puerperium without hypertension	PN	MR	2	646.20
165746003	RhD negative (finding)	257723018	Rh negative	PN	MR	0	
199583002	Rhesus isoimmunization with antenatal problem (disorder)	306658011	Rhesus isoimmunization with antenatal problem	PN	MR		656.13
237159006	Rigid perineum complicating antenatal care - baby not yet delivered (disorder)	355479015	Rigid perineum complicating antenatal care - baby not yet delivered	PN	MR		646.83
199312002	Finding related to risk factor in pregnancy (finding)	306216018	Risk factors in pregnancy	PN	MR	2	646.90
128613002	Seizure disorder (disorder)	206998011	Seizure disorder	PN	MR	2	345.90
237182008	Septate vagina complicating antenatal care - baby not yet delivered (disorder)	355502013	Septate vagina complicating antenatal care - baby not yet delivered	PN	MR		654.73
77176002	Smoker (finding)	128130017	Smoker	PN	MR	2	305.1
237189004	Stenosis of cervix complicating antenatal care - baby not yet delivered (disorder)	355509016	Stenosis of cervix complicating antenatal care - baby not yet delivered	PN	MR		654.63
237175009	Stenosis of vagina complicating antenatal care - baby not yet delivered (disorder)	355495015	Stenosis of vagina complicating antenatal care - baby not yet delivered	PN	MR		654.73
22220005	Genuine stress incontinence (finding)	37299019	Stress incontinence	PN	MR	2	788.39
66214007	Substance abuse (disorder)	109958011	Substance abuse	PN	MR	2	305.90
59136001	Thyroid disease in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	98267012	Thyroid disease in mother complicating pregnancy, childbirth AND/OR puerperium	PN	MR	2	648.10
64254006	Triplet pregnancy (disorder)	106809012	Triplet pregnancy	PN	MR	1	651.10
267223004	Tumor of uterine body complicating antenatal care, baby not yet delivered (disorder)	398372019	Tumor of uterine body complicating antenatal care, baby not yet delivered	PN	MR		648.13
65147003	Twin pregnancy (disorder)	108265019	Twin pregnancy	PN	MR	1	651.00

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
267242000	Vaginal abnormality complicating antenatal care - baby not yet delivered (disorder)	398393016	Vaginal abnormality complicating antenatal care - baby not yet delivered	PN	MR		654.73
169588002	Antenatal care: elderly primiparous (situation)	263129013	Antenatal care: elderly primiparous	PN	PD		V23.81
169581008	Antenatal care: grand multiparity (finding)	2668619017	Antenatal care: grand multiparity	PN	PD		V23.3
169603000	Antenatal care: primiparous, under 17 years (regime/therapy)	2160734011	Antenatal care: primiparous, under 17 years	PN	PD		V23.83
47200007	High risk pregnancy (finding)	78671013	High risk pregnancy	PN	PD	1	V23.9
444661007	High risk pregnancy due to history of preterm labor (finding)	2873075017	High risk pregnancy due to history of preterm labor	PN	PD		V23.89
72892002	Normal pregnancy (finding)	121076010	Normal pregnancy	PN	PD	2	V22.2
169774004	Postnatal care less than 48 hours after birth (finding)	263356018	Postnatal care less than 48 hours after birth	PN	PD		V24.0
384633003	Postpartum examination and care of mother (procedure)	1478960015	Postpartum care of the mother	PN	PD		V24.2
12867002	Fetal distress affecting management of mother (disorder)	22072010	Abnormal fetal heart rate AND/OR rhythm affecting management of mother	PN	PF	1	656.30
276507005	Fetal death (event)	412663018	Fetal death	PN	PF	2	779.9
22033007	Fetal growth retardation (disorder)	2475837011	Fetal growth restriction	PN	PF	1	764.90
414247004	Fetus affected by maternal antepartum hemorrhage (disorder)	2533055016	Fetus affected by maternal antepartum hemorrhage	PN	PF	2	762.1
268808004	Fetus or neonate affected by breech delivery and extraction (disorder)	402190015	Fetus or neonate affected by breech delivery and extraction	PN	PF	1	763.0
206118007	Fetus or neonate affected by disproportion during labor and delivery (disorder)	316003019	Fetus or neonate affected by disproportion during labor and delivery	PN	PF	1	763.1
206005002	Fetus or neonate affected by maternal infection (disorder)	315825016	Fetus or neonate affected by maternal infections	PN	PF	1	760.2
206002004	Fetus or neonate affected by maternal medical problem (disorder)	315815014	Fetus or neonate affected by maternal medical problems	PN	PF	2	760.9

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
206065004	Fetus or neonate affected by placenta previa (disorder)	315911016	Fetus or neonate affected by placenta previa	PN	PF	1	762.0
206087008	Fetus or neonate affected by prolapsed cord (disorder)	315954014	Fetus or neonate affected by prolapsed cord	PN	PF	1	762.4
73890002	Fetus OR newborn affected by delivery by vacuum extractor (disorder)	122705018	Fetus or newborn affected by delivery by vacuum extractor	PN	PF	1	763.3
82719008	Fetus OR newborn affected by maternal anesthesia AND/OR analgesia (disorder)	137220013	Fetus or newborn affected by maternal anesthesia or analgesia	PN	PF	1	763.5
68983007	Fetus OR newborn affected by maternal complication of pregnancy (disorder)	114583011	Fetus or newborn affected by maternal complication of pregnancy, NOS	PN	PF	1	761.9
18001006	Fetus OR newborn affected by multiple pregnancy (disorder)	30393018	Fetus or newborn affected by multiple pregnancy, NOS	PN	PF	1	761.5
65599008	Fetus OR newborn affected by oligohydramnios (disorder)	108984011	Fetus or newborn affected by oligohydramnios	PN	PF	1	761.2
66215008	Fetus OR newborn affected by polyhydramnios (disorder)	109960013	Fetus or newborn affected by polyhydramnios	PN	PF	1	761.3
32858009	Hemolytic disease of fetus OR newborn due to ABO immunization (disorder)	54836018	Hemolytic disease of fetus or newborn due to ABO immunization	PN	PF	1	773.1
199616008	Large-for-dates fetus (disorder)	306724012	Large-for-dates fetus	PN	PF	2	766.1
130955003	Fetal Distress (finding)	2794405012	Nonreassuring fetal stress test	PN	PF		656.30
44247006	Prematurity of fetus (disorder)	73791010	Prematurity of fetus	PN	PF	1	765.10
17849001	Respiratory condition of fetus OR newborn (disorder)	30154017	Respiratory condition of fetus OR newborn	PN	PF	1	770.9
309738002	Suspected macroscopic fetus (situation)	2164662017	Suspected fetal macrosomia	PN	PF		656.60
199732004	Abnormal findings on antenatal screening of mother (disorder)	306896010	Abnormal findings on antenatal screening of mother	PN	PNP		796.5
372054004	Abnormal glucose tolerance test during pregnancy - baby not yet delivered	1210632016	Abnormal glucose tolerance test during pregnancy - baby not yet delivered	PN	PNP		648.83
168092006	Amniotic fluid -meconium stain (finding)	261079015	Amniotic fluid - meconium stain	PN	PNP		

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
35999006	Blighted ovum (disorder)	486339012	Anembryonic pregnancy	PN	PNP		631.8
27342004	Anemia of pregnancy (disorder)	45714011	Anemia of pregnancy	PN	PNP	2	648.20
169583006	Antenatal care: history of perinatal death (situation)	2668621010	Antenatal care: history of perinatal death	PN	PNP		
169582001	Antenatal care: history of stillbirth (situation)	2668620011	Antenatal care: history of stillbirth	PN	PNP		
169580009	Antenatal care: recurrent aborter (finding)	2668618013	Antenatal care: recurrent aborter	PN	PNP	2	646.30
169579006	Antenatal care: uncertain dates (situation)	2668617015	Antenatal care: uncertain dates	PN	PNP		
34842007	Antepartum hemorrhage (disorder)	58149017	Antepartum hemorrhage	PN	PNP	1	641.80
198917009	Antepartum hemorrhage with coagulation defect - delivered (disorder)	305698019	Antepartum hemorrhage with coagulation defect - delivered	PN	PNP		
198918004	Antepartum hemorrhage with coagulation defect - not delivered (disorder)	305701010	Antepartum hemorrhage with coagulation defect - not delivered	PN	PNP		641.30
198922009	Antepartum hemorrhage with trauma - delivered (disorder)	305708016	Antepartum hemorrhage with trauma - delivered	PN	PNP		
31563000	Asymptomatic bacteriuria in pregnancy (disorder)	52764015	Asymptomatic bacteriuria in pregnancy	PN	PNP	1	646.50
6096002	Breech presentation (finding)	11135016	Breech presentation	PN	PNP	2	652.20
17382005	Cervical incompetence (disorder)	29390018	Cervical incompetence	PN	PNP	1	654.50
23588006	Cholestasis of pregnancy (disorder)	353610019	Cholestasis of pregnancy	PN	PNP	2	646.70
267216000	Congenital abnormality of uterus complicating antenatal care, baby not yet delivered (disorder)	398360013	Congenital abnormality of uterus complicating antenatal care, baby not yet delivered	PN	PNP		654.00
267249009	Congenital or acquired abnormality of vulva complicating antenatal care - baby not yet delivered (disorder)	398400012	Congenital or acquired abnormality of vulva complicating antenatal care - baby not yet delivered	PN	PNP		654.80
275412000	Cystitis of pregnancy (disorder)	411392011	Cystitis of pregnancy	PN	PNP		646.60
276369006	Reduced fetal movement (finding)	412470010	Decreased fetal movement	PN	PNP	1	655.70
63339007	Disorder of uterine cervix (disorder)	105291017	Disorder of cervix	PN	PNP	2	622.9

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
24184005	Finding of increased blood pressure (finding)	196353013	Elevated blood pressure	PN	PNP	2	796.2
44772007	Maternal obesity syndrome (disorder)	494017018	Excessive weight gain in pregnancy	PN	PNP	2	646.10
338390006	Genital herpes simplex (disorder)	56485016	Genital herpes simplex	PN	PNP	1	054.10
267204006	Genitourinary tract infection in pregnancy (disorder)	398348012	Genitourinary tract infections in pregnancy	PN	PNP	2	646.60
11687002	Gestational diabetes mellitus (disorder)	1220319015	Gestational diabetes	PN	PNP	2	648.80
35255008	Gonorrhea in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	58828015	Gonorrhea in mother complicating pregnancy, childbirth and/or puerperium	PN	PNP		647.10
1631000119103	Group B Streptococcus carrier (finding)	12981000119116	Group B Streptococcus carrier	PN	PNP		V02.51
86081009	Herpes gestationis (disorder)	142732017	Herpes gestationis	PN	PNP	1	646.80
417044008	Hydatidiform mole, benign (disorder)	2554027018	Hydatidiform mole	PN	PNP	1	630.
199028004	Hyperemesis gravidarum with metabolic disturbance - not delivered (disorder)	305853010	Hyperemesis gravidarum with metabolic disturbance - not delivered	PN	PNP		643.13
199110003	Infections of kidney in pregnancy (disorder)	305976014	Infections of kidney in pregnancy	PN	PNP	2	646.60
199112006	Infections of the genital tract in pregnancy (disorder)	305978010	Infections of the genital tract in pregnancy	PN	PNP	1	646.60
40609001	Infectious disease in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	67735019	Infectious disease in mother complicating pregnancy, childbirth AND/OR puerperium	PN	PNP	1	647.80
53024001	Insufficient weight gain of pregnancy (disorder)	88206015	Insufficient weight gain of pregnancy	PN	PNP	2	646.80
38331001	Late vomiting of pregnancy (disorder)	64151010	Late vomiting of pregnancy	PN	PNP	1	643.20
15230009	Liver disorder in pregnancy (disorder)	25847015	Liver disorder in pregnancy	PN	PNP	1	646.70
37796009	Migraine (disorder)	63055014	Migraine	PN	PNP	1	346.90
19569008	Mild hyperemesis gravidarum (disorder)	32948013	Mild hyperemesis gravidarum	PN	PNP	1	643.00
41114007	Mild pre-eclampsia (disorder)	68583017	Mild pre-eclampsia	PN	PNP	2	642.40
237281009	Moderate proteinuric hypertension of pregnancy (disorder)	355625017	Moderate pre-eclampsia	PN	PNP		
59566000	Oligohydramnios (disorder)	98935017	Oligohydramnios	PN	PNP	1	658.00

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
17787002	Peripheral neuritis in pregnancy (disorder)	30054019	Peripheral neuritis in pregnancy	PN	PNP	1	646.40
198903000	Placenta previa with hemorrhage (disorder)	305666013	Placenta previa with hemorrhage	PN	PNP	1	641.10
7792000	Placenta previa without hemorrhage (disorder)	13887014	Placenta previa without hemorrhage	PN	PNP	1	641.00
198910006	Placental abruption - delivered (disorder)	305680018	Placental abruption - delivered	PN	PNP		641.21
198911005	Placental abruption - not delivered (disorder)	305681019	Placental abruption - not delivered	PN	PNP		641.23
86203003	Polyhydramnios (disorder)	142942011	Polyhydramnios	PN	PNP	1	657.00
36440009	Failure to gain weight (finding)	1228649014	Poor weight gain	PN	PNP	1	783.41
58703003	Postpartum depression (disorder)	97552012	postpartum depression	PN	PNP		648.44
199064003	Post-term pregnancy - not delivered (disorder)	305910011	Post-term pregnancy - not delivered	PN	PNP	2	645.13
198997005	Pre-eclampsia or eclampsia with pre-existing hypertension (disorder)	305818015	Pre-eclampsia with pre-existing hypertension	PN	PNP	2	642.70
90968009	Prolonged pregnancy (disorder)	150749014	Pregnancy beyond 42 weeks of gestation	PN	PNP		
367494004	Premature birth of newborn (finding)	492432019	Premature birth of newborn	PN	PNP	2	634.90
239102001	Pruritus of pregnancy (disorder)	358326013	Pruritis of pregnancy	PN	PNP		646.80
102878001	Recurrent abortion (disorder)	255966015	Recurrent miscarriage	PN	PNP	2	646.30
84939004	Rubella in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	140828013	Rubella in mother complicating pregnancy, childbirth AND/OR puerperium	PN	PNP	1	647.50
302764009	Rubella non-immune (finding)	444637016	Rubella non-immune	PN	PNP		
46764007	Severe pre-eclampsia (disorder)	77942011	Severe pre-eclampsia	PN	PNP		642.50
19169002	Spontaneous abortion in first trimester (disorder)	32303015	Spontaneous abortion in first trimester	PN	PNP	2	634.90
34614007	Spontaneous abortion with complication (disorder)	57765014	Spontaneous abortion with complication	PN	PNP	1	634.80
392721003	Symptoms of depression (finding)	1466902015	Symptoms of depression	PN	PNP		311
34242002	Syphilis in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	57172017	Syphilis in mother complicating pregnancy, childbirth and/or puerperium	PN	PNP		647.00

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
54048003	Threatened abortion (disorder)	89833018	Threatened abortion	PN	PNP	1	640.00
73790007	Threatened abortion in first trimester (disorder)	122552014	Threatened abortion in first trimester	PN	PNP	2	640.00
75933004	Threatened abortion in second trimester (disorder)	126128011	Threatened abortion in second trimester	PN	PNP	2	640.00
4946002	Threatened premature labor (disorder)	9260010	Threatened premature labor	PN	PNP	1	644.00
267317007	Tuberculosis in pregnancy (disorder)	398558010	Tuberculosis in pregnancy	PN	PNP		647.33
27215002	Uterine inversion (disorder)	45505015	Uterine inversion	PN	PNP	2	621.6
430933008	Gravid uterus size for dates discrepancy (finding)	2764425019	Uterine size for dates discrepancy	PN	PNP		649.63
27075004	Venereal disease in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	45296013	Venereal disease in mother complicating pregnancy, childbirth and/or puerperium	PN	PNP		647.20
666838013	Venereal disease in pregnancy (disorder)	409879014	Venereal disease in pregnancy	PN	PNP		647.23
31516002	Viral disease in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	52684014	Viral disease in mother complicating pregnancy, childbirth AND/OR puerperium	PN	PNP		647.60
90325002	Vomiting of pregnancy (disorder)	149715015	Vomiting of pregnancy	PN	PNP	1	643.90
372051007	Abnormal glucose test in the puerperium - baby delivered during current episode of care (disorder)	1210628019	Abnormal glucose test in the puerperium - baby delivered during current episode of care	PN	PPP		648.84
372050008	Abnormal glucose test in the puerperium - baby delivered during previous episode of care (disorder)	1210628010	Abnormal glucose test in the puerperium - baby delivered during previous episode of care	PN	PPP		648.84
45828008	Anemia in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	76428016	Anemia in mother complicating pregnancy, childbirth AND/OR puerperium	PN	PPP		648.22
195967001	Asthma (disorder)	301485011	Asthma	PN	PPP	1	493.90
199100007	Asymptomatic bacteriuria in pregnancy - delivered with postnatal complication (disorder)	305964014	Asymptomatic bacteriuria in pregnancy - delivered with postnatal complication	PN	PPP		646.54

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
198944004	Postpartum Benign Essential Hypertension	305752012	Benign essential hypertension complicating pregnancy, childbirth and the puerperium - delivered	PN	PPP		642.04
198945003	Benign essential hypertension complicating pregnancy, childbirth and the puerperium – delivered with postnatal complication (disorder)	305753019	Benign essential hypertension complicating pregnancy, childbirth and the puerperium - delivered with postnatal complication	PN	PPP		642.02
200419004	Breast engorgement in pregnancy the puerperium or lactation - delivery with postnatal complication (finding)	302000018	Breast engorgement in pregnancy the puerperium or lactation - delivery with postnatal complication	PN	PPP		676.24
199485007	Cervical incompetence with postnatal complication (disorder)	306476012	Cervical incompetence with postnatal complication	PN	PPP		654.54
200338007	Cesarean wound disruption with postnatal complication (disorder)	307894018	Cesarean wound disruption with postnatal complication	PN	PPP		674.14
200046004	Complications of anesthesia during labor and delivery (disorder)	307426016	Complications of anesthesia during labor and delivery	PN	PPP		668.82
80113008	Complication of the puerperium (disorder)	132914011	Complication of the puerperium	PN	PPP		674.84
199745000	Complications occurring during labor and delivery (disorder)	306911017	Complications occurring during labor and delivery	PN	PPP		669.84
200411001	Cracked nipple in pregnancy, the puerperium or lactation - delivered (disorder)	307992015	Cracked nipple in pregnancy, the puerperium or lactation - delivered	PN	PPP		676.14
2317006	Delayed AND/OR secondary postpartum hemorrhage (disorder)	38911013	Delayed AND/OR secondary postpartum hemorrhage	PN	PPP		666.20
23171006	Delayed AND/OR secondary postpartum hemorrhage (disorder)	1217650013	Delayed postpartum hemorrhage	PN	PPP		666.24
199226008	Diabetes mellitus in the puerperium - baby delivered during previous current of care (disorder)	306109013	Diabetes mellitus in the puerperium - baby delivered during previous current of care	PN	PPP		648.01

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
199228009	Diabetes mellitus in the puerperium - baby delivered during previous episode of care (disorder)	306111016	Diabetes mellitus in the puerperium - baby delivered during previous episode of care	PN	PPP		648.01
35046003	Disorder of lactation (disorder)	58484011	Disorder of lactation	PN	PPP		676.84
199253007	Drug dependence in the puerperium - baby delivered (disorder)	306145011	Drug dependence in the puerperium - baby delivered	PN	PPP		648.34
198990007	Eclampsia – delivered (disorder)	305808013	Eclampsia - delivered	PN	PPP		642.64
198991006	Eclampsia – delivered with postnatal complication (disorder)	305809017	Eclampsia – delivered with postnatal complication	PN	PPP		642.62
44771007	Maternal obesity sundrome (disorder)	494017018	Excessive weight gain in pregnancy	PN	PPP		646.10
200433004	Failure of lactation - delivered (disorder)	585174016	Failure of lactation - delivered	PN	PPP		676.44
57759005	First degree perineal laceration (disorder)	96047017	First degree perineal laceration	PN	PPP		664.04
399031001	Fourth degree perineal laceration (disorder)	1778499013	Fourth degree perineal laceration	PN	PPP		664.34
199103008	Genitourinary tract infection in pregnancy with postpartum complications (disorder)	305975013	Genitourinary tract infection in pregnancy with postpartum complications	PN	PPP		646.64
27214003	Atonic postpartum hemorrhage (disorder)	45502017	Immediate postpartum hemorrhage	PN	PPP		666.14
19773009	Infection of the breast AND/OR nipple associated with childbirth (disorder)	33301013	Infection of the breast AND/OR nipple associated with childbirth	PN	PPP		675.94
200102005	Maternal distress with postnatal problem (disorder)	307536010	Maternal distress with postnatal problem	PN	PPP		669.02
199164000	Maternal gonorrhoea in the puerperium - baby delivered during current episode of care (disorder)	306040016	Maternal gonorrhoea in the puerperium - baby delivered during current episode of care	PN	PPP		647.14
200114002	Maternal hypotension syndrome with postnatal problem (disorder)	307548013	Maternal hypotension syndrome with postnatal problem	PN	PPP		669.24

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
199157002	Maternal syphilis in the puerperium - baby delivered during current episode of care (disorder)	306030019	Maternal syphilis in the puerperium - baby delivered during current episode of care	PN	PPP		647.04
199159004	Maternal syphilis in the puerperium - baby delivered during previous episode of care (disorder)	306032010	Maternal syphilis in the puerperium - baby delivered during previous episode of care	PN	PPP		647.04
427189007	Maternal tobacco use (Finding)	2673916013	Maternal tobacco use	PN	PPP		
199262009	Mental disorder in the puerperium - baby delivered during previous episode of care (disorder)	306154014	Mental disorder in the puerperium - baby delivered during previous episode of care	PN	PPP		648.42
41114007	Mild pre-eclampsia (disorder)	68583017	Mild pre-eclampsia	PN	PPP		642.40
414916001	Obesity (disorder)	2535065012	Obesity	PN	PPP	1	278.00
200377005	Obstetric breast abscess with postnatal complication (disorder)	307951012	Obstetric breast abscess with postnatal complication	PN	PPP		675.14
199980006	Obstetric high vaginal laceration with postnatal problem	307294010	Obstetric high vaginal laceration with postnatal problem	PN	PPP		665.44
199975002	Obstetric laceration of cervix with postnatal problem (disorder)	307288019	Obstetric laceration of cervix with postnatal problem	PN	PPP		665.34
200370007	Obstetric nipple infection with postnatal complication (disorder)	307972016	Obstetric nipple infection with postnatal complication	PN	PPP		675.04
64229006	Traumatic lesion during delivery (disorder)	1232541016	Obstetric trauma	PN	PPP		665.94
200343000	Obstetrical perineal wound disruption with postnatal complication (disorder)	307903016	Obstetrical perineal wound disruption with postnatal complication	PN	PPP		674.24
398019008	Perineal laceration during delivery (disorder)	1777593013	Perineal laceration during delivery	PN	PPP		664.44
199093003	Peripheral neuritis in pregnancy - delivered (disorder)	305957012	Peripheral neuritis in pregnancy - delivered	PN	PPP		646.44

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
200030007	Postpartum coagulation defects - delivered with postnatal problem (disorder)	307382015	Postpartum coagulation defects - delivered with postnatal problem	PN	PPP		666.30
58703003	Postpartum depression (disorder)	97552012	Postpartum depression	PN	PPP		648.44
362973001	Disorder of puerperium	1228471011	Postpartum disorder	PN	PPP		646.84
86216003	Mastitis, associated with childbirth (disorder)	142971012	Postpartum mastitis	PN	PPP		675.24
83916000	Postpartum thrombophlebitis (disorder)	139156013	Postpartum thrombophlebitis	PN	PPP		671.24
52772002	Postpartum thyroiditis (disorder)	87803017	Postpartum thyroiditis	PN	PPP		648.14
199003007	Pre-eclampsia or eclampsia with pre-existing hypertension with postnatal complication (disorder)	305824014	Pre-eclampsia or eclampsia with pre-existing hypertension with postnatal complication	PN	PPP		642.72
19899008	Pre-eclampsia or eclampsia with pre-existing hypertension – delivered (disorder)	305820017	Pre-eclampsia or eclampsia with pre-existing hypertension – delivered	PN	PPP		642.74
31407004	Pre-existing hypertension complicating AND/OR reason for care during puerperium (disorder)	52501011	Pre-existing hypertension complicating AND/OR reason for care during puerperium	PN	PPP		642.94
200181000	Puerperal endometritis - delivered with postnatal complication (disorder)	307666012	Puerperal endometritis - delivered with postnatal complication	PN	PPP		670.14
200281008	Puerperal pyrexia of unknown origin with postnatal complication (disorder)	307812018	Puerperal pyrexia of unknown origin with postnatal complication	PN	PPP		672.04
2858002	Puerperal septicemia (disorder)	5835013	Puerperal sepsis	PN	PPP		670.24
200038000	Retained placenta with no hemorrhage with postnatal problem (disorder)	307406015	Retained placenta with no hemorrhage with postnatal problem	PN	PPP		667.02
111453004	Retained placenta, without hemorrhage (disorder)	178694013	Retained placenta, without hemorrhage	PN	PPP		667.04
200404000	Retracted nipple in pregnancy, the puerperium or lactation - delivered (disorder)	307983018	Retracted nipple in pregnancy, the puerperium or lactation - delivered	PN	PPP		676.04

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
6234006	Second degree perineal laceration (disorder)	11342014	Second degree perineal laceration	PN	PPP		664.14
200025008	Secondary postpartum hemorrhage - delivered with postnatal problem (disorder)	307370012	Secondary postpartum hemorrhage - delivered with postnatal problem	PN	PPP		666.22
128613002	Seizure disorder (disorder)	206998011	Seizure disorder	PN	PPP	2	345.90
198983002	Severe pre-eclampsia - delivered (disorder)	305801016	Severe pre-eclampsia - delivered	PN	PPP		642.54
1989848008	Severe pre-eclampsia - delivered with postnatal complication (disorder)	305802014	Severe pre-eclampsia - delivered with postnatal complication	PN	PPP		642.52
77176002	Smoker (finding)	128130017	Smoker	PN	PPP	2	305.10
30506002	Suppressed lactation (disorder)	51052018	Suppressed lactation	PN	PPP		676.54
10217006	Third degree perineal laceration	17802016	Third degree perineal laceration	PN	PPP		664.24
200015003	Third-stage postpartum hemorrhage - delivered with postnatal problem (disorder)	307350018	Third-stage postpartum hemorrhage - delivered with postnatal problem	PN	PPP		666.02
198965005	Transient hypertension of pregnancy - delivered (disorder)	305774018	Transient hypertension of pregnancy - delivered	PN	PPP		642.34
267268007	Trauma to perineum and/or vulva during delivery (disorder)	1489893013	Trauma to perineum and/or vulva during delivery	PN	PPP		664.84
200207009	Varicose veins of legs in pregnancy and the puerperium - delivered with postnatal complication (disorder)	307701014	Varicose veins of legs in pregnancy and the puerperium - delivered with postnatal complication	PN	PPP		671.04
267282007	Varicose veins of perineum and vulva in pregnancy and the puerperium (disorder)	398446012	Varicose veins of perineum and vulva in pregnancy and the puerperium	PN	PPP	1	671.10
27075004	Venereal disease in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	45296013	Venereal disease in mother complicating pregnancy, childbirth AND/OR puerperium	PN	PPP		647.20

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
57718004	Venous complication in pregnancy AND/OR the puerperium (disorder)	95984012	Venous complication in pregnancy AND/OR the puerperium	PN	PPP		671.94
271652003	Varicose vein finding (disorder)	406510010	Vericose vein finding	PN	PPP		
31516002	Viral disease in mother complicating pregnancy, childbirth AND/OR puerperium (disorder)	52684014	Viral disease in mother complicating pregnancy, childbirth AND/OR puerperium	PN	PPP		647.60
225481000	Abusive behavior (finding)	338847010	Abusive behavior	PN	SR	2	312.89
77427003	Activity intolerance (finding)	213790011	Activity intolerance	PN	SR	0	
406161008	Alteration in parenting (finding)	2157867017	Alteration in parenting	PN	SR	0	
78633001	Altered thought processes (finding)	130480011	Altered thought processes	PN	SR	2	298.8
169593004	Antenatal care: poor antenatal attender (finding)	2667784011	Antenatal care: poor antenatal attender	PN	SR		
169592009	Antenatal care: poor home conditions (finding)	2667783017	Antenatal care: poor home conditions	PN	SR	0	
169591002	Antenatal care: social risk (situation)	2667782010	Antenatal care: social risk	PN	SR		
14621004	Anticipatory grief (finding)	476461012	Anticipatory grief	PN	SR	2	309.0
129700008	At risk for caregiver role strain (finding)	208537016	At risk for caregiver role strain	PN	SR	0	
8317005	At risk for deficient parenting (finding)	213821011	At risk for deficient parenting	PN	SR	0	
129699007	At risk for impaired parent / infant / child attachment (finding)	208536013	At risk for impaired parent / infant / child attachment	PN	SR	0	
81763001	At risk for injury (finding)	213771015	At risk for injury	PN	SR	0	
129707006	At risk for other-directed violence (finding)	208544013	At risk for other-directed violence	PN	SR	0	
129711000	At risk for relocation stress syndrome (finding)	208548011	At risk for relocation stress syndrome	PN	SR	0	
129709009	At risk for self-directed violence (finding)	208546010	At risk for self-directed violence	PN	SR	0	
129838004	At risk for situational low self-esteem (finding)	208682011	At risk for situational low self-esteem	PN	SR	0	
392562007	At risk for sudden infant death syndrome (finding)	1486540015	At risk for sudden infant death syndrome	PN	SR	0	
65108000	At risk for violence (finding)	213825019	At risk for violence	PN	SR	0	

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
129891007	Caregiver role strain (finding)	208751019	Caregiver role strain	PN	SR	0	
424661000	Cluttered living space (finding)	2645527013	Cluttered living space	PN	SR	0	
78222005	Denial - mental defense mechanism (finding)	503789019	Denial - mental defense mechanism	PN	SR	2	307.9
423385005	Difficulty bonding with unborn baby (finding)	2645420012	Difficulty bonding with unborn baby	PN	SR	0	
18232000	Difficulty coping (finding)	478519012	Difficulty coping	PN	SR	2	309.9
424474002	Difficulty coping with postpartum changes (finding)	2645426018	Difficulty coping with postpartum changes	PN	SR	0	
422761005	Difficulty managing stress (finding)	2645340016	Difficulty managing stress	PN	SR	2	V62.89
423124001	Diminished judgement (finding)	2645347018	Diminished judgement	PN	SR	0	
424415008	Dirty living conditions (finding)	2645285018	Dirty living conditions	PN	SR	0	
63384009	Distorted body image (finding)	499580017	Distorted body image	PN	SR	2	300.9
404189009	Domestic violence (event)	2156086019	Domestic violence	PN	SR		
129878006	Dysfunctional family due to alcoholism (finding)	208732013	Dysfunctional family due to alcoholism	PN	SR		
1402001	Fear (finding)	2665410014	Fear	PN	SR	2	300.20
424009001	Fears delivery procedure (finding)	2645424015	Fears delivery procedure	PN	SR	0	
307077003	Feeling hopeless (finding)	450255017	Feeling hopeless	PN	SR	2	300.9
33300005	Feeling powerless (finding)	485477014	Feeling powerless	PN	SR	2	300.9
224965009	Grief finding (finding)	1222767015	Grief	PN	SR	2	309.0
412732008	History of domestic violence (situation)	2613159016	History of domestic violence	PN	SR		
32911000	Homeless (finding)	485356010	Homeless	PN	SR	2	V60.0
406160009	Impaired parenting (finding)	2157866014	Impaired parenting	PN	SR	2	
88598008	Impaired social interaction (finding)	146897017	Impaired social interaction	PN	SR	2	312.20
286756000	Impulsive character (finding)	2646762011	Impulsiveness	PN	SR	0	
105532006	Overcrowded in house (finding)	516515019	Inadequate housing	PN	SR		
423730009	Inadequate laundry facilities (finding)	2645295013	Inadequate laundry facilities	PN	SR	0	
424739004	Income sufficient to buy only necessities (finding)	2645399016	Income sufficient to buy only necessities	PN	SR	0	
47695004	Inability to cope (finding)	213831016	Ineffective coping	PN	SR	2	309.89
423562005	Lacks necessary supervision (finding)	2643116017	Lacks necessary supervision	PN	SR	0	
423315002	Limited social contact (finding)	2645538013	Limited social contact	PN	SR	0	
138092000	Inadequate housing (finding)	169622013	Living in inadequate housing	PN	SR		

CONCEPT ID	FULLY SPECIFIED NAME	DESCRIPTION ID	SNOMED TERM	Subset	Filter	MAP ADVICE	ICD Codes
247798006	Loss of hope for the future (finding)	369974012	Loss of hope for the future	PN	SR	2	301.89
386807006	Memory impairment (finding)	1480927011	Memory impairment	PN	SR		
169607004	No antenatal care (situation)	263150016	No antenatal care	PN	SR		
63225009	Offensive body odor (finding)	499515019	Offensive body odor	PN	SR	2	796.4
39093002	Post-trauma response (finding)	65578014	Post-trauma response	PN	SR	2	298.8
54231004	Rape trauma syndrome (finding)	90142019	Rape trauma syndrome	PN	SR	2	958.4
78629008	Total self-care deficit (finding)	1234274019	Self -care deficit	PN	SR	2	V41.8
130968006	Self-mutilation (finding)	210603011	Self-mutilation	PN	SR	2	300.9
422608009	Sexual assault (finding)	2645569012	Sexual assault	PN	SR	0	
129871000	Situational low self-esteem (finding)	208723011	Situational low self-esteem	PN	SR	2	300.9
130989002	Sleep deprivation (finding)	210629011	Sleep deprivation	PN	SR	2	780.50
26677001	Sleep pattern disturbance (finding)	44660011	Sleep-pattern disturbance	PN	SR	2	780.59
422650009	Social isolation (finding)	2645385015	Social isolation	PN	SR	2	V62.4
26110006	Spiritual distress (finding)	213839019	Spiritual distress	PN	SR	0	
83074005	Unplanned pregnancy (finding)	505420016	Unplanned pregnancy	PN	SR	2	V22.2
424466003	Water supply insufficient (finding)	2645292011	Water supply insufficient	PN	SR	0	

## Appendix C: RPMS Rules of Behavior

The RPMS system is a United States Department of Health and Human Services IHS information system that is **FOR OFFICIAL USE ONLY**. The RPMS system is subject to monitoring; therefore, no expectation of privacy shall be assumed. Individuals found performing unauthorized activities are subject to disciplinary action including criminal prosecution.

All users (Contractors and IHS Employees) of RPMS will be provided a copy of the Rules of Behavior (RoB) and must acknowledge that they have received and read them prior to being granted access to a RPMS system, in accordance IHS policy.

- For a listing of general Rules of Behavior for all users, see the most recent edition of *IHS General User Security Handbook* (SOP 06-11a).
- For a listing of system administrators/managers rules, see the most recent edition of the *IHS Technical and Managerial Handbook* (SOP 06-11b).

Both documents are available at this IHS web site: <http://security.ihs.gov/>

The Rules of Behavior listed in the following sections are specific to RPMS.

### C.1 All RPMS Users

In addition to these rules, each application may include additional RoBs that may be defined within the documentation of that application e.g., PCC, Dental, Pharmacy.

#### C.1.1 Access

RPMS users shall

- Only use data for which you have been granted authorization.
- Only give information to personnel who have access authority and have a need to know.
- Always verify a caller's identification and job purpose with your supervisor or the entity provided as employer before providing any type of information system access, sensitive information, or nonpublic agency information.
- Be aware that personal use of information resources is authorized on a limited basis within the provisions *Indian Health Manual* Part 8, "Information Resources Management," Chapter 6, "Limited Personal Use of Information Technology Resources."

RPMS users shall not

- Retrieve information for someone who does not have authority to access the information.

- Access, research, or change any user account, file, directory, table, or record not required to perform their *official* duties.
- Store sensitive files on a personal computer (PC) hard drive, or portable devices or media, if access to the PC or files cannot be physically or technically limited.
- Exceed their authorized access limits in RPMS by changing information or searching databases beyond the responsibilities of their jobs or by divulging information to anyone not authorized to know that information.

### C.1.2 Information Accessibility

RPMS shall restrict access to information based on the type and identity of the user. However, regardless of the type of user, access shall be restricted to the minimum level necessary to perform the job.

RPMS users shall

- Access only those documents they created and those other documents to which they have a valid need-to-know and to which they have specifically granted access through an RPMS application based on their menus (job roles), keys, and FileMan access codes. Some users may be afforded additional privileges based on the functions they perform, such as system administrator or application administrator.
- Acquire a written preauthorization in accordance with IHS policies and procedures prior to interconnection to or transferring data from RPMS.

### C.1.3 Accountability

RPMS users shall

- Behave in an ethical, technically proficient, informed, and trustworthy manner.
- Log out of the system whenever they leave the vicinity of their PCs.
- Be alert to threats and vulnerabilities in the security of the system.
- Report all security incidents to their local Information System Security Officer (ISSO).
- Differentiate tasks and functions to ensure that no one person has sole access to or control over important resources.
- Protect all sensitive data entrusted to them as part of their government employment.
- Abide by all Department and Agency policies and procedures and guidelines related to ethics, conduct, behavior, and information technology (IT) information processes.

### C.1.4 Confidentiality

RPMS users shall

- Be aware of the sensitivity of electronic and hard copy information, and protect it accordingly.
- Store hard copy reports/storage media containing confidential information in a locked room or cabinet.
- Erase sensitive data on storage media prior to reusing or disposing of the media.
- Protect all RPMS terminals from public viewing at all times.
- Abide by all Health Insurance Portability and Accountability Act (HIPAA) regulations to ensure patient confidentiality.

RPMS users shall not

- Allow confidential information to remain on the PC screen when someone who is not authorized to that data is in the vicinity.
- Store sensitive files on a portable device or media without encrypting.

### C.1.5 Integrity

RPMS users shall

- Be aware of the sensitivity of electronic and hard copy information, and protect it accordingly.
- Store hard copy reports/storage media containing confidential information in a locked room or cabinet.
- Erase sensitive data on storage media prior to reusing or disposing of the media.
- Protect all RPMS terminals from public viewing at all times.
- Abide by all HIPAA regulations to ensure patient confidentiality.

RPMS users shall not

- Allow confidential information to remain on the PC screen when someone who is not authorized to that data is in the vicinity.
- Store sensitive files on a portable device or media without encrypting.

### C.1.6 System Logon

RPMS users shall

- Have a unique User Identification/Account name and password.
- Be granted access based on authenticating the account name and password entered.

- Be locked out of an account after 5 successive failed login attempts within a specified time period (e.g., one hour).

### C.1.7 Passwords

RPMS users shall

- Change passwords a minimum of every 90 days.
- Create passwords with a minimum of eight characters.
- If the system allows, use a combination of alpha-numeric characters for passwords, with at least one uppercase letter, one lower case letter, and one number. It is recommended, if possible, that a special character also be used in the password.
- Change vendor-supplied passwords immediately.
- Protect passwords by committing them to memory or store them in a safe place (do not store passwords in login scripts or batch files).
- Change passwords immediately if password has been seen, guessed, or otherwise compromised, and report the compromise or suspected compromise to their ISSO.
- Keep user identifications (IDs) and passwords confidential.

RPMS users shall not

- Use common words found in any dictionary as a password.
- Use obvious readable passwords or passwords that incorporate personal data elements (e.g., user's name, date of birth, address, telephone number, or social security number; names of children or spouses; favorite band, sports team, or automobile; or other personal attributes).
- Share passwords/IDs with anyone or accept the use of another's password/ID, even if offered.
- Reuse passwords. A new password must contain no more than five characters per eight characters from the previous password.
- Post passwords.
- Keep a password list in an obvious place, such as under keyboards, in desk drawers, or in any other location where it might be disclosed.
- Give a password out over the phone.

### C.1.8 Backups

RPMS users shall

- Plan for contingencies such as physical disasters, loss of processing, and disclosure of information by preparing alternate work strategies and system recovery mechanisms.
- Make backups of systems and files on a regular, defined basis.
- If possible, store backups away from the system in a secure environment.

### C.1.9 Reporting

RPMS users shall

- Contact and inform their ISSO that they have identified an IT security incident and begin the reporting process by providing an IT Incident Reporting Form regarding this incident.
- Report security incidents as detailed in the *IHS Incident Handling Guide* (SOP 05-03).

RPMS users shall not

- Assume that someone else has already reported an incident. The risk of an incident going unreported far outweighs the possibility that an incident gets reported more than once.

### C.1.10 Session Timeouts

RPMS system implements system-based timeouts that back users out of a prompt after no more than 5 minutes of inactivity.

RPMS users shall

- Utilize a screen saver with password protection set to suspend operations at no greater than 10-minutes of inactivity. This will prevent inappropriate access and viewing of any material displayed on your screen after some period of inactivity.

### C.1.11 Hardware

RPMS users shall

- Avoid placing system equipment near obvious environmental hazards (e.g., water pipes).
- Keep an inventory of all system equipment.
- Keep records of maintenance/repairs performed on system equipment.

RPMS users shall not

- Eat or drink near system equipment

### C.1.12 Awareness

RPMS users shall

- Participate in organization-wide security training as required.
- Read and adhere to security information pertaining to system hardware and software.
- Take the annual information security awareness.
- Read all applicable RPMS Manuals for the applications used in their jobs.

### C.1.13 Remote Access

Each subscriber organization establishes its own policies for determining which employees may work at home or in other remote workplace locations. Any remote work arrangement should include policies that

- Are in writing.
- Provide authentication of the remote user through the use of ID and password or other acceptable technical means.
- Outline the work requirements and the security safeguards and procedures the employee is expected to follow.
- Ensure adequate storage of files, removal, and nonrecovery of temporary files created in processing sensitive data, virus protection, and intrusion detection, and provide physical security for government equipment and sensitive data.
- Establish mechanisms to back up data created and/or stored at alternate work locations.

Remote RPMS users shall

- Remotely access RPMS through a virtual private network (VPN) whenever possible. Use of direct dial in access must be justified and approved in writing and its use secured in accordance with industry best practices or government procedures.

Remote RPMS users shall not

- Disable any encryption established for network, internet, and Web browser communications.

## C.2 RPMS Developers

RPMS developers shall

- Always be mindful of protecting the confidentiality, availability, and integrity of RPMS when writing or revising code.
- Always follow the IHS RPMS Programming Standards and Conventions (SAC) when developing for RPMS.
- Only access information or code within the namespaces for which they have been assigned as part of their duties.
- Remember that all RPMS code is the property of the U.S. Government, not the developer.
- Not access live production systems without obtaining appropriate written access, and shall only retain that access for the shortest period possible to accomplish the task that requires the access.
- Observe separation of duties policies and procedures to the fullest extent possible.
- Document or comment all changes to any RPMS software at the time the change or update is made. Documentation shall include the programmer's initials, date of change, and reason for the change.
- Use checksums or other integrity mechanism when releasing their certified applications to assure the integrity of the routines within their RPMS applications.
- Follow industry best standards for systems they are assigned to develop or maintain, and abide by all Department and Agency policies and procedures.
- Document and implement security processes whenever available.

RPMS developers shall not

- Write any code that adversely impacts RPMS, such as backdoor access, "Easter eggs," time bombs, or any other malicious code or make inappropriate comments within the code, manuals, or help frames.
- Grant any user or system administrator access to RPMS unless proper documentation is provided.
- Release any sensitive agency or patient information.

## C.3 Privileged Users

Personnel who have significant access to processes and data in RPMS, such as, system security administrators, systems administrators, and database administrators, have added responsibilities to ensure the secure operation of RPMS.

Privileged RPMS users shall

- Verify that any user requesting access to any RPMS system has completed the appropriate access request forms.
- Ensure that government personnel and contractor personnel understand and comply with license requirements. End users, supervisors, and functional managers are ultimately responsible for this compliance.
- Advise the system owner on matters concerning information technology security.
- Assist the system owner in developing security plans, risk assessments, and supporting documentation for the certification and accreditation process.
- Ensure that any changes to RPMS that affect contingency and disaster recovery plans are conveyed to the person responsible for maintaining continuity of operations plans.
- Ensure that adequate physical and administrative safeguards are operational within their areas of responsibility and that access to information and data is restricted to authorized personnel on a need-to-know basis.
- Verify that users have received appropriate security training before allowing access to RPMS.
- Implement applicable security access procedures and mechanisms, incorporate appropriate levels of system auditing, and review audit logs.
- Document and investigate known or suspected security incidents or violations and report them to the ISSO, Chief Information Security Officer (CISO), and systems owner.
- Protect the supervisor, superuser, or system administrator passwords.
- Avoid instances where the same individual has responsibility for several functions (i.e., transaction entry and transaction approval).
- Watch for unscheduled, unusual, and unauthorized programs.
- Help train system users on the appropriate use and security of the system.
- Establish protective controls to ensure the accountability, integrity, confidentiality, and availability of the system.
- Replace passwords when a compromise is suspected. Delete user accounts as quickly as possible from the time that the user is no longer authorized system. Passwords forgotten by their owner should be replaced, not reissued.
- Terminate user accounts when a user transfers or has been terminated. If the user has authority to grant authorizations to others, review these other authorizations. Retrieve any devices used to gain access to the system or equipment. Cancel logon IDs and passwords, and delete or reassign related active and backup files.
- Use a suspend program to prevent an unauthorized user from logging on with the current user's ID if the system is left on and unattended.

- Verify the identity of the user when resetting passwords. This can be done either in person or having the user answer a question that can be compared to one in the administrator's database.
- Shall follow industry best standards for systems they are assigned to, and abide by all Department and Agency policies and procedures.

Privileged RPMS users shall not

- Access any files, records, systems, etc., that are not explicitly needed to perform their duties
- Grant any user or system administrator access to RPMS unless proper documentation is provided.
- Release any sensitive agency or patient information.

## Glossary

### **Definitive Estimated Date of Delivery**

The Definitive Estimated Date of Delivery is a specific field located within the Reproductive Factors component. The value of this field is displayed in the PIP and is assigned to each PIP as a way of tracking a patient's pregnancies.

### **Pregnancy Issues and Problem List**

The PIP component serves to maintain the list of issues and risks associated with both current and all pregnancies for providers to consider the prenatal issues associated with the pregnancy in the context of all similar problems.

### **Prenatal Care Module**

The Prenatal Care Module is composed of two Windows®-based GUI components within the EHR. The PCM allows users to manage prenatal problems and issues for a patient during pregnancy.

### **Prenatal Pick List**

The Prenatal Pick List component provides a quick way to locate and add or remove problems from the PIP.

## Acronym List

<b>CISO</b>	Chief Information Security Officer
<b>EHR</b>	Electronic Health Record
<b>EDD</b>	Estimated Date of Delivery
<b>GUI</b>	Graphical User Interface
<b>HHS</b>	Health and Human Services
<b>HIPAA</b>	Health Insurance Portability and Accountability Act
<b>HS</b>	Health Summary
<b>IHS</b>	Indian Health Service
<b>ISSO</b>	Information System Security Officer
<b>IT</b>	Information Technology
<b>MS</b>	Microsoft
<b>OIT</b>	Office of Information Technology
<b>PC</b>	Personal Computer
<b>PPL</b>	Prenatal Pick List
<b>POV</b>	Purpose of Visit
<b>RPMS</b>	Resource and Patient Management System
<b>RoB</b>	Rules of Behavior
<b>SAC</b>	Standards and Conventions
<b>SNOWMED CT®</b>	Systematized Nomenclature of Medicine – Clinical Terms
<b>TIU</b>	Text Integration Utility

**VPN**

Virtual Private Network

## 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](mailto:support@ihs.gov)