



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **iCare Population Management GUI**

(BQI)

## **HIV/AIDS Management User Manual**

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# Table of Contents

|            |   |           |
|------------|---|-----------|
| <b>1.0</b> | <b>Introduction.....</b>                                    | <b>1</b>  |
| 1.1        | Key Functional Features.....                                | 1         |
| 1.2        | Sensitive Patient Data .....                                | 2         |
| <b>2.0</b> | <b>Patient Management.....</b>                              | <b>3</b>  |
| 2.1        | Data Specifically Related to HIV/AIDS.....                  | 3         |
| 2.2        | Search for and View a Patient Record.....                   | 6         |
| 2.2.1      | Using a Panel .....   | 6         |
| 2.2.2      | Using Quick Search.....                                     | 7         |
| 2.3        | Displaying Care Management as Default Tab .....             | 8         |
| 2.4        | Add/Edit Care Management Data .....                         | 8         |
| 2.4.1      | Entering Data on the General Area .....                     | 9         |
| 2.4.2      | Entering Data on the Partner Notification Area.....         | 11        |
| 2.4.3      | Entering Data on the Antiretroviral Status Area .....       | 12        |
| 2.4.4      | Completing the State Notifications Area .....               | 14        |
| 2.4.5      | Completing the Data Entry Process.....                      | 15        |
| 2.5        | HIV/AIDS Diagnostic Tags.....                               | 17        |
| 2.5.1      | Accept/Do Not Accept Proposed HIV/AIDS Diagnostic Tab ..... | 17        |
| 2.5.2      | Change a Diagnostic Tag to Proposed.....                    | 18        |
| 2.5.3      | Manually Add an HIV/AIDS Diagnostic Tag.....                | 19        |
| 2.6        | HMS Patient Care Supplement.....                            | 20        |
| 2.6.1      | Search Methods for the Supplement .....                     | 21        |
| 2.6.2      | Using the Controls on the Report .....                      | 22        |
| 2.7        | Related Conditions .....                                    | 22        |
| 2.7.1      | Opportunistic Infections/AIDS Defining Illnesses .....      | 22        |
| 2.7.2      | AIDS Defining Illnesses .....                               | 26        |
| 2.8        | HIV/AIDS-Related Reminders .....                            | 27        |
| <b>3.0</b> | <b>Panel Management.....</b>                                | <b>30</b> |
| 3.1        | Using the No Predefinition/Population Search.....           | 31        |
| 3.2        | Using the Patients Assigned To Search .....                 | 31        |
| 3.3        | Using the QMAN Template Search.....                         | 31        |
| 3.4        | Using the RPMS Register Parameters Search.....              | 31        |
| 3.5        | Patients with HIV/AIDS Diagnostic Tag Search.....           | 32        |
| 3.6        | Patients with AIDS or HIV on Problem List Search.....       | 32        |
| 3.7        | Patients with AIDS or HIV Reminder Search .....             | 32        |
| 3.8        | Patients Who Visit HIV/AIDS Clinic Search .....             | 33        |
| <b>4.0</b> | <b>Reports.....</b>   | <b>34</b> |
| 4.1        | HMS Patient Care Supplement.....                            | 34        |
| 4.2        | State Surveillance Report (SSR) .....                       | 34        |
| 4.3        | Quality of Care (QOC) Report .....                          | 36        |
| <b>5.0</b> | <b>HIV/AIDS Community Alert .....</b>                       | <b>40</b> |

|                    |  |            |
|--------------------|--|------------|
| <b>6.0</b>         | <b>Taxonomy Management.....</b>                                  | <b>41</b>  |
| 6.1                | What Is a Taxonomy.....  | 41         |
| 6.2                | Taxonomy Nomenclature.....                                       | 41         |
| 6.3                | Software-Defined (Hard-coded) Taxonomies .....                   | 42         |
| 6.4                | Site Populated Taxonomies.....                                   | 42         |
| 6.4.1              | Lab Test Taxonomies .....  | 43         |
| 6.4.2              | Medication Taxonomies.....                                       | 48         |
| 6.5                | View a Taxonomy .....  | 51         |
| 6.6                | View a Report of All Taxonomies.....                             | 53         |
| 6.7                | Identify Empty Taxonomies .....                                  | 53         |
| 6.8                | Add a Member to a Site-Populated Taxonomy .....                  | 54         |
| 6.9                | Remove a Member from a Site-Populated Taxonomy .....             | 58         |
| <b>7.0</b>         | <b>Using the HIV/AIDS Glossary .....</b>                         | <b>61</b>  |
| <b>Appendix A:</b> | <b>Definitions and Taxonomies Content .....</b>                  | <b>64</b>  |
| A.1                | Opportunistic Infections .....                                   | 64         |
| A.2                | AIDS Defining Illnesses .....                                    | 86         |
| A.3                | HIV/AIDS Definitions, Codes, Taxonomies, Attributes.....         | 110        |
| <b>Appendix B:</b> | <b>HIV/AIDS-Related Reminders – Logic and Tooltip Text .....</b> | <b>120</b> |
| B.1                | CD4 Test .....   | 120        |
| B.1.1              | Description Fields Text.....                                     | 120        |
| B.1.2              | Tooltip Text.....  | 120        |
| B.2                | Chlamydia Test.....  | 120        |
| B.2.1              | Description Field Text.....                                      | 120        |
| B.2.2              | Tooltip Text.....  | 122        |
| B.3                | HMS Dental Exam .....  | 123        |
| B.3.1              | Description Field Text.....                                      | 123        |
| B.3.2              | Tooltip Text.....  | 123        |
| B.4                | HMS Eye Exam .....   | 123        |
| B.4.1              | Description Field Text.....                                      | 123        |
| B.4.2              | Tooltip Text.....  | 124        |
| B.5                | Family Planning Education .....                                  | 124        |
| B.5.1              | Description Field Text.....                                      | 124        |
| B.5.2              | Tooltip Text.....  | 125        |
| B.6                | Syphilis (FTA-ABS) Test.....                                     | 125        |
| B.6.1              | Description Field Text.....                                      | 125        |
| B.6.2              | Tooltip Text.....  | 126        |
| B.7                | Gonorrhea Test.....  | 126        |
| B.7.1              | Description Field Text.....                                      | 126        |
| B.7.2              | Tooltip Text.....  | 128        |
| B.8                | Hepatitis A IZ.....  | 128        |
| B.8.1              | Description Field Text.....                                      | 128        |
| B.8.2              | Tooltip Text.....  | 129        |
| B.9                | Hepatitis B IZ.....  | 129        |
| B.9.1              | Description Field Text.....                                      | 129        |
| B.9.2              | Tooltip Text.....  | 129        |

|                    |  |            |
|--------------------|--|------------|
| B.10               | Hepatitis B Retest .....                 | 130        |
| B.10.1             | Description Field Text .....             | 130        |
| B.10.2             | Tooltip Text .....                       | 130        |
| B.11               | Hepatitis B Test .....                   | 130        |
| B.11.1             | Description Field Text .....             | 130        |
| B.11.2             | Tooltip Text .....                       | 131        |
| B.12               | Hepatitis C Confirmatory Test .....      | 131        |
| B.12.1             | Description Field Text .....             | 131        |
| B.12.2             | Tooltip Text .....                       | 132        |
| B.13               | Hepatitis C Screening Test .....         | 132        |
| B.13.1             | Description Field Text .....             | 132        |
| B.13.2             | Tooltip Text .....                       | 133        |
| B.14               | HMS Influenza IZ .....                   | 133        |
| B.14.1             | Description Field Text .....             | 133        |
| B.14.2             | Tooltip Text .....                       | 134        |
| B.15               | HMS Mammogram .....                      | 134        |
| B.15.1             | Description Field Text .....             | 134        |
| B.15.2             | Tooltip Text .....                       | 135        |
| B.16               | HMS Pap Smear .....                      | 135        |
| B.16.1             | Description Field Text .....             | 135        |
| B.16.2             | Tooltip Text .....                       | 136        |
| B.17               | HMS Pneumovax Immunization .....         | 136        |
| B.17.1             | Description Field Text .....             | 136        |
| B.17.2             | Tooltip Text .....                       | 137        |
| B.18               | PPD Test (TB) .....                      | 137        |
| B.18.1             | Description Field Text .....             | 137        |
| B.18.2             | Tooltip Text .....                       | 138        |
| B.19               | Syphilis (RPR) Test .....                | 138        |
| B.19.1             | Description Field Text .....             | 138        |
| B.19.2             | Tooltip Text .....                       | 139        |
| B.20               | Safe Sex Education .....                 | 139        |
| B.20.1             | Description Field Text .....             | 139        |
| B.20.2             | Tooltip Text .....                       | 140        |
| B.21               | Tetanus Immunization .....               | 140        |
| B.21.1             | Description Field Text .....             | 140        |
| B.21.2             | Tooltip Text .....                       | 141        |
| B.22               | Toxoplasmosis .....                      | 141        |
| B.22.1             | Description Field Text .....             | 141        |
| B.22.2             | Tooltip Text .....                       | 142        |
| B.23               | HIV Viral Load Test .....                | 142        |
| B.23.1             | Description Field Text .....             | 142        |
| B.23.2             | Tooltip Text .....                       | 142        |
| <b>Appendix C:</b> | <b>CDC Clinical Classification .....</b> | <b>143</b> |
| <b>Appendix D:</b> | <b>Medications .....</b>                 | <b>146</b> |
| D.1                | ARAV/HAART Definitions .....             | 146        |

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|                                  |  |            |
|----------------------------------|--|------------|
| D.2                              | Medication Categorization for Taxonomy Setup ..... | 146        |
| <b>Appendix E:</b>               | <b>Quality of Care Logic .....</b>                 | <b>149</b> |
| E.1                              | Denominator and Numerator Definitions.....         | 149        |
| E.2                              | Sample Format, Quality of Care Audit .....         | 155        |
| <b>Appendix F:</b>               | <b>HMS Patient Care Supplement .....</b>           | <b>161</b> |
| F.1                              | Supplement Logic.....                              | 161        |
| F.2                              | Flow Sheet Logic .....                             | 169        |
| F.3                              | Example.....                                       | 170        |
| <b>Glossary</b> .....            |  | <b>173</b> |
| <b>Acronym List</b> .....        |  | <b>175</b> |
| <b>Contact Information</b> ..... |  | <b>176</b> |

## Preface

The purpose of this manual is to provide the information for using the iCare (BQI) population management application, specifically for the care and management of Patients Living With HIV/AIDS (PLWH/A). In 2005, the Indian Health Service (IHS) developed and deployed a software application related to the care of this population. That software, HIV Management System (HMS) has now been integrated in the iCare graphical user interface (GUI). The original roll and scroll version is no longer available for use.

This manual contains reference information about iCare views, examples of its processes, and step-by-step procedures on how to perform the activities supported by the application, specifically for HIV/AIDS patient management.

Refer to the main iCare User Manual for more complete, in-depth information about the mechanics of using iCare, such as getting started, logging in, establishing User Preferences, creating patient panels, and using the panel and patient views.

## 1.0 Introduction

AIDS (acquired immunodeficiency syndrome) was first reported in the United States in 1981 and has since become a major worldwide epidemic. AIDS is caused by HIV (human immunodeficiency virus). By killing or damaging cells of the body's immune system, HIV progressively destroys the body's ability to fight infections and certain cancers. People diagnosed with AIDS may get life-threatening diseases called opportunistic infections, which are caused by microbes such as viruses or bacteria that usually do not make healthy people sick.

More than one million cases of AIDS have been reported in the United States since 1981. Reports show that 21 percent of those infected with HIV are unaware of their infection. The epidemic is growing most rapidly among minority populations.

iCare provides Indian Health Service/Tribal/Urban (I/T/U) healthcare providers with another tool for improving the care and management of PLWH/A as well as those who are at risk for the disease.

This information in this document has been developed for physicians, mid-level practitioners, nurses, and case managers responsible for the care of this population. It provides descriptions of and instructions for the following:

- The setup and maintenance of the site-populated taxonomies related to specific medications and laboratory exams. Section 6.0 provides more information.
- The entry of HIV/AIDS-specific patient data. Section 2.0 provides more information.
- The creation and population of panels with PLWH/A patients living with HIV/AIDS. Section 3.0 provides more information.
- Report generation. Section 4.0 provides more information.
- Clinical decision support such as Reminders, Best Practice Prompts and Performance Measures. Appendix B: provides more information.

### 1.1 Key Functional Features

iCare does not duplicate the data from any other RPMS component. All data displayed in or entered will pass to and reside in the appropriate underlying RPMS component (e.g., PCC, HMS)

Key functional features of iCare include:

- The ability to identify a group of patients based on the HIV/AIDS Diagnostic Tag definition.
- The ability to create and manage a panel of patients living with HIV/AIDS and/or At Risk patients.

- The ability to automatically repopulate the panel with new patients who meet the definition.
- An HIV/AIDS Health Supplement that presents condition-specific patient data.
- An HIV Quality of Care report for a population and/or individual that provides care statistics that can be used to evaluate care at the local level and be sent to the Area and/or Headquarters as requested.
- The incorporation of artificial intelligence algorithms to provide reminders for tests, immunizations and other procedures related specifically to HIV/AIDS.
- The provision of both population and patient management and reporting capabilities.
- The identification of patients for state/CDC surveillance reporting.

## 1.2 Sensitive Patient Data

Using iCare and accessing sensitive patient data requires compliance with all procedures related to the security of protected health information.



## 2.0 Patient Management

The individual patient management functions include displaying, entering, and editing data specifically related to HIV/AIDS.

### 2.1 Data Specifically Related to HIV/AIDS

The iCare application contains data fields that are specific to HIV/AIDS patient management. To view all the HIV/AIDS-related data fields in a Panel View:

1. Click the **Care Management** tab.
2. From the **Please Select a Group** list, select **HIV/AIDS**.

| Patient Name            | HRN                                      | DOB          | Registe... | HIV Provi... | HIV Case... | HMS Di                                |
|-------------------------|--|--------------|------------|--------------|-------------|---------------------------------------|
| DEMO,AMENDMENT TWO      | 112025-TST<br>112026-CRIT<br>112027-ASAP | May 22, 1980 | ACTIVE     |              |             | AT RISK<br>EXPOSE<br>SOURCI<br>UNKNO' |
| DEMO,AMENDMENT ONE      | 124221-TST                               | Apr 19, 1954 | ACTIVE     |              |             | AT RISK<br>EXPOSE<br>SOURCI<br>UNKNO' |
| DEMO,SAM                | *103250-TST<br>103251                    | Jul 10, 1958 |            |              |             |                                       |
| DEMO,FLOYD SR           | *103940-TST                              | May 08, 1937 |            |              |             |                                       |
| DEMO,SABINA L           | 104348-TST<br>*104347                    | Sep 24, 1918 |            |              |             |                                       |
| DEMO,FAIRIETTA DANNETTE | *106596-TST<br>106595<br>106597          | Jul 21, 1976 |            |              |             |                                       |
| DEMO,PERRY RAY          | *108897-TST                              | Dec 04, 1982 |            |              |             |                                       |
| DEMO,ASHLEY             | 114649-TST                               | Feb 27, 1990 |            |              |             |                                       |

Figure 2-1: Care Management tab with HIV/AIDS group data

3. Under the **Main** sub-tab, click the **Layout** button.
4. The **HIV/AIDS Layout** window opens.

Located in the top left of the window is the **Available Columns** area. Click the plus sign (+) next to **HIV/AIDS**. All of the sub-items are the iCare data fields specific to HIV/AIDS.

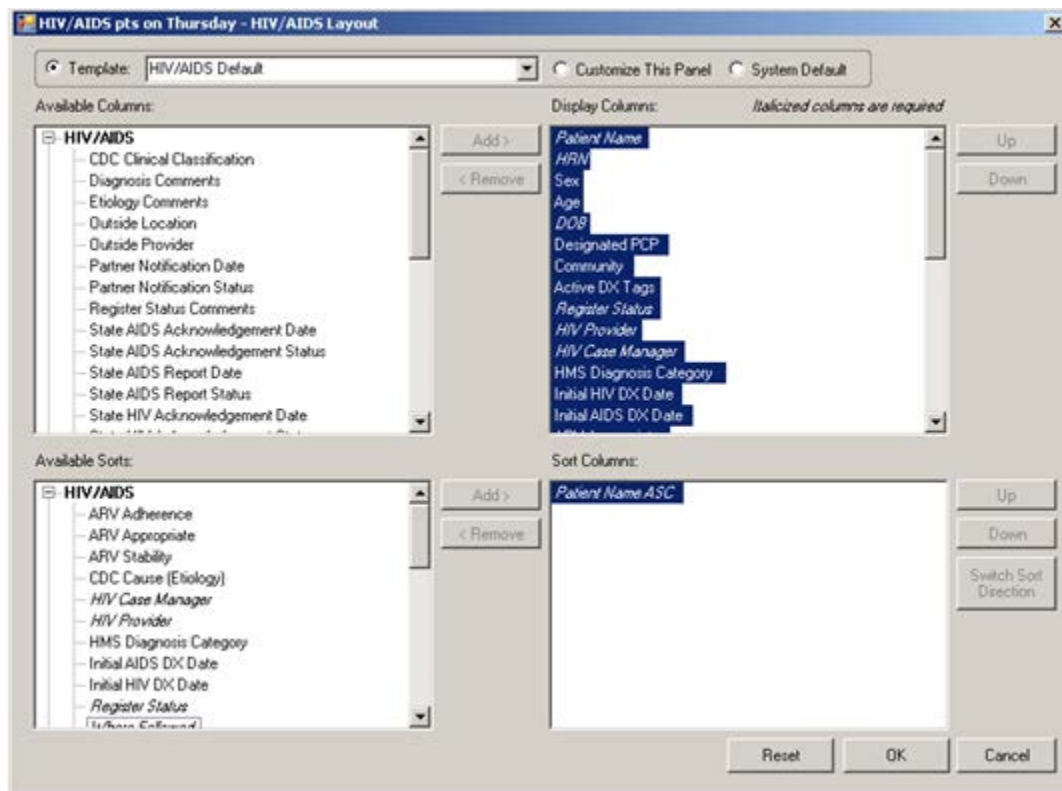


Figure 2-2: HIV/AIDS Layout window

**Note:** If fields will not move from the right panel to the left panel and vice versa, select the **Customize This Panel** option button located at the top of the window. This action causes the Add and Remove buttons to become active.

Below is a list of all the data fields and associated field options.

Table 2-1: Data Fields and Field Options

| Field                            | Field Option  |
|----------------------------------|---|
| Register status                  | Active; Deceased; Inactive; Transient   |
| Register status comments         | Ability to enter any special comments about the Register status.  |
| HMS Diagnosis Category           | <ul style="list-style-type: none"> <li>• AIDS</li> <li>• HIV</li> <li>• At Risk – Exposed source Unknown</li> <li>• At Risk – Infant Exposed</li> <li>• At Risk – Non-occupational Exposure</li> <li>• At Risk – Occupational Exposure</li> </ul> |
| Diagnosis comment                | Ability to enter any special comments about the Diagnosis Category.   |
| Initial HIV Diagnosis (DX) Date  | A recommended date displays if the software is able to determine it.  |
| Initial AIDS Diagnosis (DX) Date | A recommended date displays if the software is able to determine it.  |

| Field                       | Field Option  |
|-----------------------------|---|
| CDC Cause (Etiology)        | <p>The Centers for Disease Control has categorized the ways in which an individual is exposed to HIV. Standardizing exposure categories enable epidemiologists to compare the same type of data and better understand the exposure trends regionally and nationally. The CDC will use this information anonymously in their semiannual Surveillance reports.</p> <ul style="list-style-type: none"> <li>• BL – Receipt of blood transfusion, blood components or tissue</li> <li>• HEM – Hemophiliac/coagulation disorder</li> <li>• HET – Heterosexual contact</li> <li>• IDU – Injection drug use</li> <li>• MID – Male to male sexual contact + injection drug use</li> <li>• MOT – Mother with or at risk for HIV Infection</li> <li>• MTM – Male to male sexual contact</li> <li>• OCC – Occupational exposure</li> <li>• OTH – Other</li> </ul> |
| Etiology comments           | Ability to enter any special comments about the Etiology entered.   |
| CDC Clinical Classification | <ul style="list-style-type: none"> <li>• A1 – Asymptomatic HIV infection + CD4 count &gt; or = 500</li> <li>• A2 – Asymptomatic HIV infection + CD4 count between 200 and 499</li> <li>• A3 – Asymptomatic HIV infection + CD4 count less than 200</li> <li>• B1 – Symptoms attributable to HIV infection + CD4 count &gt;= 500</li> <li>• B2 – Symptoms attributable to HIV infection + CD4 count between 200 and 499</li> <li>• B3 – Symptoms attributable to HIV infection + CD4 count less than 200</li> <li>• C1 – AIDS defining condition(s) + CD4 count &gt; or = 500</li> <li>• C3 – AIDS defining condition(s) + CD4 count less than 200</li> </ul>  |
| HIV Provider                | Use the DESIGNATED PROVIDER MGT SYSTEM (BDP) or iCare to update.  |
| HIV Case Manager            | Use the DESIGNATED PROVIDER MGT SYSTEM (BDP) or iCare to update.  |
| Where Followed              | Select the facility location that primarily follows this patient's care related to HIV/AIDS. If this is not your facility, choose Other from the list and identify the specific facility in the Outside Location field and identify the provider outside of the facility who cares for this patient.  |
| Outside Location            |   |
| Outside Provider            |   |
| Partner Notification Status | This notification type is to document the notification of a patient's partner of a potential exposure to HIV. The public health recommendation to notify the patient's partner is a practice that is encouraged in all I/T/U facilities. Options: N/A; No; Remind Me Later; Unknown; Yes  |
| Partner Notification Date   | The date that the partner was notified of the patient's status.   |

| Field                             | Field Option   |
|-----------------------------------|--|
| ARV Appropriate                   | Antiretroviral therapy refers to specific combinations of ARV medications used to treat HIV/AIDS patients by reducing viral load and improving immunological function. ARV is a complex medication regimen and is not suitable for all patients. Appendix F: provides the definition of ARV medication regimens. <ul style="list-style-type: none"> <li>• Date</li> <li>• Status</li> <li>• Comment</li> <li>• Last Edited By</li> <li>• Last Edited Date</li> </ul> |
| ARV Adherence                     | <ul style="list-style-type: none"> <li>• Date</li> <li>• Adherent</li> <li>• Comments</li> <li>• Last Edited By</li> <li>• Last Edited Date</li> </ul>   |
| State HIV Report Status           | This notification type involves the requirement to notify the appropriate state Health Department of new HIV/AIDS diagnoses. Options: N/A; No; Remind Me Later; Unknown; Yes.  |
| State HIV Report Date             | The date when the HIV status was reported to the state.  |
| State HIV Acknowledgement Status  | If the state acknowledged receipt of this patient's HIV status.  |
| State HIV Acknowledgement Date    | Date that the state acknowledged the patient's HIV status.   |
| State AIDS Report Status          | This notification type involves the requirement to notify the appropriate state Health Department of new HIV/AIDS diagnoses. Options: N/A; No; Remind Me Later; Unknown; Yes.  |
| State AIDS Report Date            | The date when the AIDS status was reported to the state.   |
| State AIDS Acknowledgement Status | If the state acknowledged receipt of this patient's AIDS status.   |
| State AIDS Acknowledgement Date   | Date that the state acknowledged the patient's AIDS status.  |

## 2.2 Search for and View a Patient Record

Below are two methods for searching for and viewing a patient record: (1) using a panel and (2) using quick search.

### 2.2.1 Using a Panel

Section 3.0 provides more information about creating an HIV/AIDS-related panel specific for your site.

Once the panel is created, open a specific patient's record by simply double-clicking the patient's name. The patient's record will display.

## 2.2.2 Using Quick Search

The **Quick Patient Search** is located in the top right corner of the main iCare window (also in the Tools menu).



Figure 2-3: **Quick Patient Search** field

Follow the steps below to search for and view a patient's record:

1. In the **Quick Patient Search** field, type the search criteria, such as the patient's last name (e.g., Willis), HRN (e.g., 111222), or date of birth (e.g., 12/20/1965).
2. Click the green arrow icon or press Enter.
3. A **Quick Patient Search** window displays the search results.

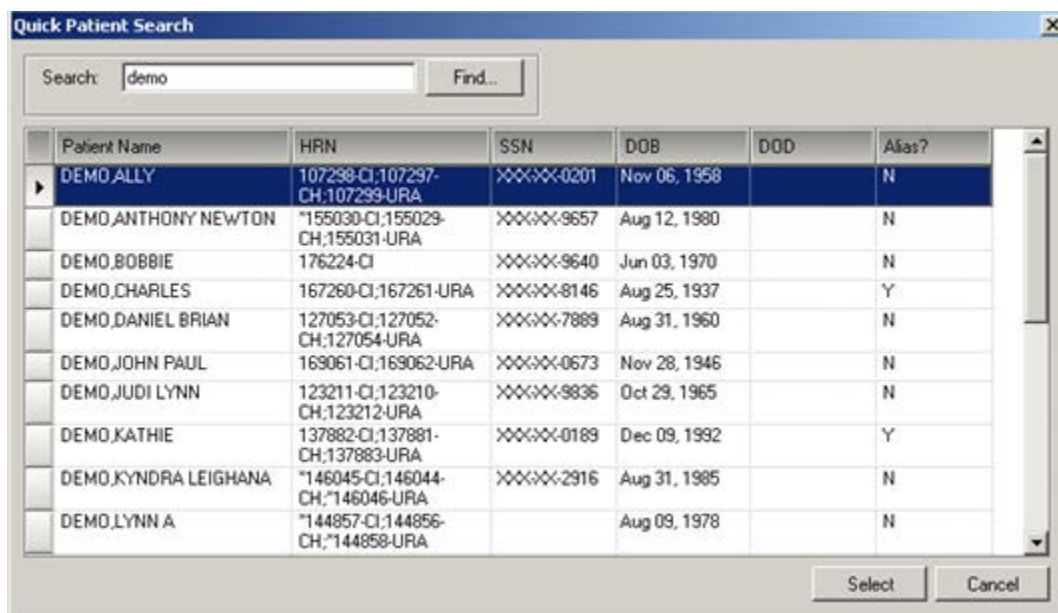


Figure 2-4: **Quick Patient Search** dialog results

When the list of names is long, search for a name by typing at least three characters of the patient's last name, the patient's HRN, or the patient's date of birth in the **Search** field and click **Find**.

The application will list the search results.

4. In the search results, do one of the following:
  - a. Select the desired patient's name and click **Select**.
  - b. Double-click the patient's name.
5. The patient's record displays.

## 2.3 Displaying Care Management as Default Tab

The Care Management tab can be setup as the default tab when a Patient Record is opened.

1. From any iCare window select **Tools | User Preferences**.
2. Click the **Patient View** tab.

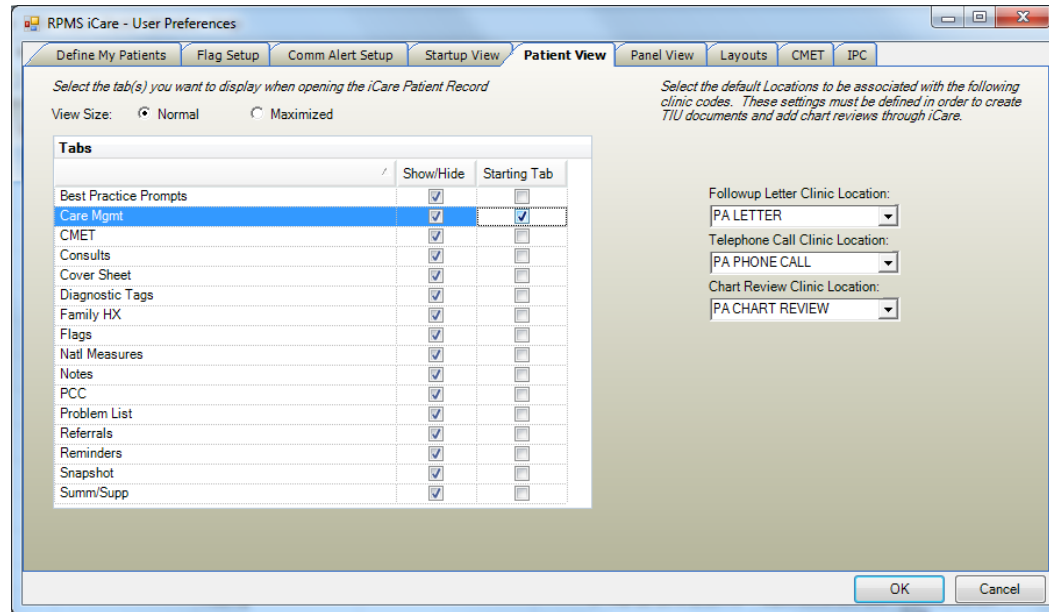


Figure 2-5: **Patient View** tab of User Preferences

3. Highlight the **Care Mgmt** row, check **Starting Tab** checkbox.
4. Click **OK** to save this change.

## 2.4 Add/Edit Care Management Data

To enter Care Management information on the Patient Record window using the Care Management tab, follow these steps:

1. Open a patient record.
2. Click the **Care Management** tab.
3. Select **HIV/AIDS** from the list for the **Please Select a Group** field.

**Note:** By selecting a patient record from the **Care Management** tab on the panel view, the patient record opens to the **Care Management** tab and the **HIV/AIDS** group is already selected.

If the patient does not have HIV/AIDS data, continue with the following steps to add care management data:

4. Click **Enter Data**.
5. The data entry area on the **Main** sub-tab is organized into four sections: **General**, **Partner Notification**, **Antiretroviral (ARV) Status**, and **State Notification**.

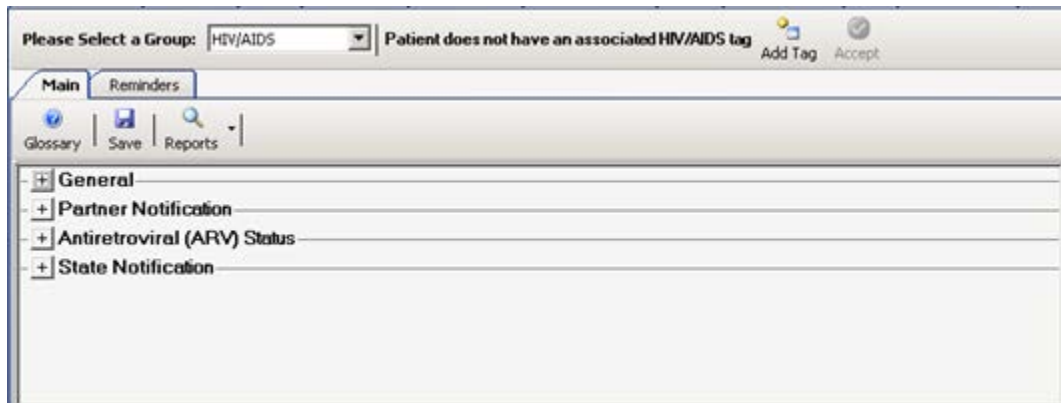


Figure 2-6: **Main** sub-tab showing all sections

6. Enter data in each section.

**Note:** It is highly recommended to print and refer to the HIV/AIDS Glossary when entering data. To do so, click the Glossary button located above the General section. Section 7.0 provides for more information about the glossary.

### 2.4.1 Entering Data on the General Area

Expand the **General** category to display the fields on the **General** group box.

Figure 2-7: Fields for the **General** group box

All fields with an asterisk (\*) are required.

**Register Status:** Select an option from the list that indicates the status of the patient on this register.

**Register Status Comments:** Type comments about the register status selection in this Free Text field (limited to 50 characters).

**HMS Diagnosis Category:** Select a specific HIV-related diagnosis category from the list.

**Diagnosis Comments:** Type comments about the HMS Diagnosis Category selection in this Free Text field (limited to 50 characters).

**Initial HIV DX Date:** Select the date from the calendar on the list when this patient was first diagnosed with HIV. Enter a month and year only; in this case the entry will be stored in BKM as MM-DD-YYYY. This field is active only when the **HMS Diagnosis Category** field is populated with HIV.

**Note:** A proposed date might display, based on the earliest RPMS data that meets the HIV/AIDS tag definition. Enter the actual date, even if you want to “accept” the proposed date.

**Initial AIDS DX Date:** Select the date from the calendar on the list for this field when this patient was first diagnosed with AIDS. Enter a month and year only; in this case the entry will be stored in BKM as MM-01-YYYY. This field is active only when the **HMS Diagnosis Category** field is populated with AIDS.

**Note:** A proposed date might be displayed, based on the AIDS logic defined above in the HMS Diagnosis Category field. You must enter the actual date even if you want to “accept” the proposed date.

**CDC Cause (Etiology):** Select an option from the list that indicates the cause (etiology) of the patient’s DX. The Centers for Disease Control has categorized the ways in which an individual is exposed to HIV.

**Etiology Comments:** Type comments about the CDC Cause selection in this Free Text field (limited to 50 characters). This field is active only when the **CDC Cause (Etiology)** field is populated. A comment should always be entered if selecting “OTH - Other” in the **CDC Cause** field.

**CDC Clinical Classification:** This field is active when the **HMS Diagnosis Category** contains AIDS or HIV. Select the clinical classification from the list.



The current CDC classification system combines three categories of the CD4 count with three symptom categories. The use of both the CD4 cell count and clinical categories provides shorthand for where the patient stands in the course of the HIV/AIDS continuum. While there are guidelines in place, assign the classification only after clinical evaluation. The decision of which category to assign is always made by a clinical person. The CDC proposed that the clinical classification system be used to “guide clinical and therapeutic actions in the management of HIV infected adolescents and adults.”

The **HIV Provider**, **HIV Case Manager**, and **Where Followed** fields are populated by using the **Table Lookup** dialog.

**HIV Provider:** Click the ellipsis button to search for a HIV provider name at your facility. This information is pulled from the RPMS Designated Specialty Provider Management (DSPM) application, if available, and displayed here. If this patient is cared for at an outside facility, enter the provider in the **Outside Provider** field.

**HIV Case Manager:** Click the ellipsis button to search for a case manager name at your facility. This information is pulled from the RPMS Designated Specialty Provider Management (DSPM) application, if available, and displayed here.

**Where Followed:** Click the ellipsis button to search for name of a facility that primarily follows the patient’s care related to HIV/AIDS. If this is not your facility, select OTHER from the list; identify the specific facility in the **Outside Location** field and the provider in the **Outside Provider** field.

**Outside Location:** Manually type the name of the facility or outside physician’s office where the patient is followed. This is Free Text field limited to 50 characters.

**Outside Provider:** Manually type the name of the patient’s HIV provider at the outside location. This is Free Text field limited to 50 characters.

## 2.4.2 Entering Data on the Partner Notification Area

This notification type is to document the notification of a patient’s partner of a potential exposure to HIV. The public health recommendation to notify the patient’s partner is a practice that is encouraged in all I/T/U facilities.

Expand the **Partner Notification** category to display the following fields on the **Partner Notification** group box:



The screenshot shows a software interface for 'Partner Notification'. It features a title bar with a minus sign and the text 'Partner Notification'. Below the title bar, there are two dropdown menus. The first is labeled 'Partner Notification Status:' and is currently empty. The second is labeled 'Partner Notification Date:' and currently displays '(none)'. The background is a light blue gradient.

Figure 2-8: Fields for **Partner Notification** group box

**Partner Notification Status:** Select an option from the list that indicates the partner notification status.

**Partner Notification Date:** This field is active when the Partner Notification Status contains Yes. Either manually type a date that the partner was notified, or select the date from the calendar by using the list.

### 2.4.3 Entering Data on the Antiretroviral Status Area

Expand the **ARV** category to display the fields on the Antiretroviral ARV (Status) group box.

Use this group box to enter ARV (Anti-Retro Viral Medications) data for **ARV Appropriate**, **ARV Adherence**, and **ARV Stability**. The medications are used to treat HIV/AIDS patients by reducing the viral load and improving the immunological function.

Because the ARV status might change over time, HMS maintains a history of ARV Appropriate and Compliance statuses for the patient. The entire ARV history will be displayed on this screen with the most recent status listed first; this feature allows the provider to easily view the continuum of assessment.

**Antiretroviral (ARV) Status**

**ARV Appropriate:**

| Date         | Status           | Comment | Last Edited By | Last Edited Date |
|--------------|------------------|---------|----------------|------------------|
| May 21, 2010 | Yes, Appropriate | testing | [REDACTED]     | May 21, 2010     |


**ARV Adherence:**

| Date         | Adherent     | Comments | Last Edited By | Last Edited Date |
|--------------|--------------|----------|----------------|------------------|
| May 21, 2010 | Adherent     | testing  | [REDACTED]     | May 21, 2010     |
| May 14, 2010 | Non-adherent | testing  | [REDACTED]     | May 21, 2010     |

**ARV Stability:**

| Date         | Stability | ARV Regimen | Comments | Last Edited By | Last Edited Date |
|--------------|-----------|-------------|----------|----------------|------------------|
| May 21, 2010 | Stable    | U           | testing  | [REDACTED]     | May 21, 2010     |

Figure 2-9: Fields on the **ARV** group boxes

For **ARV Appropriate**, click the **Add** () button to add data. Each of the fields on the row will have either a list from which to select or a Free Text field in which to type information. Data can be entered at any time and can be done so retrospectively.

**Date:** This is the date the patient was assessed for suitability for ARV (required). Either manually type a date, or click the list to select a date from a calendar.


**Status:** Select an option from the list that indicates the status of the ARV Appropriate record.

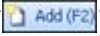
**Comment:** Type a comment, if appropriate, in this Free Text field, using up to 50 characters.

**Last Edited By:** The name of the person who last edited the record (system populated).

**Last Edited Date:** The date the record was last edited (system populated).

After clicking **Save**, iCare confirms adding the record. After clicking **Yes**, iCare populates the **Last Edited By** field (name of user who populated the record) and today's date in the **Last Edited Date**.

For **ARV Appropriate**, delete selected records by clicking the **Delete** () button to display the **Delete Rows** information message. Click **Yes** to remove the records. (Otherwise, click **No**.)

For **ARV Adherent**, click the **Add** () button to add data. Each of the fields in the row will have either a list from which to select or a Free Text field to type information.

**Date:** This is the date the patient was assessed for adherence to the prescribed ARV regimen (required). Either manually type the date or click the list to select the date from a calendar.


**Adherent:** Select an option from the list that indicates the adherent status of the record.


**Comment:** Type a comment, if appropriate, in this Free Text field, using up to 50 characters.

**Last Edited By:** The name of the person who last edited the record (system populated).

**Last Edited Date:** The date the record was last edited (system populated).

After clicking **Save**, iCare confirms adding the record. After clicking **Yes**, iCare populates the **Last Edited By** field (name of user who populated the record) and today's date in the **Last Edited Date**.

For **ARV Adherent**, users can delete selected records by clicking the **Delete** () button to display the Delete Rows information message. Click **Yes** to remove the records. (Otherwise, click **No**.)

For **ARV Stability**, click the **Add** () button to add data. Each of the fields in the row will have either a list from which to select or a Free Text field in which to enter information.

**Date:** This is the date the patient was assessed for ARV stability. Either manually type the date or click the list to select the date from a calendar.

**Stability:** Select an option from the list that indicates the stability status of the record.


**ARV Regimen:** Click the list and select one of the options that determines the status of the ARV Regimen.

**Comments:** Type any comments regarding the ARV Stability data in the Free Text field (limited to 50 characters).

**Last Edited By:** The name of the person who last edited the record (system populated).

**Last Edited Date:** The date the record was last edited (system populated).

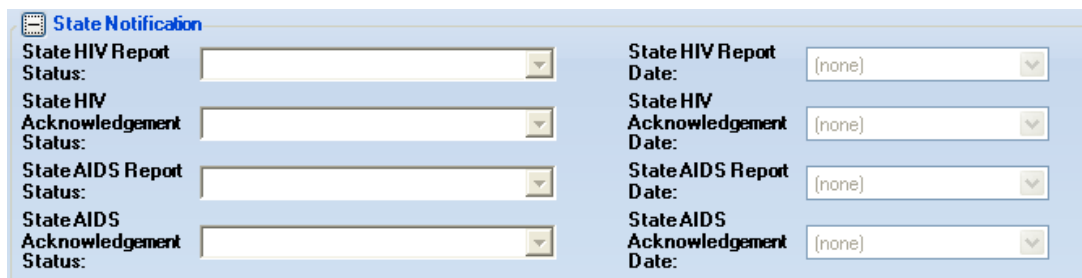
After clicking **Save**, iCare confirms adding the record. After clicking **Yes**, iCare populates the **Last Edited By** field (name of user who populated the record) and today's date in the **Last Edited Date**.

For **ARV Stability**, users can delete selected records by clicking the **Delete** () button to display the Delete Rows information message. Click **Yes** to remove the records. (Otherwise, click **No**.)

#### 2.4.4 Completing the State Notifications Area

This notification type involves the requirement to notify the appropriate state Health Department of new AIDS diagnoses; most states also require notification of HIV diagnoses. Sites must follow the guidance set forth by their state and use the appropriate forms issued by the state.

Expand the **State Notification** category to display the following fields on the **State Notification** group box:



The screenshot shows a 'State Notification' group box with the following fields:

| Field Name                         | Value  |
|------------------------------------|--------|
| State HIV Report Status:           | [none] |
| State HIV Report Date:             | [none] |
| State HIV Acknowledgement Status:  | [none] |
| State HIV Acknowledgement Date:    | [none] |
| State AIDS Report Status:          | [none] |
| State AIDS Report Date:            | [none] |
| State AIDS Acknowledgement Status: | [none] |
| State AIDS Acknowledgement Date:   | [none] |

Figure 2-10: Fields on **State Notification** group box

If the HMS Diagnosis is HIV or AIDS, then the fields in this group box are active. The fields assist in tracking the notification process.

**State HIV Report Status:** Select the **State HIV Report Status** from the list: **N/A, No, Remind Me Later, Unknown, Yes**. This answers the question: “Has the state health department been notified about this patient’s HIV status?”

**State HIV Report Date:** This field is active if the State HIV Report Status field contains Yes. Select the date from a calendar by using the list. This is the date the State HIV status report was submitted to the state health department.

**State HIV Acknowledgment Status:** Select the **State HIV Acknowledgment** status from the list: **No, Unknown, Yes**. This answers the question: “Has your facility received an acknowledgement from the state health department?”

**State HIV Acknowledgment Date:** This field is active if the State HIV Acknowledgment Status field contains Yes. Select a date from a calendar by using the list. This is the date the state acknowledged receipt of HIV report, if any.

**State AIDS Report Status:** Select the **State AIDS Report Status** from the list: **N/A, No, Remind Me Later, Unknown, Yes**. This answers the question: “Has the state health department been notified about this patient’s AIDS status?”

**State AIDS Report Date:** This field is active if the State AIDS Report Status field contains Yes. Select a date from a calendar by using the list. This is the date the AIDS status report was submitted to the state health department.

**State AIDS Acknowledgment Status:** Select the **State AIDS Acknowledgment** status from the list: **No, Unknown, Yes**. This answers the question: “Has your facility received acknowledgement from the state’s health department?” Note: Most sites report that they do not receive this acknowledgment.

**State AIDS Acknowledgment Date:** This field is active if the **State AIDS Acknowledgment Status** field contains Yes. Select a date from a calendar by using the list. This is the date the state acknowledged receipt of AIDS report.

## 2.4.5 Completing the Data Entry Process

When the four areas have been updated, click **Save**. The application displays the **Confirm save to Care Mgmt** dialog:

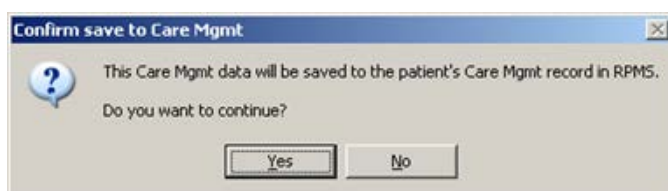


Figure 2-11: **Confirm save to Care Mgmt** information message

Click **Yes** to save the record in RPMS. (Otherwise, click **No**).

Clicking **No** exits the data-entry process.

After clicking **Yes**, the application displays the RPMS iCare dialog about changing the tag status.

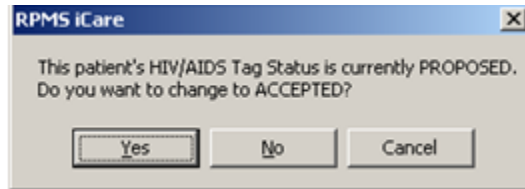


Figure 2-12: **RPMS iCare** dialog—changing the tag status

Click **Cancel** and the system asks whether to cancel the entire **Save** process. Click **Yes** to exit the save process.

Click **No** and the system displays the message: “HMS Register data has been saved successfully to RPMS.” Click **OK** to dismiss the message.

Click **Yes** to change the tag status. (Otherwise, click **No**.) After clicking **Yes**, the application displays **Update Diagnostic Tag** dialog.

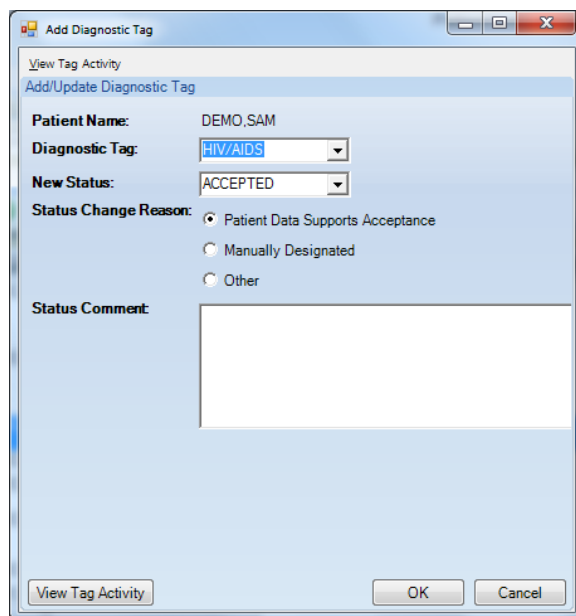


Figure 2-13: **Update Diagnostic Tab** dialog with status of ACCEPTED

Complete the information and click **OK** to change the status to **Accepted**. (Otherwise, click **Cancel**.)

After clicking **OK**, the application displays the message: “HIV Management System, ARV Appropriate data has been saved successfully to RPMS.” Click **OK** to dismiss the message (required).

## 2.5 HIV/AIDS Diagnostic Tags

Tagging is a term that refers to running a series of logic algorithms on one or multiple patients that identifies (tags) them with one or more diagnoses. These definitions are defined nationally and are consistent with other RPMS applications.

The HIV/AIDS Diagnostic Tag is based upon the following logic algorithm:

- At least two primary diagnosis Purpose of Visit (POVs) ever for ambulatory or hospitalization visits at least 60 days apart or one instance on Active Problem List. HIV/AIDS defined using taxonomy BGP HIV/AIDS DXS.

OR

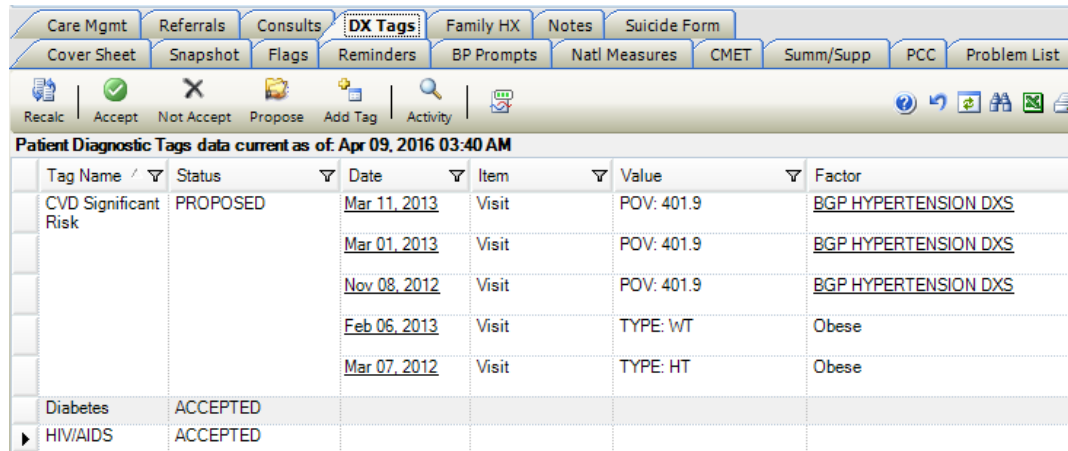
Positive HIV screening test. HIV screening test is defined by the site in taxonomy BGP HIV TEST TAX and positive result is defined as a value containing "p," "P," ">," or "+".

OR

At least two CD4 or HIV Viral Load lab tests in the past two years, at least 60 days apart. CD4 lab tests defined by the site as lab tests in taxonomy BGP CD4 TAX, or predefined CPTs (taxonomy BGP CD4 CPTS) or LOINC codes (taxonomy BGP CD4 LOINC CODES). HIV Viral Load lab tests defined by the site in taxonomy BGP HIV VIRAL LOAD TAX, or predefined CPTs (taxonomy BGP HIV VIRAL LOAD CPTS) or LOINC codes (taxonomy BGP VIRAL LOAD LOINC CODES).

### 2.5.1 Accept/Do Not Accept Proposed HIV/AIDS Diagnostic Tab

When a patient meets the diagnostic tag criteria, the system automatically tags the patient with the HIV/AIDS Diagnostic Tag. The tag will have a status of **Proposed**. **Proposed** means that a criterion was found for this patient that indicated that they may have HIV or AIDS. Since data can be incorrectly entered, the Proposed status enables the user to review the criteria and make a final determination if this tag is accurate.



| Tag Name             | Status   | Date         | Item  | Value      | Factor               |
|----------------------|----------|--------------|-------|------------|----------------------|
| CVD Significant Risk | PROPOSED | Mar 11, 2013 | Visit | POV: 401.9 | BGP HYPERTENSION DXS |
|                      |          | Mar 01, 2013 | Visit | POV: 401.9 | BGP HYPERTENSION DXS |
|                      |          | Nov 08, 2012 | Visit | POV: 401.9 | BGP HYPERTENSION DXS |
|                      |          | Feb 06, 2013 | Visit | TYPE: WT   | Obese                |
|                      |          | Mar 07, 2012 | Visit | TYPE: HT   | Obese                |
| Diabetes             | ACCEPTED |              |       |            |                      |
| HIV/AIDS             | ACCEPTED |              |       |            |                      |

Figure 2-14: Patient DX Tags data on **Patient Record** dialog

To change the status to either **Accepted** or **Not Accepted**:

1. Open a patient record.
2. Click the **DX Tags** tab.
3. Select the row that contains the HIV/AIDS Diagnostic Tag.
  - To accept the tag, click the **Accept** button.
  - To deny the tag, click the **Not Accept** button.
4. The **Update Diagnostic Tag** window opens.
  - In the **New Status** list, select **Accepted** or **Not Accepted**.
5. In the **Status Change Reason** area, select the **Patient Data Supports Acceptance** option button.
6. Click **OK**.

**Note:** The status of a Diagnostic Tag can also be changed on the Care Management tab.

## 2.5.2 Change a Diagnostic Tag to Proposed

To change an Accepted or Not Accepted diagnostic tag to Proposed:

1. Open a patient record.
2. Click the **DX Tags** tab.
3. Select the row that contains the HIV/AIDS Diagnostic Tag.
4. Click **Propose**.



5. The **Update Diagnostic Tag** window opens.  
In the **New Status** menu, select **Proposed**.
6. In the **Status Change Reason** area, select the **Manually Designated** option button.
7. Click **OK**.

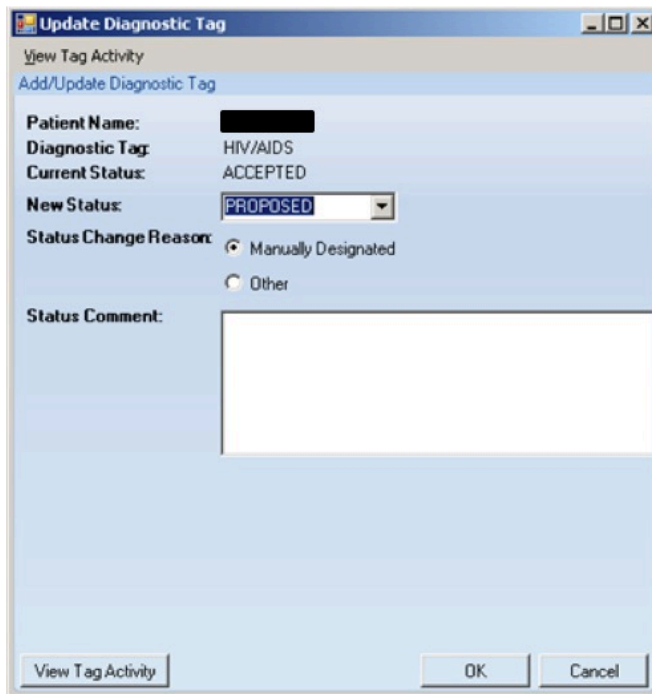


Figure 2-15: **Update Diagnostic Tag** dialog

**Note:** The status of a Diagnostic Tag can also be changed on the Care Management tab.

### 2.5.3 Manually Add an HIV/AIDS Diagnostic Tag

Users have the option of manually adding an HIV/AIDS Diagnostic tag.

1. Open a patient record.
2. Click the **DX Tags** tab.

A patient can only have one HIV/AIDS Diagnostic Tag. If a patient already has an HIV/AIDS Diagnostic Tag, an additional one cannot be added.

3. Click **Add Tag**.
4. The **Add Diagnostic Tag** dialog opens.

- In the **Diagnostic Tag** list, select **HIV/AIDS**.
5. In the **New Status** menu, select **Accepted**.
  6. In the **Status Change Reason** area, select the appropriate option button:
    - **Patient Data Supports Acceptance**
    - **Manually Designated**
    - **Other**
  7. For a manually-added HIV/AIDS Diagnostic Tag, users must enter a comment in the **Status Comment** field.
  8. Click **OK**.

Figure 2-16: **Add Diagnostic Tag** dialog

**Note:** The status of a Diagnostic Tag can also be changed on the Care Management tab.

## 2.6 HMS Patient Care Supplement

The HMS Patient Care Supplement displays information specifically related to HIV/AIDS. The provider will be able to see, at a glance, the relevant labs, related diagnoses, medications and reminders. Appendix F provides the logic for the HMS Patient Care Supplement. Also, Section III of the HIV/AIDS Glossary provides information about this supplement.

## 2.6.1 Search Methods for the Supplement

There are two methods for viewing the HIV/AIDS Patient Care Supplement.

### 2.6.1.1 Method One

The first method is to access the HIV/AIDS Patient Care Supplement from the Summary/Supplement tab.

1. Open a patient record.
2. Select the **Summary/Supplement (Summ/Supp)** tab.
3. From the **Type** list, select **Supplement**.
4. Another list opens beside it. From this new list, select the **HMS Patient Care Supplement** option.

The supplement displays.

### 2.6.1.2 Method Two

The second method for viewing the HIV/AIDS Patient Care Supplement is to access it from the Care Management tab.

1. Open a patient record.
2. Click the **Care Management (Care Mgmt)** tab.
3. If not already selected, select the **HIV/AIDS** group from the **Care Management Group** menu.
4. On the **Main** sub-tab, click **Reports**.
5. Select **HMS Patient Care Supplement**.


If the site has any empty taxonomies, the following application-generated message displays: “The following taxonomies do not have any entries....” Click **OK** to continue, and to generate the HMS Patient Care Supplement.

6. The report displays.





Figure 2-17: HMS Patient Care Supplement

## 2.6.2 Using the Controls on the Report

Click the **Refresh** () button to update any RPMS field values with new data from the server.

Click the **Find** () button to access a search tool to find data in the current window.

Click the **Print Preview** () button to access the **Print Preview** dialog. Print the information in the supplement from this dialog.

Click the **Print** () button to access the **Print** dialog to specify the printer to output the contents of the pop-up, the page range, and number of copies.

## 2.7 Related Conditions

This section provides information about the most recent occurrence of any of HIV Opportunistic infections and/or AIDS Defining Illnesses recorded on the patient's PCC Problem List, all status categories.

### 2.7.1 Opportunistic Infections/AIDS Defining Illnesses

Opportunistic infections are conditions that many HIV/AIDS patients contract. HIV doesn't kill anybody directly but rather weakens the body's ability to fight disease. Infections that are rarely seen in those with normal immune systems are serious and may be deadly to those with HIV. They need to be treated, and some can be prevented. Many of these conditions are considered "reportable" to the State Health Department.

AIDS Defining Illnesses are conditions that are used in conjunction with an HIV diagnosis to determine if a patient has progressed to AIDS. The definition of AIDS Defining Illness is established by the Centers for Disease Control (CDC) as part of its case definition of AIDS. The AIDS Defining Illness clinical decision logic is managed in the BKMV AIDS DEF ILL DXS taxonomy as listed in Appendix A Table A-2.

If the patient has one or more of these infections documented as the POV or on the Problem List, they will display from the patient record. The Opportunistic Infections are also displayed on the HMS Patient Care Supplement. The Opportunistic Infection clinical decision logic is managed in the BKMV HIV OPP INF DXS taxonomy as listed in Appendix A, Table A-1.

The definitions for AIDS Defining Illnesses and Opportunistic Infections overlap. The following are the current definitions used in iCare.

OI = Opportunistic Infections

AIDS DI = AIDS Defining Illnesses

Table 2-2: AIDS Defining Illnesses and Opportunistic Infections

| Diagnosis  | Description  | OI | AIDS DI |
|--|--|----|---------|
| Aspergillosis  |  | X  |         |
| Bartonellosis  |  | X  |         |
| Campylobacter Enteric Disease                        |  | X  |         |
| Candidiasis of bronchi, trachea, esophagus, or lungs | This illness is caused by infection with a common (and usually harmless) type of fungus called Candida. Candidiasis, or infection with Candida, can affect the skin, nails, and mucous membranes throughout the body. Persons with HIV infection often have trouble with Candida, especially in the mouth and vagina. However, candidiasis is only considered an OI when it infects the esophagus (swallowing tube) or lower respiratory tract, such as the trachea and bronchi (breathing tube), or deeper lung tissue. | X  | X       |
| Candidiasis, Oral                                    |  | X  |         |
| Carcinoma, invasive cervical                         | This is a cancer that starts within the cervix, which is the lower part of the uterus at the top of the vagina, and then spreads (becomes invasive) to other parts of the body. This cancer can be prevented by scheduling regular examinations of the cervix with a care provider.  |    | X       |
| Coccidioidomycosis                                   | This illness is caused by the fungus <i>Coccidioides immitis</i> . It most commonly acquired by inhaling fungal spores, which can lead to a pneumonia that is sometimes called desert fever, San Joaquin Valley fever, or valley fever. The disease is especially common in hot, dry regions of the southwestern United States, Central America, and South America.  | X  | X       |

| Diagnosis                                 | Description  | OI | AIDS DI |
|---|--|----|---------|
| Cryptococcosis                            | This illness is caused by infection with the fungus <i>Cryptococcus neoformans</i> . The fungus typically enters the body through the lungs and can cause pneumonia. It can also spread to the brain, causing swelling of the brain. It can infect any part of the body, but (after the brain and lungs) infections of skin, bones, or urinary tract are most common.  | X  | X       |
| Cryptosporidiosis                         | This diarrheal disease is caused by the protozoan parasite <i>Cryptosporidium</i> . Symptoms include abdominal cramps and severe chronic watery diarrhea.  | X  | X       |
| Cytomegalovirus disease                   | This virus can infect multiple parts of the body and cause pneumonia, gastroenteritis (especially abdominal pain caused by infection of the colon), encephalitis (infection) of the brain, and sight-threatening retinitis (infection of the retina at the back of eye). People with CMV retinitis have difficulty with vision that worsens over time. CMV retinitis is a medical emergency because it can cause blindness if not treated promptly.  | X  | X       |
| Hemophilus Influenzae Respiratory Disease |  | X  |         |
| Hepatitis B Virus                         |  | X  |         |
| Hepatitis C Virus                         |  | X  |         |
| Herpes simplex                            | Herpes simplex virus (HSV) is a very common virus that for most people never causes any major problems. HSV is usually acquired sexually or from an infected mother during birth. In most people with healthy immune systems, HSV is usually latent (inactive). However, stress, trauma, other infections, or suppression of the immune system, (such as by HIV), can reactivate the latent virus and symptoms can return. HSV can cause painful cold sores (sometimes called fever blisters) in or around the mouth, or painful ulcers on or around the genitals or anus. In people with severely damaged immune systems, HSV can also cause infection of the bronchus (breathing tube), pneumonia (infection of the lungs) and esophagitis (infection of the esophagus, or swallowing tube). | X  | X       |
| Histoplasmosis                            | This illness is caused by the fungus <i>Histoplasma capsulatum</i> . <i>Histoplasma</i> most often infects the lungs and produces symptoms that are similar to those of influenza or pneumonia. People with severely damaged immune systems can get a very serious form of the disease called progressive disseminated histoplasmosis. This form of histoplasmosis can last a long time and involves organs other than the lungs.  | X  | X       |
| HIV Encephalopathy                        | This brain disorder is a result of HIV infection. It can occur as part of acute HIV infection or can result from chronic HIV infection. Its exact cause is unknown but it is thought to be related to infection of the brain with HIV and the resulting inflammation.  |    | X       |
| Human Papillomavirus                      |  | X  |         |

| Diagnosis                                  | Description   | OI | AIDS<br>DI |
|--|---|----|------------|
| Isosporiasis                               | This infection is caused by the parasite <i>Isospora belli</i> , which can enter the body through contaminated food or water. Symptoms include diarrhea, fever, headache, abdominal pain, vomiting, and weight loss.  | X  | X          |
| Kaposi's Sarcoma                           | This cancer, also known as KS, is caused by a virus called Kaposi's sarcoma herpesvirus (KSHV) or human herpesvirus 8 (HHV-8). KS causes small blood vessels, called capillaries, to grow abnormally. Because capillaries are located throughout the body, KS can occur anywhere. KS appears as firm pink or purple spots on the skin that can be raised or flat. KS can be life-threatening when it affects organs inside the body, such the lung, lymph nodes or intestines.  |    | X          |
| Lymphoma, multiple forms                   | Lymphoma refers to cancer of the lymph nodes and other lymphoid tissues in the body. There are many different kinds of lymphomas. Some types, such as non-Hodgkin lymphoma and Hodgkin lymphoma, are associated with HIV infection.   |    | X          |
| Microsporidiosis                           |   | X  |            |
| Mycobacterium avium Complex (MAC)          | MAC is caused by infection with different types of mycobacterium: <i>Mycobacterium avium</i> , <i>Mycobacterium intracellulare</i> , or <i>Mycobacterium kansasii</i> . These mycobacteria live in our environment, including in soil and dust particles. They rarely cause problems for persons with healthy immune systems. In people with severely damaged immune systems, infections with these bacteria spread throughout the body and can be life-threatening.  | X  | X          |
| Pneumocystis carinii Pneumonia (PCP)       | This lung infection, also called PCP, is caused by a fungus, which used to be called <i>Pneumocystis carinii</i> , but now is named <i>Pneumocystis jirovecii</i> . PCP occurs in people with weakened immune systems, including people with HIV. The first signs of infection are difficulty breathing, high fever, and dry cough.   | X  | X          |
| Pneumonia                                  | Pneumonia is an infection in one or both of the lungs. Many germs, including bacteria, viruses, and fungi can cause pneumonia, with symptoms such as a cough (with mucous), fever, chills, and trouble breathing. In people with immune systems severely damaged by HIV, one of the most common and life-threatening causes of pneumonia is infection with the bacteria <i>Streptococcus pneumoniae</i> , also called <i>Pneumococcus</i> . There are now effective vaccines that can prevent infection with <i>Streptococcus pneumoniae</i> and all persons with HIV infection should be vaccinated. |    | X          |
| Progressive Multifocal Leukoencephalopathy | This rare brain and spinal cord disease is caused by the JC virus. It is seen almost exclusively in persons whose immune systems have been severely damaged by HIV. Symptoms may include loss of muscle control, paralysis, blindness, speech problems, and an altered mental state. This disease often progresses rapidly and may be fatal.  | X  | X          |
| Pseudomonas respiratory Disease            |   | X  |            |
| Salmonella Enteric Disease                 |   | X  |            |

| Diagnosis                          | Description  | OI | AIDS DI |
|------------------------------------|--|----|---------|
| Salmonella Septicemia              | Salmonella are a kind of bacteria that typically enter the body through ingestion of contaminated food or water. Infection with salmonella (called salmonellosis) can affect anyone and usually causes a self-limited illness with nausea, vomiting, and diarrhea. Salmonella septicemia is a severe form of infection in which the bacteria circulate through the whole body and exceeds the immune system's ability to control it.   |    | X       |
| Shigella Enteric Disease           |  | X  |         |
| Staphylococcus Respiratory Disease |  | X  |         |
| Streptococcal Respiratory Disease  |  | X  |         |
| Syphilis                           |  | X  |         |
| Toxoplasmosis                      | This infection, often called toxo, is caused by the parasite <i>Toxoplasma gondii</i> . The parasite is carried by warm-blooded animals including cats, rodents, and birds and is excreted by these animals in feces. Humans can become infected with it by inhaling dust or eating food contaminated with the parasite. <i>Toxoplasma</i> can also occur in commercial meats, especially red meats and pork, but rarely poultry. Infection with toxo can occur in the lungs, retina of the eye, heart, pancreas, liver, colon, testes, and brain. Although cats can transmit toxoplasmosis, litter boxes can be changed safely by wearing gloves and washing hands thoroughly with soap and water afterwards. All raw red meats that have not been frozen for at least 24 hours should be cooked through to an internal temperature of at least 150 degrees Fahrenheit. | X  | X       |
| Tuberculosis                       | Tuberculosis (TB) infection is caused by the bacteria <i>Mycobacterium tuberculosis</i> . TB can be spread through the air when a person with active TB coughs, sneezes, or speaks. Breathing in the bacteria can lead to infection in the lungs. Symptoms of TB in the lungs include cough, fatigue, weight loss, fever, and night sweats. Although the disease usually occurs in the lungs, it may also affect other parts of the body, most often the larynx, lymph nodes, brain, kidneys, or bones.  | X  | X       |
| Wasting syndrome                   | Wasting is defined as the involuntary loss of more than 10% of one's body weight while having experienced diarrhea or weakness and fever for more than 30 days. Wasting refers to the loss of muscle mass, although part of the weight loss may also be due to loss of fat.  |    | X       |

## 2.7.2 AIDS Defining Illnesses

AIDS Defining Illnesses are conditions that are used in conjunction with an HIV diagnosis to determine if a patient has progressed to AIDS. The definition of an AIDS Defining Illness is established by the Centers for Disease Control (CDC) as part of its case definition of AIDS.



## 2.8 HIV/AIDS-Related Reminders

HIV/AIDS-related reminders are generated in order to remind the provider of the need for a particular lab test, procedure, immunization, health screen, or education session regarding HIV/AIDS patient care. These reminders are created based on current expert recommendations and serve as a means to notify the provider when one of these functions is due or overdue. The decision to act on the reminder remains a clinical decision.

There are 23 HIV/AIDS Reminders available. Appendix B describes the logic for the HIV/AIDS-related reminders in detail.

Users can view the reminders in one of three ways:

Method 1: From the **Panel** view, click the **Reminder** tab.

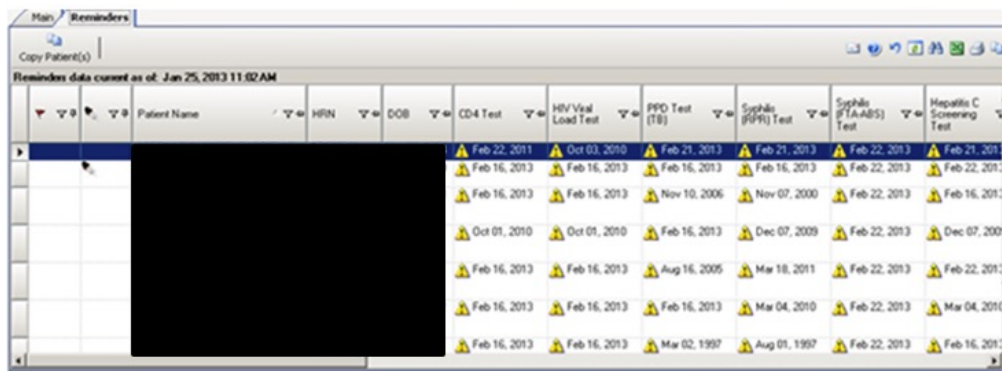


Figure 2-18: Reminders tab on Panel View dialog

Method 2: From the **Panel** view, click the **Care Mgmt** tab. Select the **HIV/AIDS** group. Click the **Reminder** sub-tab.

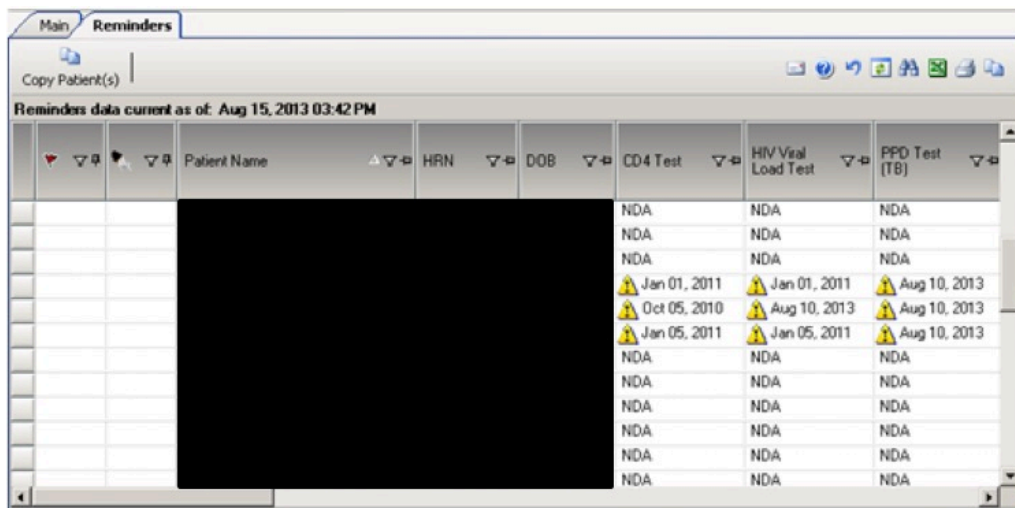


Figure 2-19: Reminders sub-tab data

Method 3: From the **Patient Record** view, click the **Reminders** tab.

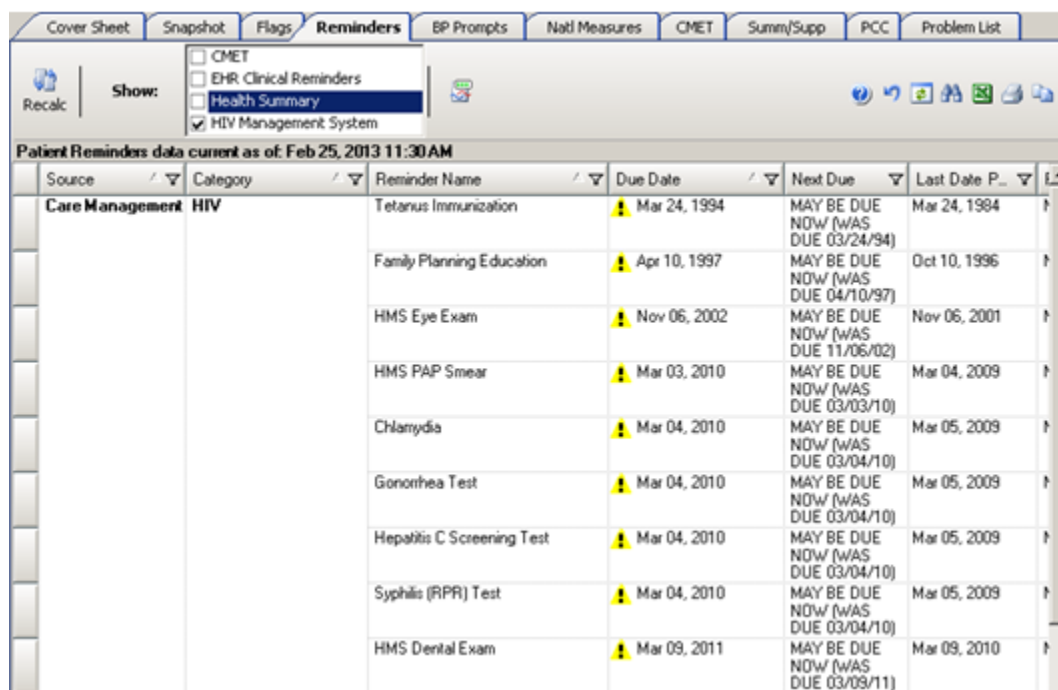


Figure 2-20: **Reminders** tab from the **Patient Record** dialog

Appendix B provides detailed information associated with the Patient Reminder logic.

Table 2-3: Patient Reminder Types, Frequency, and Factors for Display

| Reminder Type                 | Frequency                                      | Factors for Display   |
|-------------------------------|--|---|
| CD4 Test                      | Every 4 months                                 |   |
| Chlamydia                     | Variable, depending on age, diagnoses, or test | Displays for patients ages 18 and older   |
| Family Planning Education     | Every 6 months                                 | Displays for female patients ages 13-44 and male patients ages 13 and older     |
| Gonorrhea Test                | Variable, depending on age, diagnoses, or test | Displays for patients ages 18 and older   |
| Hepatitis A IZ                | Once, or a Hep A diagnosis                     |   |
| Hepatitis B IZ                | Once, or a Hep B diagnosis                     |   |
| Hepatitis B Retest            | After 3 Hep B immunizations                    | Displays for patients with no documented Hep B test after 3 Hep B immunizations |
| Hepatitis B Test              | Once   |   |
| Hepatitis C Confirmatory Test | After a positive Hep C EIA                     | Displays for patients with positive Hep C EIA only                              |
| Hepatitis C Screening Test    | Annually                                       |   |
| HIV Viral Load Test           | Every 4 months                                 |   |
| HMS Dental Exam               | Variable depending on CD4                      |   |

| Reminder Type           | Frequency  | Factors for Display  |
|-------------------------|--|--|
| HMS Eye Exam            | Annually unless recent CD4Absolute is <50, then 6 months |  |
| HMS Influenza IZ        | Annually   |  |
| HMS Mammogram           | Annually   | Displays for female patients ages 50-69 without documented bilateral mastectomy      |
| HMS Pap Smear           | Variable, depending on CD4                               | Displays only for female patients ages 18 through 64 without documented hysterectomy |
| HMS Pneumovax IZ        | Every five years   |  |
| PPD Test (TB)           | Annually   |  |
| Safe Sex Education      | Every 6 months   | Displays for patients ages 13 and older  |
| Syphilis (FTA-ABS) Test | After a positive RPR                                     | Displays for patients with positive RPR  |
| Syphilis (RPR) Test     | Variable, depending on diagnoses                         |  |
| Tetanus IZ              | Every 10 years   |  |
| Toxoplasmosis Test      | Annually   | Displays for patients with no history of positive Toxoplasmosis test                 |

## 3.0 Panel Management

A panel is an automated tool for maintaining a list of patients who meet criteria set by the user and providing various condition-specific reports, reminders, and plans to assist providers in managing the disease or condition.

The iCare application can be used to maintain a list of all HIV/AIDS patients.

There are many methods to creating an HIV/AIDS panel in iCare.

The following information applies to the **Panel Definition** window. Access this window from the **Panel List** window by doing any of the following:

- Click the **New** () button.
- Select the **New** option on the context menu.
- Select **File | Panel | New**.

The application displays the **Panel Definition** window with focus on the **Definition** tab.

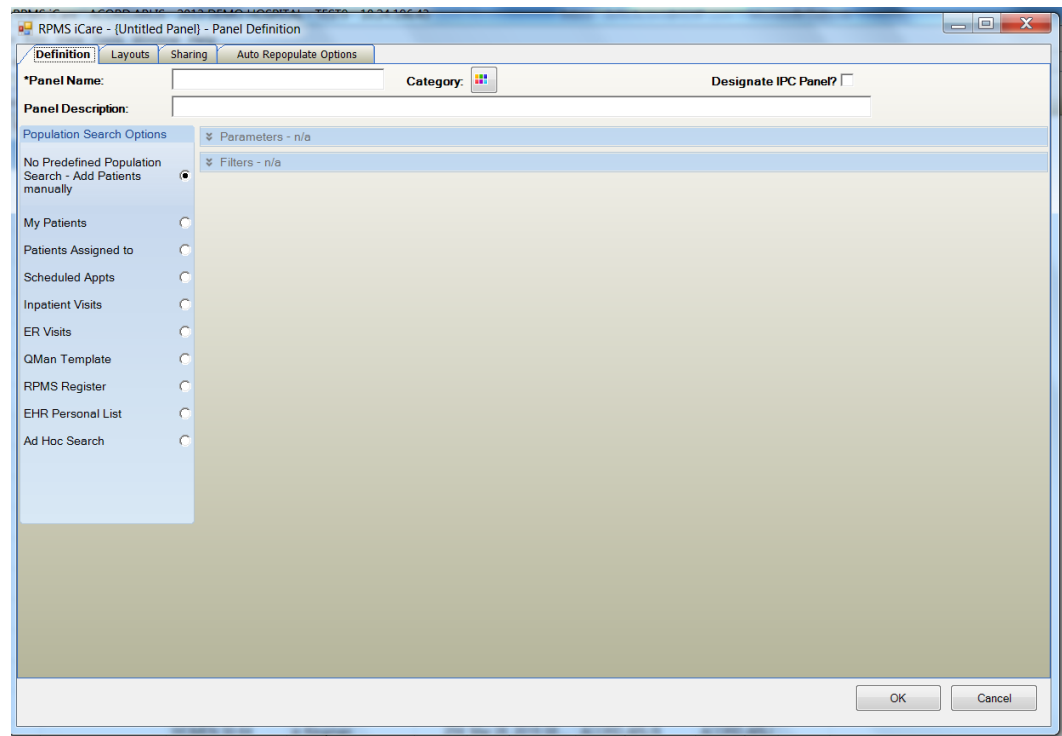


Figure 3-1: Initial Definition tab

### 3.1 Using the No Predefinition/Population Search

Users can manually add all known HIV/AIDS patients at local sites by using this search method. This method might be used by sites with a small HIV/AIDS patient population. Section 0 provides information on how to search for a patient.

### 3.2 Using the Patients Assigned To Search

The objective is to find the Specialty Providers with a Specialty Type of HIV/AIDS.

After selecting the **Specialty Provider** option button, specify the specialty provider types. Click **Edit** to access the **Add/Remove Specialty Provider Types** dialog.

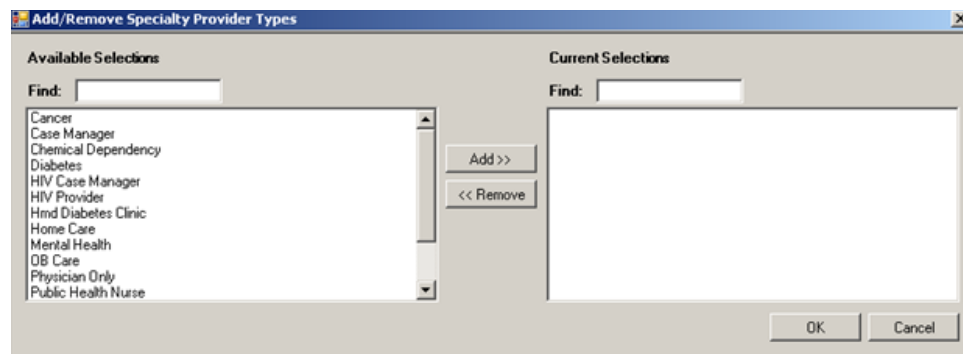


Figure 3-2: Add/Remove Specialty Providers Types dialog

### 3.3 Using the QMAN Template Search

Find the template in iCare and the panel will be automatically populated with the QMAN search results.

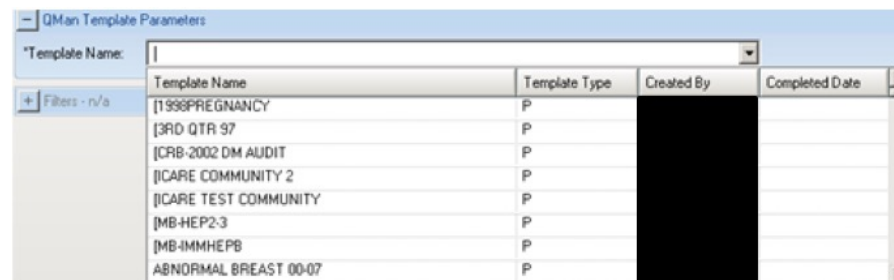


Figure 3-3: Selecting the QMan Template

### 3.4 Using the RPMS Register Parameters Search

If your site has been using the roll-and-scroll HIV Management System (HMS) application to create a register, you may want to populate your iCare panel with that register.

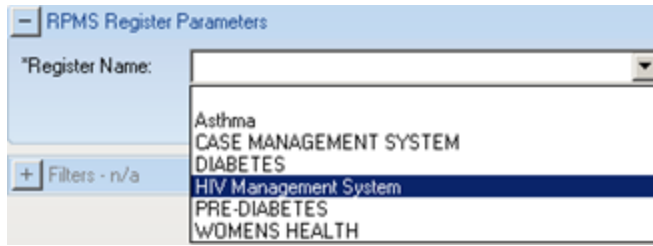


Figure 3-4: Selecting the HIV Management System in **RPMS Register Parameters**

### 3.5 Patients with HIV/AIDS Diagnostic Tag Search

This search for patients would be under the Ad Hoc search using the **Diagnostic Tag** filter.

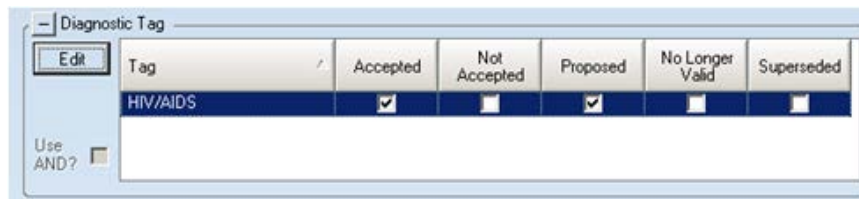


Figure 3-5: Using HIV/AIDS tag under the **Diagnostic Tag** group box

### 3.6 Patients with AIDS or HIV on Problem List Search

This option is under the Ad Hoc Search using the **Problem** filter.

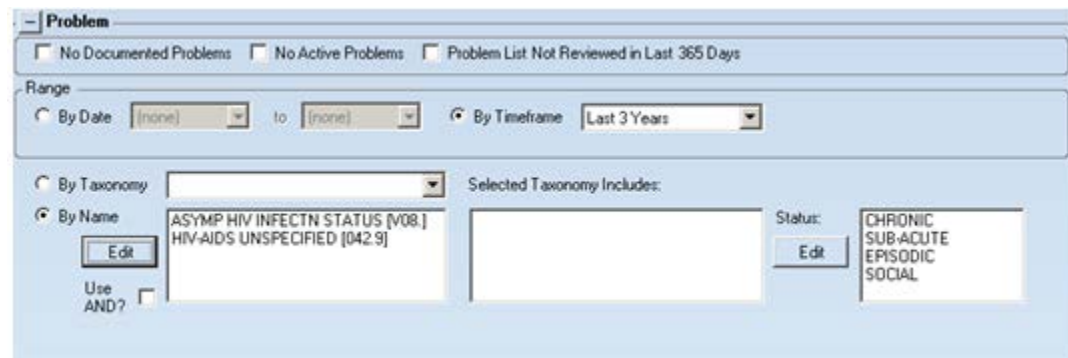


Figure 3-6: AIDS or HIV on Problem List for any patient

### 3.7 Patients with AIDS or HIV Reminder Search

This option is under the Ad Hoc Search using the **Reminder** filter.



Figure 3-7: Patient with AIDS or HIV Reminder

### 3.8 Patients Who Visit HIV/AIDS Clinic Search

This option is under the Ad Hoc Search using the **Visit** filter.

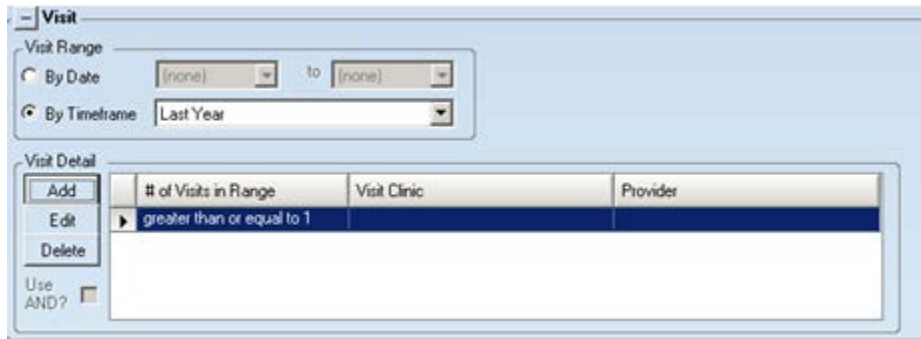


Figure 3-8: Patients who visit HIV/AIDS clinic search

When searching for a **Visit Clinic** name, there might not be one with “HIV” or “AIDS” in its name. However, try one with “Early Intervention” or “Chronic Disease” in its name.

## 4.0 Reports

Below is information about the various HIV/AIDS reports.

### 4.1 HMS Patient Care Supplement

From any patient's record on the **Summary/Supplement** (Summ/Supp) tab, view and print the patient's HMS Patient Care Supplement. Section 2.6 provides information on how to generate the HMS Patient Care Supplement.

The HMS Patient Care Supplement displays information specifically related to HIV/AIDS. The provider will be able to see, at a glance, the relevant labs, related diagnoses, medications and reminders. Appendix F provides the logic for the HMS Patient Care Supplement. Also, Section III of the HIV/AIDS Glossary provides information about this supplement.

### 4.2 State Surveillance Report (SSR)

The State Surveillance Report is a multi-page report that can be filled out and sent to the state when a patient has been diagnosed with HIV or AIDS. The report format is based on standard CDC reporting requirements.

The State Surveillance Report is exclusively located in a patient's record on the **Care Management** (Care Mgmt) tab.

The State Surveillance Report is just a guide for a site to use; it is not state-specific.

The State Surveillance Report fills in some of the patient information that may be available, such as name, race, ethnicity, and address. The blank does not include this information.

Below is an example of part of the State Surveillance Report:



```
SECTION III: DEMOGRAPHIC INFORMATION

Diagnostic status at report:
  (Check one)  ___ HIV  ___ AIDS
Age at Diagnosis: 32
Date of Birth: 12/11/1980
Current Status: Alive
Date of Death:
  (mm/dd/yyyy)
State/Territory of Death:
  Gender: FEMALE
  Ethnicity:
    ___ Hispanic  ___ Not Hispanic  ___ Unknown
Race: AMERICAN INDIAN OR ALASKA NATIVE
Country of Birth: U.S.A.
```

Figure 4-1: Section III of the State Surveillance Report

Select to print a blank report form and fill in all of the data manually, or print a patient-specific form. The patient-specific form will display many data items directly from RPMS, but several elements will still have to be confirmed and filled in manually.

Regardless of which form the user chooses to print, providers should review this report, manually correct or fill in any incorrect or missing data, and then send the report to the appropriate state agency.

If your state has a specific format, running the SSR for a patient may provide RPMS data that can be transferred to your state's form.

To generate the report, follow these steps:

1. Open a patient record.
2. Click the **Care Management** tab.
3. Select **HIV/AIDS** in the **Please Select a Group** field.
4. Click **Reports** on the **Main** sub-tab.
5. Do one of the following:
  - a. Select **State Surveillance (Blank)** option to access a blank **State Surveillance** report.
  - b. Select **State Surveillance** option to access the **State Surveillance** report.

## 4.3 Quality of Care (QOC) Report

The **Quality of Care (QOC)** report provides a snapshot of key care indicators for HIV/AIDS patients at the provider's site. Use the report to assess how well care is being extended to HIV/AIDS patients and to justify activities at the provider's site.

The general format is based on HIVQual, an HRSA-sponsored program built upon a model of quality improvement consultation that was developed in New York State. The goal of the HIVQual Continuous Quality Project is to improve the quality of care delivered to persons with HIV.

Clinical elements that are documented in the Quality of Care report include the following:

- CD4 (T cell) and HIV Viral load test dates and categorization by test results
- STD testing: Completion of tests and categorization of test results for sexually-transmitted diseases (STDs), including syphilis (RPR [rapid plasma reagin]), chlamydia, and gonorrhea as well as Hepatitis C screening and Colorectal Cancer screening.
- Infectious disease prevention: Testing for or immunization against tuberculosis, pneumococcal diseases, and tetanus.
- Relevant exams and procedures: Completion of eye exam, dental exams and specific exams for women i.e. pap smears and mammograms.
- Medications: Categorizes patients by types of medications, including ARV (anti-retroviral) therapy, PCP and MAC prophylaxis
- Related health factors: Categorizes patient by tobacco and substance abuse screening and use.
- Mental Health Screening: Cognitive Function Assessment, Depression Screening, Anxiety Screening, Psychosocial Assessment, Sleeping Habits Assessment, Appetite Assessment, Domestic Violence Screening, and Post Traumatic Stress Disorder Screening.
- Patient Education: Safe sex, family planning and other HIV-related topics.

Appendix E provides a description of the logic used to create the Quality of Care report. And a full example of a QOC report.

In order for the **QOC** report to be accurate and effective, Case Managers should ensure that the register fields and taxonomies are up-to-date, and that the report is run every month.

When the report is started, a list of taxonomies used by the report will be displayed if they do not contain any data.

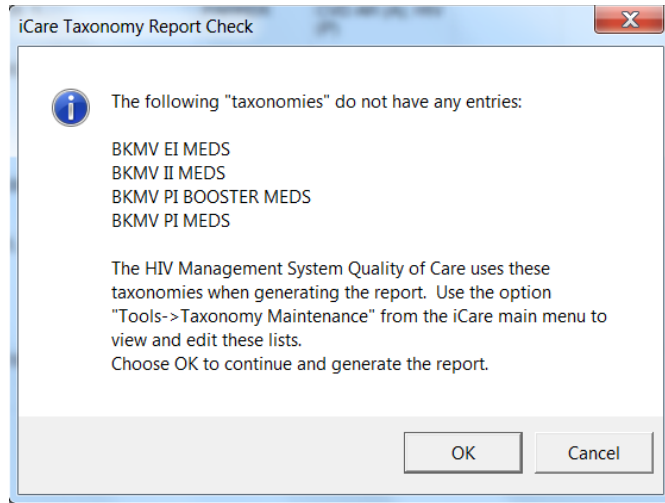


Figure 4-2: **iCare Taxonomy Report Check** dialog

Some sites may opt to run the QOC report only on HIV patients and another only on AIDS patients.

The QOC report is exclusively located in the panel view (not in a patient's individual record).

The report can run on everyone in the panel or on specific patients in the panel. The report can also be run on patients with an HIV/AIDS Diagnostic Tag or patients from the HMS Register.

To generate the report, follow these steps:

1. In the panel view, select the patients to be included in the QOC report on the **Care Mgmt** tab (under the **Main** sub-tab).
2. Click **Reports**.
3. Select **Quality of Care** to access the **Quality of Care** dialog.

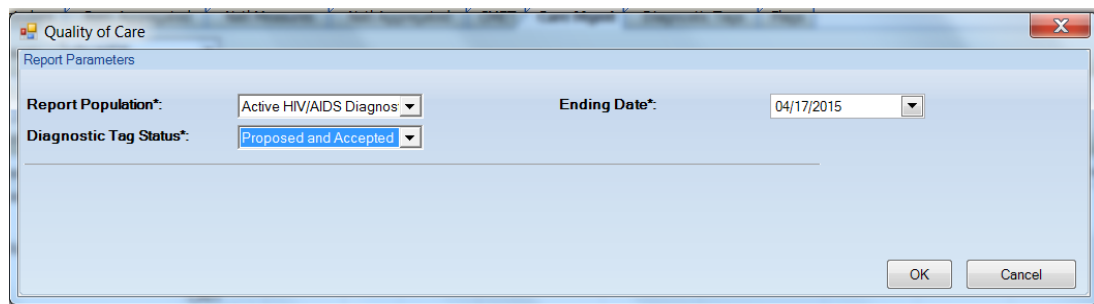


Figure 4-3: **Quality of Care Report Parameters** dialog

4. The population for the report is determined by either the **Report Population** or **Diagnostic Tag Status** field.

- a. From the **Report Population** menu, select the population for the report. As mentioned above, it is possible to select individual patients. The options include **Active HIV/AIDS Diagnostic Tag** and **Active HMS Register Patients**. Selected Patients are added to the list if those patients were highlighted and selected prior to clicking on **Reports**.

| Patient Name         | HRN                                      | DOB          | Register... | HIV Provi... | HIV Case... | HMS Di                              |
|----------------------|--|--------------|-------------|--------------|-------------|-------------------------------------|
| DEMO.ALISTER LANE    | 124625-TST<br>124626                     | May 20, 1980 |             |              |             |                                     |
| DEMO.AMENDMENT ONE   | 124221-TST                               | Apr 19, 1954 | ACTIVE      |              |             | AT RISK<br>EXPOSE<br>SOURC<br>UNKNO |
| DEMO.AMENDMENT TWO   | 112025-TST<br>112026-CRIT<br>112027-ASAP | May 22, 1980 | ACTIVE      |              |             | AT RISK<br>EXPOSE<br>SOURC<br>UNKNO |
| DEMO.ASHLEY          | 114649-TST                               | Feb 27, 1990 |             |              |             |                                     |
| DEMO.BCMAONE         | 147513-TST                               | Feb 08, 1976 |             |              |             |                                     |
| DEMO.BCMATWO         | 147514-TST                               | Dec 08, 1971 |             |              |             |                                     |
| DEMO.BENJAMIN SR     | 139644<br>139645<br>139646               | Aug 06, 2006 |             |              |             |                                     |
| DEMO.BERNADINE MARIA | 140558-TST<br>140559                     | Nov 11, 1992 |             |              |             |                                     |

Figure 4-4: Selected patients example

- b. Activate the **Diagnostic Tag Status** field by selecting the **Active HIV/AIDS Diagnostic Tag** option in the **Report Population** field. Select the status of the Diagnostic Tag: **Accepted**, **Proposed**, or **Proposed and Accepted**.
5. In the **Ending Date** field, the default date is the current date.

**Note:** It is important to understand that the QOC report is an annual, retrospective report, meaning that the start date of the report is always set at one year prior to the Ending Date.

Change the end date by typing in a new date or selecting it from the calendar.

6. Click **OK** (otherwise, click **Cancel**). After clicking **OK**, the report displays.

The report can take some time to run, depending on the number of patients and the system load at your site. A message will display, showing that the report is running with an option to cancel if necessary.

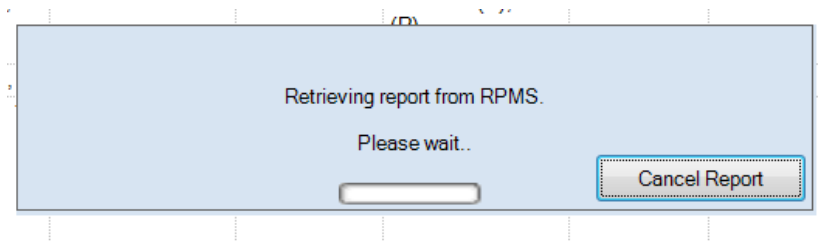


Figure 4-5: Report retrieval message

7. Click **OK** (otherwise, click **Cancel**). After clicking **OK**, the report displays.

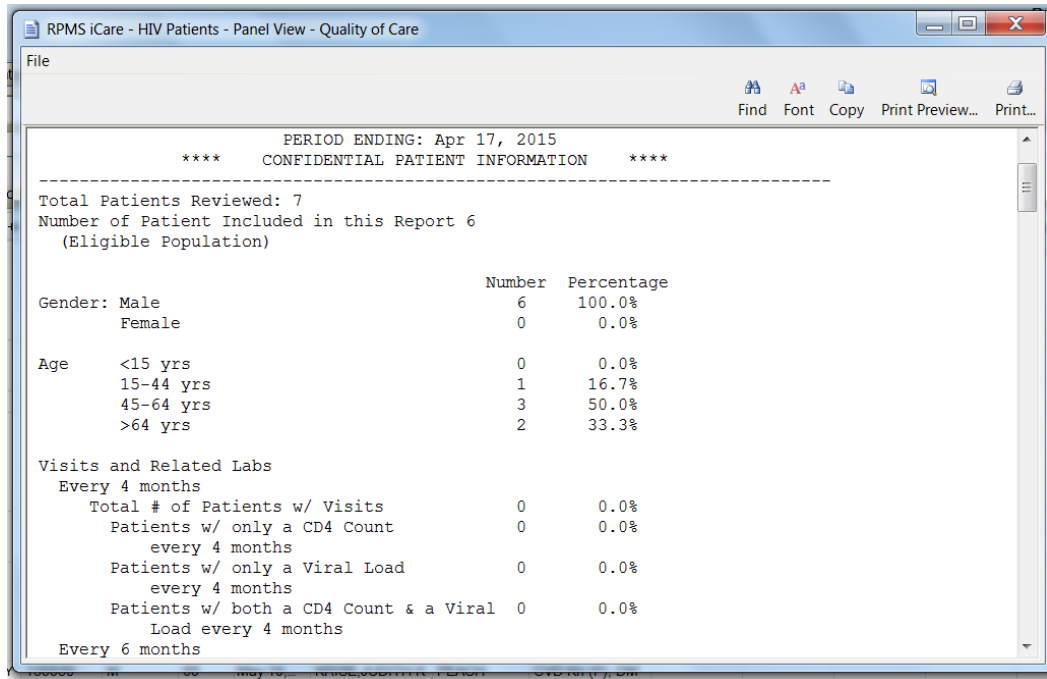


Figure 4-6: Sample of part of the Quality of Care report

## 5.0 HIV/AIDS Community Alert

The iCare application generates anonymous Community Alerts for the incidence of suicidal behavior, public health concerns and the Center for Disease Control's (CDC) Nationally Notifiable Diseases (NND) about HIV/AIDS. During a nightly background job in iCare, POVs are mined for the incidence of each of these. The display of these community alerts are a user-specific preference, meaning that individual iCare users may choose whether or not to see a particular community alert.

For display, the NNDs are divided into three levels of alerts: **Mandatory**, **Recommended**, and **Optional**.

- **Mandatory** alert displays are automatically set to display and users cannot turn these off.
- **Recommended** alert displays are automatically set to display but users can opt to turn these off.
- **Optional** alert displays are automatically set as off, but users can turn them on. The **HIV/AIDS** alert is an **Optional** alert.

To view the setting of the HIV/AIDS community alert:

1. Open the **Tools** menu.
2. Select **User Preferences**.
3. Go to the **Comm Alert Setup** tab. Scroll down to the **HIV/AIDS** alert under the **Optional** sub-tab. Click the check box so that the alert is **On**.

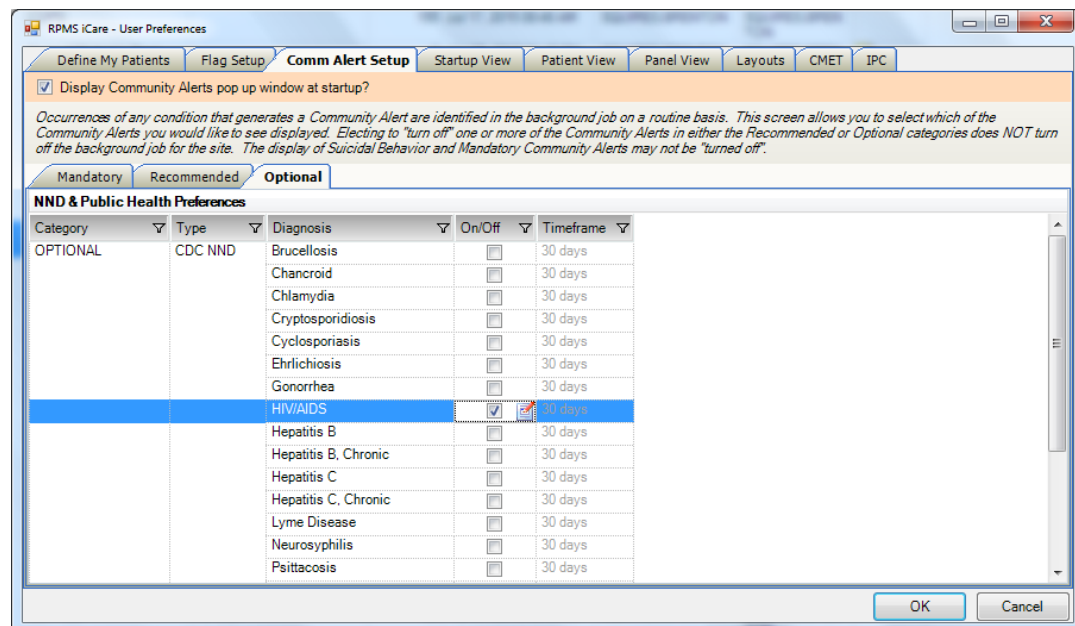


Figure 5-1: Optional NND Community Alerts

## 6.0 Taxonomy Management

This section describes the purpose of taxonomies, and how to view, edit, and add a site-populated taxonomy.

### 6.1 What Is a Taxonomy

A taxonomy is the RPMS structure that holds the codes or terms that comprise any clinical definitions used by iCare and other RPMS clinical applications to calculate reminders and to construct reports.

The iCare application is similar to other clinical applications that use programmed logic (algorithms or artificial intelligence) to compute due and overdue HIV/AIDS-related reminders and other calculations related to constructing a complex report. Appendix D provides the detailed algorithm logic used by iCare. The logic is composed of individual definitions of clinical elements, such as tests, immunizations, or diagnoses.

In order to provide comparable reminders and reporting across all I/T/U facilities, as much logic as possible is based on standard national codes. These codes include ICD-9, CPT, LOINC, drug class and national IHS standard codesets (e.g., Health Factors, patient education codes, or exam codes). For lab test and medication terminology that is not standardized across each facility, iCare uses taxonomies that are populated by each individual facility with its own codes.

Therefore, there are two different types of taxonomies distributed: software-defined (“hard-coded”) and site-populated.

### 6.2 Taxonomy Nomenclature

Codes and terms contained in a taxonomy are referred to as “members” of the taxonomy.

The names of the taxonomies generally describe the type of content. Each type of code (CPT, ICD, etc.) requires a separate taxonomy. The following terms are typically used in the taxonomy name:

- CPTS: CPT codes for procedures, tests, etc.
- CVX: Standardized immunization codes maintained by the CDC and used by the RPMS Immunization application
- DXS: ICD9 codes used to describe diagnoses in the RPMS Purpose of Visit (POV) or Problem List
- FACTORS or HLTH FACTORS: IHS Health Factor codes
- LOINC: Standardized codes used to identify lab tests, in addition to the site-populated lab test taxonomies

- NDCS: NDC (National Drug Classification) codes used to identify medications, in addition to the site-populated medication taxonomies
- PROC or PROCEDURES: ICD9 Procedure codes

Appendix C: provides a complete list of clinical definitions and associated taxonomies. Note that some of the taxonomies are new, while many have been in existence for quite some time and are used throughout RPMS.

### 6.3 Software-Defined (Hard-coded) Taxonomies

One clinical definition might be comprised of multiple code types with corresponding multiple taxonomies. For data elements like diagnoses, procedures, or lab tests identified by LOINC codes, a taxonomy is created for each code type within a definition that contains the standard codes that a software program should look for. These codes are hard-coded by the programmer into software-defined taxonomies that are distributed with the software. These taxonomies are defined nationally and cannot be modified at the local level. An example of a software-defined taxonomy is BGP CPT PAP that contains the list of CPT codes that define a pap smear.

Become familiar with the contents of the taxonomies in order to understand how your site can better document patient records. Should an existing, nationally defined taxonomy requires editing, the user should contact the OIT Help Desk.

### 6.4 Site Populated Taxonomies

Site-populated taxonomies are used to moderate the variations in terminology for medication and laboratory test names from one facility to another. PCC programs cannot deal with variations in spelling, spacing, and punctuation. Rather than attempting to find all potential spellings of a particular medication, the application looks in a specified taxonomy for the exact medication names that have been entered by that site.

Site-populated taxonomies are distributed without content; that is, the taxonomies are “empty.” The individual facility will enter all medication or lab test names used at that particular facility. This means that one site’s Hepatitis B test data, called Hep B Surface Antigen, can be compared to another site’s test called Hbsag Hep B Surface Ant. Or, one site’s NRTI medication data can be compared to another site, even though the same names are not used for these medications (“Zidovudine 100MG Cap” or “Zidovudine Cap/100 MG”).

If there is content in an existing site-populated taxonomy, it will not be overwritten or deleted in iCare.



There are numerous site populated laboratory and medication taxonomies that must be populated by a Case File Manager. The population of these taxonomies will increase the accuracy of iCare reporting. New taxonomies added through the installation of updated software releases will, by default, be empty, requiring site intervention to populate based on the site's needs. Always check the release notes for any new taxonomies being loaded.

A separate table for the laboratory and the medication site-populated taxonomies are provided below to use as a checklist.

Taxonomy names beginning with "BGP" are created and "owned" by the Clinical Reporting System (CRS) and should already be populated on your server. However, plan to review the content for all site-populated taxonomies to ensure that they are accurate.

**Note:** All taxonomies should be reviewed for completeness and potential updates before running any functions.

#### 6.4.1 Lab Test Taxonomies

The following is a list of lab taxonomies that must be populated by the site. Consult with your laboratory supervisor to include all lab tests that are being performed at your site. Each taxonomy has examples of common names for these lab tests, which may assist in locating all appropriate tests for your site.

**Note:** To provide the most accurate reporting, include all test names that have been used by your facility since at least 1995, even if these codes are currently inactive. Some measures search for tests as far back as 10 years, e.g., tuberculosis.

Many sites designate inactive lab tests by adding one of the following characters at the beginning of the test name: "z," "Z," "xx," "X," or "\*." Search for these characters in the lab file and include these tests in site-populated taxonomies because these tests may have been in use at one time.

Table 6-1 below provides taxonomy names, their descriptions, examples of member and associated CPT codes. Please note the column labeled **Example of Members** are only examples; your site might or might not use this terminology.

Table 6-1: Taxonomy names, descriptions, examples of members, and associated CPT codes

| <b>Taxonomy Name</b>    | <b>Description</b>  | <b>Example of Members</b>   | <b>Associated CPT Code</b>       |
|-------------------------|---|---|----------------------------------|
| BGP CD4 TAX             | All test names related to any element of a CD4 Lab Test, used to evaluate immune system status (Also known as: T4 count, T-helper cells)<br>This taxonomy is used to determine that a patient had the test, but is not used to determine the test result (see BKM CD4 ABS TAX below).<br>This taxonomy is also used by CRS<br>NOTE: Do NOT include HIV panels in this taxonomy. | <ul style="list-style-type: none"> <li>• CD4 Cells</li> <li>• CD4 Lymphocytes</li> <li>• CD4 Absolute or ABS CD4</li> <li>• Helper T-Lymphocyte Marker</li> <li>• T-Lymphocyte Helper / Suppressor Profile</li> <li>• T-Cell Activation Profile</li> </ul>                                      | 86361                            |
| BGP CHLAMYDIA TESTS TAX | All lab tests for Chlamydia trachomatis, including panels   | <ul style="list-style-type: none"> <li>• Chlamydia Culture</li> <li>• Chlamydia IgG</li> <li>• Chlamydia IgM</li> <li>• Chlamydia Screen</li> <li>• Chlamydia, DNA Probe</li> <li>• Chl/Gc Combo</li> <li>• Chlamydia &amp; Gonorrhea Probe</li> <li>• Pap/HPV/Chlam/Gonorrhea Combo</li> </ul> |                                  |
| BGP HIV TEST TAX        | All lab tests to test for HIV<br>NOTE: Do NOT include any test name that is actually referring to an HIV panel (see CD4 and/or HIV Viral Load)  | <ul style="list-style-type: none"> <li>• HIV Test</li> <li>• HIV Screen</li> <li>• HIV Proviral DNA</li> <li>• HIV-1; by EIA; Abs by EIA</li> <li>• HIV-2 by PCR; HIV2QUAL by PCR</li> </ul>  | 86689, 86701-86703, 87390, 87391 |
| BGP HIV VIRAL LOAD TAX  | All HIV viral load tests (as measured by PCR or comparable test); used to assess prognosis of disease progression and to monitor the efficacy of antiretroviral therapy by measuring changes in HIV-1 RNA levels during the course of therapy.<br>This taxonomy is also used by CRS.<br>NOTE: do NOT include HIV panels in this taxonomy.                                       | <ul style="list-style-type: none"> <li>• HIV Viral Load</li> <li>• HIV RNA QNT</li> </ul>   | 87536, 87539                     |

| <b>Taxonomy Name</b>   | <b>Description</b>   | <b>Example of Members</b>  | <b>Associated CPT Code</b>  |
|------------------------|--|--|---|
| BGP PAP SMEAR TAX      | All Pap Smear tests  | <ul style="list-style-type: none"> <li>Pap Smear</li> <li>Pap/HPV/Chlam/Gonorrhea Combo</li> </ul>   | 58150, 58152, 58180, 58200, 58205, 58210, 58240, 58260, 58262-58263, 58265, 58267, 58270, 58275, 58280, 58285, 58290, 58291-58294, 58550-58554, 88141-88145, 88147-88148, 88150, 88152-88158, 88164-88167 |
| BKM CD4 ABS TAX        | Only CD4 Absolute tests. This taxonomy is used to identify the absolute count, or numeric value, of the result, which is a key identifying value for the health status of a patient. Any test included in this taxonomy should also be included in the BGP CD4 TAX (all CD4 lab tests).<br>NOTE: Do NOT include panels in this taxonomy. | <ul style="list-style-type: none"> <li>CD4 Absolute</li> <li>ABS CD4</li> <li>CD4 Lymphocytes</li> </ul>   | 86359, 86360, 86361   |
| BKM CMV TEST TAX       | All lab tests for Cytomegalovirus (CMV)  | <ul style="list-style-type: none"> <li>CMV</li> <li>CMV Ab, IgG, Quantitative</li> <li>CMV Antibodies</li> <li>CMV by DFA, Direct Detection</li> <li>CMV Culture</li> <li>CMV DNA</li> <li>CMV IgG</li> <li>CMV IgM</li> <li>CMV PCR</li> <li>Rapid Viral Culture CMV</li> </ul> | 86644, 86645, 87271, 87496, 87497   |
| BKM COCCI ANTIBODY TAX | All lab tests for Coccidioides Antibodies  | <ul style="list-style-type: none"> <li>Coccidioides</li> <li>Coccidioides Antibodies</li> </ul>  | 86635   |
| BKM FTA-ABS TEST TAX   | All FTA-ABS (Fluorescent Treponemal Antibody Absorption) Tests to confirm syphilis   | <ul style="list-style-type: none"> <li>FTA-Ab</li> <li>FTA-ABS</li> <li>TP-PA Antibodies</li> </ul>  | 86781   |

| Taxonomy Name                     | Description  | Example of Members   | Associated CPT Code                   |
|-----------------------------------|--|--|---------------------------------------|
| BKM GONORRHEA TEST TAX            | All lab tests for gonorrhea ( <i>Neisseria gonorrhoeae</i> )   | <ul style="list-style-type: none"> <li>• Gonorrhea, DNA Probe</li> <li>• Chlamydia &amp; Gonorrhea Probe</li> <li>• GC Culture</li> <li>• GC-PCA</li> </ul>  | 87081, 87590-87592, 87850             |
| BKM HEP B TAX                     | Lab tests to assess hepatitis B virus infection; evaluation of possible immunity in individuals who are at increased risks for exposure<br>NOTE: Do NOT include Hepatitis Panel as a member of this taxonomy   | <ul style="list-style-type: none"> <li>• Anti-HBe; HBeAb</li> <li>• HBV DNA PCR</li> <li>• Hep B Carrier Screen w/AFP</li> <li>• Hep B Core AB, IgM</li> <li>• Hep B Surface Ab Titer; Hbsab</li> <li>• Hep B Surface Antibody; Hbsab</li> <li>• Hep B Surface Antigen; Hbsag</li> <li>• Hep B Tests</li> <li>• Hepatitis B Core Antibodies</li> <li>• Screen For Hep B Vaccination</li> </ul> | 86704-86707; 87340-87350, 87515-87517 |
| BKM HEP C EIA TAX (screening)     | Includes any <i>initial</i> screening lab tests for Hepatitis C used at your site. Hep C confirmation tests should be included in the Hep C RIBA taxonomy below.<br>NOTE: do NOT include Hepatitis Panel as a member of this taxonomy                        | <ul style="list-style-type: none"> <li>• Hepatitis C Virus AB</li> <li>• HCV-Ab HEP</li> <li>• Anti HCV</li> </ul>   | 86803, 87520                          |
| BKM HEP C RIBA TAX (confirmatory) | Includes any confirmatory lab tests for Hepatitis C, including RIBA (Recombinant Immunoblot Assay), RNA Viral Load or Genotype.<br>NOTE: do NOT include Hepatitis Panel as a member of this taxonomy   | <ul style="list-style-type: none"> <li>• Hepatitis C Virus Antibody Supplemental Testing</li> <li>• Hep C RIBA Recombinant Immunoblot Assay</li> <li>• HCV RNA</li> <li>• Hep C RNA</li> <li>• NAT</li> <li>• Hep C Genotype</li> </ul>  | 86804, 87521, 87522                   |
| BKM HEPATITIS PANEL TAX           | To include Hepatitis Panels <i>only</i> , containing Hepatitis A antibody, IgM; hepatitis B core antibody, IgM; hepatitis B surface antigen; hepatitis C virus antibody<br>NOTE: do NOT include the individual component parts of the panel in this taxonomy | <ul style="list-style-type: none"> <li>• Hepatitis Panel</li> <li>• Acute Hepatitis Panel</li> </ul>   | 80074                                 |

| <b>Taxonomy Name</b>         | <b>Description</b>  | <b>Example of Members</b>   | <b>Associated CPT Code</b> |
|------------------------------|---|---|----------------------------|
| BKM PPD TAX                  | Any PPD skin test for tuberculosis.<br>NOTE: PPDs are generally recorded through the skin test function of the Immunization application |   | 86580, 86585               |
| BKM RPR TAX                  | All lab tests for Syphilis (Rapid Plasma Reagin (RPR))  | <ul style="list-style-type: none"> <li>• RPR</li> <li>• RPR Quant</li> </ul>  | 86592, 86593               |
| BKM TOXOPLASMO SIS TESTS TAX | All lab tests for Toxoplasmosis   | <ul style="list-style-type: none"> <li>• Toxoplasma</li> <li>• Toxoplasma IgG or IgM</li> </ul>                               | 86777, 86778               |
| BKM TRICH TESTS TAX          | All lab tests for Trichomoniasis  | Trichimonas   | None                       |
| BKMV HIV GENOTYPE TESTS TAX  | Genotype tests for drug resistance<br>NOTE: Most sites do not currently use this test   | <ul style="list-style-type: none"> <li>• HIV Genotype</li> <li>• Resistance Testing</li> <li>• Retroviral Genotype</li> </ul> | 87901                      |
| BKMV HIV PHENOTYPE TESTS TAX | Phenotype tests for drug resistance<br>NOTE: Most sites do not currently use this test  | HIV Phenotype   | 87903                      |

## 6.4.2 Medication Taxonomies

The following medication taxonomies will need to be populated by the Case File Manager with the drug names that are included on your site's formulary. The table below includes the list of drugs that should be considered. Some sites might not have medications for all the taxonomies. Case File Managers should consult with their site pharmacists to ensure accurate population of the medication taxonomies.

Table 6-2: Medication Taxonomies

|   | <b>NRTI<br/>Meds</b> | <b>NNRTI<br/>Meds</b> | <b>NRTI<br/>Comb</b> | <b>NRTI/<br/>NNRTI</b> | <b>PI<br/>Meds</b> | <b>PI<br/>Booster</b> | <b>EI<br/>Meds</b> | <b>II<br/>Meds</b> | <b>PCP<br/>PROPH<br/>Meds</b> | <b>MAC<br/>PROPH<br/>Meds</b> | <b>TB<br/>Med<br/>s</b> |
|---|----------------------|-----------------------|----------------------|------------------------|--------------------|-----------------------|--------------------|--------------------|-------------------------------|-------------------------------|-------------------------|
| Abacavir (Ziagen, ABC)                    | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Didanosine (Videx, Videx EC)              | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Emtricitabine (Emtriva)                   | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Lamivudine (Epivir)                       | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Lamivudine/Abacavir (Epzicom)             | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Stavudine (Zerit)                         | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Tenofovir (Viread)                        | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Zalcitibine (Hivid)                       | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Zidovudine (Retrovir)                     | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Zidovudine/Lamivudine (Combivir)          | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Zidovudine/Lamivudine/Abacavir (Trizivir) | X                    |                       |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Delavirdine (Rescriptor)                  |                      | X                     |                      |                        |                    |                       |                    |                    |                               |                               |                         |
| Efavirenz (Sustiva)                       |                      | X                     |                      |                        |                    |                       |                    |                    |                               |                               |                         |

|   | NRTI Meds | NNRTI Meds | NRTI Comb | NRTI/ NNRTI | PI Meds | PI Booster | EI Meds | II Meds | PCP PROPH Meds | MAC PROPH Meds | TB Meds |
|---|-----------|------------|-----------|-------------|---------|------------|---------|---------|----------------|----------------|---------|
| Nevirapine (Viramune)                       |           | X          |           |             |         |            |         |         |                |                |         |
| Etravirine (TMC-125) (Intelligence)         |           | X          |           |             |         |            |         |         |                |                |         |
| Tenofovir/Emtricitabine (Truvada)           |           |            | X         |             |         |            |         |         |                |                |         |
| Tenofovir/Emtricitabine/Efavirenz (Atripla) |           |            |           | X           |         |            |         |         |                |                |         |
| Amprenavir (Agenerase)                      |           |            |           |             | X       |            |         |         |                |                |         |
| Atazanavir (Reyataz)                        |           |            |           |             | X       |            |         |         |                |                |         |
| Fosamprenavir (Lexiva)                      |           |            |           |             | X       |            |         |         |                |                |         |
| HGC Saquinavir (Invirase)                   |           |            |           |             | X       |            |         |         |                |                |         |
| Indinavir (Crixivan)                        |           |            |           |             | X       |            |         |         |                |                |         |
| Lopinavir/Ritonavir (Kaletra)               |           |            |           |             | X       |            |         |         |                |                |         |
| Nelfinavir (Viracept)                       |           |            |           |             | X       |            |         |         |                |                |         |
| SCG Saquinavir (Fortovase)                  |           |            |           |             | X       |            |         |         |                |                |         |
| Tipranovir (Aptivus)                        |           |            |           |             | X       |            |         |         |                |                |         |
| Darunavir (Prezista)                        |           |            |           |             | X       |            |         |         |                |                |         |
| Ritonavir (Norvir)                          |           |            |           |             |         | X          |         |         |                |                |         |
| Enfuvirtide (Fuzeon)                        |           |            |           |             |         |            | X       |         |                |                |         |
| Maraviroc (Selzentry)                       |           |            |           |             |         |            | X       |         |                |                |         |
| Raltegravir (Isentress)                     |           |            |           |             |         |            |         | X       |                |                |         |
| Atovaquone (Mepron)                         |           |            |           |             |         |            |         |         | X              |                |         |
| Dapsone                                     |           |            |           |             |         |            |         |         | X              |                |         |

|   | NRTI Meds | NNRTI Meds | NRTI Comb | NRTI/ NNRTI | PI Meds | PI Booster | EI Meds | II Meds | PCP PROPH Meds | MAC PROPH Meds | TB Meds |
|---|-----------|------------|-----------|-------------|---------|------------|---------|---------|----------------|----------------|---------|
| Pentamidine, Pentam 300, Pentacarinatate (NebuPent)             |           |            |           |             |         |            |         |         | X              |                |         |
| Sulfamethaxazole & Trimethoprim/Cotrimoxazole (Bactrim; Septra) |           |            |           |             |         |            |         |         | X              |                |         |
| Trimethoprim (Proloprim, Trimex)                                |           |            |           |             |         |            |         |         | X              |                |         |
| Trimetrexate, Glururonate &Leucovorin (Neutrexin)               |           |            |           |             |         |            |         |         | X              |                |         |
| Azithromycin (Zithromax)  |           |            |           |             |         |            |         |         |                | X              |         |
| Clarithromycin (Biaxin, Klacid)                                 |           |            |           |             |         |            |         |         |                | X              |         |
| Rifabutin (Mycobutin, Ansamycin)                                |           |            |           |             |         |            |         |         |                | X              |         |
| Ethambutol (Myambutol)  |           |            |           |             |         |            |         |         |                |                | X       |
| Isoniazid (INH)   |           |            |           |             |         |            |         |         |                |                | X       |
| Pyrazinamide  |           |            |           |             |         |            |         |         |                |                | X       |
| Rifamate  |           |            |           |             |         |            |         |         |                |                | X       |
| Rifampin  |           |            |           |             |         |            |         |         |                |                | X       |
| Rifater   |           |            |           |             |         |            |         |         |                |                | X       |
| Streptomycin  |           |            |           |             |         |            |         |         |                |                | X       |



## 6.5 View a Taxonomy

The majority of the taxonomies are hard coded (software-defined) and users will not have the ability to change their contents; however, users will be able to view them.

To view the members of a taxonomy in iCare:

1. From the main iCare window, open the **Tools** menu.
2. Select **Taxonomy Maintenance** | Select **View/Edit Taxonomy Entries**.
3. The **iCare Taxonomy View/Edit** window displays.

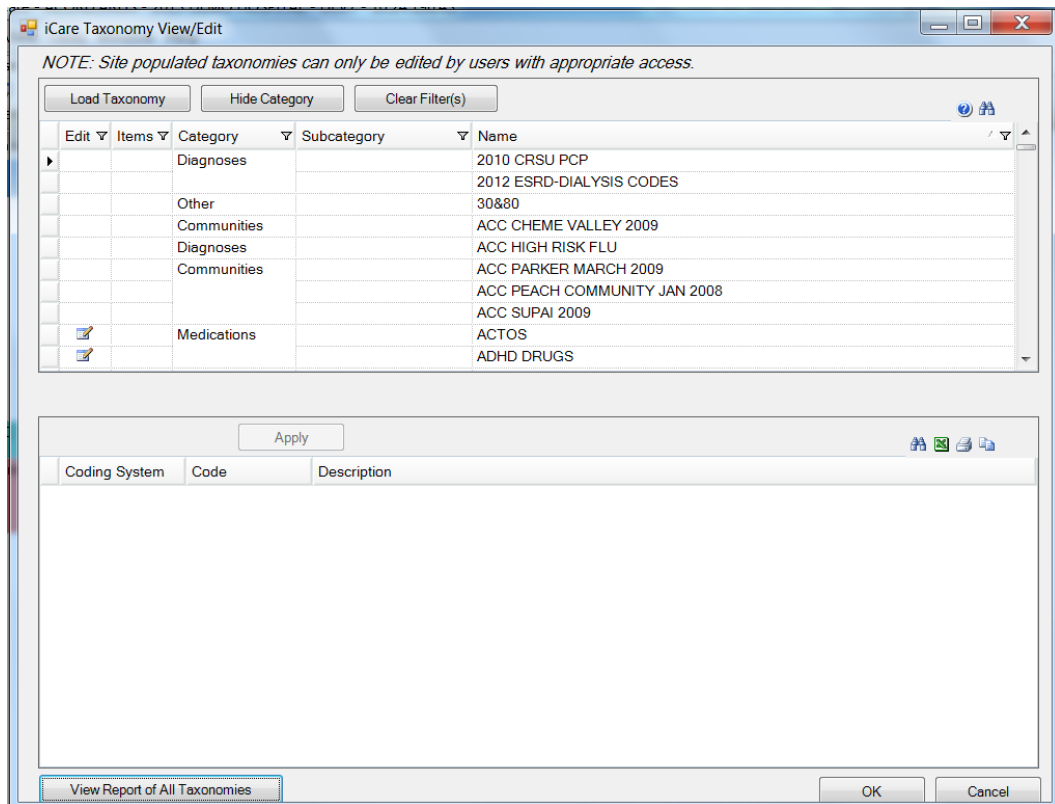


Figure 6-1: iCare Taxonomy View/Edit dialog

4. Scroll to find the title of the taxonomy to view or click on the binoculars icon for advanced search options.

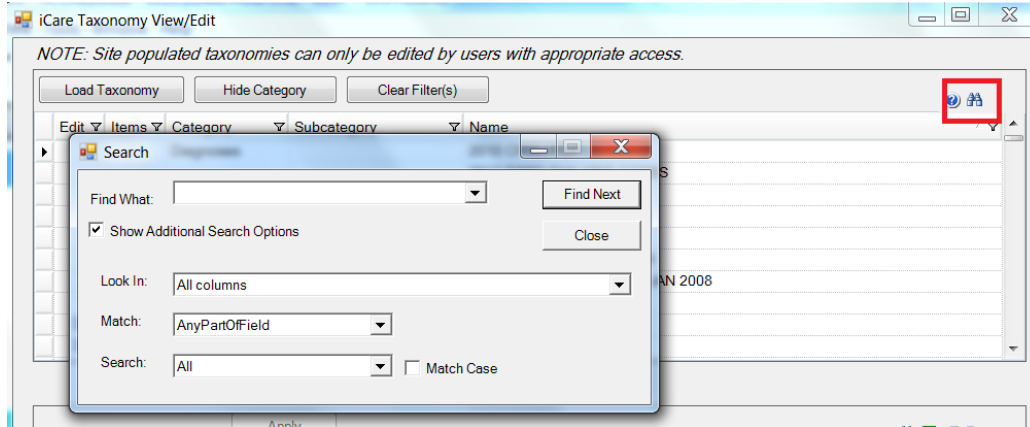


Figure 6-2: Taxonomy Search dialog

5. Click the row of the taxonomy to view it and click on **Load Taxonomy**. The taxonomy members will display in the bottom pane.

For example, to view the diagnosis codes associated with an HIV/AIDS diagnosis:

1. From the **iCare Taxonomy View/Edit** window, sort or filter the Category column to **Diagnoses**.
2. Select the **BGP HIV/AIDS DXS** taxonomy.

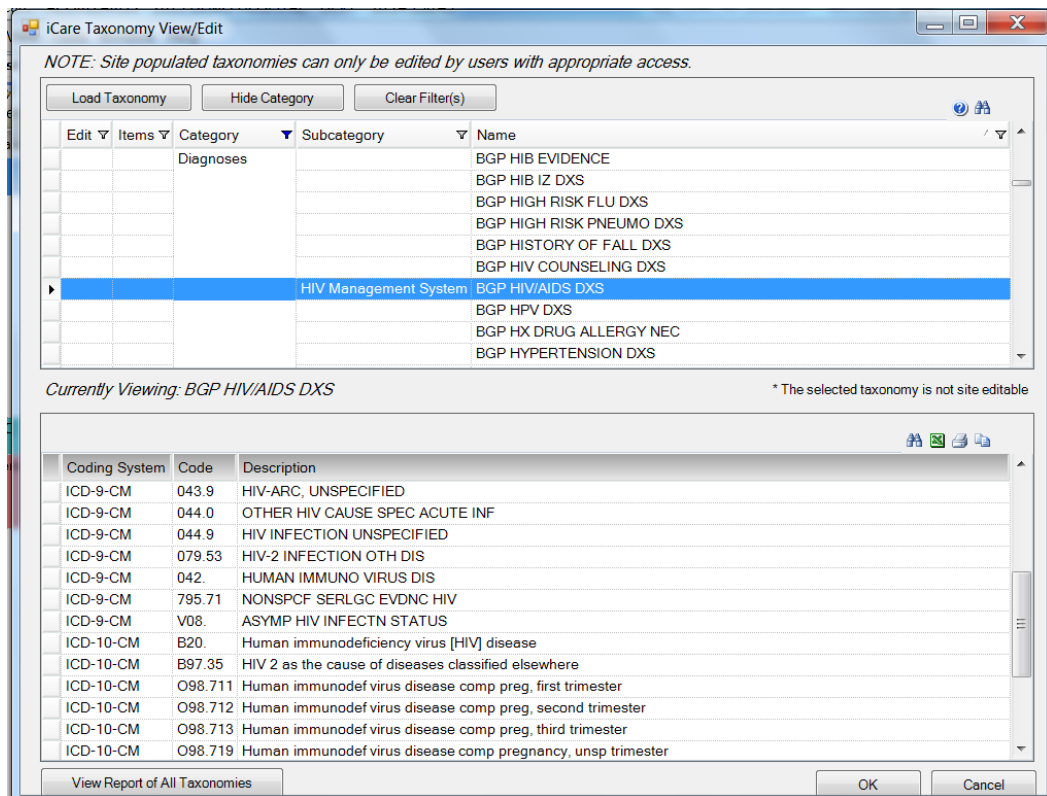


Figure 6-3: iCare Taxonomy View/Edit dialog

The list of diagnosis codes associated with HIV/AIDS is listed in the bottom pane. It includes ICD-9 and ICD-10 diagnosis codes.

## 6.6 View a Report of All Taxonomies

Users can generate a report that displays all taxonomies and all associated members. To do so, from the **iCare Taxonomy View/Edit** window, click the **View Report of All Taxonomies** button. The application displays the **RPMS iCare - Taxonomy Report**.

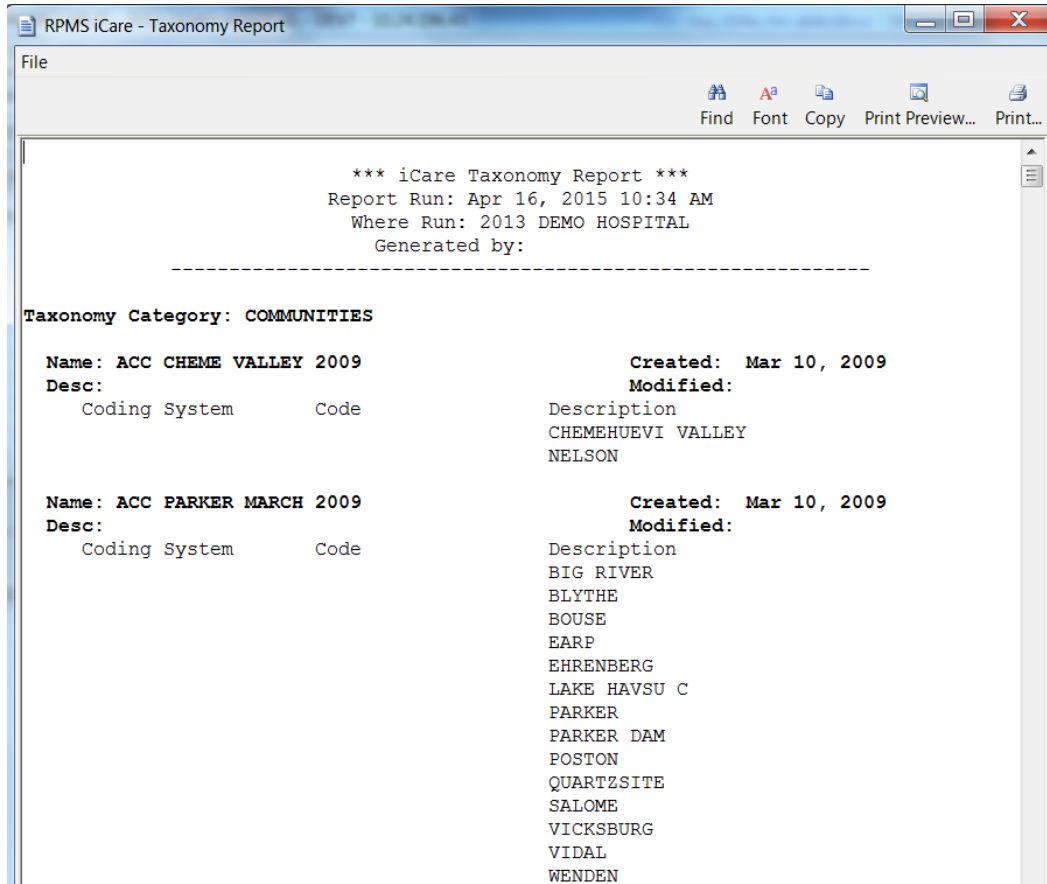


Figure 6-4: RPMS iCare – Taxonomy Report

## 6.7 Identify Empty Taxonomies

In the left pane of the **iCare Taxonomy View/Edit** window, some taxonomy names may have a yellow exclamation-point icon in the **Items** column.



Figure 6-5: Example of yellow exclamation-point icon for two taxonomies

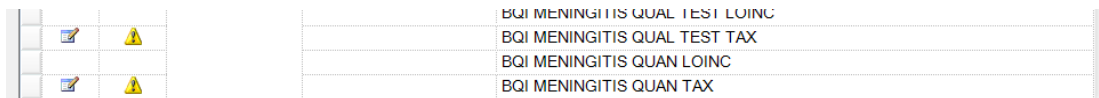
This icon indicates that the taxonomy is empty. If a user selects an empty taxonomy name, no taxonomy members will display in the right pane.

If a user attempts to run a report involving an empty taxonomy, iCare will notify the user that the report was not successful because the taxonomy was not populated.

## 6.8 Add a Member to a Site-Populated Taxonomy

Only users with the appropriate access rights can edit taxonomies. To edit taxonomy entries, the user will need the iCare Taxonomy Editor security key. If you will be responsible for editing these taxonomies, discuss this with the iCare Package Manager at your site so that you can be assigned taxonomy editor access.

To readily identify which of the taxonomies are site-populated, a pencil icon is displayed in the **Edit** column.



|  |  |  |                                |
|--|--|--|--------------------------------|
|  |  |  | BQI MENINGITIS QUAL TEST LOINC |
|  |  |  | BQI MENINGITIS QUAL TEST TAX   |
|  |  |  | BQI MENINGITIS QUAN LOINC      |
|  |  |  | BQI MENINGITIS QUAN TAX        |

Figure 6-6: Sample of paper/pencil icon in the Edit column

At some point, users may want to add a member to a taxonomy; for example, to add a new lab test to the CD4 taxonomy.

The example below demonstrates how to add lab test members to a lab taxonomy. The steps are the same to add medication members.

1. From the main iCare window, open the **Tools** menu.
2. Select **Taxonomy Maintenance** | Select **View/Edit Taxonomy Entries**.
3. The **iCare Taxonomy View/Edit** window displays.

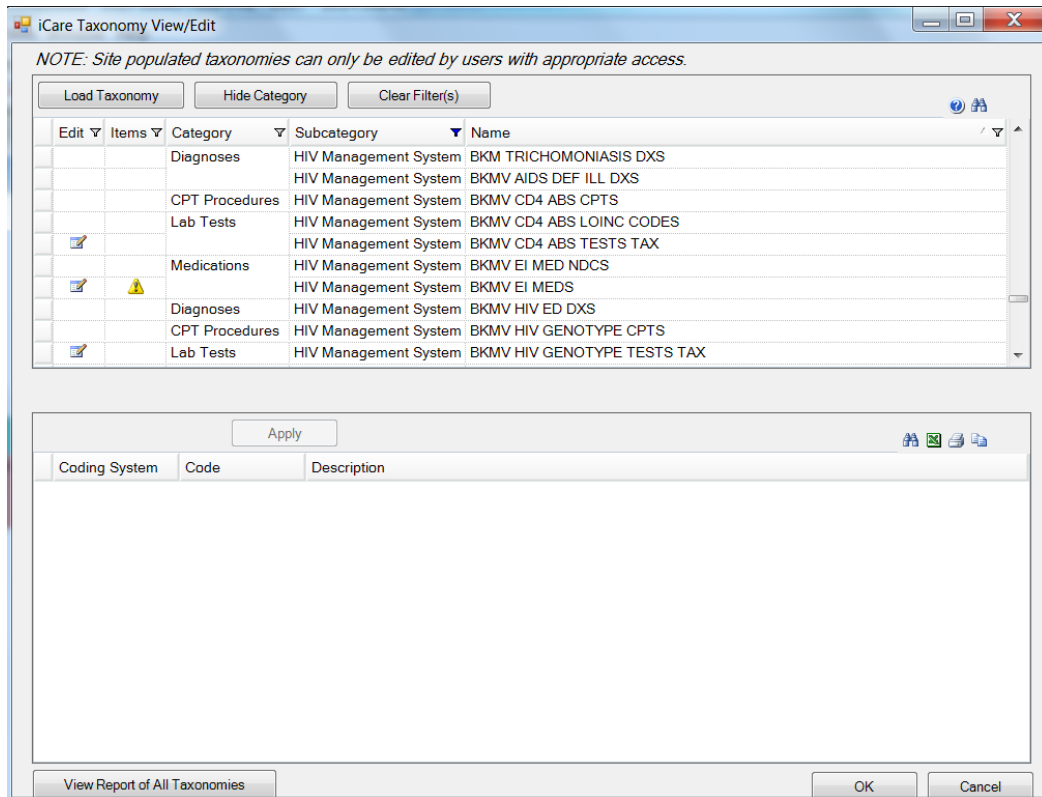


Figure 6-7: Sample initial iCare Taxonomies View/Edit window filtered by HIV Management System

4. Filter by **Category**. Only Lab Tests and Medications can be updated by the site.
5. Select the row of the taxonomy to edit.

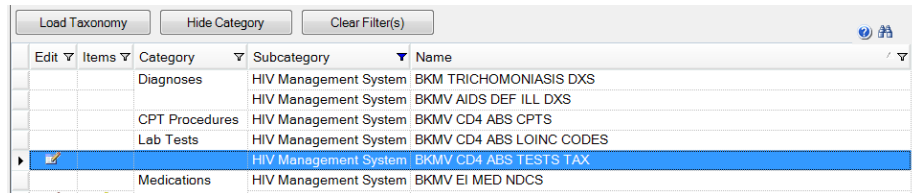


Figure 6-8: Highlighted taxonomy row

**Note:** The pencil icon in the **Edit** column indicates access rights to edit a taxonomy.

6. Click on the **Load taxonomy** button.

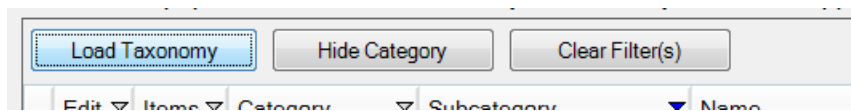


Figure 6-9: **Load Taxonomy** button

The items found in the taxonomy will list in the pane below.

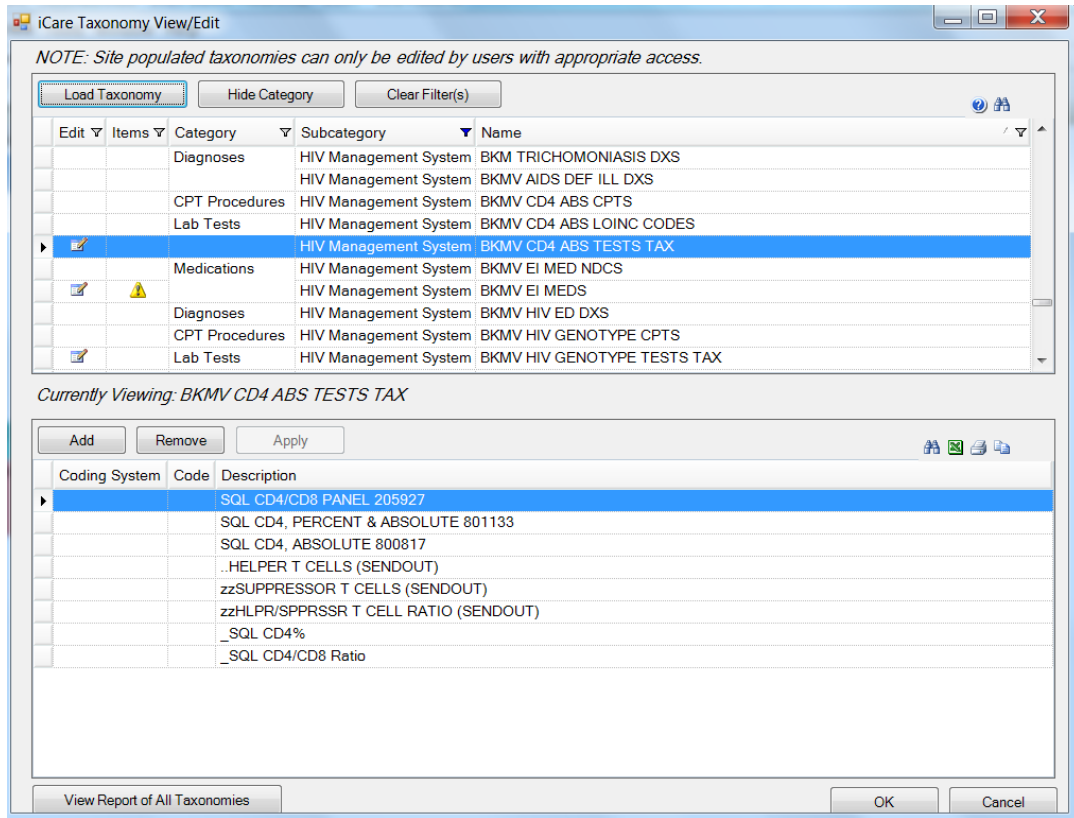


Figure 6-10: Values of selected lab tests

7. To add a member to the selected taxonomy, click **Add**.
8. The **Select Taxonomy Item** window opens. In the search field, enter the name of the lab test to add to the taxonomy.

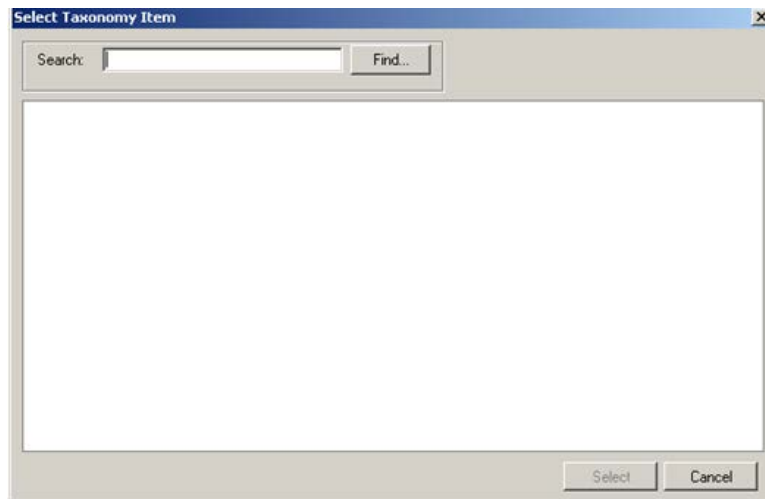


Figure 6-11: Select Taxonomy Item dialog

CD4 is used in the following example:

- Click **Find** and type **CD4**. The results display.

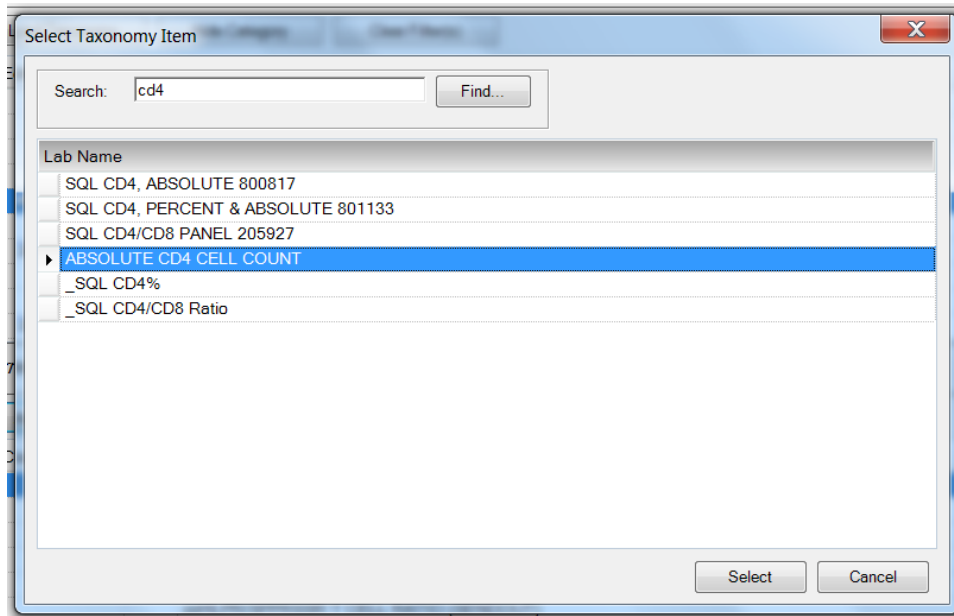


Figure 6-12: Results from search

- Select the lab test to add to the taxonomy. In this example, “Absolute CD4 CELL COUNT” is selected.
- Click **Apply**. The item is now a member of the taxonomy.

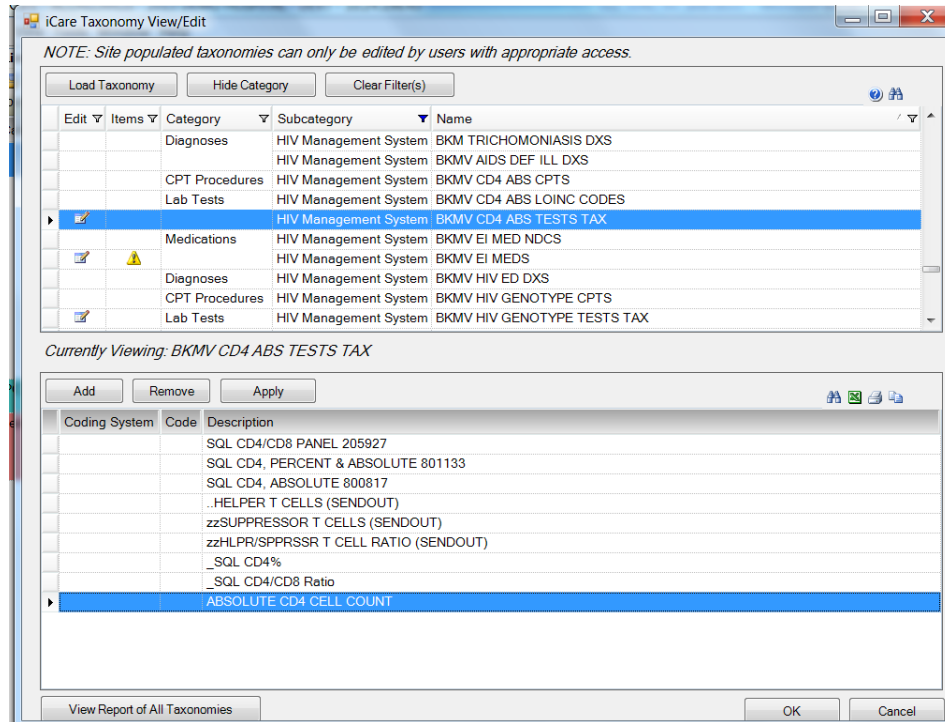


Figure 6-13: New item “ABSOLUTE CD4 CELL COUNT” added to the taxonomy

If moving on to work with another taxonomy, click **Apply** before selecting the next taxonomy.

## 6.9 Remove a Member from a Site-Populated Taxonomy

The example below demonstrates how to remove lab test members from a lab taxonomy. The steps are the same to remove medication members.

1. From the main iCare window, open the **Tools** menu.
2. Select **Taxonomy Maintenance** | Select **View/Edit Taxonomy Entries**.
3. The **iCare Taxonomy View/Edit** dialog displays.



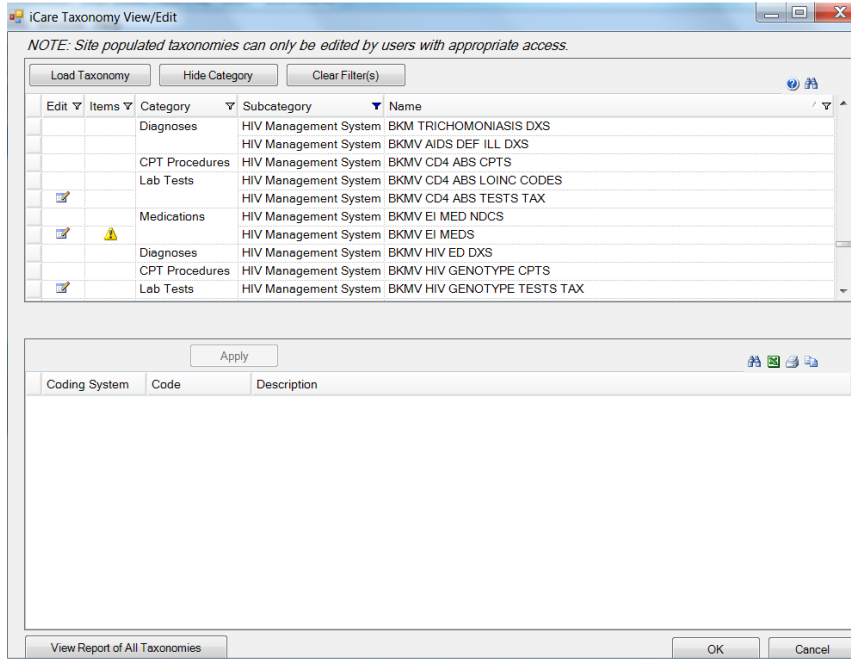


Figure 6-14: iCare Taxonomy View/Edit dialog

4. Select the row of the taxonomy to edit.

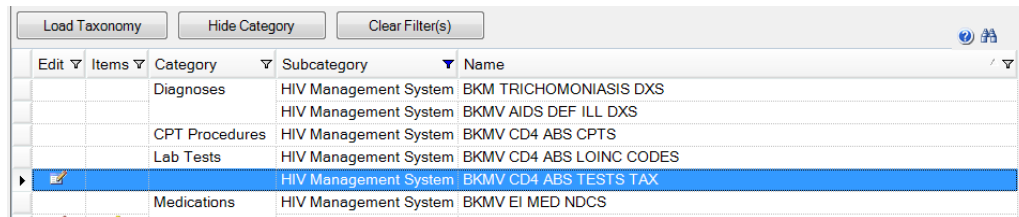


Figure 6-15: Selected Taxonomy

**Note:** The pencil icon in the ‘Edit’ column indicates access rights to edit the taxonomy.

5. Click on the **Load taxonomy** button.

The items found in the taxonomy will list in the pane below.

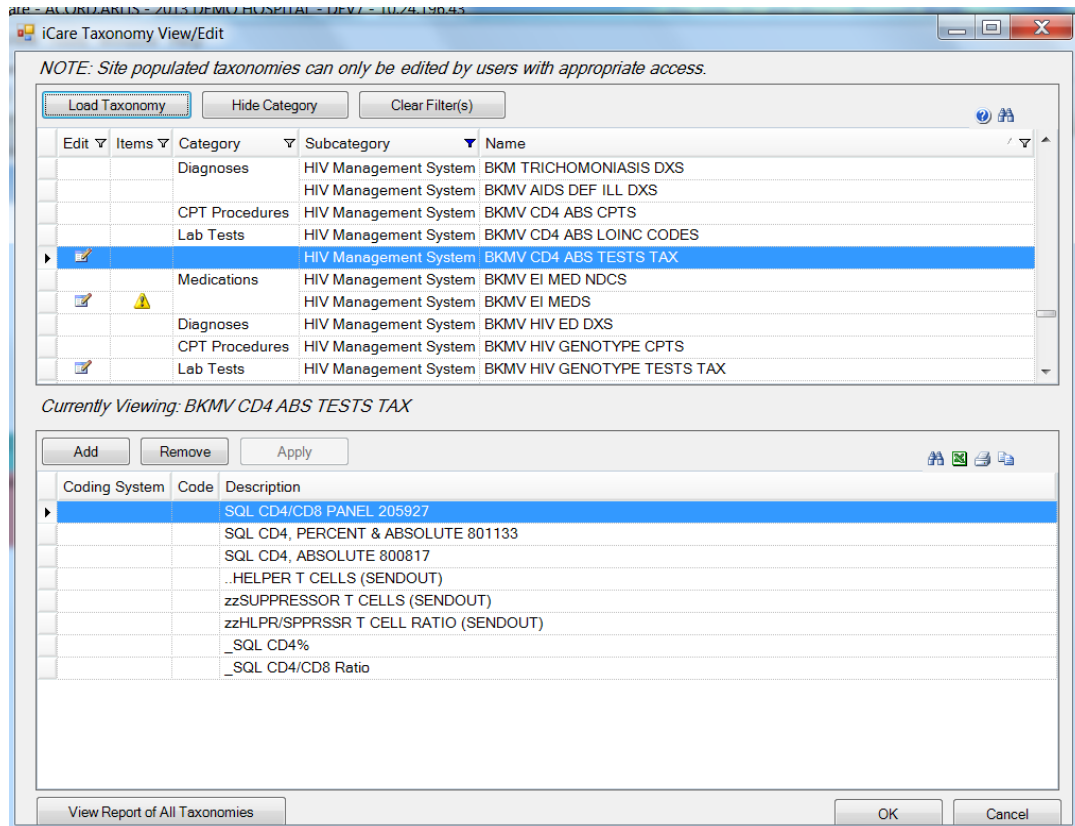


Figure 6-16: Item to remove is selected

6. In the bottom pane, select the item(s) to remove from the taxonomy.
7. Click **Remove**.
8. The application displays a warning message: “NOTE: Editing site populated taxonomies can affect many existing processes in RPMS. Be certain of your edits prior to clicking ‘OK.’” Click **OK** to remove the item from the taxonomy. (Otherwise, click **Cancel**.) After selecting **OK**, the application displays the Confirm taxonomy item remove message: “Are you sure you want to remove 1 selected taxonomy item(s)?” Click **Yes** to remove the item. (Otherwise, click **No**.)

## 7.0 Using the HIV/AIDS Glossary

The HIV/AIDS Glossary is a valuable reference tool that can assist with managing HIV/AIDS patient data. For example, reference the glossary to determine the reason for receiving CD4 reminders or to see the logic behind the Quality of Care report.

The HIV/AIDS Glossary describes in detail the logic and definitions pertaining to the following information:

- The HIV/AIDS Diagnostic Tag definition
- The HIV/AIDS specific data entry
- The panel layout options for the HIV/AIDS Care Management tab
- Taxonomy maintenance
- The HIV/AIDS Health Supplement logic
- The HIV/AIDS Reminder logic
- The HIV/AIDS Quality of Care Report logic

The glossary will deepen the understanding of the HIV/AIDS-related data used in iCare; therefore, consider printing this glossary for easy reference when entering and interpreting data related to this population.

To open the glossary:

1. Open the **Help** menu.
2. Select **Care Management Glossaries | HIV/AIDS Glossary** to access the glossary.

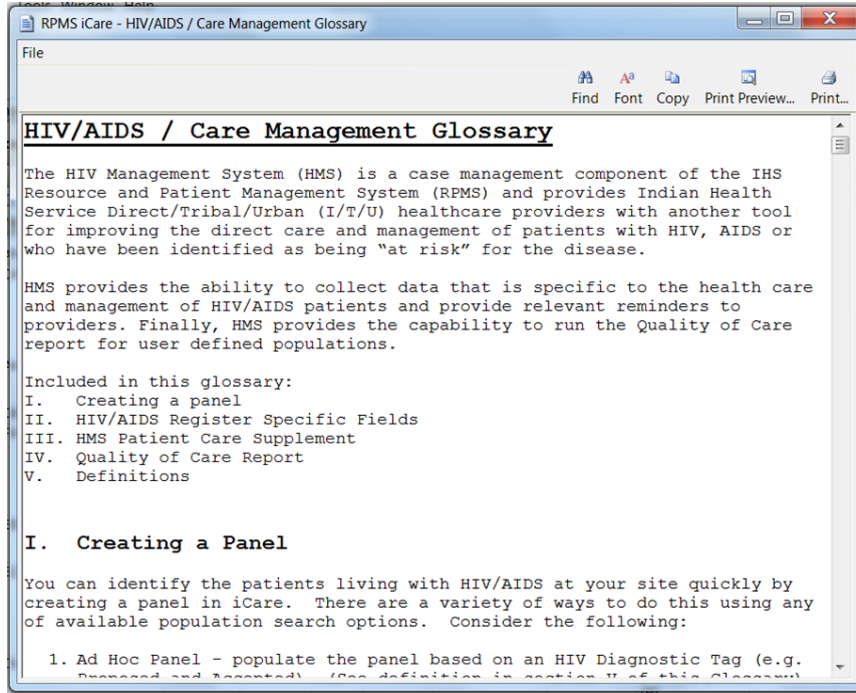


Figure 7-1: HIV/AIDS Care Management Glossary

The following actions are available on this pop-up dialog:

- Navigate through the information by using the scroll bar.
- Click the **Find** (Find) button to access a search tool to find data in the current window.
- Click the **Font** (Font) button to display the **Font** dialog.

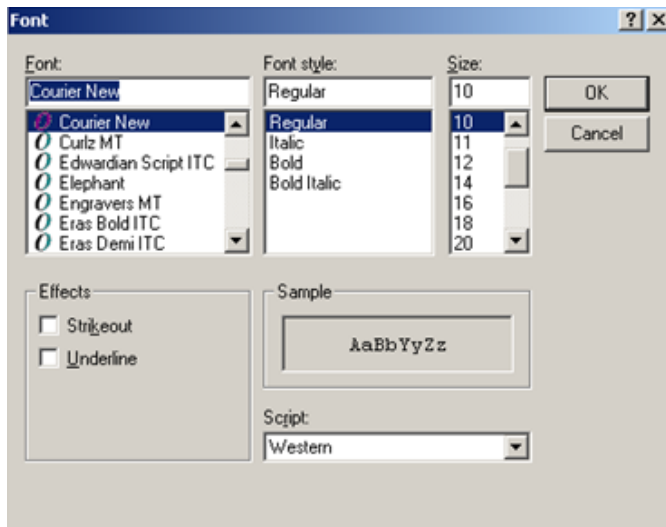





Figure 7-2: Font dialog

Use the Font dialog to change the Font name, style, and size of the text in the pop-up (applies to all of the text). In addition, add effects like **Strikeout** and **Underline** - these perform like those effects indicated in Microsoft Word.

Change the Script option to see the text displayed in another language and that language pack is installed on the computer. If the language pack is not installed, the display will not change by selecting another script.

Click **OK** to apply changes to the text in the current pop-up. These changes are only effective for the current view of the pop-up. (Otherwise, click **Cancel**.)

- Click the **Copy**  button to copy the selected text to the **Windows** clipboard.
- Click the **Print Preview**  button to view the **Print Preview** dialog. Print the contents of the pop-up from this dialog.
- Click the **Print**  button to display a **Print** dialog to specify the printer to print the contents of the pop-up, the page range, and number of copies.

The **File** menu contains the print actions (like the **Print Preview** and **Print** buttons), the **Page Setup** function, the **Find** and **Copy** functions, as well as a **Close** function (dismisses the pop-up).

## Appendix A: Definitions and Taxonomies Content

### A.1 Opportunistic Infections

Taxonomy BKMV HIV OPP INF DXS entries listed below.

Table A-1: Taxonomy BKMV HIV OPP INF DXS entries

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 114.1  | PRIM CUTAN COCCIDIOID    |
| ICD-9-CM      | 114.2  | COCCIDIOIDAL MENINGITIS  |
| ICD-9-CM      | 114.3  | PROGRESS COCCIDIOID NEC  |
| ICD-9-CM      | 115.01 | HISTOPLASM CAPSUL MENING |
| ICD-9-CM      | 115.02 | HISTOPLASM CAPSUL RETINA |
| ICD-9-CM      | 115.03 | HISTOPLASM CAPS PERICARD |
| ICD-9-CM      | 115.04 | HISTOPLASM CAPS ENDOCARD |
| ICD-9-CM      | 115.05 | HISTOPLASM CAPS PNEUMON  |
| ICD-9-CM      | 115.09 | HISTOPLASMA CAPSULAT NEC |
| ICD-9-CM      | 115.11 | HISTOPLASM DUBOIS MENING |
| ICD-9-CM      | 115.12 | HISTOPLASM DUBOIS RETINA |
| ICD-9-CM      | 115.13 | HISTOPLASM DUB PERICARD  |
| ICD-9-CM      | 115.14 | HISTOPLASM DUB ENDOCARD  |
| ICD-9-CM      | 115.15 | HISTOPLASM DUB PNEUMONIA |
| ICD-9-CM      | 115.19 | HISTOPLASMA DUBOISII NEC |
| ICD-9-CM      | 115.91 | HISTOPLASMOSIS MENINGIT  |
| ICD-9-CM      | 115.92 | HISTOPLASMOSIS RETINITIS |
| ICD-9-CM      | 115.93 | HISTOPLASMOSIS PERICARD  |
| ICD-9-CM      | 115.94 | HISTOPLASMOSIS ENDOCARD  |
| ICD-9-CM      | 115.95 | HISTOPLASMOSIS PNEUMONIA |
| ICD-9-CM      | 115.99 | HISTOPLASMOSIS NEC       |
| ICD-9-CM      | 117.3  | ASPERGILLOSIS            |
| ICD-9-CM      | 117.5  | CRYPTOCOCCOSIS           |
| ICD-9-CM      | 130.1  | TOXOPLASM CONJUNCTIVITIS |
| ICD-9-CM      | 130.2  | TOXOPLASM CHORIORETINIT  |
| ICD-9-CM      | 130.3  | TOXOPLASMA MYOCARDITIS   |
| ICD-9-CM      | 130.4  | TOXOPLASMA PNEUMONITIS   |
| ICD-9-CM      | 130.5  | TOXOPLASMA HEPATITIS     |
| ICD-9-CM      | 130.7  | TOXOPLASMOSIS SITE NEC   |
| ICD-9-CM      | 130.8  | MULTISYSTEM TOXOPLASMOS  |
| ICD-9-CM      | 130.9  | TOXOPLASMOSIS NOS        |
| ICD-9-CM      | 136.3  | PNEUMOCYSTOSIS           |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 136.8  | INFECT/PARASITE DIS NEC  |
| ICD-9-CM      | 519.9  | RESP SYSTEM DISEASE NOS  |
| ICD-9-CM      | 003.0  | SALMONELLA ENTERITIS     |
| ICD-9-CM      | 003.8  | SALMONELLA INFECTION NEC |
| ICD-9-CM      | 003.9  | SALMONELLA INFECTION NOS |
| ICD-9-CM      | 004.0  | SHIGELLA DYSENTERIAE     |
| ICD-9-CM      | 004.1  | SHIGELLA FLEXNERI        |
| ICD-9-CM      | 004.2  | SHIGELLA BOYDII          |
| ICD-9-CM      | 004.3  | SHIGELLA SONNEI          |
| ICD-9-CM      | 004.8  | SHIGELLA INFECTION NEC   |
| ICD-9-CM      | 004.9  | SHIGELLOSIS NOS          |
| ICD-9-CM      | 010.00 | PRIM TB COMPLEX-UNSPEC   |
| ICD-9-CM      | 010.01 | PRIM TB COMPLEX-NO EXAM  |
| ICD-9-CM      | 010.02 | PRIM TB COMPLEX-EXM UNKN |
| ICD-9-CM      | 010.03 | PRIM TB COMPLEX-MICRO DX |
| ICD-9-CM      | 010.04 | PRIM TB COMPLEX-CULT DX  |
| ICD-9-CM      | 010.05 | PRIM TB COMPLEX-HISTO DX |
| ICD-9-CM      | 010.06 | PRIM TB COMPLEX-OTH TEST |
| ICD-9-CM      | 010.10 | PRIM TB PLEURISY-UNSPEC  |
| ICD-9-CM      | 010.11 | PRIM TB PLEURISY-NO EXAM |
| ICD-9-CM      | 010.12 | PRIM TB PLEUR-EXAM UNKN  |
| ICD-9-CM      | 010.13 | PRIM TB PLEURIS-MICRO DX |
| ICD-9-CM      | 010.14 | PRIM TB PLEURISY-CULT DX |
| ICD-9-CM      | 010.15 | PRIM TB PLEURIS-HISTO DX |
| ICD-9-CM      | 010.16 | PRIM TB PLEURIS-OTH TEST |
| ICD-9-CM      | 010.80 | PRIM PROG TB NEC-UNSPEC  |
| ICD-9-CM      | 010.81 | PRIM PROG TB NEC-NO EXAM |
| ICD-9-CM      | 010.82 | PRIM PR TB NEC-EXAM UNKN |
| ICD-9-CM      | 010.83 | PRIM PRG TB NEC-MICRO DX |
| ICD-9-CM      | 010.84 | PRIM PROG TB NEC-CULT DX |
| ICD-9-CM      | 010.85 | PRIM PRG TB NEC-HISTO DX |
| ICD-9-CM      | 010.86 | PRIM PRG TB NEC-OTH TEST |
| ICD-9-CM      | 010.90 | PRIMARY TB NOS-UNSPEC    |
| ICD-9-CM      | 010.91 | PRIMARY TB NOS-NO EXAM   |
| ICD-9-CM      | 010.92 | PRIMARY TB NOS-EXAM UNKN |
| ICD-9-CM      | 010.93 | PRIMARY TB NOS-MICRO DX  |
| ICD-9-CM      | 010.94 | PRIMARY TB NOS-CULT DX   |
| ICD-9-CM      | 010.95 | PRIMARY TB NOS-HISTO DX  |
| ICD-9-CM      | 010.96 | PRIMARY TB NOS-OTH TEST  |
| ICD-9-CM      | 011.00 | TB LUNG INFILTR-UNSPEC   |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 011.01 | TB LUNG INFILTR-NO EXAM  |
| ICD-9-CM      | 011.02 | TB LUNG INFILTR-EXM UNKN |
| ICD-9-CM      | 011.03 | TB LUNG INFILTR-MICRO DX |
| ICD-9-CM      | 011.04 | TB LUNG INFILTR-CULT DX  |
| ICD-9-CM      | 011.05 | TB LUNG INFILTR-HISTO DX |
| ICD-9-CM      | 011.06 | TB LUNG INFILTR-OTH TEST |
| ICD-9-CM      | 011.10 | TB LUNG NODULAR-UNSPEC   |
| ICD-9-CM      | 011.11 | TB LUNG NODULAR-NO EXAM  |
| ICD-9-CM      | 011.12 | TB LUNG NODUL-EXAM UNKN  |
| ICD-9-CM      | 011.13 | TB LUNG NODULAR-MICRO DX |
| ICD-9-CM      | 011.14 | TB LUNG NODULAR-CULT DX  |
| ICD-9-CM      | 011.15 | TB LUNG NODULAR-HISTO DX |
| ICD-9-CM      | 011.16 | TB LUNG NODULAR-OTH TEST |
| ICD-9-CM      | 011.20 | TB LUNG W CAVITY-UNSPEC  |
| ICD-9-CM      | 011.21 | TB LUNG W CAVITY-NO EXAM |
| ICD-9-CM      | 011.22 | TB LUNG CAVITY-EXAM UNKN |
| ICD-9-CM      | 011.23 | TB LUNG W CAVIT-MICRO DX |
| ICD-9-CM      | 011.24 | TB LUNG W CAVITY-CULT DX |
| ICD-9-CM      | 011.25 | TB LUNG W CAVIT-HISTO DX |
| ICD-9-CM      | 011.26 | TB LUNG W CAVIT-OTH TEST |
| ICD-9-CM      | 011.30 | TB OF BRONCHUS-UNSPEC    |
| ICD-9-CM      | 011.31 | TB OF BRONCHUS-NO EXAM   |
| ICD-9-CM      | 011.32 | TB OF BRONCHUS-EXAM UNKN |
| ICD-9-CM      | 011.33 | TB OF BRONCHUS-MICRO DX  |
| ICD-9-CM      | 011.34 | TB OF BRONCHUS-CULT DX   |
| ICD-9-CM      | 011.35 | TB OF BRONCHUS-HISTO DX  |
| ICD-9-CM      | 011.36 | TB OF BRONCHUS-OTH TEST  |
| ICD-9-CM      | 011.40 | TB LUNG FIBROSIS-UNSPEC  |
| ICD-9-CM      | 011.41 | TB LUNG FIBROSIS-NO EXAM |
| ICD-9-CM      | 011.42 | TB LUNG FIBROS-EXAM UNKN |
| ICD-9-CM      | 011.43 | TB LUNG FIBROS-MICRO DX  |
| ICD-9-CM      | 011.44 | TB LUNG FIBROSIS-CULT DX |
| ICD-9-CM      | 011.45 | TB LUNG FIBROS-HISTO DX  |
| ICD-9-CM      | 011.46 | TB LUNG FIBROS-OTH TEST  |
| ICD-9-CM      | 011.50 | TB BRONCHIECTASIS-UNSPEC |
| ICD-9-CM      | 011.51 | TB BRONCHIECT-NO EXAM    |
| ICD-9-CM      | 011.52 | TB BRONCHIECT-EXAM UNKN  |
| ICD-9-CM      | 011.53 | TB BRONCHIECT-MICRO DX   |
| ICD-9-CM      | 011.54 | TB BRONCHIECT-CULT DX    |
| ICD-9-CM      | 011.55 | TB BRONCHIECT-HISTO DX   |



| <b>Coding System</b> | <b>Code</b> | <b>Description</b>        |
|----------------------|-------------|---------------------------|
| ICD-9-CM             | 011.56      | TB BRONCHIECT-OTH TEST    |
| ICD-9-CM             | 011.60      | TB PNEUMONIA-UNSPEC       |
| ICD-9-CM             | 011.61      | TB PNEUMONIA-NO EXAM      |
| ICD-9-CM             | 011.62      | TB PNEUMONIA-EXAM UNKN    |
| ICD-9-CM             | 011.63      | TB PNEUMONIA-MICRO DX     |
| ICD-9-CM             | 011.64      | TB PNEUMONIA-CULT DX      |
| ICD-9-CM             | 011.65      | TB PNEUMONIA-HISTO DX     |
| ICD-9-CM             | 011.66      | TB PNEUMONIA-OTH TEST     |
| ICD-9-CM             | 011.70      | TB PNEUMOTHORAX-UNSPEC    |
| ICD-9-CM             | 011.71      | TB PNEUMOTHORAX-NO EXAM   |
| ICD-9-CM             | 011.72      | TB PNEUMOTHORAX-EXAM UNKN |
| ICD-9-CM             | 011.73      | TB PNEUMOTHORAX-MICRO DX  |
| ICD-9-CM             | 011.74      | TB PNEUMOTHORAX-CULT DX   |
| ICD-9-CM             | 011.75      | TB PNEUMOTHORAX-HISTO DX  |
| ICD-9-CM             | 011.76      | TB PNEUMOTHORAX-OTH TEST  |
| ICD-9-CM             | 011.80      | PULMONARY TB NEC-UNSPEC   |
| ICD-9-CM             | 011.81      | PULMONARY TB NEC-NO EXAM  |
| ICD-9-CM             | 011.82      | PULMON TB NEC-EXAM UNKN   |
| ICD-9-CM             | 011.83      | PULMON TB NEC-MICRO DX    |
| ICD-9-CM             | 011.84      | PULMON TB NEC-CULT DX     |
| ICD-9-CM             | 011.85      | PULMON TB NEC-HISTO DX    |
| ICD-9-CM             | 011.86      | PULMON TB NEC-OTH TEST    |
| ICD-9-CM             | 011.90      | PULMONARY TB NOS-UNSPEC   |
| ICD-9-CM             | 011.91      | PULMONARY TB NOS-NO EXAM  |
| ICD-9-CM             | 011.92      | PULMON TB NOS-EXAM UNKN   |
| ICD-9-CM             | 011.93      | PULMON TB NOS-MICRO DX    |
| ICD-9-CM             | 011.94      | PULMON TB NOS-CULT DX     |
| ICD-9-CM             | 011.95      | PULMON TB NOS-HISTO DX    |
| ICD-9-CM             | 011.96      | PULMON TB NOS-OTH TEST    |
| ICD-9-CM             | 012.00      | TB PLEURISY-UNSPEC        |
| ICD-9-CM             | 012.01      | TB PLEURISY-NO EXAM       |
| ICD-9-CM             | 012.02      | TB PLEURISY-EXAM UNKN     |
| ICD-9-CM             | 012.03      | TB PLEURISY-MICRO DX      |
| ICD-9-CM             | 012.04      | TB PLEURISY-CULT DX       |
| ICD-9-CM             | 012.05      | TB PLEURISY-HISTOLOG DX   |
| ICD-9-CM             | 012.06      | TB PLEURISY-OTH TEST      |
| ICD-9-CM             | 012.10      | TB THORACIC NODES-UNSPEC  |
| ICD-9-CM             | 012.11      | TB THORAX NODE-NO EXAM    |
| ICD-9-CM             | 012.12      | TB THORAX NODE-EXAM UNKN  |
| ICD-9-CM             | 012.13      | TB THORAX NODE-MICRO DX   |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 012.14      | TB THORAX NODE-CULT DX   |
| ICD-9-CM             | 012.15      | TB THORAX NODE-HISTO DX  |
| ICD-9-CM             | 012.16      | TB THORAX NODE-OTH TEST  |
| ICD-9-CM             | 012.20      | ISOL TRACHEAL TB-UNSPEC  |
| ICD-9-CM             | 012.21      | ISOL TRACHEAL TB-NO EXAM |
| ICD-9-CM             | 012.22      | ISOL TRACH TB-EXAM UNKN  |
| ICD-9-CM             | 012.23      | ISOLAT TRACH TB-MICRO DX |
| ICD-9-CM             | 012.24      | ISOL TRACHEAL TB-CULT DX |
| ICD-9-CM             | 012.25      | ISOLAT TRACH TB-HISTO DX |
| ICD-9-CM             | 012.26      | ISOLAT TRACH TB-OTH TEST |
| ICD-9-CM             | 012.30      | TB LARYNGITIS-UNSPEC     |
| ICD-9-CM             | 012.31      | TB LARYNGITIS-NO EXAM    |
| ICD-9-CM             | 012.32      | TB LARYNGITIS-EXAM UNKN  |
| ICD-9-CM             | 012.33      | TB LARYNGITIS-MICRO DX   |
| ICD-9-CM             | 012.34      | TB LARYNGITIS-CULT DX    |
| ICD-9-CM             | 012.35      | TB LARYNGITIS-HISTO DX   |
| ICD-9-CM             | 012.36      | TB LARYNGITIS-OTH TEST   |
| ICD-9-CM             | 012.80      | RESP TB NEC-UNSPEC       |
| ICD-9-CM             | 012.81      | RESP TB NEC-NO EXAM      |
| ICD-9-CM             | 012.82      | RESP TB NEC-EXAM UNKN    |
| ICD-9-CM             | 012.83      | RESP TB NEC-MICRO DX     |
| ICD-9-CM             | 012.84      | RESP TB NEC-CULT DX      |
| ICD-9-CM             | 012.85      | RESP TB NEC-HISTO DX     |
| ICD-9-CM             | 012.86      | RESP TB NEC-OTH TEST     |
| ICD-9-CM             | 013.00      | TB MENINGITIS-UNSPEC     |
| ICD-9-CM             | 013.01      | TB MENINGITIS-NO EXAM    |
| ICD-9-CM             | 013.02      | TB MENINGITIS-EXAM UNKN  |
| ICD-9-CM             | 013.03      | TB MENINGITIS-MICRO DX   |
| ICD-9-CM             | 013.04      | TB MENINGITIS-CULT DX    |
| ICD-9-CM             | 013.05      | TB MENINGITIS-HISTO DX   |
| ICD-9-CM             | 013.06      | TB MENINGITIS-OTH TEST   |
| ICD-9-CM             | 013.10      | TUBRCLMA MENINGES-UNSPEC |
| ICD-9-CM             | 013.11      | TUBRCLMA MENING-NO EXAM  |
| ICD-9-CM             | 013.12      | TUBRCLMA MENIN-EXAM UNKN |
| ICD-9-CM             | 013.13      | TUBRCLMA MENING-MICRO DX |
| ICD-9-CM             | 013.14      | TUBRCLMA MENING-CULT DX  |
| ICD-9-CM             | 013.15      | TUBRCLMA MENING-HISTO DX |
| ICD-9-CM             | 013.16      | TUBRCLMA MENING-OTH TEST |
| ICD-9-CM             | 013.20      | TUBERCULOMA BRAIN-UNSPEC |
| ICD-9-CM             | 013.21      | TUBRCLOMA BRAIN-NO EXAM  |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 013.22 | TUBRCLMA BRAIN-EXAM UNKN |
| ICD-9-CM      | 013.23 | TUBRCLOMA BRAIN-MICRO DX |
| ICD-9-CM      | 013.24 | TUBRCLOMA BRAIN-CULT DX  |
| ICD-9-CM      | 013.25 | TUBRCLOMA BRAIN-HISTO DX |
| ICD-9-CM      | 013.26 | TUBRCLOMA BRAIN-OTH TEST |
| ICD-9-CM      | 013.30 | TB BRAIN ABSCESS-UNSPEC  |
| ICD-9-CM      | 013.31 | TB BRAIN ABSCESS-NO EXAM |
| ICD-9-CM      | 013.32 | TB BRAIN ABSC-EXAM UNKN  |
| ICD-9-CM      | 013.33 | TB BRAIN ABSC-MICRO DX   |
| ICD-9-CM      | 013.34 | TB BRAIN ABSCESS-CULT DX |
| ICD-9-CM      | 013.35 | TB BRAIN ABSC-HISTO DX   |
| ICD-9-CM      | 013.36 | TB BRAIN ABSC-OTH TEST   |
| ICD-9-CM      | 013.40 | TUBRCLMA SP CORD-UNSPEC  |
| ICD-9-CM      | 013.41 | TUBRCLMA SP CORD-NO EXAM |
| ICD-9-CM      | 013.42 | TUBRCLMA SP CD-EXAM UNKN |
| ICD-9-CM      | 013.43 | TUBRCLMA SP CRD-MICRO DX |
| ICD-9-CM      | 013.44 | TUBRCLMA SP CORD-CULT DX |
| ICD-9-CM      | 013.45 | TUBRCLMA SP CRD-HISTO DX |
| ICD-9-CM      | 013.46 | TUBRCLMA SP CRD-OTH TEST |
| ICD-9-CM      | 013.50 | TB SP CRD ABSCESS-UNSPEC |
| ICD-9-CM      | 013.51 | TB SP CRD ABSC-NO EXAM   |
| ICD-9-CM      | 013.52 | TB SP CRD ABSC-EXAM UNKN |
| ICD-9-CM      | 013.53 | TB SP CRD ABSC-MICRO DX  |
| ICD-9-CM      | 013.54 | TB SP CRD ABSC-CULT DX   |
| ICD-9-CM      | 013.55 | TB SP CRD ABSC-HISTO DX  |
| ICD-9-CM      | 013.56 | TB SP CRD ABSC-OTH TEST  |
| ICD-9-CM      | 013.60 | TB ENCEPHALITIS-UNSPEC   |
| ICD-9-CM      | 013.61 | TB ENCEPHALITIS-NO EXAM  |
| ICD-9-CM      | 013.62 | TB ENCEPHALIT-EXAM UNKN  |
| ICD-9-CM      | 013.63 | TB ENCEPHALITIS-MICRO DX |
| ICD-9-CM      | 013.64 | TB ENCEPHALITIS-CULT DX  |
| ICD-9-CM      | 013.65 | TB ENCEPHALITIS-HISTO DX |
| ICD-9-CM      | 013.66 | TB ENCEPHALITIS-OTH TEST |
| ICD-9-CM      | 013.80 | CNS TB NEC-UNSPEC        |
| ICD-9-CM      | 013.81 | CNS TB NEC-NO EXAM       |
| ICD-9-CM      | 013.82 | CNS TB NEC-EXAM UNKN     |
| ICD-9-CM      | 013.83 | CNS TB NEC-MICRO DX      |
| ICD-9-CM      | 013.84 | CNS TB NEC-CULT DX       |
| ICD-9-CM      | 013.85 | CNS TB NEC-HISTO DX      |
| ICD-9-CM      | 013.86 | CNS TB NEC-OTH TEST      |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 013.90      | CNS TB NOS-UNSPEC        |
| ICD-9-CM             | 013.91      | CNS TB NOS-NO EXAM       |
| ICD-9-CM             | 013.92      | CNS TB NOS-EXAM UNKN     |
| ICD-9-CM             | 013.93      | CNS TB NOS-MICRO DX      |
| ICD-9-CM             | 013.94      | CNS TB NOS-CULT DX       |
| ICD-9-CM             | 013.95      | CNS TB NOS-HISTO DX      |
| ICD-9-CM             | 013.96      | CNS TB NOS-OTH TEST      |
| ICD-9-CM             | 014.00      | TB PERITONITIS-UNSPEC    |
| ICD-9-CM             | 014.01      | TB PERITONITIS-NO EXAM   |
| ICD-9-CM             | 014.02      | TB PERITONITIS-EXAM UNKN |
| ICD-9-CM             | 014.03      | TB PERITONITIS-MICRO DX  |
| ICD-9-CM             | 014.04      | TB PERITONITIS-CULT DX   |
| ICD-9-CM             | 014.05      | TB PERITONITIS-HISTO DX  |
| ICD-9-CM             | 014.06      | TB PERITONITIS-OTH TEST  |
| ICD-9-CM             | 014.80      | INTESTINAL TB NEC-UNSPEC |
| ICD-9-CM             | 014.81      | INTESTIN TB NEC-NO EXAM  |
| ICD-9-CM             | 014.82      | INTEST TB NEC-EXAM UNKN  |
| ICD-9-CM             | 014.83      | INTESTIN TB NEC-MICRO DX |
| ICD-9-CM             | 014.84      | INTESTIN TB NEC-CULT DX  |
| ICD-9-CM             | 014.85      | INTESTIN TB NEC-HISTO DX |
| ICD-9-CM             | 014.86      | INTESTIN TB NEC-OTH TEST |
| ICD-9-CM             | 015.00      | TB OF VERTEBRA-UNSPEC    |
| ICD-9-CM             | 015.01      | TB OF VERTEBRA-NO EXAM   |
| ICD-9-CM             | 015.02      | TB OF VERTEBRA-EXAM UNKN |
| ICD-9-CM             | 015.03      | TB OF VERTEBRA-MICRO DX  |
| ICD-9-CM             | 015.04      | TB OF VERTEBRA-CULT DX   |
| ICD-9-CM             | 015.05      | TB OF VERTEBRA-HISTO DX  |
| ICD-9-CM             | 015.06      | TB OF VERTEBRA-OTH TEST  |
| ICD-9-CM             | 015.10      | TB OF HIP-UNSPEC         |
| ICD-9-CM             | 015.11      | TB OF HIP-NO EXAM        |
| ICD-9-CM             | 015.12      | TB OF HIP-EXAM UNKN      |
| ICD-9-CM             | 015.13      | TB OF HIP-MICRO DX       |
| ICD-9-CM             | 015.14      | TB OF HIP-CULT DX        |
| ICD-9-CM             | 015.15      | TB OF HIP-HISTO DX       |
| ICD-9-CM             | 015.16      | TB OF HIP-OTH TEST       |
| ICD-9-CM             | 015.20      | TB OF KNEE-UNSPEC        |
| ICD-9-CM             | 015.21      | TB OF KNEE-NO EXAM       |
| ICD-9-CM             | 015.22      | TB OF KNEE-EXAM UNKN     |
| ICD-9-CM             | 015.23      | TB OF KNEE-MICRO DX      |
| ICD-9-CM             | 015.24      | TB OF KNEE-CULT DX       |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 015.25 | TB OF KNEE-HISTO DX      |
| ICD-9-CM      | 015.26 | TB OF KNEE-OTH TEST      |
| ICD-9-CM      | 015.50 | TB OF LIMB BONES-UNSPEC  |
| ICD-9-CM      | 015.51 | TB LIMB BONES-NO EXAM    |
| ICD-9-CM      | 015.52 | TB LIMB BONES-EXAM UNKN  |
| ICD-9-CM      | 015.53 | TB LIMB BONES-MICRO DX   |
| ICD-9-CM      | 015.54 | TB LIMB BONES-CULT DX    |
| ICD-9-CM      | 015.55 | TB LIMB BONES-HISTO DX   |
| ICD-9-CM      | 015.56 | TB LIMB BONES-OTH TEST   |
| ICD-9-CM      | 015.60 | TB OF MASTOID-UNSPEC     |
| ICD-9-CM      | 015.61 | TB OF MASTOID-NO EXAM    |
| ICD-9-CM      | 015.62 | TB OF MASTOID-EXAM UNKN  |
| ICD-9-CM      | 015.63 | TB OF MASTOID-MICRO DX   |
| ICD-9-CM      | 015.64 | TB OF MASTOID-CULT DX    |
| ICD-9-CM      | 015.65 | TB OF MASTOID-HISTO DX   |
| ICD-9-CM      | 015.66 | TB OF MASTOID-OTH TEST   |
| ICD-9-CM      | 015.70 | TB OF BONE NEC-UNSPEC    |
| ICD-9-CM      | 015.71 | TB OF BONE NEC-NO EXAM   |
| ICD-9-CM      | 015.72 | TB OF BONE NEC-EXAM UNKN |
| ICD-9-CM      | 015.73 | TB OF BONE NEC-MICRO DX  |
| ICD-9-CM      | 015.74 | TB OF BONE NEC-CULT DX   |
| ICD-9-CM      | 015.75 | TB OF BONE NEC-HISTO DX  |
| ICD-9-CM      | 015.76 | TB OF BONE NEC-OTH TEST  |
| ICD-9-CM      | 015.80 | TB OF JOINT NEC-UNSPEC   |
| ICD-9-CM      | 015.81 | TB OF JOINT NEC-NO EXAM  |
| ICD-9-CM      | 015.82 | TB JOINT NEC-EXAM UNKN   |
| ICD-9-CM      | 015.83 | TB OF JOINT NEC-MICRO DX |
| ICD-9-CM      | 015.84 | TB OF JOINT NEC-CULT DX  |
| ICD-9-CM      | 015.85 | TB OF JOINT NEC-HISTO DX |
| ICD-9-CM      | 015.86 | TB OF JOINT NEC-OTH TEST |
| ICD-9-CM      | 015.90 | TB BONE/JOINT NOS-UNSPEC |
| ICD-9-CM      | 015.91 | TB BONE/JT NOS-NO EXAM   |
| ICD-9-CM      | 015.92 | TB BONE/JT NOS-EXAM UNKN |
| ICD-9-CM      | 015.93 | TB BONE/JT NOS-MICRO DX  |
| ICD-9-CM      | 015.94 | TB BONE/JT NOS-CULT DX   |
| ICD-9-CM      | 015.95 | TB BONE/JT NOS-HISTO DX  |
| ICD-9-CM      | 015.96 | TB BONE/JT NOS-OTH TEST  |
| ICD-9-CM      | 016.00 | TB OF KIDNEY-UNSPEC      |
| ICD-9-CM      | 016.01 | TB OF KIDNEY-NO EXAM     |
| ICD-9-CM      | 016.02 | TB OF KIDNEY-EXAM UNKN   |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 016.03      | TB OF KIDNEY-MICRO DX    |
| ICD-9-CM             | 016.04      | TB OF KIDNEY-CULT DX     |
| ICD-9-CM             | 016.05      | TB OF KIDNEY-HISTO DX    |
| ICD-9-CM             | 016.06      | TB OF KIDNEY-OTH TEST    |
| ICD-9-CM             | 016.10      | TB OF BLADDER-UNSPEC     |
| ICD-9-CM             | 016.11      | TB OF BLADDER-NO EXAM    |
| ICD-9-CM             | 016.12      | TB OF BLADDER-EXAM UNKN  |
| ICD-9-CM             | 016.13      | TB OF BLADDER-MICRO DX   |
| ICD-9-CM             | 016.14      | TB OF BLADDER-CULT DX    |
| ICD-9-CM             | 016.15      | TB OF BLADDER-HISTO DX   |
| ICD-9-CM             | 016.16      | TB OF BLADDER-OTH TEST   |
| ICD-9-CM             | 016.20      | TB OF URETER-UNSPEC      |
| ICD-9-CM             | 016.21      | TB OF URETER-NO EXAM     |
| ICD-9-CM             | 016.22      | TB OF URETER-EXAM UNKN   |
| ICD-9-CM             | 016.23      | TB OF URETER-MICRO DX    |
| ICD-9-CM             | 016.24      | TB OF URETER-CULT DX     |
| ICD-9-CM             | 016.25      | TB OF URETER-HISTO DX    |
| ICD-9-CM             | 016.26      | TB OF URETER-OTH TEST    |
| ICD-9-CM             | 016.30      | TB URINARY NEC-UNSPEC    |
| ICD-9-CM             | 016.31      | TB URINARY NEC-NO EXAM   |
| ICD-9-CM             | 016.32      | TB URINARY NEC-EXAM UNKN |
| ICD-9-CM             | 016.33      | TB URINARY NEC-MICRO DX  |
| ICD-9-CM             | 016.34      | TB URINARY NEC-CULT DX   |
| ICD-9-CM             | 016.35      | TB URINARY NEC-HISTO DX  |
| ICD-9-CM             | 016.36      | TB URINARY NEC-OTH TEST  |
| ICD-9-CM             | 016.40      | TB EPIDIDYMIS-UNSPEC     |
| ICD-9-CM             | 016.41      | TB EPIDIDYMIS-NO EXAM    |
| ICD-9-CM             | 016.42      | TB EPIDIDYMIS-EXAM UNKN  |
| ICD-9-CM             | 016.43      | TB EPIDIDYMIS-MICRO DX   |
| ICD-9-CM             | 016.44      | TB EPIDIDYMIS-CULT DX    |
| ICD-9-CM             | 016.45      | TB EPIDIDYMIS-HISTO DX   |
| ICD-9-CM             | 016.46      | TB EPIDIDYMIS-OTH TEST   |
| ICD-9-CM             | 016.50      | TB MALE GENIT NEC-UNSPEC |
| ICD-9-CM             | 016.51      | TB MALE GEN NEC-NO EXAM  |
| ICD-9-CM             | 016.52      | TB MALE GEN NEC-EX UNKN  |
| ICD-9-CM             | 016.53      | TB MALE GEN NEC-MICRO DX |
| ICD-9-CM             | 016.54      | TB MALE GEN NEC-CULT DX  |
| ICD-9-CM             | 016.55      | TB MALE GEN NEC-HISTO DX |
| ICD-9-CM             | 016.56      | TB MALE GEN NEC-OTH TEST |
| ICD-9-CM             | 016.60      | TB OVARY & TUBE-UNSPEC   |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 016.61      | TB OVARY & TUBE-NO EXAM  |
| ICD-9-CM             | 016.62      | TB OVARY/TUBE-EXAM UNKN  |
| ICD-9-CM             | 016.63      | TB OVARY & TUBE-MICRO DX |
| ICD-9-CM             | 016.64      | TB OVARY & TUBE-CULT DX  |
| ICD-9-CM             | 016.65      | TB OVARY & TUBE-HISTO DX |
| ICD-9-CM             | 016.66      | TB OVARY & TUBE-OTH TEST |
| ICD-9-CM             | 016.70      | TB FEMALE GEN NEC-UNSPEC |
| ICD-9-CM             | 016.71      | TB FEM GEN NEC-NO EXAM   |
| ICD-9-CM             | 016.72      | TB FEM GEN NEC-EXAM UNKN |
| ICD-9-CM             | 016.73      | TB FEM GEN NEC-MICRO DX  |
| ICD-9-CM             | 016.74      | TB FEM GEN NEC-CULT DX   |
| ICD-9-CM             | 016.75      | TB FEM GEN NEC-HISTO DX  |
| ICD-9-CM             | 016.76      | TB FEM GEN NEC-OTH TEST  |
| ICD-9-CM             | 016.90      | GU TB NOS-UNSPEC         |
| ICD-9-CM             | 016.91      | GU TB NOS-NO EXAM        |
| ICD-9-CM             | 016.92      | GU TB NOS-EXAM UNKN      |
| ICD-9-CM             | 016.93      | GU TB NOS-MICRO DX       |
| ICD-9-CM             | 016.94      | GU TB NOS-CULT DX        |
| ICD-9-CM             | 016.95      | GU TB NOS-HISTO DX       |
| ICD-9-CM             | 016.96      | GU TB NOS-OTH TEST       |
| ICD-9-CM             | 017.00      | TB SKIN/SUBCUTAN-UNSPEC  |
| ICD-9-CM             | 017.01      | TB SKIN/SUBCUT-NO EXAM   |
| ICD-9-CM             | 017.02      | TB SKIN/SUBCUT-EXAM UNKN |
| ICD-9-CM             | 017.03      | TB SKIN/SUBCUT-MICRO DX  |
| ICD-9-CM             | 017.04      | TB SKIN/SUBCUT-CULT DX   |
| ICD-9-CM             | 017.05      | TB SKIN/SUBCUT-HISTO DX  |
| ICD-9-CM             | 017.06      | TB SKIN/SUBCUT-OTH TEST  |
| ICD-9-CM             | 017.10      | ERYTHEMA NODOS TB-UNSPEC |
| ICD-9-CM             | 017.11      | ERYTHEM NODOS TB-NO EXAM |
| ICD-9-CM             | 017.12      | ERYTHEM NOD TB-EXAM UNKN |
| ICD-9-CM             | 017.13      | ERYTHEM NOD TB-MICRO DX  |
| ICD-9-CM             | 017.14      | ERYTHEM NODOS TB-CULT DX |
| ICD-9-CM             | 017.15      | ERYTHEM NOD TB-HISTO DX  |
| ICD-9-CM             | 017.16      | ERYTHEM NOD TB-OTH TEST  |
| ICD-9-CM             | 017.20      | TB PERIPH LYMPH-UNSPEC   |
| ICD-9-CM             | 017.21      | TB PERIPH LYMPH-NO EXAM  |
| ICD-9-CM             | 017.22      | TB PERIPH LYMPH-EXAM UNK |
| ICD-9-CM             | 017.23      | TB PERIPH LYMPH-MICRO DX |
| ICD-9-CM             | 017.24      | TB PERIPH LYMPH-CULT DX  |
| ICD-9-CM             | 017.25      | TB PERIPH LYMPH-HISTO DX |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 017.26      | TB PERIPH LYMPH-OTH TEST |
| ICD-9-CM             | 017.30      | TB OF EYE-UNSPEC         |
| ICD-9-CM             | 017.31      | TB OF EYE-NO EXAM        |
| ICD-9-CM             | 017.32      | TB OF EYE-EXAM UNKN      |
| ICD-9-CM             | 017.33      | TB OF EYE-MICRO DX       |
| ICD-9-CM             | 017.34      | TB OF EYE-CULT DX        |
| ICD-9-CM             | 017.35      | TB OF EYE-HISTO DX       |
| ICD-9-CM             | 017.36      | TB OF EYE-OTH TEST       |
| ICD-9-CM             | 017.40      | TB OF EAR-UNSPEC         |
| ICD-9-CM             | 017.41      | TB OF EAR-NO EXAM        |
| ICD-9-CM             | 017.42      | TB OF EAR-EXAM UNKN      |
| ICD-9-CM             | 017.43      | TB OF EAR-MICRO DX       |
| ICD-9-CM             | 017.44      | TB OF EAR-CULT DX        |
| ICD-9-CM             | 017.45      | TB OF EAR-HISTO DX       |
| ICD-9-CM             | 017.46      | TB OF EAR-OTH TEST       |
| ICD-9-CM             | 017.50      | TB OF THYROID-UNSPEC     |
| ICD-9-CM             | 017.51      | TB OF THYROID-NO EXAM    |
| ICD-9-CM             | 017.52      | TB OF THYROID-EXAM UNKN  |
| ICD-9-CM             | 017.53      | TB OF THYROID-MICRO DX   |
| ICD-9-CM             | 017.54      | TB OF THYROID-CULT DX    |
| ICD-9-CM             | 017.55      | TB OF THYROID-HISTO DX   |
| ICD-9-CM             | 017.56      | TB OF THYROID-OTH TEST   |
| ICD-9-CM             | 017.60      | TB OF ADRENAL-UNSPEC     |
| ICD-9-CM             | 017.61      | TB OF ADRENAL-NO EXAM    |
| ICD-9-CM             | 017.62      | TB OF ADRENAL-EXAM UNKN  |
| ICD-9-CM             | 017.63      | TB OF ADRENAL-MICRO DX   |
| ICD-9-CM             | 017.64      | TB OF ADRENAL-CULT DX    |
| ICD-9-CM             | 017.65      | TB OF ADRENAL-HISTO DX   |
| ICD-9-CM             | 017.66      | TB OF ADRENAL-OTH TEST   |
| ICD-9-CM             | 017.70      | TB OF SPLEEN-UNSPEC      |
| ICD-9-CM             | 017.71      | TB OF SPLEEN-NO EXAM     |
| ICD-9-CM             | 017.72      | TB OF SPLEEN-EXAM UNKN   |
| ICD-9-CM             | 017.73      | TB OF SPLEEN-MICRO DX    |
| ICD-9-CM             | 017.74      | TB OF SPLEEN-CULT DX     |
| ICD-9-CM             | 017.75      | TB OF SPLEEN-HISTO DX    |
| ICD-9-CM             | 017.76      | TB OF SPLEEN-OTH TEST    |
| ICD-9-CM             | 017.80      | TB ESOPHAGUS-UNSPEC      |
| ICD-9-CM             | 017.81      | TB ESOPHAGUS-NO EXAM     |
| ICD-9-CM             | 017.82      | TB ESOPHAGUS-EXAM UNKN   |
| ICD-9-CM             | 017.83      | TB ESOPHAGUS-MICRO DX    |



| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 017.84 | TB ESOPHAGUS-CULT DX     |
| ICD-9-CM      | 017.85 | TB ESOPHAGUS-HISTO DX    |
| ICD-9-CM      | 017.86 | TB ESOPHAGUS-OTH TEST    |
| ICD-9-CM      | 017.90 | TB OF ORGAN NEC-UNSPEC   |
| ICD-9-CM      | 017.91 | TB OF ORGAN NEC-NO EXAM  |
| ICD-9-CM      | 017.92 | TB ORGAN NEC-EXAM UNKN   |
| ICD-9-CM      | 017.93 | TB OF ORGAN NEC-MICRO DX |
| ICD-9-CM      | 017.94 | TB OF ORGAN NEC-CULT DX  |
| ICD-9-CM      | 017.95 | TB OF ORGAN NEC-HISTO DX |
| ICD-9-CM      | 017.96 | TB OF ORGAN NEC-OTH TEST |
| ICD-9-CM      | 018.00 | ACUTE MILIARY TB-UNSPEC  |
| ICD-9-CM      | 018.01 | ACUTE MILIARY TB-NO EXAM |
| ICD-9-CM      | 018.02 | AC MILIARY TB-EXAM UNKN  |
| ICD-9-CM      | 018.03 | AC MILIARY TB-MICRO DX   |
| ICD-9-CM      | 018.04 | ACUTE MILIARY TB-CULT DX |
| ICD-9-CM      | 018.05 | AC MILIARY TB-HISTO DX   |
| ICD-9-CM      | 018.06 | AC MILIARY TB-OTH TEST   |
| ICD-9-CM      | 018.80 | MILIARY TB NEC-UNSPEC    |
| ICD-9-CM      | 018.81 | MILIARY TB NEC-NO EXAM   |
| ICD-9-CM      | 018.82 | MILIARY TB NEC-EXAM UNKN |
| ICD-9-CM      | 018.83 | MILIARY TB NEC-MICRO DX  |
| ICD-9-CM      | 018.84 | MILIARY TB NEC-CULT DX   |
| ICD-9-CM      | 018.85 | MILIARY TB NEC-HISTO DX  |
| ICD-9-CM      | 018.86 | MILIARY TB NEC-OTH TEST  |
| ICD-9-CM      | 018.90 | MILIARY TB NOS-UNSPEC    |
| ICD-9-CM      | 018.91 | MILIARY TB NOS-NO EXAM   |
| ICD-9-CM      | 018.92 | MILIARY TB NOS-EXAM UNKN |
| ICD-9-CM      | 018.93 | MILIARY TB NOS-MICRO DX  |
| ICD-9-CM      | 018.94 | MILIARY TB NOS-CULT DX   |
| ICD-9-CM      | 018.95 | MILIARY TB NOS-HISTO DX  |
| ICD-9-CM      | 018.96 | MILIARY TB NOS-OTH TEST  |
| ICD-9-CM      | 031.0  | PULMONARY MYCOBACTERIA   |
| ICD-9-CM      | 031.1  | CUTANEOUS MYCOBACTERIA   |
| ICD-9-CM      | 031.9  | MYCOBACTERIAL DIS NOS    |
| ICD-9-CM      | 041.5  | H. INFLUENZAE INFECT NOS |
| ICD-9-CM      | 041.7  | PSEUDOMONAS INFECT NOS   |
| ICD-9-CM      | 046.3  | PROG MULTIFOC LEUKOENCEP |
| ICD-9-CM      | 053.0  | HERPES ZOSTER MENINGITIS |
| ICD-9-CM      | 053.10 | H ZOSTER NERV SYST NOS   |
| ICD-9-CM      | 053.11 | GENICULATE HERPES ZOSTER |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 053.12 | POSTHERPES TRIGEM NEURAL |
| ICD-9-CM      | 053.13 | POSTHERPES POLYNEUROPATH |
| ICD-9-CM      | 053.19 | H ZOSTER NERV SYST NEC   |
| ICD-9-CM      | 053.20 | HERPES ZOSTER OF EYELID  |
| ICD-9-CM      | 053.21 | H ZOSTER KERATOCONJUNCT  |
| ICD-9-CM      | 053.22 | H ZOSTER IRIDOCYCLITIS   |
| ICD-9-CM      | 053.29 | HERPES ZOSTER OF EYE NEC |
| ICD-9-CM      | 053.71 | H ZOSTER OTITIS EXTERNA  |
| ICD-9-CM      | 053.79 | H ZOSTER COMPLICATED NEC |
| ICD-9-CM      | 053.8  | H ZOSTER COMPLICATED NOS |
| ICD-9-CM      | 053.9  | HERPES ZOSTER NOS        |
| ICD-9-CM      | 054.0  | ECZEMA HERPETICUM        |
| ICD-9-CM      | 054.10 | GENITAL HERPES NOS       |
| ICD-9-CM      | 054.11 | HERPETIC VULVOVAGINITIS  |
| ICD-9-CM      | 054.12 | HERPETIC ULCER OF VULVA  |
| ICD-9-CM      | 054.13 | HERPETIC INFECT OF PENIS |
| ICD-9-CM      | 054.19 | GENITAL HERPES NEC       |
| ICD-9-CM      | 054.2  | HERPETIC GINGIVOSTOMAT   |
| ICD-9-CM      | 054.3  | HERPETIC ENCEPHALITIS    |
| ICD-9-CM      | 054.40 | HERPES SIMPLEX EYE NOS   |
| ICD-9-CM      | 054.41 | HERPES SIMPLEX OF EYELID |
| ICD-9-CM      | 054.42 | DENDRITIC KERATITIS      |
| ICD-9-CM      | 054.43 | H SIMPLEX KERATITIS      |
| ICD-9-CM      | 054.44 | H SIMPLEX IRIDOCYCLITIS  |
| ICD-9-CM      | 054.49 | HERPES SIMPLEX EYE NEC   |
| ICD-9-CM      | 054.5  | HERPETIC SEPTICEMIA      |
| ICD-9-CM      | 054.6  | HERPETIC WHITLOW         |
| ICD-9-CM      | 054.71 | VISCERAL HERPES SIMPLEX  |
| ICD-9-CM      | 054.72 | H SIMPLEX MENINGITIS     |
| ICD-9-CM      | 054.73 | H SIMPLEX OTITIS EXTERNA |
| ICD-9-CM      | 054.79 | H SIMPLEX COMPLICAT NEC  |
| ICD-9-CM      | 054.8  | H SIMPLEX COMPLICAT NOS  |
| ICD-9-CM      | 054.9  | HERPES SIMPLEX NOS       |
| ICD-9-CM      | 078.5  | CYTOMEGALOVIRAL DISEASE  |
| ICD-9-CM      | 088.0  | BARTONELLOSIS            |
| ICD-9-CM      | 090.0  | EARLY CONG SYPH SYMPTOM  |
| ICD-9-CM      | 090.1  | EARLY CONGEN SYPH LATENT |
| ICD-9-CM      | 090.2  | EARLY CONGEN SYPH NOS    |
| ICD-9-CM      | 090.3  | SYPHILITIC KERATITIS     |
| ICD-9-CM      | 090.40 | JUVENILE NEUROSYPH NOS   |

| Coding System | Code   | Description               |
|---------------|--------|---------------------------|
| ICD-9-CM      | 090.41 | CONGEN SYPH ENCEPHALITIS  |
| ICD-9-CM      | 090.42 | CONGEN SYPH MENINGITIS    |
| ICD-9-CM      | 090.49 | JUVENILE NEUROSYPH NEC    |
| ICD-9-CM      | 090.5  | LATE CONGEN SYPH SYMPTOM  |
| ICD-9-CM      | 090.6  | LATE CONGEN SYPH LATENT   |
| ICD-9-CM      | 090.7  | LATE CONGEN SYPH NOS      |
| ICD-9-CM      | 090.9  | CONGENITAL SYPHILIS NOS   |
| ICD-9-CM      | 091.0  | PRIMARY GENITAL SYPHILIS  |
| ICD-9-CM      | 091.1  | PRIMARY ANAL SYPHILIS     |
| ICD-9-CM      | 091.2  | PRIMARY SYPHILIS NEC      |
| ICD-9-CM      | 091.3  | SECONDARY SYPH SKIN       |
| ICD-9-CM      | 091.4  | SYPHILITIC ADENOPATHY     |
| ICD-9-CM      | 091.50 | SYPHILITIC UVEITIS NOS    |
| ICD-9-CM      | 091.51 | SYPHILIT CHORIORETINITIS  |
| ICD-9-CM      | 091.52 | SYPHILITIC IRIDOCYCLITIS  |
| ICD-9-CM      | 091.61 | SYPHILITIC PERIOSTITIS    |
| ICD-9-CM      | 091.62 | SYPHILITIC HEPATITIS      |
| ICD-9-CM      | 091.69 | SECOND SYPH VISCERA NEC   |
| ICD-9-CM      | 091.7  | SECOND SYPHILIS RELAPSE   |
| ICD-9-CM      | 091.81 | ACUTE SYPHIL MENINGITIS   |
| ICD-9-CM      | 091.82 | SYPHILITIC ALOPECIA       |
| ICD-9-CM      | 091.89 | SECONDARY SYPHILIS NEC    |
| ICD-9-CM      | 091.9  | SECONDARY SYPHILIS NOS    |
| ICD-9-CM      | 092.0  | EARLY SYPH LATENT RELAPSE |
| ICD-9-CM      | 092.9  | EARLY SYPHIL LATENT NOS   |
| ICD-9-CM      | 093.0  | AORTIC ANEURYSM, SYPHIL   |
| ICD-9-CM      | 093.1  | SYPHILITIC AORTITIS       |
| ICD-9-CM      | 093.20 | SYPHIL ENDOCARDITIS NOS   |
| ICD-9-CM      | 093.21 | SYPHILITIC MITRAL VALVE   |
| ICD-9-CM      | 093.22 | SYPHILITIC AORTIC VALVE   |
| ICD-9-CM      | 093.23 | SYPHIL TRICUSPID VALVE    |
| ICD-9-CM      | 093.24 | SYPHIL PULMONARY VALVE    |
| ICD-9-CM      | 093.81 | SYPHILITIC PERICARDITIS   |
| ICD-9-CM      | 093.82 | SYPHILITIC MYOCARDITIS    |
| ICD-9-CM      | 093.89 | CARDIOVASCULAR SYPH NEC   |
| ICD-9-CM      | 093.9  | CARDIOVASCULAR SYPH NOS   |
| ICD-9-CM      | 094.0  | TABES DORSALIS            |
| ICD-9-CM      | 094.1  | GENERAL PARESIS           |
| ICD-9-CM      | 094.2  | SYPHILITIC MENINGITIS     |
| ICD-9-CM      | 094.3  | ASYMPTOMAT NEUROSYPHILIS  |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 094.81 | SYPHILITIC ENCEPHALITIS  |
| ICD-9-CM      | 094.82 | SYPHILITIC PARKINSONISM  |
| ICD-9-CM      | 094.83 | SYPH DISSEM RETINITIS    |
| ICD-9-CM      | 094.84 | SYPHILITIC OPTIC ATROPHY |
| ICD-9-CM      | 094.85 | SYPH RETROBULB NEURITIS  |
| ICD-9-CM      | 094.86 | SYPHIL ACOUSTIC NEURITIS |
| ICD-9-CM      | 094.87 | SYPH RUPT CEREB ANEURYSM |
| ICD-9-CM      | 094.89 | NEUROSYPHILIS NEC        |
| ICD-9-CM      | 094.9  | NEUROSYPHILIS NOS        |
| ICD-9-CM      | 095.0  | SYPHILITIC EPISCLERITIS  |
| ICD-9-CM      | 095.1  | SYPHILIS OF LUNG         |
| ICD-9-CM      | 095.2  | SYPHILITIC PERITONITIS   |
| ICD-9-CM      | 095.3  | SYPHILIS OF LIVER        |
| ICD-9-CM      | 095.4  | SYPHILIS OF KIDNEY       |
| ICD-9-CM      | 095.5  | SYPHILIS OF BONE         |
| ICD-9-CM      | 095.6  | SYPHILIS OF MUSCLE       |
| ICD-9-CM      | 095.7  | SYPHILIS OF TENDON/BURSA |
| ICD-9-CM      | 095.8  | LATE SYMPT SYPHILIS NEC  |
| ICD-9-CM      | 095.9  | LATE SYMPT SYPHILIS NOS  |
| ICD-9-CM      | 097.0  | LATE SYPHILIS NOS        |
| ICD-9-CM      | 097.1  | LATENT SYPHILIS NOS      |
| ICD-9-CM      | 097.9  | SYPHILIS NOS             |
| ICD-9-CM      | 112.0  | THRUSH                   |
| ICD-9-CM      | 115.00 | HISTOPLASMA CAPSULAT NOS |
| ICD-9-CM      | 115.10 | HISTOPLASMA DUBOISII NOS |
| ICD-9-CM      | 115.90 | HISTOPLASMOSIS NOS       |
| ICD-9-CM      | 130.0  | TOXOPLASM MENINGOENCEPH  |
| ICD-9-CM      | 070.20 | HPT B ACTE COMA WO DLTA  |
| ICD-9-CM      | 070.21 | HPT B ACTE COMA W DLTA   |
| ICD-9-CM      | 070.30 | HPT B ACTE WO CM WO DLTA |
| ICD-9-CM      | 070.31 | HPT B ACTE WO CM W DLTA  |
| ICD-9-CM      | 070.41 | HPT C ACUTE W HEPAT COMA |
| ICD-9-CM      | 070.51 | HPT C ACUTE WO HPAT COMA |
| ICD-9-CM      | 008.43 | INT INFEC CAMPYLOBACTER  |
| ICD-9-CM      | 041.00 | STREPTOCOCCUS UNSPECF    |
| ICD-9-CM      | 041.01 | STREPTOCOCCUS GROUP A    |
| ICD-9-CM      | 041.02 | STREPTOCOCCUS GROUP B    |
| ICD-9-CM      | 041.03 | STREPTOCOCCUS GROUP C    |
| ICD-9-CM      | 041.04 | ENTEROCOCCUS GROUP D     |
| ICD-9-CM      | 041.05 | STREPTOCOCCUS GROUP G    |

| Coding System | Code   | Description                                  |
|---------------|--------|--|
| ICD-9-CM      | 041.09 | OTHER STREPTOCOCCUS                          |
| ICD-9-CM      | 041.10 | STAPHYLOCOCCUS UNSPCFIED                     |
| ICD-9-CM      | 041.11 | MTH SUS STPH AUR ELS/NOS                     |
| ICD-9-CM      | 041.19 | OTHER STAPHYLOCOCCUS                         |
| ICD-9-CM      | 079.4  | HUMAN PAPILOMAVIRUS                          |
| ICD-9-CM      | 070.22 | HPT B CHRN COMA WO DLTA                      |
| ICD-9-CM      | 070.23 | HPT B CHRN COMA W DLTA                       |
| ICD-9-CM      | 070.32 | HPT B CHRN WO CM WO DLTA                     |
| ICD-9-CM      | 070.33 | HPT B CHRN WO CM W DLTA                      |
| ICD-9-CM      | 070.44 | CHRN C HPT C W HEPAT COMA                    |
| ICD-9-CM      | 070.54 | CHRN C HPT C WO HPAT COMA                    |
| ICD-9-CM      | 007.4  | CRYPTOSPORIDIOSIS                            |
| ICD-9-CM      | 031.2  | DMAC BACTEREMIA                              |
| ICD-9-CM      | 070.70 | HPT C W/O HEPAT COMA NOS                     |
| ICD-9-CM      | 070.71 | HPT C W HEPATIC COMA NOS                     |
| ICD-9-CM      | 053.14 | HERPES ZOSTER MYELITIS                       |
| ICD-9-CM      | 054.74 | HERPES SIMPLEX MYELITIS                      |
| ICD-10-CM     | A02.0  | Salmonella enteritis                         |
| ICD-10-CM     | A02.8  | Other specified salmonella infections        |
| ICD-10-CM     | A02.9  | Salmonella infection, unspecified            |
| ICD-10-CM     | A03.0  | Shigellosis due to Shigella dysenteriae      |
| ICD-10-CM     | A03.1  | Shigellosis due to Shigella flexneri         |
| ICD-10-CM     | A03.2  | Shigellosis due to Shigella boydii           |
| ICD-10-CM     | A03.3  | Shigellosis due to Shigella sonnei           |
| ICD-10-CM     | A03.8  | Other shigellosis                            |
| ICD-10-CM     | A03.9  | Shigellosis, unspecified                     |
| ICD-10-CM     | A04.5  | Campylobacter enteritis                      |
| ICD-10-CM     | A07.2  | Cryptosporidiosis                            |
| ICD-10-CM     | A15.0  | Tuberculosis of lung                         |
| ICD-10-CM     | A15.4  | Tuberculosis of intrathoracic lymph nodes    |
| ICD-10-CM     | A15.5  | Tuberculosis of larynx, trachea and bronchus |
| ICD-10-CM     | A15.6  | Tuberculous pleurisy                         |
| ICD-10-CM     | A15.7  | Primary respiratory tuberculosis             |
| ICD-10-CM     | A15.8  | Other respiratory tuberculosis               |
| ICD-10-CM     | A15.9  | Respiratory tuberculosis unspecified         |
| ICD-10-CM     | A17.0  | Tuberculous meningitis                       |
| ICD-10-CM     | A17.1  | Meningeal tuberculoma                        |
| ICD-10-CM     | A17.81 | Tuberculoma of brain and spinal cord         |
| ICD-10-CM     | A17.82 | Tuberculous meningoencephalitis              |
| ICD-10-CM     | A17.83 | Tuberculous neuritis                         |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>                                    |
|----------------------|-------------|---|
| ICD-10-CM            | A17.89      | Other tuberculosis of nervous system                  |
| ICD-10-CM            | A17.9       | Tuberculosis of nervous system, unspecified           |
| ICD-10-CM            | A18.01      | Tuberculosis of spine                                 |
| ICD-10-CM            | A18.02      | Tuberculous arthritis of other joints                 |
| ICD-10-CM            | A18.03      | Tuberculosis of other bones                           |
| ICD-10-CM            | A18.09      | Other musculoskeletal tuberculosis                    |
| ICD-10-CM            | A18.10      | Tuberculosis of genitourinary system, unspecified     |
| ICD-10-CM            | A18.11      | Tuberculosis of kidney and ureter                     |
| ICD-10-CM            | A18.12      | Tuberculosis of bladder                               |
| ICD-10-CM            | A18.13      | Tuberculosis of other urinary organs                  |
| ICD-10-CM            | A18.14      | Tuberculosis of prostate                              |
| ICD-10-CM            | A18.15      | Tuberculosis of other male genital organs             |
| ICD-10-CM            | A18.16      | Tuberculosis of cervix                                |
| ICD-10-CM            | A18.17      | Tuberculous female pelvic inflammatory disease        |
| ICD-10-CM            | A18.18      | Tuberculosis of other female genital organs           |
| ICD-10-CM            | A18.2       | Tuberculous peripheral lymphadenopathy                |
| ICD-10-CM            | A18.31      | Tuberculous peritonitis                               |
| ICD-10-CM            | A18.32      | Tuberculous enteritis                                 |
| ICD-10-CM            | A18.39      | Retroperitoneal tuberculosis                          |
| ICD-10-CM            | A18.4       | Tuberculosis of skin and subcutaneous tissue          |
| ICD-10-CM            | A18.50      | Tuberculosis of eye, unspecified                      |
| ICD-10-CM            | A18.51      | Tuberculous episcleritis                              |
| ICD-10-CM            | A18.52      | Tuberculous keratitis                                 |
| ICD-10-CM            | A18.53      | Tuberculous chorioretinitis                           |
| ICD-10-CM            | A18.54      | Tuberculous iridocyclitis                             |
| ICD-10-CM            | A18.59      | Other tuberculosis of eye                             |
| ICD-10-CM            | A18.6       | Tuberculosis of (inner) (middle) ear                  |
| ICD-10-CM            | A18.7       | Tuberculosis of adrenal glands                        |
| ICD-10-CM            | A18.81      | Tuberculosis of thyroid gland                         |
| ICD-10-CM            | A18.82      | Tuberculosis of other endocrine glands                |
| ICD-10-CM            | A18.83      | Tuberculosis of digestive tract organs, NEC           |
| ICD-10-CM            | A18.84      | Tuberculosis of heart                                 |
| ICD-10-CM            | A18.85      | Tuberculosis of spleen                                |
| ICD-10-CM            | A18.89      | Tuberculosis of other sites                           |
| ICD-10-CM            | A19.0       | Acute miliary tuberculosis of a single specified site |
| ICD-10-CM            | A19.1       | Acute miliary tuberculosis of multiple sites          |
| ICD-10-CM            | A19.2       | Acute miliary tuberculosis, unspecified               |
| ICD-10-CM            | A19.8       | Other miliary tuberculosis                            |
| ICD-10-CM            | A19.9       | Miliary tuberculosis, unspecified                     |
| ICD-10-CM            | A31.0       | Pulmonary mycobacterial infection                     |

| Coding System | Code   | Description  |
|---------------|--------|--|
| ICD-10-CM     | A31.1  | Cutaneous mycobacterial infection                        |
| ICD-10-CM     | A31.2  | Dissem mycobacterium avium-intracellulare complex (DMAC) |
| ICD-10-CM     | A31.9  | Mycobacterial infection, unspecified                     |
| ICD-10-CM     | A44.0  | Systemic bartonellosis                                   |
| ICD-10-CM     | A44.1  | Cutaneous and mucocutaneous bartonellosis                |
| ICD-10-CM     | A44.8  | Other forms of bartonellosis                             |
| ICD-10-CM     | A44.9  | Bartonellosis, unspecified                               |
| ICD-10-CM     | A49.01 | Methicillin suscep staph infection, unsp site            |
| ICD-10-CM     | A49.1  | Streptococcal infection, unspecified site                |
| ICD-10-CM     | A49.2  | Hemophilus influenzae infection, unspecified site        |
| ICD-10-CM     | A50.01 | Early congenital syphilitic oculoopathy                  |
| ICD-10-CM     | A50.02 | Early congenital syphilitic osteochondropathy            |
| ICD-10-CM     | A50.03 | Early congenital syphilitic pharyngitis                  |
| ICD-10-CM     | A50.04 | Early congenital syphilitic pneumonia                    |
| ICD-10-CM     | A50.05 | Early congenital syphilitic rhinitis                     |
| ICD-10-CM     | A50.06 | Early cutaneous congenital syphilis                      |
| ICD-10-CM     | A50.07 | Early mucocutaneous congenital syphilis                  |
| ICD-10-CM     | A50.08 | Early visceral congenital syphilis                       |
| ICD-10-CM     | A50.09 | Other early congenital syphilis, symptomatic             |
| ICD-10-CM     | A50.1  | Early congenital syphilis, latent                        |
| ICD-10-CM     | A50.2  | Early congenital syphilis, unspecified                   |
| ICD-10-CM     | A50.30 | Late congenital syphilitic oculoopathy, unspecified      |
| ICD-10-CM     | A50.31 | Late congenital syphilitic interstitial keratitis        |
| ICD-10-CM     | A50.32 | Late congenital syphilitic chorioretinitis               |
| ICD-10-CM     | A50.39 | Other late congenital syphilitic oculoopathy             |
| ICD-10-CM     | A50.40 | Late congenital neurosyphilis, unspecified               |
| ICD-10-CM     | A50.41 | Late congenital syphilitic meningitis                    |
| ICD-10-CM     | A50.42 | Late congenital syphilitic encephalitis                  |
| ICD-10-CM     | A50.43 | Late congenital syphilitic polyneuropathy                |
| ICD-10-CM     | A50.44 | Late congenital syphilitic optic nerve atrophy           |
| ICD-10-CM     | A50.45 | Juvenile general paresis                                 |
| ICD-10-CM     | A50.49 | Other late congenital neurosyphilis                      |
| ICD-10-CM     | A50.51 | Clutton's joints   |
| ICD-10-CM     | A50.52 | Hutchinson's teeth                                       |
| ICD-10-CM     | A50.53 | Hutchinson's triad                                       |
| ICD-10-CM     | A50.54 | Late congenital cardiovascular syphilis                  |
| ICD-10-CM     | A50.55 | Late congenital syphilitic arthropathy                   |
| ICD-10-CM     | A50.56 | Late congenital syphilitic osteochondropathy             |
| ICD-10-CM     | A50.57 | Syphilitic saddle nose                                   |
| ICD-10-CM     | A50.59 | Other late congenital syphilis, symptomatic              |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>                            |
|----------------------|-------------|---|
| ICD-10-CM            | A50.6       | Late congenital syphilis, latent              |
| ICD-10-CM            | A50.7       | Late congenital syphilis, unspecified         |
| ICD-10-CM            | A50.9       | Congenital syphilis, unspecified              |
| ICD-10-CM            | A51.0       | Primary genital syphilis                      |
| ICD-10-CM            | A51.1       | Primary anal syphilis                         |
| ICD-10-CM            | A51.2       | Primary syphilis of other sites               |
| ICD-10-CM            | A51.31      | Condyloma latum                               |
| ICD-10-CM            | A51.32      | Syphilitic alopecia                           |
| ICD-10-CM            | A51.39      | Other secondary syphilis of skin              |
| ICD-10-CM            | A51.41      | Secondary syphilitic meningitis               |
| ICD-10-CM            | A51.42      | Secondary syphilitic female pelvic disease    |
| ICD-10-CM            | A51.43      | Secondary syphilitic ophthalmopathy           |
| ICD-10-CM            | A51.44      | Secondary syphilitic nephritis                |
| ICD-10-CM            | A51.45      | Secondary syphilitic hepatitis                |
| ICD-10-CM            | A51.46      | Secondary syphilitic osteopathy               |
| ICD-10-CM            | A51.49      | Other secondary syphilitic conditions         |
| ICD-10-CM            | A51.5       | Early syphilis, latent                        |
| ICD-10-CM            | A51.9       | Early syphilis, unspecified                   |
| ICD-10-CM            | A52.00      | Cardiovascular syphilis, unspecified          |
| ICD-10-CM            | A52.01      | Syphilitic aneurysm of aorta                  |
| ICD-10-CM            | A52.02      | Syphilitic aortitis                           |
| ICD-10-CM            | A52.03      | Syphilitic endocarditis                       |
| ICD-10-CM            | A52.04      | Syphilitic cerebral arteritis                 |
| ICD-10-CM            | A52.05      | Other cerebrovascular syphilis                |
| ICD-10-CM            | A52.06      | Other syphilitic heart involvement            |
| ICD-10-CM            | A52.09      | Other cardiovascular syphilis                 |
| ICD-10-CM            | A52.10      | Symptomatic neurosyphilis, unspecified        |
| ICD-10-CM            | A52.11      | Tabes dorsalis                                |
| ICD-10-CM            | A52.12      | Other cerebrospinal syphilis                  |
| ICD-10-CM            | A52.13      | Late syphilitic meningitis                    |
| ICD-10-CM            | A52.14      | Late syphilitic encephalitis                  |
| ICD-10-CM            | A52.15      | Late syphilitic neuropathy                    |
| ICD-10-CM            | A52.17      | General paresis                               |
| ICD-10-CM            | A52.19      | Other symptomatic neurosyphilis               |
| ICD-10-CM            | A52.2       | Asymptomatic neurosyphilis                    |
| ICD-10-CM            | A52.3       | Neurosyphilis, unspecified                    |
| ICD-10-CM            | A52.8       | Late syphilis, latent                         |
| ICD-10-CM            | A52.9       | Late syphilis, unspecified                    |
| ICD-10-CM            | A53.0       | Latent syphilis, unspecified as early or late |
| ICD-10-CM            | A53.9       | Syphilis, unspecified                         |



| <b>Coding System</b> | <b>Code</b> | <b>Description</b>                                      |
|----------------------|-------------|---|
| ICD-10-CM            | A60.00      | Herpesviral infection of urogenital system, unspecified |
| ICD-10-CM            | A60.01      | Herpesviral infection of penis                          |
| ICD-10-CM            | A60.02      | Herpesviral infection of other male genital organs      |
| ICD-10-CM            | A60.03      | Herpesviral cervicitis                                  |
| ICD-10-CM            | A60.04      | Herpesviral vulvovaginitis                              |
| ICD-10-CM            | A60.09      | Herpesviral infection of other urogenital tract         |
| ICD-10-CM            | A60.1       | Herpesviral infection of perianal skin and rectum       |
| ICD-10-CM            | A60.9       | Anogenital herpesviral infection, unspecified           |
| ICD-10-CM            | A81.2       | Progressive multifocal leukoencephalopathy              |
| ICD-10-CM            | B00.0       | Eczema herpeticum                                       |
| ICD-10-CM            | B00.1       | Herpesviral vesicular dermatitis                        |
| ICD-10-CM            | B00.2       | Herpesviral gingivostomatitis and pharyngotonsillitis   |
| ICD-10-CM            | B00.3       | Herpesviral meningitis                                  |
| ICD-10-CM            | B00.4       | Herpesviral encephalitis                                |
| ICD-10-CM            | B00.50      | Herpesviral ocular disease, unspecified                 |
| ICD-10-CM            | B00.51      | Herpesviral iridocyclitis                               |
| ICD-10-CM            | B00.52      | Herpesviral keratitis                                   |
| ICD-10-CM            | B00.53      | Herpesviral conjunctivitis                              |
| ICD-10-CM            | B00.59      | Other herpesviral disease of eye                        |
| ICD-10-CM            | B00.7       | Disseminated herpesviral disease                        |
| ICD-10-CM            | B00.81      | Herpesviral hepatitis                                   |
| ICD-10-CM            | B00.82      | Herpes simplex myelitis                                 |
| ICD-10-CM            | B00.89      | Other herpesviral infection                             |
| ICD-10-CM            | B00.9       | Herpesviral infection, unspecified                      |
| ICD-10-CM            | B02.0       | Zoster encephalitis                                     |
| ICD-10-CM            | B02.1       | Zoster meningitis                                       |
| ICD-10-CM            | B02.21      | Postherpetic geniculate ganglionitis                    |
| ICD-10-CM            | B02.22      | Postherpetic trigeminal neuralgia                       |
| ICD-10-CM            | B02.23      | Postherpetic polyneuropathy                             |
| ICD-10-CM            | B02.24      | Postherpetic myelitis                                   |
| ICD-10-CM            | B02.29      | Other postherpetic nervous system involvement           |
| ICD-10-CM            | B02.30      | Zoster ocular disease, unspecified                      |
| ICD-10-CM            | B02.31      | Zoster conjunctivitis                                   |
| ICD-10-CM            | B02.32      | Zoster iridocyclitis                                    |
| ICD-10-CM            | B02.33      | Zoster keratitis  |
| ICD-10-CM            | B02.34      | Zoster scleritis  |
| ICD-10-CM            | B02.39      | Other herpes zoster eye disease                         |
| ICD-10-CM            | B02.7       | Disseminated zoster                                     |
| ICD-10-CM            | B02.8       | Zoster with other complications                         |
| ICD-10-CM            | B02.9       | Zoster without complications                            |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>   |
|----------------------|-------------|--|
| ICD-10-CM            | B16.0       | Acute hepatitis B with delta-agent with hepatic coma       |
| ICD-10-CM            | B16.1       | Acute hepatitis B with delta-agent without hepatic coma    |
| ICD-10-CM            | B16.2       | Acute hepatitis B without delta-agent with hepatic coma    |
| ICD-10-CM            | B16.9       | Acute hepatitis B w/o delta-agent and without hepatic coma |
| ICD-10-CM            | B17.10      | Acute hepatitis C without hepatic coma                     |
| ICD-10-CM            | B17.11      | Acute hepatitis C with hepatic coma                        |
| ICD-10-CM            | B18.0       | Chronic viral hepatitis B with delta-agent                 |
| ICD-10-CM            | B18.1       | Chronic viral hepatitis B without delta-agent              |
| ICD-10-CM            | B18.2       | Chronic viral hepatitis C                                  |
| ICD-10-CM            | B19.10      | Unspecified viral hepatitis B without hepatic coma         |
| ICD-10-CM            | B19.11      | Unspecified viral hepatitis B with hepatic coma            |
| ICD-10-CM            | B19.20      | Unspecified viral hepatitis C without hepatic coma         |
| ICD-10-CM            | B19.21      | Unspecified viral hepatitis C with hepatic coma            |
| ICD-10-CM            | B25.0       | Cytomegaloviral pneumonitis                                |
| ICD-10-CM            | B25.1       | Cytomegaloviral hepatitis                                  |
| ICD-10-CM            | B25.2       | Cytomegaloviral pancreatitis                               |
| ICD-10-CM            | B25.8       | Other cytomegaloviral diseases                             |
| ICD-10-CM            | B25.9       | Cytomegaloviral disease, unspecified                       |
| ICD-10-CM            | B37.0       | Candidal stomatitis  |
| ICD-10-CM            | B37.83      | Candidal cheilitis   |
| ICD-10-CM            | B38.0       | Acute pulmonary coccidioidomycosis                         |
| ICD-10-CM            | B38.3       | Cutaneous coccidioidomycosis                               |
| ICD-10-CM            | B38.4       | Coccidioidomycosis meningitis                              |
| ICD-10-CM            | B38.7       | Disseminated coccidioidomycosis                            |
| ICD-10-CM            | B38.81      | Prostatic coccidioidomycosis                               |
| ICD-10-CM            | B38.89      | Other forms of coccidioidomycosis                          |
| ICD-10-CM            | B39.0       | Acute pulmonary histoplasmosis capsulati                   |
| ICD-10-CM            | B39.1       | Chronic pulmonary histoplasmosis capsulati                 |
| ICD-10-CM            | B39.2       | Pulmonary histoplasmosis capsulati, unspecified            |
| ICD-10-CM            | B39.3       | Disseminated histoplasmosis capsulati                      |
| ICD-10-CM            | B39.4       | Histoplasmosis capsulati, unspecified                      |
| ICD-10-CM            | B39.5       | Histoplasmosis duboisii                                    |
| ICD-10-CM            | B39.9       | Histoplasmosis, unspecified                                |
| ICD-10-CM            | B44.0       | Invasive pulmonary aspergillosis                           |
| ICD-10-CM            | B44.1       | Other pulmonary aspergillosis                              |
| ICD-10-CM            | B44.2       | Tonsillar aspergillosis                                    |
| ICD-10-CM            | B44.7       | Disseminated aspergillosis                                 |
| ICD-10-CM            | B44.89      | Other forms of aspergillosis                               |
| ICD-10-CM            | B44.9       | Aspergillosis, unspecified                                 |
| ICD-10-CM            | B45.0       | Pulmonary cryptococcosis                                   |

| Coding System | Code    | Description  |
|---------------|---------|--|
| ICD-10-CM     | B45.1   | Cerebral cryptococcosis                                      |
| ICD-10-CM     | B45.2   | Cutaneous cryptococcosis                                     |
| ICD-10-CM     | B45.3   | Osseous cryptococcosis                                       |
| ICD-10-CM     | B45.7   | Disseminated cryptococcosis                                  |
| ICD-10-CM     | B45.8   | Other forms of cryptococcosis                                |
| ICD-10-CM     | B45.9   | Cryptococcosis, unspecified                                  |
| ICD-10-CM     | B48.4   | Penicillosis   |
| ICD-10-CM     | B58.00  | Toxoplasma oculopathy, unspecified                           |
| ICD-10-CM     | B58.01  | Toxoplasma chorioretinitis                                   |
| ICD-10-CM     | B58.09  | Other toxoplasma oculopathy                                  |
| ICD-10-CM     | B58.1   | Toxoplasma hepatitis   |
| ICD-10-CM     | B58.2   | Toxoplasma meningoencephalitis                               |
| ICD-10-CM     | B58.3   | Pulmonary toxoplasmosis                                      |
| ICD-10-CM     | B58.81  | Toxoplasma myocarditis                                       |
| ICD-10-CM     | B58.82  | Toxoplasma myositis  |
| ICD-10-CM     | B58.83  | Toxoplasma tubulo-interstitial nephropathy                   |
| ICD-10-CM     | B58.89  | Toxoplasmosis with other organ involvement                   |
| ICD-10-CM     | B58.9   | Toxoplasmosis, unspecified                                   |
| ICD-10-CM     | B59.    | Pneumocystosis   |
| ICD-10-CM     | B60.8   | Other specified protozoal diseases                           |
| ICD-10-CM     | B95.0   | Streptococcus, group A, causing diseases classd elswhr       |
| ICD-10-CM     | B95.1   | Streptococcus, group B, causing diseases classd elswhr       |
| ICD-10-CM     | B95.2   | Enterococcus as the cause of diseases classified elsewhere   |
| ICD-10-CM     | B95.3   | Streptococcus pneumoniae causing diseases classd elswhr      |
| ICD-10-CM     | B95.4   | Oth streptococcus as the cause of diseases classd elswhr     |
| ICD-10-CM     | B95.5   | Unsp streptococcus as the cause of diseases classd elswhr    |
| ICD-10-CM     | B95.61  | Methicillin suscep staph infct causing dis classd elswhr     |
| ICD-10-CM     | B95.7   | Oth staphylococcus as the cause of diseases classd elswhr    |
| ICD-10-CM     | B95.8   | Unsp staphylococcus as the cause of diseases classd elswhr   |
| ICD-10-CM     | B96.3   | Hemophilus influenzae as the cause of diseases classd elswhr |
| ICD-10-CM     | B96.5   | Pseudomonas (mallei) causing diseases classd elswhr          |
| ICD-10-CM     | B97.7   | Papillomavirus as the cause of diseases classified elsewhere |
| ICD-10-CM     | B99.8   | Other infectious disease                                     |
| ICD-10-CM     | J13.    | Pneumonia due to Streptococcus pneumoniae                    |
| ICD-10-CM     | J15.1   | Pneumonia due to Pseudomonas                                 |
| ICD-10-CM     | J15.20  | Pneumonia due to staphylococcus, unspecified                 |
| ICD-10-CM     | J15.211 | Pneumonia due to methicillin suscep staph                    |
| ICD-10-CM     | J15.212 | Pneumonia due to Methicillin resistant Staphylococcus aureus |
| ICD-10-CM     | J15.29  | Pneumonia due to other staphylococcus                        |
| ICD-10-CM     | J15.3   | Pneumonia due to streptococcus, group B                      |

| Coding System | Code  | Description                                   |
|---------------|-------|---|
| ICD-10-CM     | J15.4 | Pneumonia due to other streptococci           |
| ICD-10-CM     | J18.1 | Lobar pneumonia, unspecified organism         |
| ICD-10-CM     | J20.1 | Acute bronchitis due to Hemophilus influenzae |
| ICD-10-CM     | J20.2 | Acute bronchitis due to streptococcus         |
| ICD-10-CM     | J98.9 | Respiratory disorder, unspecified             |

## A.2 AIDS Defining Illnesses

Taxonomy BKMV AIDS DEF ILL DXS entries listed below.

Table A-2: Taxonomy BKMV AIDS DEF ILL DXS entries

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 112.4  | CANDIDIASIS OF LUNG      |
| ICD-9-CM      | 112.89 | CANDIDIASIS SITE NEC     |
| ICD-9-CM      | 112.9  | CANDIDIASIS SITE NOS     |
| ICD-9-CM      | 114.1  | PRIM CUTAN COCCIDIOID    |
| ICD-9-CM      | 114.2  | COCCIDIOIDAL MENINGITIS  |
| ICD-9-CM      | 114.3  | PROGRESS COCCIDIOID NEC  |
| ICD-9-CM      | 115.01 | HISTOPLASM CAPSUL MENING |
| ICD-9-CM      | 115.02 | HISTOPLASM CAPSUL RETINA |
| ICD-9-CM      | 115.03 | HISTOPLASM CAPS PERICARD |
| ICD-9-CM      | 115.04 | HISTOPLASM CAPS ENDOCARD |
| ICD-9-CM      | 115.05 | HISTOPLASM CAPS PNEUMON  |
| ICD-9-CM      | 115.09 | HISTOPLASMA CAPSULAT NEC |
| ICD-9-CM      | 115.11 | HISTOPLASM DUBOIS MENING |
| ICD-9-CM      | 115.12 | HISTOPLASM DUBOIS RETINA |
| ICD-9-CM      | 115.13 | HISTOPLASM DUB PERICARD  |
| ICD-9-CM      | 115.14 | HISTOPLASM DUB ENDOCARD  |
| ICD-9-CM      | 115.15 | HISTOPLASM DUB PNEUMONIA |
| ICD-9-CM      | 115.19 | HISTOPLASMA DUBOISII NEC |
| ICD-9-CM      | 115.91 | HISTOPLASMOSIS MENINGIT  |
| ICD-9-CM      | 115.92 | HISTOPLASMOSIS RETINITIS |
| ICD-9-CM      | 115.93 | HISTOPLASMOSIS PERICARD  |
| ICD-9-CM      | 115.94 | HISTOPLASMOSIS ENDOCARD  |
| ICD-9-CM      | 115.95 | HISTOPLASMOSIS PNEUMONIA |
| ICD-9-CM      | 115.99 | HISTOPLASMOSIS NEC       |
| ICD-9-CM      | 117.5  | CRYPTOCOCCOSIS           |
| ICD-9-CM      | 130.1  | TOXOPLASM CONJUNCTIVITIS |
| ICD-9-CM      | 130.2  | TOXOPLASM CHORIORETINIT  |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 130.3       | TOXOPLASMA MYOCARDITIS   |
| ICD-9-CM             | 130.4       | TOXOPLASMA PNEUMONITIS   |
| ICD-9-CM             | 130.5       | TOXOPLASMA HEPATITIS     |
| ICD-9-CM             | 130.7       | TOXOPLASMOSIS SITE NEC   |
| ICD-9-CM             | 130.8       | MULTISYSTEM TOXOPLASMOS  |
| ICD-9-CM             | 130.9       | TOXOPLASMOSIS NOS        |
| ICD-9-CM             | 136.3       | PNEUMOCYSTOSIS           |
| ICD-9-CM             | 180.1       | MALIG NEO EXOCERVIX      |
| ICD-9-CM             | 180.8       | MALIG NEO CERVIX NEC     |
| ICD-9-CM             | 180.9       | MAL NEO CERVIX UTERI NOS |
| ICD-9-CM             | 191.1       | MALIG NEO FRONTAL LOBE   |
| ICD-9-CM             | 191.2       | MAL NEO TEMPORAL LOBE    |
| ICD-9-CM             | 191.3       | MAL NEO PARIETAL LOBE    |
| ICD-9-CM             | 191.4       | MAL NEO OCCIPITAL LOBE   |
| ICD-9-CM             | 191.5       | MAL NEO CEREB VENTRICLE  |
| ICD-9-CM             | 191.6       | MAL NEO CEREBELLUM NOS   |
| ICD-9-CM             | 191.7       | MAL NEO BRAIN STEM       |
| ICD-9-CM             | 191.8       | MALIG NEO BRAIN NEC      |
| ICD-9-CM             | 191.9       | MALIG NEO BRAIN NOS      |
| ICD-9-CM             | 196.1       | MAL NEO LYMPH-INTRATHOR  |
| ICD-9-CM             | 196.2       | MAL NEO LYMPH INTRA-ABD  |
| ICD-9-CM             | 196.3       | MAL NEO LYMPH-AXILLA/ARM |
| ICD-9-CM             | 196.5       | MAL NEO LYMPH-INGUIN/LEG |
| ICD-9-CM             | 196.6       | MAL NEO LYMPH-INTRAPELV  |
| ICD-9-CM             | 196.8       | MAL NEO LYMPH NODE-MULT  |
| ICD-9-CM             | 196.9       | MAL NEO LYMPH NODE NOS   |
| ICD-9-CM             | 200.21      | BURKITT'S TUMOR HEAD     |
| ICD-9-CM             | 200.22      | BURKITT'S TUMOR THORAX   |
| ICD-9-CM             | 200.23      | BURKITT'S TUMOR ABDOM    |
| ICD-9-CM             | 200.24      | BURKITT'S TUMOR AXILLA   |
| ICD-9-CM             | 200.25      | BURKITT'S TUMOR INGUIN   |
| ICD-9-CM             | 200.26      | BURKITT'S TUMOR PELVIC   |
| ICD-9-CM             | 200.27      | BURKITT'S TUMOR SPLEEN   |
| ICD-9-CM             | 200.28      | BURKITT'S TUMOR MULT     |
| ICD-9-CM             | 200.81      | MIXED LYMPHOSARC HEAD    |
| ICD-9-CM             | 200.82      | MIXED LYMPHOSARC THORAX  |
| ICD-9-CM             | 200.83      | MIXED LYMPHOSARC ABDOM   |
| ICD-9-CM             | 200.84      | MIXED LYMPHOSARC AXILLA  |
| ICD-9-CM             | 200.85      | MIXED LYMPHOSARC INGUIN  |
| ICD-9-CM             | 200.86      | MIXED LYMPHOSARC PELVIC  |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>          |
|----------------------|-------------|-----------------------------|
| ICD-9-CM             | 200.87      | MIXED LYMPHOSARC SPLEEN     |
| ICD-9-CM             | 200.88      | MIXED LYMPHOSARC MULT       |
| ICD-9-CM             | 202.81      | LYMPHOMAS NEC HEAD          |
| ICD-9-CM             | 202.82      | LYMPHOMAS NEC THORAX        |
| ICD-9-CM             | 202.83      | LYMPHOMAS NEC ABDOM         |
| ICD-9-CM             | 202.84      | LYMPHOMAS NEC AXILLA        |
| ICD-9-CM             | 202.85      | LYMPHOMAS NEC INGUIN        |
| ICD-9-CM             | 202.86      | LYMPHOMAS NEC PELVIC        |
| ICD-9-CM             | 202.87      | LYMPHOMAS NEC SPLEEN        |
| ICD-9-CM             | 202.88      | LYMPHOMAS NEC MULT          |
| ICD-9-CM             | 348.3       | ENCEPHALOPATHY NOS          |
| ICD-9-CM             | 480.1       | RESP SYNCYT VIRAL PNEUM     |
| ICD-9-CM             | 480.2       | PARINFLUENZA VIRAL PNEUM    |
| ICD-9-CM             | 480.8       | VIRAL PNEUMONIA NEC         |
| ICD-9-CM             | 480.9       | VIRAL PNEUMONIA NOS         |
| ICD-9-CM             | 482.1       | PSEUDOMONAL PNEUMONIA       |
| ICD-9-CM             | 482.2       | H.INFLUENZAE PNEUMONIA      |
| ICD-9-CM             | 482.3       | STREPTOCOCCAL PNEUMONIA     |
| ICD-9-CM             | 482.4       | STAPHYLOCOCCAL PNEUMONIA    |
| ICD-9-CM             | 482.8       | PNEUMONIA OTH SPEC BACTERIA |
| ICD-9-CM             | 482.9       | BACTERIAL PNEUMONIA NOS     |
| ICD-9-CM             | 484.1       | PNEUM W CYTOMEG INCL DIS    |
| ICD-9-CM             | 484.3       | PNEUMONIA IN WHOOP COUGH    |
| ICD-9-CM             | 484.5       | PNEUMONIA IN ANTHRAX        |
| ICD-9-CM             | 484.6       | PNEUM IN ASPERGILLOSIS      |
| ICD-9-CM             | 484.7       | PNEUM IN OTH SYS MYCOSES    |
| ICD-9-CM             | 484.8       | PNEUM IN INFECT DIS NEC     |
| ICD-9-CM             | 799.4       | CACHEXIA                    |
| ICD-9-CM             | 003.1       | SALMONELLA SEPTICEMIA       |
| ICD-9-CM             | 007.2       | COCCIDIOSIS                 |
| ICD-9-CM             | 010.00      | PRIM TB COMPLEX-UNSPEC      |
| ICD-9-CM             | 010.01      | PRIM TB COMPLEX-NO EXAM     |
| ICD-9-CM             | 010.02      | PRIM TB COMPLEX-EXM UNKN    |
| ICD-9-CM             | 010.03      | PRIM TB COMPLEX-MICRO DX    |
| ICD-9-CM             | 010.04      | PRIM TB COMPLEX-CULT DX     |
| ICD-9-CM             | 010.05      | PRIM TB COMPLEX-HISTO DX    |
| ICD-9-CM             | 010.06      | PRIM TB COMPLEX-OTH TEST    |
| ICD-9-CM             | 010.10      | PRIM TB PLEURISY-UNSPEC     |
| ICD-9-CM             | 010.11      | PRIM TB PLEURISY-NO EXAM    |
| ICD-9-CM             | 010.12      | PRIM TB PLEUR-EXAM UNKN     |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 010.13 | PRIM TB PLEURIS-MICRO DX |
| ICD-9-CM      | 010.14 | PRIM TB PLEURISY-CULT DX |
| ICD-9-CM      | 010.15 | PRIM TB PLEURIS-HISTO DX |
| ICD-9-CM      | 010.16 | PRIM TB PLEURIS-OTH TEST |
| ICD-9-CM      | 010.80 | PRIM PROG TB NEC-UNSPEC  |
| ICD-9-CM      | 010.81 | PRIM PROG TB NEC-NO EXAM |
| ICD-9-CM      | 010.82 | PRIM PR TB NEC-EXAM UNKN |
| ICD-9-CM      | 010.83 | PRIM PRG TB NEC-MICRO DX |
| ICD-9-CM      | 010.84 | PRIM PROG TB NEC-CULT DX |
| ICD-9-CM      | 010.85 | PRIM PRG TB NEC-HISTO DX |
| ICD-9-CM      | 010.86 | PRIM PRG TB NEC-OTH TEST |
| ICD-9-CM      | 010.90 | PRIMARY TB NOS-UNSPEC    |
| ICD-9-CM      | 010.91 | PRIMARY TB NOS-NO EXAM   |
| ICD-9-CM      | 010.92 | PRIMARY TB NOS-EXAM UNKN |
| ICD-9-CM      | 010.93 | PRIMARY TB NOS-MICRO DX  |
| ICD-9-CM      | 010.94 | PRIMARY TB NOS-CULT DX   |
| ICD-9-CM      | 010.95 | PRIMARY TB NOS-HISTO DX  |
| ICD-9-CM      | 010.96 | PRIMARY TB NOS-OTH TEST  |
| ICD-9-CM      | 011.00 | TB LUNG INFILTR-UNSPEC   |
| ICD-9-CM      | 011.01 | TB LUNG INFILTR-NO EXAM  |
| ICD-9-CM      | 011.02 | TB LUNG INFILTR-EXM UNKN |
| ICD-9-CM      | 011.03 | TB LUNG INFILTR-MICRO DX |
| ICD-9-CM      | 011.04 | TB LUNG INFILTR-CULT DX  |
| ICD-9-CM      | 011.05 | TB LUNG INFILTR-HISTO DX |
| ICD-9-CM      | 011.06 | TB LUNG INFILTR-OTH TEST |
| ICD-9-CM      | 011.10 | TB LUNG NODULAR-UNSPEC   |
| ICD-9-CM      | 011.11 | TB LUNG NODULAR-NO EXAM  |
| ICD-9-CM      | 011.12 | TB LUNG NODUL-EXAM UNKN  |
| ICD-9-CM      | 011.13 | TB LUNG NODULAR-MICRO DX |
| ICD-9-CM      | 011.14 | TB LUNG NODULAR-CULT DX  |
| ICD-9-CM      | 011.15 | TB LUNG NODULAR-HISTO DX |
| ICD-9-CM      | 011.16 | TB LUNG NODULAR-OTH TEST |
| ICD-9-CM      | 011.20 | TB LUNG W CAVITY-UNSPEC  |
| ICD-9-CM      | 011.21 | TB LUNG W CAVITY-NO EXAM |
| ICD-9-CM      | 011.22 | TB LUNG CAVITY-EXAM UNKN |
| ICD-9-CM      | 011.23 | TB LUNG W CAVIT-MICRO DX |
| ICD-9-CM      | 011.24 | TB LUNG W CAVITY-CULT DX |
| ICD-9-CM      | 011.25 | TB LUNG W CAVIT-HISTO DX |
| ICD-9-CM      | 011.26 | TB LUNG W CAVIT-OTH TEST |
| ICD-9-CM      | 011.30 | TB OF BRONCHUS-UNSPEC    |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 011.31      | TB OF BRONCHUS-NO EXAM   |
| ICD-9-CM             | 011.32      | TB OF BRONCHUS-EXAM UNKN |
| ICD-9-CM             | 011.33      | TB OF BRONCHUS-MICRO DX  |
| ICD-9-CM             | 011.34      | TB OF BRONCHUS-CULT DX   |
| ICD-9-CM             | 011.35      | TB OF BRONCHUS-HISTO DX  |
| ICD-9-CM             | 011.36      | TB OF BRONCHUS-OTH TEST  |
| ICD-9-CM             | 011.40      | TB LUNG FIBROSIS-UNSPEC  |
| ICD-9-CM             | 011.41      | TB LUNG FIBROSIS-NO EXAM |
| ICD-9-CM             | 011.42      | TB LUNG FIBROS-EXAM UNKN |
| ICD-9-CM             | 011.43      | TB LUNG FIBROS-MICRO DX  |
| ICD-9-CM             | 011.44      | TB LUNG FIBROSIS-CULT DX |
| ICD-9-CM             | 011.45      | TB LUNG FIBROS-HISTO DX  |
| ICD-9-CM             | 011.46      | TB LUNG FIBROS-OTH TEST  |
| ICD-9-CM             | 011.50      | TB BRONCHIECTASIS-UNSPEC |
| ICD-9-CM             | 011.51      | TB BRONCHIECT-NO EXAM    |
| ICD-9-CM             | 011.52      | TB BRONCHIECT-EXAM UNKN  |
| ICD-9-CM             | 011.53      | TB BRONCHIECT-MICRO DX   |
| ICD-9-CM             | 011.54      | TB BRONCHIECT-CULT DX    |
| ICD-9-CM             | 011.55      | TB BRONCHIECT-HISTO DX   |
| ICD-9-CM             | 011.56      | TB BRONCHIECT-OTH TEST   |
| ICD-9-CM             | 011.60      | TB PNEUMONIA-UNSPEC      |
| ICD-9-CM             | 011.61      | TB PNEUMONIA-NO EXAM     |
| ICD-9-CM             | 011.62      | TB PNEUMONIA-EXAM UNKN   |
| ICD-9-CM             | 011.63      | TB PNEUMONIA-MICRO DX    |
| ICD-9-CM             | 011.64      | TB PNEUMONIA-CULT DX     |
| ICD-9-CM             | 011.65      | TB PNEUMONIA-HISTO DX    |
| ICD-9-CM             | 011.66      | TB PNEUMONIA-OTH TEST    |
| ICD-9-CM             | 011.70      | TB PNEUMOTHORAX-UNSPEC   |
| ICD-9-CM             | 011.71      | TB PNEUMOTHORAX-NO EXAM  |
| ICD-9-CM             | 011.72      | TB PNEUMOTHORX-EXAM UNKN |
| ICD-9-CM             | 011.73      | TB PNEUMOTHORAX-MICRO DX |
| ICD-9-CM             | 011.74      | TB PNEUMOTHORAX-CULT DX  |
| ICD-9-CM             | 011.75      | TB PNEUMOTHORAX-HISTO DX |
| ICD-9-CM             | 011.76      | TB PNEUMOTHORAX-OTH TEST |
| ICD-9-CM             | 011.80      | PULMONARY TB NEC-UNSPEC  |
| ICD-9-CM             | 011.81      | PULMONARY TB NEC-NO EXAM |
| ICD-9-CM             | 011.82      | PULMON TB NEC-EXAM UNKN  |
| ICD-9-CM             | 011.83      | PULMON TB NEC-MICRO DX   |
| ICD-9-CM             | 011.84      | PULMON TB NEC-CULT DX    |
| ICD-9-CM             | 011.85      | PULMON TB NEC-HISTO DX   |



| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 011.86      | PULMON TB NEC-OTH TEST   |
| ICD-9-CM             | 011.90      | PULMONARY TB NOS-UNSPEC  |
| ICD-9-CM             | 011.91      | PULMONARY TB NOS-NO EXAM |
| ICD-9-CM             | 011.92      | PULMON TB NOS-EXAM UNKN  |
| ICD-9-CM             | 011.93      | PULMON TB NOS-MICRO DX   |
| ICD-9-CM             | 011.94      | PULMON TB NOS-CULT DX    |
| ICD-9-CM             | 011.95      | PULMON TB NOS-HISTO DX   |
| ICD-9-CM             | 011.96      | PULMON TB NOS-OTH TEST   |
| ICD-9-CM             | 012.00      | TB PLEURISY-UNSPEC       |
| ICD-9-CM             | 012.01      | TB PLEURISY-NO EXAM      |
| ICD-9-CM             | 012.02      | TB PLEURISY-EXAM UNKN    |
| ICD-9-CM             | 012.03      | TB PLEURISY-MICRO DX     |
| ICD-9-CM             | 012.04      | TB PLEURISY-CULT DX      |
| ICD-9-CM             | 012.05      | TB PLEURISY-HISTOLOG DX  |
| ICD-9-CM             | 012.06      | TB PLEURISY-OTH TEST     |
| ICD-9-CM             | 012.10      | TB THORACIC NODES-UNSPEC |
| ICD-9-CM             | 012.11      | TB THORAX NODE-NO EXAM   |
| ICD-9-CM             | 012.12      | TB THORAX NODE-EXAM UNKN |
| ICD-9-CM             | 012.13      | TB THORAX NODE-MICRO DX  |
| ICD-9-CM             | 012.14      | TB THORAX NODE-CULT DX   |
| ICD-9-CM             | 012.15      | TB THORAX NODE-HISTO DX  |
| ICD-9-CM             | 012.16      | TB THORAX NODE-OTH TEST  |
| ICD-9-CM             | 012.20      | ISOL TRACHEAL TB-UNSPEC  |
| ICD-9-CM             | 012.21      | ISOL TRACHEAL TB-NO EXAM |
| ICD-9-CM             | 012.22      | ISOL TRACH TB-EXAM UNKN  |
| ICD-9-CM             | 012.23      | ISOLAT TRACH TB-MICRO DX |
| ICD-9-CM             | 012.24      | ISOL TRACHEAL TB-CULT DX |
| ICD-9-CM             | 012.25      | ISOLAT TRACH TB-HISTO DX |
| ICD-9-CM             | 012.26      | ISOLAT TRACH TB-OTH TEST |
| ICD-9-CM             | 012.30      | TB LARYNGITIS-UNSPEC     |
| ICD-9-CM             | 012.31      | TB LARYNGITIS-NO EXAM    |
| ICD-9-CM             | 012.32      | TB LARYNGITIS-EXAM UNKN  |
| ICD-9-CM             | 012.33      | TB LARYNGITIS-MICRO DX   |
| ICD-9-CM             | 012.34      | TB LARYNGITIS-CULT DX    |
| ICD-9-CM             | 012.35      | TB LARYNGITIS-HISTO DX   |
| ICD-9-CM             | 012.36      | TB LARYNGITIS-OTH TEST   |
| ICD-9-CM             | 012.80      | RESP TB NEC-UNSPEC       |
| ICD-9-CM             | 012.81      | RESP TB NEC-NO EXAM      |
| ICD-9-CM             | 012.82      | RESP TB NEC-EXAM UNKN    |
| ICD-9-CM             | 012.83      | RESP TB NEC-MICRO DX     |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 012.84      | RESP TB NEC-CULT DX      |
| ICD-9-CM             | 012.85      | RESP TB NEC-HISTO DX     |
| ICD-9-CM             | 012.86      | RESP TB NEC-OTH TEST     |
| ICD-9-CM             | 013.00      | TB MENINGITIS-UNSPEC     |
| ICD-9-CM             | 013.01      | TB MENINGITIS-NO EXAM    |
| ICD-9-CM             | 013.02      | TB MENINGITIS-EXAM UNKN  |
| ICD-9-CM             | 013.03      | TB MENINGITIS-MICRO DX   |
| ICD-9-CM             | 013.04      | TB MENINGITIS-CULT DX    |
| ICD-9-CM             | 013.05      | TB MENINGITIS-HISTO DX   |
| ICD-9-CM             | 013.06      | TB MENINGITIS-OTH TEST   |
| ICD-9-CM             | 013.10      | TUBRCLMA MENINGES-UNSPEC |
| ICD-9-CM             | 013.11      | TUBRCLMA MENING-NO EXAM  |
| ICD-9-CM             | 013.12      | TUBRCLMA MENIN-EXAM UNKN |
| ICD-9-CM             | 013.13      | TUBRCLMA MENING-MICRO DX |
| ICD-9-CM             | 013.14      | TUBRCLMA MENING-CULT DX  |
| ICD-9-CM             | 013.15      | TUBRCLMA MENING-HISTO DX |
| ICD-9-CM             | 013.16      | TUBRCLMA MENING-OTH TEST |
| ICD-9-CM             | 013.20      | TUBERCULOMA BRAIN-UNSPEC |
| ICD-9-CM             | 013.21      | TUBRCLOMA BRAIN-NO EXAM  |
| ICD-9-CM             | 013.22      | TUBRCLMA BRAIN-EXAM UNKN |
| ICD-9-CM             | 013.23      | TUBRCLOMA BRAIN-MICRO DX |
| ICD-9-CM             | 013.24      | TUBRCLOMA BRAIN-CULT DX  |
| ICD-9-CM             | 013.25      | TUBRCLOMA BRAIN-HISTO DX |
| ICD-9-CM             | 013.26      | TUBRCLOMA BRAIN-OTH TEST |
| ICD-9-CM             | 013.30      | TB BRAIN ABSCESS-UNSPEC  |
| ICD-9-CM             | 013.31      | TB BRAIN ABSCESS-NO EXAM |
| ICD-9-CM             | 013.32      | TB BRAIN ABSC-EXAM UNKN  |
| ICD-9-CM             | 013.33      | TB BRAIN ABSC-MICRO DX   |
| ICD-9-CM             | 013.34      | TB BRAIN ABSCESS-CULT DX |
| ICD-9-CM             | 013.35      | TB BRAIN ABSC-HISTO DX   |
| ICD-9-CM             | 013.36      | TB BRAIN ABSC-OTH TEST   |
| ICD-9-CM             | 013.40      | TUBRCLMA SP CORD-UNSPEC  |
| ICD-9-CM             | 013.41      | TUBRCLMA SP CORD-NO EXAM |
| ICD-9-CM             | 013.42      | TUBRCLMA SP CD-EXAM UNKN |
| ICD-9-CM             | 013.43      | TUBRCLMA SP CRD-MICRO DX |
| ICD-9-CM             | 013.44      | TUBRCLMA SP CORD-CULT DX |
| ICD-9-CM             | 013.45      | TUBRCLMA SP CRD-HISTO DX |
| ICD-9-CM             | 013.46      | TUBRCLMA SP CRD-OTH TEST |
| ICD-9-CM             | 013.50      | TB SP CRD ABSCESS-UNSPEC |
| ICD-9-CM             | 013.51      | TB SP CRD ABSC-NO EXAM   |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 013.52      | TB SP CRD ABSC-EXAM UNKN |
| ICD-9-CM             | 013.53      | TB SP CRD ABSC-MICRO DX  |
| ICD-9-CM             | 013.54      | TB SP CRD ABSC-CULT DX   |
| ICD-9-CM             | 013.55      | TB SP CRD ABSC-HISTO DX  |
| ICD-9-CM             | 013.56      | TB SP CRD ABSC-OTH TEST  |
| ICD-9-CM             | 013.60      | TB ENCEPHALITIS-UNSPEC   |
| ICD-9-CM             | 013.61      | TB ENCEPHALITIS-NO EXAM  |
| ICD-9-CM             | 013.62      | TB ENCEPHALIT-EXAM UNKN  |
| ICD-9-CM             | 013.63      | TB ENCEPHALITIS-MICRO DX |
| ICD-9-CM             | 013.64      | TB ENCEPHALITIS-CULT DX  |
| ICD-9-CM             | 013.65      | TB ENCEPHALITIS-HISTO DX |
| ICD-9-CM             | 013.66      | TB ENCEPHALITIS-OTH TEST |
| ICD-9-CM             | 013.80      | CNS TB NEC-UNSPEC        |
| ICD-9-CM             | 013.81      | CNS TB NEC-NO EXAM       |
| ICD-9-CM             | 013.82      | CNS TB NEC-EXAM UNKN     |
| ICD-9-CM             | 013.83      | CNS TB NEC-MICRO DX      |
| ICD-9-CM             | 013.84      | CNS TB NEC-CULT DX       |
| ICD-9-CM             | 013.85      | CNS TB NEC-HISTO DX      |
| ICD-9-CM             | 013.86      | CNS TB NEC-OTH TEST      |
| ICD-9-CM             | 013.90      | CNS TB NOS-UNSPEC        |
| ICD-9-CM             | 013.91      | CNS TB NOS-NO EXAM       |
| ICD-9-CM             | 013.92      | CNS TB NOS-EXAM UNKN     |
| ICD-9-CM             | 013.93      | CNS TB NOS-MICRO DX      |
| ICD-9-CM             | 013.94      | CNS TB NOS-CULT DX       |
| ICD-9-CM             | 013.95      | CNS TB NOS-HISTO DX      |
| ICD-9-CM             | 013.96      | CNS TB NOS-OTH TEST      |
| ICD-9-CM             | 014.00      | TB PERITONITIS-UNSPEC    |
| ICD-9-CM             | 014.01      | TB PERITONITIS-NO EXAM   |
| ICD-9-CM             | 014.02      | TB PERITONITIS-EXAM UNKN |
| ICD-9-CM             | 014.03      | TB PERITONITIS-MICRO DX  |
| ICD-9-CM             | 014.04      | TB PERITONITIS-CULT DX   |
| ICD-9-CM             | 014.05      | TB PERITONITIS-HISTO DX  |
| ICD-9-CM             | 014.06      | TB PERITONITIS-OTH TEST  |
| ICD-9-CM             | 014.80      | INTESTINAL TB NEC-UNSPEC |
| ICD-9-CM             | 014.81      | INTESTIN TB NEC-NO EXAM  |
| ICD-9-CM             | 014.82      | INTEST TB NEC-EXAM UNKN  |
| ICD-9-CM             | 014.83      | INTESTIN TB NEC-MICRO DX |
| ICD-9-CM             | 014.84      | INTESTIN TB NEC-CULT DX  |
| ICD-9-CM             | 014.85      | INTESTIN TB NEC-HISTO DX |
| ICD-9-CM             | 014.86      | INTESTIN TB NEC-OTH TEST |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 015.00      | TB OF VERTEBRA-UNSPEC    |
| ICD-9-CM             | 015.01      | TB OF VERTEBRA-NO EXAM   |
| ICD-9-CM             | 015.02      | TB OF VERTEBRA-EXAM UNKN |
| ICD-9-CM             | 015.03      | TB OF VERTEBRA-MICRO DX  |
| ICD-9-CM             | 015.04      | TB OF VERTEBRA-CULT DX   |
| ICD-9-CM             | 015.05      | TB OF VERTEBRA-HISTO DX  |
| ICD-9-CM             | 015.06      | TB OF VERTEBRA-OTH TEST  |
| ICD-9-CM             | 015.10      | TB OF HIP-UNSPEC         |
| ICD-9-CM             | 015.11      | TB OF HIP-NO EXAM        |
| ICD-9-CM             | 015.12      | TB OF HIP-EXAM UNKN      |
| ICD-9-CM             | 015.13      | TB OF HIP-MICRO DX       |
| ICD-9-CM             | 015.14      | TB OF HIP-CULT DX        |
| ICD-9-CM             | 015.15      | TB OF HIP-HISTO DX       |
| ICD-9-CM             | 015.16      | TB OF HIP-OTH TEST       |
| ICD-9-CM             | 015.20      | TB OF KNEE-UNSPEC        |
| ICD-9-CM             | 015.21      | TB OF KNEE-NO EXAM       |
| ICD-9-CM             | 015.22      | TB OF KNEE-EXAM UNKN     |
| ICD-9-CM             | 015.23      | TB OF KNEE-MICRO DX      |
| ICD-9-CM             | 015.24      | TB OF KNEE-CULT DX       |
| ICD-9-CM             | 015.25      | TB OF KNEE-HISTO DX      |
| ICD-9-CM             | 015.26      | TB OF KNEE-OTH TEST      |
| ICD-9-CM             | 015.50      | TB OF LIMB BONES-UNSPEC  |
| ICD-9-CM             | 015.51      | TB LIMB BONES-NO EXAM    |
| ICD-9-CM             | 015.52      | TB LIMB BONES-EXAM UNKN  |
| ICD-9-CM             | 015.53      | TB LIMB BONES-MICRO DX   |
| ICD-9-CM             | 015.54      | TB LIMB BONES-CULT DX    |
| ICD-9-CM             | 015.55      | TB LIMB BONES-HISTO DX   |
| ICD-9-CM             | 015.56      | TB LIMB BONES-OTH TEST   |
| ICD-9-CM             | 015.60      | TB OF MASTOID-UNSPEC     |
| ICD-9-CM             | 015.61      | TB OF MASTOID-NO EXAM    |
| ICD-9-CM             | 015.62      | TB OF MASTOID-EXAM UNKN  |
| ICD-9-CM             | 015.63      | TB OF MASTOID-MICRO DX   |
| ICD-9-CM             | 015.64      | TB OF MASTOID-CULT DX    |
| ICD-9-CM             | 015.65      | TB OF MASTOID-HISTO DX   |
| ICD-9-CM             | 015.66      | TB OF MASTOID-OTH TEST   |
| ICD-9-CM             | 015.70      | TB OF BONE NEC-UNSPEC    |
| ICD-9-CM             | 015.71      | TB OF BONE NEC-NO EXAM   |
| ICD-9-CM             | 015.72      | TB OF BONE NEC-EXAM UNKN |
| ICD-9-CM             | 015.73      | TB OF BONE NEC-MICRO DX  |
| ICD-9-CM             | 015.74      | TB OF BONE NEC-CULT DX   |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 015.75      | TB OF BONE NEC-HISTO DX  |
| ICD-9-CM             | 015.76      | TB OF BONE NEC-OTH TEST  |
| ICD-9-CM             | 015.80      | TB OF JOINT NEC-UNSPEC   |
| ICD-9-CM             | 015.81      | TB OF JOINT NEC-NO EXAM  |
| ICD-9-CM             | 015.82      | TB JOINT NEC-EXAM UNKN   |
| ICD-9-CM             | 015.83      | TB OF JOINT NEC-MICRO DX |
| ICD-9-CM             | 015.84      | TB OF JOINT NEC-CULT DX  |
| ICD-9-CM             | 015.85      | TB OF JOINT NEC-HISTO DX |
| ICD-9-CM             | 015.86      | TB OF JOINT NEC-OTH TEST |
| ICD-9-CM             | 015.90      | TB BONE/JOINT NOS-UNSPEC |
| ICD-9-CM             | 015.91      | TB BONE/JT NOS-NO EXAM   |
| ICD-9-CM             | 015.92      | TB BONE/JT NOS-EXAM UNKN |
| ICD-9-CM             | 015.93      | TB BONE/JT NOS-MICRO DX  |
| ICD-9-CM             | 015.94      | TB BONE/JT NOS-CULT DX   |
| ICD-9-CM             | 015.95      | TB BONE/JT NOS-HISTO DX  |
| ICD-9-CM             | 015.96      | TB BONE/JT NOS-OTH TEST  |
| ICD-9-CM             | 016.00      | TB OF KIDNEY-UNSPEC      |
| ICD-9-CM             | 016.01      | TB OF KIDNEY-NO EXAM     |
| ICD-9-CM             | 016.02      | TB OF KIDNEY-EXAM UNKN   |
| ICD-9-CM             | 016.03      | TB OF KIDNEY-MICRO DX    |
| ICD-9-CM             | 016.04      | TB OF KIDNEY-CULT DX     |
| ICD-9-CM             | 016.05      | TB OF KIDNEY-HISTO DX    |
| ICD-9-CM             | 016.06      | TB OF KIDNEY-OTH TEST    |
| ICD-9-CM             | 016.10      | TB OF BLADDER-UNSPEC     |
| ICD-9-CM             | 016.11      | TB OF BLADDER-NO EXAM    |
| ICD-9-CM             | 016.12      | TB OF BLADDER-EXAM UNKN  |
| ICD-9-CM             | 016.13      | TB OF BLADDER-MICRO DX   |
| ICD-9-CM             | 016.14      | TB OF BLADDER-CULT DX    |
| ICD-9-CM             | 016.15      | TB OF BLADDER-HISTO DX   |
| ICD-9-CM             | 016.16      | TB OF BLADDER-OTH TEST   |
| ICD-9-CM             | 016.20      | TB OF URETER-UNSPEC      |
| ICD-9-CM             | 016.21      | TB OF URETER-NO EXAM     |
| ICD-9-CM             | 016.22      | TB OF URETER-EXAM UNKN   |
| ICD-9-CM             | 016.23      | TB OF URETER-MICRO DX    |
| ICD-9-CM             | 016.24      | TB OF URETER-CULT DX     |
| ICD-9-CM             | 016.25      | TB OF URETER-HISTO DX    |
| ICD-9-CM             | 016.26      | TB OF URETER-OTH TEST    |
| ICD-9-CM             | 016.30      | TB URINARY NEC-UNSPEC    |
| ICD-9-CM             | 016.31      | TB URINARY NEC-NO EXAM   |
| ICD-9-CM             | 016.32      | TB URINARY NEC-EXAM UNKN |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 016.33      | TB URINARY NEC-MICRO DX  |
| ICD-9-CM             | 016.34      | TB URINARY NEC-CULT DX   |
| ICD-9-CM             | 016.35      | TB URINARY NEC-HISTO DX  |
| ICD-9-CM             | 016.36      | TB URINARY NEC-OTH TEST  |
| ICD-9-CM             | 016.40      | TB EPIDIDYMIS-UNSPEC     |
| ICD-9-CM             | 016.41      | TB EPIDIDYMIS-NO EXAM    |
| ICD-9-CM             | 016.42      | TB EPIDIDYMIS-EXAM UNKN  |
| ICD-9-CM             | 016.43      | TB EPIDIDYMIS-MICRO DX   |
| ICD-9-CM             | 016.44      | TB EPIDIDYMIS-CULT DX    |
| ICD-9-CM             | 016.45      | TB EPIDIDYMIS-HISTO DX   |
| ICD-9-CM             | 016.46      | TB EPIDIDYMIS-OTH TEST   |
| ICD-9-CM             | 016.50      | TB MALE GENIT NEC-UNSPEC |
| ICD-9-CM             | 016.51      | TB MALE GEN NEC-NO EXAM  |
| ICD-9-CM             | 016.52      | TB MALE GEN NEC-EX UNKN  |
| ICD-9-CM             | 016.53      | TB MALE GEN NEC-MICRO DX |
| ICD-9-CM             | 016.54      | TB MALE GEN NEC-CULT DX  |
| ICD-9-CM             | 016.55      | TB MALE GEN NEC-HISTO DX |
| ICD-9-CM             | 016.56      | TB MALE GEN NEC-OTH TEST |
| ICD-9-CM             | 016.60      | TB OVARY & TUBE-UNSPEC   |
| ICD-9-CM             | 016.61      | TB OVARY & TUBE-NO EXAM  |
| ICD-9-CM             | 016.62      | TB OVARY/TUBE-EXAM UNKN  |
| ICD-9-CM             | 016.63      | TB OVARY & TUBE-MICRO DX |
| ICD-9-CM             | 016.64      | TB OVARY & TUBE-CULT DX  |
| ICD-9-CM             | 016.65      | TB OVARY & TUBE-HISTO DX |
| ICD-9-CM             | 016.66      | TB OVARY & TUBE-OTH TEST |
| ICD-9-CM             | 016.70      | TB FEMALE GEN NEC-UNSPEC |
| ICD-9-CM             | 016.71      | TB FEM GEN NEC-NO EXAM   |
| ICD-9-CM             | 016.72      | TB FEM GEN NEC-EXAM UNKN |
| ICD-9-CM             | 016.73      | TB FEM GEN NEC-MICRO DX  |
| ICD-9-CM             | 016.74      | TB FEM GEN NEC-CULT DX   |
| ICD-9-CM             | 016.75      | TB FEM GEN NEC-HISTO DX  |
| ICD-9-CM             | 016.76      | TB FEM GEN NEC-OTH TEST  |
| ICD-9-CM             | 016.90      | GU TB NOS-UNSPEC         |
| ICD-9-CM             | 016.91      | GU TB NOS-NO EXAM        |
| ICD-9-CM             | 016.92      | GU TB NOS-EXAM UNKN      |
| ICD-9-CM             | 016.93      | GU TB NOS-MICRO DX       |
| ICD-9-CM             | 016.94      | GU TB NOS-CULT DX        |
| ICD-9-CM             | 016.95      | GU TB NOS-HISTO DX       |
| ICD-9-CM             | 016.96      | GU TB NOS-OTH TEST       |
| ICD-9-CM             | 017.00      | TB SKIN/SUBCUTAN-UNSPEC  |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 017.01 | TB SKIN/SUBCUT-NO EXAM   |
| ICD-9-CM      | 017.02 | TB SKIN/SUBCUT-EXAM UNKN |
| ICD-9-CM      | 017.03 | TB SKIN/SUBCUT-MICRO DX  |
| ICD-9-CM      | 017.04 | TB SKIN/SUBCUT-CULT DX   |
| ICD-9-CM      | 017.05 | TB SKIN/SUBCUT-HISTO DX  |
| ICD-9-CM      | 017.06 | TB SKIN/SUBCUT-OTH TEST  |
| ICD-9-CM      | 017.10 | ERYTHEMA NODOS TB-UNSPEC |
| ICD-9-CM      | 017.11 | ERYTHEM NODOS TB-NO EXAM |
| ICD-9-CM      | 017.12 | ERYTHEM NOD TB-EXAM UNKN |
| ICD-9-CM      | 017.13 | ERYTHEM NOD TB-MICRO DX  |
| ICD-9-CM      | 017.14 | ERYTHEM NODOS TB-CULT DX |
| ICD-9-CM      | 017.15 | ERYTHEM NOD TB-HISTO DX  |
| ICD-9-CM      | 017.16 | ERYTHEM NOD TB-OTH TEST  |
| ICD-9-CM      | 017.20 | TB PERIPH LYMPH-UNSPEC   |
| ICD-9-CM      | 017.21 | TB PERIPH LYMPH-NO EXAM  |
| ICD-9-CM      | 017.22 | TB PERIPH LYMPH-EXAM UNK |
| ICD-9-CM      | 017.23 | TB PERIPH LYMPH-MICRO DX |
| ICD-9-CM      | 017.24 | TB PERIPH LYMPH-CULT DX  |
| ICD-9-CM      | 017.25 | TB PERIPH LYMPH-HISTO DX |
| ICD-9-CM      | 017.26 | TB PERIPH LYMPH-OTH TEST |
| ICD-9-CM      | 017.30 | TB OF EYE-UNSPEC         |
| ICD-9-CM      | 017.31 | TB OF EYE-NO EXAM        |
| ICD-9-CM      | 017.32 | TB OF EYE-EXAM UNKN      |
| ICD-9-CM      | 017.33 | TB OF EYE-MICRO DX       |
| ICD-9-CM      | 017.34 | TB OF EYE-CULT DX        |
| ICD-9-CM      | 017.35 | TB OF EYE-HISTO DX       |
| ICD-9-CM      | 017.36 | TB OF EYE-OTH TEST       |
| ICD-9-CM      | 017.40 | TB OF EAR-UNSPEC         |
| ICD-9-CM      | 017.41 | TB OF EAR-NO EXAM        |
| ICD-9-CM      | 017.42 | TB OF EAR-EXAM UNKN      |
| ICD-9-CM      | 017.43 | TB OF EAR-MICRO DX       |
| ICD-9-CM      | 017.44 | TB OF EAR-CULT DX        |
| ICD-9-CM      | 017.45 | TB OF EAR-HISTO DX       |
| ICD-9-CM      | 017.46 | TB OF EAR-OTH TEST       |
| ICD-9-CM      | 017.50 | TB OF THYROID-UNSPEC     |
| ICD-9-CM      | 017.51 | TB OF THYROID-NO EXAM    |
| ICD-9-CM      | 017.52 | TB OF THYROID-EXAM UNKN  |
| ICD-9-CM      | 017.53 | TB OF THYROID-MICRO DX   |
| ICD-9-CM      | 017.54 | TB OF THYROID-CULT DX    |
| ICD-9-CM      | 017.55 | TB OF THYROID-HISTO DX   |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 017.56      | TB OF THYROID-OTH TEST   |
| ICD-9-CM             | 017.60      | TB OF ADRENAL-UNSPEC     |
| ICD-9-CM             | 017.61      | TB OF ADRENAL-NO EXAM    |
| ICD-9-CM             | 017.62      | TB OF ADRENAL-EXAM UNKN  |
| ICD-9-CM             | 017.63      | TB OF ADRENAL-MICRO DX   |
| ICD-9-CM             | 017.64      | TB OF ADRENAL-CULT DX    |
| ICD-9-CM             | 017.65      | TB OF ADRENAL-HISTO DX   |
| ICD-9-CM             | 017.66      | TB OF ADRENAL-OTH TEST   |
| ICD-9-CM             | 017.70      | TB OF SPLEEN-UNSPEC      |
| ICD-9-CM             | 017.71      | TB OF SPLEEN-NO EXAM     |
| ICD-9-CM             | 017.72      | TB OF SPLEEN-EXAM UNKN   |
| ICD-9-CM             | 017.73      | TB OF SPLEEN-MICRO DX    |
| ICD-9-CM             | 017.74      | TB OF SPLEEN-CULT DX     |
| ICD-9-CM             | 017.75      | TB OF SPLEEN-HISTO DX    |
| ICD-9-CM             | 017.76      | TB OF SPLEEN-OTH TEST    |
| ICD-9-CM             | 017.80      | TB ESOPHAGUS-UNSPEC      |
| ICD-9-CM             | 017.81      | TB ESOPHAGUS-NO EXAM     |
| ICD-9-CM             | 017.82      | TB ESOPHAGUS-EXAM UNKN   |
| ICD-9-CM             | 017.83      | TB ESOPHAGUS-MICRO DX    |
| ICD-9-CM             | 017.84      | TB ESOPHAGUS-CULT DX     |
| ICD-9-CM             | 017.85      | TB ESOPHAGUS-HISTO DX    |
| ICD-9-CM             | 017.86      | TB ESOPHAGUS-OTH TEST    |
| ICD-9-CM             | 017.90      | TB OF ORGAN NEC-UNSPEC   |
| ICD-9-CM             | 017.91      | TB OF ORGAN NEC-NO EXAM  |
| ICD-9-CM             | 017.92      | TB ORGAN NEC-EXAM UNKN   |
| ICD-9-CM             | 017.93      | TB OF ORGAN NEC-MICRO DX |
| ICD-9-CM             | 017.94      | TB OF ORGAN NEC-CULT DX  |
| ICD-9-CM             | 017.95      | TB OF ORGAN NEC-HISTO DX |
| ICD-9-CM             | 017.96      | TB OF ORGAN NEC-OTH TEST |
| ICD-9-CM             | 018.00      | ACUTE MILIARY TB-UNSPEC  |
| ICD-9-CM             | 018.01      | ACUTE MILIARY TB-NO EXAM |
| ICD-9-CM             | 018.02      | AC MILIARY TB-EXAM UNKN  |
| ICD-9-CM             | 018.03      | AC MILIARY TB-MICRO DX   |
| ICD-9-CM             | 018.04      | ACUTE MILIARY TB-CULT DX |
| ICD-9-CM             | 018.05      | AC MILIARY TB-HISTO DX   |
| ICD-9-CM             | 018.06      | AC MILIARY TB-OTH TEST   |
| ICD-9-CM             | 018.80      | MILIARY TB NEC-UNSPEC    |
| ICD-9-CM             | 018.81      | MILIARY TB NEC-NO EXAM   |
| ICD-9-CM             | 018.82      | MILIARY TB NEC-EXAM UNKN |
| ICD-9-CM             | 018.83      | MILIARY TB NEC-MICRO DX  |



| <b>Coding System</b> | <b>Code</b> | <b>Description</b>       |
|----------------------|-------------|--------------------------|
| ICD-9-CM             | 018.84      | MILIARY TB NEC-CULT DX   |
| ICD-9-CM             | 018.85      | MILIARY TB NEC-HISTO DX  |
| ICD-9-CM             | 018.86      | MILIARY TB NEC-OTH TEST  |
| ICD-9-CM             | 018.90      | MILIARY TB NOS-UNSPEC    |
| ICD-9-CM             | 018.91      | MILIARY TB NOS-NO EXAM   |
| ICD-9-CM             | 018.92      | MILIARY TB NOS-EXAM UNKN |
| ICD-9-CM             | 018.93      | MILIARY TB NOS-MICRO DX  |
| ICD-9-CM             | 018.94      | MILIARY TB NOS-CULT DX   |
| ICD-9-CM             | 018.95      | MILIARY TB NOS-HISTO DX  |
| ICD-9-CM             | 018.96      | MILIARY TB NOS-OTH TEST  |
| ICD-9-CM             | 031.0       | PULMONARY MYCOBACTERIA   |
| ICD-9-CM             | 031.1       | CUTANEOUS MYCOBACTERIA   |
| ICD-9-CM             | 031.9       | MYCOBACTERIAL DIS NOS    |
| ICD-9-CM             | 046.3       | PROG MULTIFOC LEUKOENCEP |
| ICD-9-CM             | 054.0       | ECZEMA HERPETICUM        |
| ICD-9-CM             | 054.10      | GENITAL HERPES NOS       |
| ICD-9-CM             | 054.11      | HERPETIC VULVOVAGINITIS  |
| ICD-9-CM             | 054.12      | HERPETIC ULCER OF VULVA  |
| ICD-9-CM             | 054.13      | HERPETIC INFECT OF PENIS |
| ICD-9-CM             | 054.19      | GENITAL HERPES NEC       |
| ICD-9-CM             | 054.2       | HERPETIC GINGIVOSTOMAT   |
| ICD-9-CM             | 054.3       | HERPETIC ENCEPHALITIS    |
| ICD-9-CM             | 054.40      | HERPES SIMPLEX EYE NOS   |
| ICD-9-CM             | 054.41      | HERPES SIMPLEX OF EYELID |
| ICD-9-CM             | 054.42      | DENDRITIC KERATITIS      |
| ICD-9-CM             | 054.43      | H SIMPLEX KERATITIS      |
| ICD-9-CM             | 054.44      | H SIMPLEX IRIDOCYCLITIS  |
| ICD-9-CM             | 054.49      | HERPES SIMPLEX EYE NEC   |
| ICD-9-CM             | 054.5       | HERPETIC SEPTICEMIA      |
| ICD-9-CM             | 054.6       | HERPETIC WHITLOW         |
| ICD-9-CM             | 054.71      | VISCERAL HERPES SIMPLEX  |
| ICD-9-CM             | 054.72      | H SIMPLEX MENINGITIS     |
| ICD-9-CM             | 054.73      | H SIMPLEX OTITIS EXTERNA |
| ICD-9-CM             | 054.79      | H SIMPLEX COMPLICAT NEC  |
| ICD-9-CM             | 054.8       | H SIMPLEX COMPLICAT NOS  |
| ICD-9-CM             | 054.9       | HERPES SIMPLEX NOS       |
| ICD-9-CM             | 078.5       | CYTOMEGALOVIRAL DISEASE  |
| ICD-9-CM             | 115.00      | HISTOPLASMA CAPSULAT NOS |
| ICD-9-CM             | 115.10      | HISTOPLASMA DUBOISII NOS |
| ICD-9-CM             | 115.90      | HISTOPLASMOSIS NOS       |

| Coding System | Code   | Description              |
|---------------|--------|--------------------------|
| ICD-9-CM      | 130.0  | TOXOPLASM MENINGOENCEPH  |
| ICD-9-CM      | 180.0  | MALIG NEO ENDOCERVIX     |
| ICD-9-CM      | 191.0  | MALIGN NEOPL CEREBRUM    |
| ICD-9-CM      | 196.0  | MAL NEO LYMPH-HEAD/NECK  |
| ICD-9-CM      | 200.20 | BRKT TMR UNSP XTRNDL ORG |
| ICD-9-CM      | 200.80 | OTH VARN UNSP XTRNDL ORG |
| ICD-9-CM      | 202.80 | OTH LYMP UNSP XTRNDL ORG |
| ICD-9-CM      | 261.   | NUTRITIONAL MARASMUS     |
| ICD-9-CM      | 480.0  | ADENOVIRAL PNEUMONIA     |
| ICD-9-CM      | 482.0  | K. PNEUMONIAE PNEUMONIA  |
| ICD-9-CM      | 487.0  | INFLUENZA WITH PNEUMONIA |
| ICD-9-CM      | 482.80 | LEGIONNAIRE'S DISEASE    |
| ICD-9-CM      | 482.89 | PNEUMONIA OTH SPCF BACT  |
| ICD-9-CM      | 176.0  | SKIN - KAPOSIS SARCOMA   |
| ICD-9-CM      | 176.1  | SFT TISSUE - KPSIS SRCMA |
| ICD-9-CM      | 176.2  | PALATE - KPSIS SARCOMA   |
| ICD-9-CM      | 176.3  | GI SITES - KPSIS SRCOMA  |
| ICD-9-CM      | 176.4  | LUNG - KAPOSIS SARCOMA   |
| ICD-9-CM      | 176.5  | LYM NDS - KPSIS SARCOMA  |
| ICD-9-CM      | 176.8  | SPF STS - KPSIS SARCOMA  |
| ICD-9-CM      | 176.9  | KAPOSIS SARCOMA NOS      |
| ICD-9-CM      | 112.84 | CANDIDAL ESOPHAGITIS     |
| ICD-9-CM      | 482.30 | STREPTOCOCCAL PNEUMN NOS |
| ICD-9-CM      | 482.31 | PNEUMONIA STRPTOCOCCUS A |
| ICD-9-CM      | 482.32 | PNEUMONIA STRPTOCOCCUS B |
| ICD-9-CM      | 482.39 | PNEUMONIA OTH STREP      |
| ICD-9-CM      | 482.81 | PNEUMONIA ANAEROBES      |
| ICD-9-CM      | 482.82 | PNEUMONIA E COLI         |
| ICD-9-CM      | 482.83 | PNEUMO OTH GRM-NEG BACT  |
| ICD-9-CM      | 483.0  | PNEU MYCPLSM PNEUMONIAE  |
| ICD-9-CM      | 483.8  | PNEUMON OTH SPEC ORGNSM  |
| ICD-9-CM      | 483.1  | PNEUMONIA D/T CHLAMYDIA  |
| ICD-9-CM      | 007.4  | CRYPTOSPORIDIOSIS        |
| ICD-9-CM      | 031.2  | DMAC BACTEREMIA          |
| ICD-9-CM      | 482.84 | LEGIONNAIRES' DISEASE    |
| ICD-9-CM      | 482.40 | STAPHYLOCOCCAL PNEU NOS  |
| ICD-9-CM      | 482.41 | METH SUS PNEUM D/T STAPH |
| ICD-9-CM      | 482.49 | STAPH PNEUMONIA NEC      |
| ICD-9-CM      | 348.30 | ENCEPHALOPATHY NOS       |
| ICD-9-CM      | 348.31 | METABOLIC ENCEPHALOPATHY |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>                                |
|----------------------|-------------|---|
| ICD-9-CM             | 348.39      | ENCEPHALOPATHY NEC                                |
| ICD-9-CM             | 480.31      | PNEUMONIA SARS CORONAVIRUS                        |
| ICD-9-CM             | 054.74      | HERPES SIMPLEX MYELITIS                           |
| ICD-9-CM             | 482.42      | METH RES PNEU D/T STAPH                           |
| ICD-9-CM             | 480.3       | PNEUMONIA DUE TO SARS                             |
| ICD-10-CM            | A02.1       | Salmonella sepsis                                 |
| ICD-10-CM            | A07.2       | Cryptosporidiosis                                 |
| ICD-10-CM            | A07.3       | Isosporiasis                                      |
| ICD-10-CM            | A15.0       | Tuberculosis of lung                              |
| ICD-10-CM            | A15.4       | Tuberculosis of intrathoracic lymph nodes         |
| ICD-10-CM            | A15.5       | Tuberculosis of larynx, trachea and bronchus      |
| ICD-10-CM            | A15.6       | Tuberculous pleurisy                              |
| ICD-10-CM            | A15.7       | Primary respiratory tuberculosis                  |
| ICD-10-CM            | A15.8       | Other respiratory tuberculosis                    |
| ICD-10-CM            | A15.9       | Respiratory tuberculosis unspecified              |
| ICD-10-CM            | A17.0       | Tuberculous meningitis                            |
| ICD-10-CM            | A17.1       | Meningeal tuberculoma                             |
| ICD-10-CM            | A17.81      | Tuberculoma of brain and spinal cord              |
| ICD-10-CM            | A17.82      | Tuberculous meningoencephalitis                   |
| ICD-10-CM            | A17.83      | Tuberculous neuritis                              |
| ICD-10-CM            | A17.89      | Other tuberculosis of nervous system              |
| ICD-10-CM            | A17.9       | Tuberculosis of nervous system, unspecified       |
| ICD-10-CM            | A18.01      | Tuberculosis of spine                             |
| ICD-10-CM            | A18.02      | Tuberculous arthritis of other joints             |
| ICD-10-CM            | A18.03      | Tuberculosis of other bones                       |
| ICD-10-CM            | A18.09      | Other musculoskeletal tuberculosis                |
| ICD-10-CM            | A18.10      | Tuberculosis of genitourinary system, unspecified |
| ICD-10-CM            | A18.11      | Tuberculosis of kidney and ureter                 |
| ICD-10-CM            | A18.12      | Tuberculosis of bladder                           |
| ICD-10-CM            | A18.13      | Tuberculosis of other urinary organs              |
| ICD-10-CM            | A18.14      | Tuberculosis of prostate                          |
| ICD-10-CM            | A18.15      | Tuberculosis of other male genital organs         |
| ICD-10-CM            | A18.16      | Tuberculosis of cervix                            |
| ICD-10-CM            | A18.17      | Tuberculous female pelvic inflammatory disease    |
| ICD-10-CM            | A18.18      | Tuberculosis of other female genital organs       |
| ICD-10-CM            | A18.2       | Tuberculous peripheral lymphadenopathy            |
| ICD-10-CM            | A18.31      | Tuberculous peritonitis                           |
| ICD-10-CM            | A18.32      | Tuberculous enteritis                             |
| ICD-10-CM            | A18.39      | Retroperitoneal tuberculosis                      |
| ICD-10-CM            | A18.4       | Tuberculosis of skin and subcutaneous tissue      |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>                                       |
|----------------------|-------------|--|
| ICD-10-CM            | A18.50      | Tuberculosis of eye, unspecified                         |
| ICD-10-CM            | A18.51      | Tuberculous episcleritis                                 |
| ICD-10-CM            | A18.52      | Tuberculous keratitis                                    |
| ICD-10-CM            | A18.53      | Tuberculous chorioretinitis                              |
| ICD-10-CM            | A18.54      | Tuberculous iridocyclitis                                |
| ICD-10-CM            | A18.59      | Other tuberculosis of eye                                |
| ICD-10-CM            | A18.6       | Tuberculosis of (inner) (middle) ear                     |
| ICD-10-CM            | A18.7       | Tuberculosis of adrenal glands                           |
| ICD-10-CM            | A18.81      | Tuberculosis of thyroid gland                            |
| ICD-10-CM            | A18.82      | Tuberculosis of other endocrine glands                   |
| ICD-10-CM            | A18.83      | Tuberculosis of digestive tract organs, NEC              |
| ICD-10-CM            | A18.84      | Tuberculosis of heart                                    |
| ICD-10-CM            | A18.85      | Tuberculosis of spleen                                   |
| ICD-10-CM            | A18.89      | Tuberculosis of other sites                              |
| ICD-10-CM            | A19.0       | Acute miliary tuberculosis of a single specified site    |
| ICD-10-CM            | A19.1       | Acute miliary tuberculosis of multiple sites             |
| ICD-10-CM            | A19.2       | Acute miliary tuberculosis, unspecified                  |
| ICD-10-CM            | A19.8       | Other miliary tuberculosis                               |
| ICD-10-CM            | A19.9       | Miliary tuberculosis, unspecified                        |
| ICD-10-CM            | A22.1       | Pulmonary anthrax  |
| ICD-10-CM            | A31.0       | Pulmonary mycobacterial infection                        |
| ICD-10-CM            | A31.1       | Cutaneous mycobacterial infection                        |
| ICD-10-CM            | A31.2       | Dissem mycobacterium avium-intracellulare complex (DMAC) |
| ICD-10-CM            | A31.9       | Mycobacterial infection, unspecified                     |
| ICD-10-CM            | A48.1       | Legionnaires' disease                                    |
| ICD-10-CM            | A60.00      | Herpesviral infection of urogenital system, unspecified  |
| ICD-10-CM            | A60.01      | Herpesviral infection of penis                           |
| ICD-10-CM            | A60.02      | Herpesviral infection of other male genital organs       |
| ICD-10-CM            | A60.03      | Herpesviral cervicitis                                   |
| ICD-10-CM            | A60.04      | Herpesviral vulvovaginitis                               |
| ICD-10-CM            | A60.09      | Herpesviral infection of other urogenital tract          |
| ICD-10-CM            | A60.1       | Herpesviral infection of perianal skin and rectum        |
| ICD-10-CM            | A60.9       | Anogenital herpesviral infection, unspecified            |
| ICD-10-CM            | A81.2       | Progressive multifocal leukoencephalopathy               |
| ICD-10-CM            | B00.0       | Eczema herpeticum  |
| ICD-10-CM            | B00.1       | Herpesviral vesicular dermatitis                         |
| ICD-10-CM            | B00.2       | Herpesviral gingivostomatitis and pharyngotonsillitis    |
| ICD-10-CM            | B00.3       | Herpesviral meningitis                                   |
| ICD-10-CM            | B00.4       | Herpesviral encephalitis                                 |
| ICD-10-CM            | B00.50      | Herpesviral ocular disease, unspecified                  |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>                              |
|----------------------|-------------|---|
| ICD-10-CM            | B00.51      | Herpesviral iridocyclitis                       |
| ICD-10-CM            | B00.52      | Herpesviral keratitis                           |
| ICD-10-CM            | B00.53      | Herpesviral conjunctivitis                      |
| ICD-10-CM            | B00.59      | Other herpesviral disease of eye                |
| ICD-10-CM            | B00.7       | Disseminated herpesviral disease                |
| ICD-10-CM            | B00.81      | Herpesviral hepatitis                           |
| ICD-10-CM            | B00.82      | Herpes simplex myelitis                         |
| ICD-10-CM            | B00.89      | Other herpesviral infection                     |
| ICD-10-CM            | B00.9       | Herpesviral infection, unspecified              |
| ICD-10-CM            | B20.        | Human immunodeficiency virus [HIV] disease      |
| ICD-10-CM            | B25.0       | Cytomegaloviral pneumonitis                     |
| ICD-10-CM            | B25.1       | Cytomegaloviral hepatitis                       |
| ICD-10-CM            | B25.2       | Cytomegaloviral pancreatitis                    |
| ICD-10-CM            | B25.8       | Other cytomegaloviral diseases                  |
| ICD-10-CM            | B25.9       | Cytomegaloviral disease, unspecified            |
| ICD-10-CM            | B37.1       | Pulmonary candidiasis                           |
| ICD-10-CM            | B37.89      | Other sites of candidiasis                      |
| ICD-10-CM            | B37.9       | Candidiasis, unspecified                        |
| ICD-10-CM            | B38.3       | Cutaneous coccidioidomycosis                    |
| ICD-10-CM            | B38.4       | Coccidioidomycosis meningitis                   |
| ICD-10-CM            | B38.7       | Disseminated coccidioidomycosis                 |
| ICD-10-CM            | B38.81      | Prostatic coccidioidomycosis                    |
| ICD-10-CM            | B38.89      | Other forms of coccidioidomycosis               |
| ICD-10-CM            | B39.0       | Acute pulmonary histoplasmosis capsulati        |
| ICD-10-CM            | B39.1       | Chronic pulmonary histoplasmosis capsulati      |
| ICD-10-CM            | B39.2       | Pulmonary histoplasmosis capsulati, unspecified |
| ICD-10-CM            | B39.3       | Disseminated histoplasmosis capsulati           |
| ICD-10-CM            | B39.4       | Histoplasmosis capsulati, unspecified           |
| ICD-10-CM            | B39.5       | Histoplasmosis duboisii                         |
| ICD-10-CM            | B39.9       | Histoplasmosis, unspecified                     |
| ICD-10-CM            | B44.0       | Invasive pulmonary aspergillosis                |
| ICD-10-CM            | B45.0       | Pulmonary cryptococcosis                        |
| ICD-10-CM            | B45.1       | Cerebral cryptococcosis                         |
| ICD-10-CM            | B45.2       | Cutaneous cryptococcosis                        |
| ICD-10-CM            | B45.3       | Osseous cryptococcosis                          |
| ICD-10-CM            | B45.7       | Disseminated cryptococcosis                     |
| ICD-10-CM            | B45.8       | Other forms of cryptococcosis                   |
| ICD-10-CM            | B45.9       | Cryptococcosis, unspecified                     |
| ICD-10-CM            | B58.00      | Toxoplasma oculopathy, unspecified              |
| ICD-10-CM            | B58.01      | Toxoplasma chorioretinitis                      |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>   |
|----------------------|-------------|--|
| ICD-10-CM            | B58.09      | Other toxoplasma oculopathy                                  |
| ICD-10-CM            | B58.1       | Toxoplasma hepatitis   |
| ICD-10-CM            | B58.2       | Toxoplasma meningoencephalitis                               |
| ICD-10-CM            | B58.3       | Pulmonary toxoplasmosis                                      |
| ICD-10-CM            | B58.81      | Toxoplasma myocarditis                                       |
| ICD-10-CM            | B58.82      | Toxoplasma myositis  |
| ICD-10-CM            | B58.83      | Toxoplasma tubulo-interstitial nephropathy                   |
| ICD-10-CM            | B58.89      | Toxoplasmosis with other organ involvement                   |
| ICD-10-CM            | B58.9       | Toxoplasmosis, unspecified                                   |
| ICD-10-CM            | B59.        | Pneumocystosis   |
| ICD-10-CM            | B77.81      | Ascariasis pneumonia   |
| ICD-10-CM            | C46.0       | Kaposi's sarcoma of skin                                     |
| ICD-10-CM            | C46.1       | Kaposi's sarcoma of soft tissue                              |
| ICD-10-CM            | C46.2       | Kaposi's sarcoma of palate                                   |
| ICD-10-CM            | C46.3       | Kaposi's sarcoma of lymph nodes                              |
| ICD-10-CM            | C46.4       | Kaposi's sarcoma of gastrointestinal sites                   |
| ICD-10-CM            | C46.50      | Kaposi's sarcoma of unspecified lung                         |
| ICD-10-CM            | C46.51      | Kaposi's sarcoma of right lung                               |
| ICD-10-CM            | C46.52      | Kaposi's sarcoma of left lung                                |
| ICD-10-CM            | C46.7       | Kaposi's sarcoma of other sites                              |
| ICD-10-CM            | C46.9       | Kaposi's sarcoma, unspecified                                |
| ICD-10-CM            | C53.0       | Malignant neoplasm of endocervix                             |
| ICD-10-CM            | C53.1       | Malignant neoplasm of exocervix                              |
| ICD-10-CM            | C53.8       | Malignant neoplasm of overlapping sites of cervix uteri      |
| ICD-10-CM            | C53.9       | Malignant neoplasm of cervix uteri, unspecified              |
| ICD-10-CM            | C71.0       | Malignant neoplasm of cerebrum, except lobes and ventricles  |
| ICD-10-CM            | C71.1       | Malignant neoplasm of frontal lobe                           |
| ICD-10-CM            | C71.2       | Malignant neoplasm of temporal lobe                          |
| ICD-10-CM            | C71.3       | Malignant neoplasm of parietal lobe                          |
| ICD-10-CM            | C71.4       | Malignant neoplasm of occipital lobe                         |
| ICD-10-CM            | C71.5       | Malignant neoplasm of cerebral ventricle                     |
| ICD-10-CM            | C71.6       | Malignant neoplasm of cerebellum                             |
| ICD-10-CM            | C71.7       | Malignant neoplasm of brain stem                             |
| ICD-10-CM            | C71.8       | Malignant neoplasm of overlapping sites of brain             |
| ICD-10-CM            | C71.9       | Malignant neoplasm of brain, unspecified                     |
| ICD-10-CM            | C77.0       | Sec and unsp malig neoplasm of nodes of head, face and neck  |
| ICD-10-CM            | C77.1       | Secondary and unsp malignant neoplasm of intrathorac nodes   |
| ICD-10-CM            | C77.2       | Secondary and unsp malignant neoplasm of intra-abd nodes     |
| ICD-10-CM            | C77.3       | Sec and unsp malig neoplasm of axilla and upper limb nodes   |
| ICD-10-CM            | C77.4       | Sec and unsp malig neoplasm of inguinal and lower limb nodes |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>   |
|----------------------|-------------|--|
| ICD-10-CM            | C77.5       | Secondary and unsp malignant neoplasm of intrapelv nodes     |
| ICD-10-CM            | C77.8       | Sec and unsp malig neoplasm of nodes of multiple regions     |
| ICD-10-CM            | C77.9       | Secondary and unsp malignant neoplasm of lymph node, unsp    |
| ICD-10-CM            | C82.50      | Diffuse follicle center lymphoma, unspecified site           |
| ICD-10-CM            | C82.51      | Diffuse folicl center lymph, nodes of head, face, and neck   |
| ICD-10-CM            | C82.52      | Diffuse follicle center lymphoma, intrathoracic lymph nodes  |
| ICD-10-CM            | C82.53      | Diffuse follicle center lymphoma, intra-abd lymph nodes      |
| ICD-10-CM            | C82.54      | Diffuse folicl center lymph, nodes of axilla and upper limb  |
| ICD-10-CM            | C82.55      | Diffus folicl cntr lymph, nodes of ing region and lower limb |
| ICD-10-CM            | C82.56      | Diffuse follicle center lymphoma, intrapelvic lymph nodes    |
| ICD-10-CM            | C82.57      | Diffuse follicle center lymphoma, spleen                     |
| ICD-10-CM            | C82.58      | Diffuse follicle center lymphoma, lymph nodes mult site      |
| ICD-10-CM            | C82.59      | Diffuse folicl center lymph, extrnod and solid organ sites   |
| ICD-10-CM            | C83.00      | Small cell B-cell lymphoma, unspecified site                 |
| ICD-10-CM            | C83.01      | Small cell B-cell lymphoma, nodes of head, face, and neck    |
| ICD-10-CM            | C83.02      | Small cell B-cell lymphoma, intrathoracic lymph nodes        |
| ICD-10-CM            | C83.03      | Small cell B-cell lymphoma, intra-abdominal lymph nodes      |
| ICD-10-CM            | C83.04      | Small cell B-cell lymphoma, nodes of axilla and upper limb   |
| ICD-10-CM            | C83.05      | Small cell B-cell lymph, nodes of ing region and lower limb  |
| ICD-10-CM            | C83.06      | Small cell B-cell lymphoma, intrapelvic lymph nodes          |
| ICD-10-CM            | C83.07      | Small cell B-cell lymphoma, spleen                           |
| ICD-10-CM            | C83.08      | Small cell B-cell lymphoma, lymph nodes of multiple sites    |
| ICD-10-CM            | C83.09      | Small cell B-cell lymphoma, extranodal and solid organ sites |
| ICD-10-CM            | C83.70      | Burkitt lymphoma, unspecified site                           |
| ICD-10-CM            | C83.71      | Burkitt lymphoma, lymph nodes of head, face, and neck        |
| ICD-10-CM            | C83.72      | Burkitt lymphoma, intrathoracic lymph nodes                  |
| ICD-10-CM            | C83.73      | Burkitt lymphoma, intra-abdominal lymph nodes                |
| ICD-10-CM            | C83.74      | Burkitt lymphoma, lymph nodes of axilla and upper limb       |
| ICD-10-CM            | C83.75      | Burkitt lymphoma, nodes of inguinal region and lower limb    |
| ICD-10-CM            | C83.76      | Burkitt lymphoma, intrapelvic lymph nodes                    |
| ICD-10-CM            | C83.77      | Burkitt lymphoma, spleen                                     |
| ICD-10-CM            | C83.78      | Burkitt lymphoma, lymph nodes of multiple sites              |
| ICD-10-CM            | C83.79      | Burkitt lymphoma, extranodal and solid organ sites           |
| ICD-10-CM            | C83.80      | Other non-follicular lymphoma, unspecified site              |
| ICD-10-CM            | C83.81      | Oth non-follic lymphoma, lymph nodes of head, face, and neck |
| ICD-10-CM            | C83.82      | Other non-follicular lymphoma, intrathoracic lymph nodes     |
| ICD-10-CM            | C83.83      | Other non-follicular lymphoma, intra-abdominal lymph nodes   |
| ICD-10-CM            | C83.84      | Oth non-follic lymphoma, nodes of axilla and upper limb      |
| ICD-10-CM            | C83.85      | Oth non-follic lymphoma, nodes of ing region and lower limb  |
| ICD-10-CM            | C83.86      | Other non-follicular lymphoma, intrapelvic lymph nodes       |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>   |
|----------------------|-------------|--|
| ICD-10-CM            | C83.87      | Other non-follicular lymphoma, spleen                        |
| ICD-10-CM            | C83.88      | Other non-follicular lymphoma, lymph nodes of multiple sites |
| ICD-10-CM            | C83.89      | Oth non-follic lymphoma, extranodal and solid organ sites    |
| ICD-10-CM            | C83.90      | Non-follicular (diffuse) lymphoma, unsp, unspecified site    |
| ICD-10-CM            | C83.91      | Non-follic lymphoma, unsp, nodes of head, face, and neck     |
| ICD-10-CM            | C83.92      | Non-follic (diffuse) lymphoma, unsp, intrathorac lymph nodes |
| ICD-10-CM            | C83.93      | Non-follic (diffuse) lymphoma, unsp, intra-abd lymph nodes   |
| ICD-10-CM            | C83.94      | Non-follic lymphoma, unsp, nodes of axilla and upper limb    |
| ICD-10-CM            | C83.95      | Non-follic lymph, unsp, nodes of ing region and lower limb   |
| ICD-10-CM            | C83.96      | Non-follic (diffuse) lymphoma, unsp, intrapelvic lymph nodes |
| ICD-10-CM            | C83.97      | Non-follicular (diffuse) lymphoma, unspecified, spleen       |
| ICD-10-CM            | C83.98      | Non-follic (diffuse) lymphoma, unsp, lymph nodes mult site   |
| ICD-10-CM            | C83.99      | Non-follic lymphoma, unsp, extrnod and solid organ sites     |
| ICD-10-CM            | C84.90      | Mature T/NK-cell lymphomas, unspecified, unspecified site    |
| ICD-10-CM            | C84.91      | Mature T/NK-cell lymph, unsp, nodes of head, face, and neck  |
| ICD-10-CM            | C84.92      | Mature T/NK-cell lymphomas, unsp, intrathoracic lymph nodes  |
| ICD-10-CM            | C84.93      | Mature T/NK-cell lymphomas, unsp, intra-abd lymph nodes      |
| ICD-10-CM            | C84.94      | Mature T/NK-cell lymph, unsp, nodes of axilla and upper limb |
| ICD-10-CM            | C84.95      | Mature T/NK-cell lymph, unsp, nodes of ing rgn and low limb  |
| ICD-10-CM            | C84.96      | Mature T/NK-cell lymphomas, unsp, intrapelvic lymph nodes    |
| ICD-10-CM            | C84.97      | Mature T/NK-cell lymphomas, unspecified, spleen              |
| ICD-10-CM            | C84.98      | Mature T/NK-cell lymphomas, unsp, lymph nodes mult site      |
| ICD-10-CM            | C84.99      | Mature T/NK-cell lymph, unsp, extrnod and solid organ sites  |
| ICD-10-CM            | C84.A0      | Cutaneous T-cell lymphoma, unspecified, unspecified site     |
| ICD-10-CM            | C84.A1      | Cutan T-cell lymphoma, unsp nodes of head, face, and neck    |
| ICD-10-CM            | C84.A2      | Cutaneous T-cell lymphoma, unsp, intrathoracic lymph nodes   |
| ICD-10-CM            | C84.A3      | Cutaneous T-cell lymphoma, unsp, intra-abdominal lymph nodes |
| ICD-10-CM            | C84.A4      | Cutan T-cell lymphoma, unsp, nodes of axilla and upper limb  |
| ICD-10-CM            | C84.A5      | Cutan T-cell lymph, unsp, nodes of ing region and lower limb |
| ICD-10-CM            | C84.A6      | Cutaneous T-cell lymphoma, unsp, intrapelvic lymph nodes     |
| ICD-10-CM            | C84.A7      | Cutaneous T-cell lymphoma, unspecified, spleen               |
| ICD-10-CM            | C84.A8      | Cutaneous T-cell lymphoma, unsp, lymph nodes mult site       |
| ICD-10-CM            | C84.A9      | Cutan T-cell lymphoma, unsp, extrnod and solid organ sites   |
| ICD-10-CM            | C84.Z0      | Other mature T/NK-cell lymphomas, unspecified site           |
| ICD-10-CM            | C84.Z1      | Oth mature T/NK-cell lymph, nodes of head, face, and neck    |
| ICD-10-CM            | C84.Z2      | Other mature T/NK-cell lymphomas, intrathoracic lymph nodes  |
| ICD-10-CM            | C84.Z3      | Oth mature T/NK-cell lymphomas, intra-abdominal lymph nodes  |
| ICD-10-CM            | C84.Z4      | Oth mature T/NK-cell lymph, nodes of axilla and upper limb   |
| ICD-10-CM            | C84.Z5      | Oth mature T/NK-cell lymph, nodes of ing rgn and lower limb  |
| ICD-10-CM            | C84.Z6      | Other mature T/NK-cell lymphomas, intrapelvic lymph nodes    |



| <b>Coding System</b> | <b>Code</b> | <b>Description</b>   |
|----------------------|-------------|--|
| ICD-10-CM            | C84.Z7      | Other mature T/NK-cell lymphomas, spleen                     |
| ICD-10-CM            | C84.Z8      | Oth mature T/NK-cell lymphomas, lymph nodes mult site        |
| ICD-10-CM            | C84.Z9      | Oth mature T/NK-cell lymph, extrnod and solid organ sites    |
| ICD-10-CM            | C85.10      | Unspecified B-cell lymphoma, unspecified site                |
| ICD-10-CM            | C85.11      | Unsp B-cell lymphoma, lymph nodes of head, face, and neck    |
| ICD-10-CM            | C85.12      | Unspecified B-cell lymphoma, intrathoracic lymph nodes       |
| ICD-10-CM            | C85.13      | Unspecified B-cell lymphoma, intra-abdominal lymph nodes     |
| ICD-10-CM            | C85.14      | Unsp B-cell lymphoma, lymph nodes of axilla and upper limb   |
| ICD-10-CM            | C85.15      | Unsp B-cell lymphoma, nodes of ing region and lower limb     |
| ICD-10-CM            | C85.16      | Unspecified B-cell lymphoma, intrapelvic lymph nodes         |
| ICD-10-CM            | C85.17      | Unspecified B-cell lymphoma, spleen                          |
| ICD-10-CM            | C85.18      | Unspecified B-cell lymphoma, lymph nodes of multiple sites   |
| ICD-10-CM            | C85.19      | Unsp B-cell lymphoma, extranodal and solid organ sites       |
| ICD-10-CM            | C85.20      | Mediastinal (thymic) large B-cell lymphoma, unspecified site |
| ICD-10-CM            | C85.21      | Mediastnl large B-cell lymph, nodes of head, face, and neck  |
| ICD-10-CM            | C85.22      | Mediastnl (thymic) large B-cell lymphoma, intrathorac nodes  |
| ICD-10-CM            | C85.23      | Mediastinal (thymic) large B-cell lymphoma, intra-abd nodes  |
| ICD-10-CM            | C85.24      | Mediastnl large B-cell lymph, nodes of axilla and upper limb |
| ICD-10-CM            | C85.25      | Mediastnl lg B-cell lymph, nodes of ing rgn and lower limb   |
| ICD-10-CM            | C85.26      | Mediastinal (thymic) large B-cell lymphoma, intrapelv nodes  |
| ICD-10-CM            | C85.27      | Mediastinal (thymic) large B-cell lymphoma, spleen           |
| ICD-10-CM            | C85.28      | Mediastinal (thymic) large B-cell lymphoma, nodes mult site  |
| ICD-10-CM            | C85.29      | Mediastnl large B-cell lymph, extrnod and solid organ sites  |
| ICD-10-CM            | C85.80      | Oth types of non-Hodgkin lymphoma, unspecified site          |
| ICD-10-CM            | C85.81      | Oth types of non-hodg lymph, nodes of head, face, and neck   |
| ICD-10-CM            | C85.82      | Oth types of non-Hodgkin lymphoma, intrathoracic lymph nodes |
| ICD-10-CM            | C85.83      | Oth types of non-Hodgkin lymphoma, intra-abd lymph nodes     |
| ICD-10-CM            | C85.84      | Oth types of non-hodg lymph, nodes of axilla and upper limb  |
| ICD-10-CM            | C85.85      | Oth types of non-hodg lymph, nodes of ing rgn and lower limb |
| ICD-10-CM            | C85.86      | Oth types of non-Hodgkin lymphoma, intrapelvic lymph nodes   |
| ICD-10-CM            | C85.87      | Other specified types of non-Hodgkin lymphoma, spleen        |
| ICD-10-CM            | C85.88      | Oth types of non-Hodgkin lymphoma, lymph nodes mult site     |
| ICD-10-CM            | C85.89      | Oth types of non-hodg lymph, extrnod and solid organ sites   |
| ICD-10-CM            | C85.90      | Non-Hodgkin lymphoma, unspecified, unspecified site          |
| ICD-10-CM            | C85.91      | Non-Hodgkin lymphoma, unsp, nodes of head, face, and neck    |
| ICD-10-CM            | C85.92      | Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes |
| ICD-10-CM            | C85.93      | Non-Hodgkin lymphoma, unsp, intra-abdominal lymph nodes      |
| ICD-10-CM            | C85.94      | Non-Hodgkin lymphoma, unsp, nodes of axilla and upper limb   |
| ICD-10-CM            | C85.95      | Non-hodg lymphoma, unsp, nodes of ing region and lower limb  |
| ICD-10-CM            | C85.96      | Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes   |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>   |
|----------------------|-------------|--|
| ICD-10-CM            | C85.97      | Non-Hodgkin lymphoma, unspecified, spleen                    |
| ICD-10-CM            | C85.98      | Non-Hodgkin lymphoma, unsp, lymph nodes of multiple sites    |
| ICD-10-CM            | C85.99      | Non-Hodgkin lymphoma, unsp, extranodal and solid organ sites |
| ICD-10-CM            | C86.0       | Extranodal NK/T-cell lymphoma, nasal type                    |
| ICD-10-CM            | C86.1       | Hepatosplenic T-cell lymphoma                                |
| ICD-10-CM            | C86.2       | Enteropathy-type (intestinal) T-cell lymphoma                |
| ICD-10-CM            | C86.3       | Subcutaneous panniculitis-like T-cell lymphoma               |
| ICD-10-CM            | C86.4       | Blastic NK-cell lymphoma                                     |
| ICD-10-CM            | C86.5       | Angioimmunoblastic T-cell lymphoma                           |
| ICD-10-CM            | C86.6       | Primary cutaneous CD30-positive T-cell proliferations        |
| ICD-10-CM            | E41.        | Nutritional marasmus   |
| ICD-10-CM            | G93.40      | Encephalopathy, unspecified                                  |
| ICD-10-CM            | G93.41      | Metabolic encephalopathy                                     |
| ICD-10-CM            | G93.49      | Other encephalopathy   |
| ICD-10-CM            | I67.83      | Posterior reversible encephalopathy syndrome                 |
| ICD-10-CM            | J10.00      | Flu due to oth ident flu virus w unsp type of pneumonia      |
| ICD-10-CM            | J10.08      | Influenza due to oth ident influenza virus w oth pneumonia   |
| ICD-10-CM            | J11.00      | Flu due to unidentified flu virus w unsp type of pneumonia   |
| ICD-10-CM            | J11.08      | Flu due to unidentified flu virus w specified pneumonia      |
| ICD-10-CM            | J12.0       | Adenoviral pneumonia   |
| ICD-10-CM            | J12.1       | Respiratory syncytial virus pneumonia                        |
| ICD-10-CM            | J12.2       | Parainfluenza virus pneumonia                                |
| ICD-10-CM            | J12.3       | Human metapneumovirus pneumonia                              |
| ICD-10-CM            | J12.81      | Pneumonia due to SARS-associated coronavirus                 |
| ICD-10-CM            | J12.89      | Other viral pneumonia  |
| ICD-10-CM            | J12.9       | Viral pneumonia, unspecified                                 |
| ICD-10-CM            | J13.        | Pneumonia due to Streptococcus pneumoniae                    |
| ICD-10-CM            | J14.        | Pneumonia due to Hemophilus influenzae                       |
| ICD-10-CM            | J15.0       | Pneumonia due to Klebsiella pneumoniae                       |
| ICD-10-CM            | J15.1       | Pneumonia due to Pseudomonas                                 |
| ICD-10-CM            | J15.20      | Pneumonia due to staphylococcus, unspecified                 |
| ICD-10-CM            | J15.211     | Pneumonia due to methicillin suscep staph                    |
| ICD-10-CM            | J15.212     | Pneumonia due to Methicillin resistant Staphylococcus aureus |
| ICD-10-CM            | J15.29      | Pneumonia due to other staphylococcus                        |
| ICD-10-CM            | J15.3       | Pneumonia due to streptococcus, group B                      |
| ICD-10-CM            | J15.4       | Pneumonia due to other streptococci                          |
| ICD-10-CM            | J15.5       | Pneumonia due to Escherichia coli                            |
| ICD-10-CM            | J15.6       | Pneumonia due to other aerobic Gram-negative bacteria        |
| ICD-10-CM            | J15.7       | Pneumonia due to Mycoplasma pneumoniae                       |
| ICD-10-CM            | J15.8       | Pneumonia due to other specified bacteria                    |

| <b>Coding System</b> | <b>Code</b> | <b>Description</b>                                    |
|----------------------|-------------|---|
| ICD-10-CM            | J15.9       | Unspecified bacterial pneumonia                       |
| ICD-10-CM            | J16.0       | Chlamydial pneumonia                                  |
| ICD-10-CM            | J16.8       | Pneumonia due to other specified infectious organisms |
| ICD-10-CM            | J17.        | Pneumonia in diseases classified elsewhere            |
| ICD-10-CM            | J18.0       | Bronchopneumonia, unspecified organism                |
| ICD-10-CM            | J18.1       | Lobar pneumonia, unspecified organism                 |
| ICD-10-CM            | J18.8       | Other pneumonia, unspecified organism                 |
| ICD-10-CM            | J18.9       | Pneumonia, unspecified organism                       |
| ICD-10-CM            | R64.        | Cachexia  |

## A.3 HIV/AIDS Definitions, Codes, Taxonomies, Attributes

Table updated as of 04/16/2015

The code definitions listed in the table should be located within RPMS PCC “V” files, as identified below:

CPT: 1) V CPT, CPT field; 2) if a procedure related to any radiology, also V Radiology, CPT Code field

ICD Diagnoses: 1) V POV, POV field; 2) also Problem List but only if specified in the individual definition below, (PROBLEM file, file number 9000011. .01 field is a pointer to ICD Diagnosis.

ICD Procedures: 1) V Procedure, Procedure field

LOINC: 1) V Lab, LOINC Code field

NDC: The NDC is not stored in the V MEDICATION file, get it by using the **.01** field which points to the DRUG file (file #50). There is a field in the drug file called **NDC**.

Site-Defined Lab Tests: 1) V Lab, Lab Test field

Site-Defined Medications: 1) V Medication, Medication field

Health Factors: 1) V Health Factors, Health Factor field

Dental (ADA) Code: V Dental, Service Code field, the .01 field called service code that points to the ADA code table

Patient Education: 1) V Patient Ed, Topic field

Clinic Codes: 1) V Visit, Clinic field -- .08 field in VISIT file is a pointer to the CLINIC STOP file, file 40.7 which has the name of the clinic and the code  
Immunization Codes: 1) V Immunization, the .01 field called immunization points to the standard immunization table

Exam Codes: 1) V Exam, Exam Code field

Provider Codes: 1) Visit Providers are entered into the V PROVIDER file. The .01 field (PROVIDER) points to file 200, the NEW PERSON file. The provider's discipline and codes can be found in file 200.

All of the codes contained in the listed taxonomies can be viewed from the View/Edit Taxonomy Entries screen - menu Tools->Taxonomy Maintenance.

Table A-3: DX ID, CPT, ICD, LOINC, Site-Defined Taxonomies

| ID    |                            | CPT                        | ICD  | LOINC | Site-Defined Taxonomy (Labs or Meds) | Other                         |
|-------|----------------------------|----------------------------|--|-------|--------------------------------------|-------------------------------|
| DX.1  | AIDS Defining Illnesses    |                            | BKMV AIDS DEF ILL DXS                              |       |                                      |                               |
| DX.2  | Chlamydia DX               |                            | BKM CHLAMYDIA DXS                                  |       |                                      |                               |
| DX.18 | Colorectal Cancer          | BGP COLORECTAL CANCER CPTS | BGP COLORECTAL CANCER DXS                          |       |                                      |                               |
| DX.4  | Gonorrhea                  |                            | BKM GONORRHEA DXS                                  |       |                                      |                               |
| DX.5  | Hepatitis A                |                            | BKM HEP A DXS                                      |       |                                      |                               |
| DX.15 | Hepatitis B                |                            | BKM HEP B DXS                                      |       |                                      |                               |
| DX.16 | Hepatitis C                |                            | BKM HEP C DXS                                      |       |                                      |                               |
| DX.6  | HIV/AIDS DX                |                            | BGP HIV/AIDS DXS                                   |       |                                      |                               |
| DX.7  | Non Tobacco Users          |                            |  |       |                                      | BGP NON TOBACCO USER FACTORS  |
| DX.8  | Opportunistic Infections   |                            | BKMV HIV OPP INF DXS                               |       |                                      |                               |
| DX.9  | Other STD                  |                            | BKM OTHER STD DXS                                  |       |                                      |                               |
| DX.17 | State Reportable Diagnoses |                            | BKM STATE REPORTABLE DXS                           |       |                                      |                               |
| DX.11 | Syphilis                   |                            | BKM SYPHILIS DXS                                   |       |                                      |                               |
| DX.12 | Tobacco Users              | BGP TOBACCO USER CPTS      | BGP SMOKER ONLY DXS<br>POV or Current Problem List |       |                                      | BGP TOBACCO USER HLTH FACTORS |
| DX.13 | Trichomoniasis             |                            | BKM TRICHOMONIASIS DXS                             |       |                                      |                               |

| ID    |                              | CPT                   | ICD                     | LOINC | Site-Defined Taxonomy (Labs or Meds) | Other   |
|-------|------------------------------|-----------------------|-------------------------|-------|--------------------------------------|---|
| DX.14 | Tuberculosis (TB)            |                       | DM AUDIT PROBLEM TB DXS |       |                                      |   |
| ED.1  | Family Planning Education    |                       | BKM FAMILY PLANNING POV |       |                                      | Patient education (V PED) codes containing "FP."  |
| ED.2  | HIV Counseling/ Education    |                       | BKMV HIV ED DXS         |       |                                      | Patient education codes containing "HIV-", "-HIV" or any HIV ICD codes  |
| ED.3  | Safe Sex Education           |                       |                         |       |                                      | BKM SAFE SEX ED CODES<br>Patient education codes containing: STD-P, HIV-P, FP-FC, MH-RS, WL-SX, WH-RS, ATO-LA, HEP-P, HEP-LA                                  |
| ED.4  | STD Education                |                       | BKMV STD ED DXS         |       |                                      | BKM STD ED CODES<br>Patient education codes containing "STD-", "-STD", "STI-", "-STI" or "HEP-" or<br>MH-RS, WL-SX, WH-RS, WH-STD, WH-STI, CD-C               |
| ED.5  | Tobacco Cessation Counseling | BGP TOBACCO CESS CPTS |                         |       |                                      | Clinic code 94<br>Patient Ed codes: containing "TO-", "-TO" or "-SHS" (NOTE: update to current CRS logic)<br>BGP TOBACCO CESS DENTAL CODE<br>Dental code 1320 |

| ID   |   | CPT                 | ICD   | LOINC | Site-Defined Taxonomy (Labs or Meds) | Other  |
|------|---|---------------------|---|-------|--------------------------------------|--|
| IZ.1 | BCG Tuberculosis Vaccine  | BKM BCG IZ CPTS     | BKM BCG IZ PROCEDURE                            |       |                                      | BKM BCG IZ CVX CODES<br>Immunization Codes (CVX): 19 BCG vaccine |
| IZ.2 | CMV (IgG)   | BKM CMV IZ CPTS     |   |       |                                      | BKM CMV IZ CVX CODES   |
| IZ.3 | Hep A vaccine (defined as 2 occurrences of any of the codes at least 5 months apart – NOTE to programmers, start with most recent and work backwards) | BKM HEP A IZ CPTS   |   |       |                                      | BKM HEP A IZ CVX CODES   |
| IZ.4 | Hep B vaccine (defined as at least 3 occurrences of any of the codes where 1 <sup>st</sup> and last are separated by at least 6 months)               | BKM HEP B IZ CPTS   |   |       |                                      | BKM HEP B IZ CVX CODES   |
| IZ.5 | Influenza IZ  | BGP CPT FLU         | BQI FLU IZ DXSBQI FLU IZ PROCEDURES             |       |                                      | BGP FLU IZ CVX CODES   |
| IZ.6 | Pneumococcal IZ   | BGP PNEUMO IZ CPTS  | BQI PNEUMO IZ DXS<br>BQI PNEUMO IZ PROCEDURES   |       |                                      | BKM PNEUMO IZ CVX CODES  |
| IZ.7 | Tetanus IZ  | BKM TETANUS IZ CPTS | BKM TETANUS IZ DXS<br>BKM TETANUS IZ PROCEDURES |       |                                      | BKM TETANUS IZ CVX CODES   |

| ID   |  | CPT | ICD | LOINC | Site-Defined Taxonomy (Labs or Meds) | Other                    |
|------|--|-----|-----|-------|--------------------------------------|--------------------------|
| M.09 | Entry Inhibitors (EI) Medications  |     |     |       | BKMV EI MEDS                         | BKMV EI MED NDCS         |
| M.10 | Integrase Inhibitors   |     |     |       | BKMV II MEDS                         | BKMV II MED NDCS         |
| M.01 | MAC Prophylaxis Medications  |     |     |       | BKMV MAC PROPH MEDS                  | BKMV MAC PROPH MED NDCS  |
| M.02 | NNRTIs (Non-Nucleoside Reverse Transcriptase Inhibitors)<br>M.1                  |     |     |       | BKMV NNRTI MEDS                      | BKMV NNRTI MED NDCS      |
| M.03 | NRTIs (Nucleoside/Nucleotide Reverse Transcriptase Inhibitors)<br>M.1            |     |     |       | BKMV NRTI MEDS                       | BKMV NRTI MED NDCS       |
| M.12 | NRTI Combo (Nucleoside/Nucleotide Reverse Transcriptase Inhibitors Combinations) |     |     |       | BKMV NRTI COMBO MEDS                 | BKMV NRTI COMBO MED NDCS |
| M.11 | NRTI/NNRTI   |     |     |       | BKMV NRTI/NNRTI MEDS                 | BKMV NRTI/NNRTI MED NDCS |
| M.04 | PCP Prophylaxis Medications  |     |     |       | BKMV PCP PROPH MEDS                  | BKMV PCP PROPH MED NDCS  |
| M.13 | PI Booster   |     |     |       | BKMV PI BOOSTER MEDS                 | BKMV PI BOOSTER MED NDCS |



| ID   |                                  | CPT   | ICD   | LOINC | Site-Defined Taxonomy (Labs or Meds) | Other   |
|------|----------------------------------|---|---|-------|--------------------------------------|---|
| M.05 | PIs (Protease Inhibitors)<br>M.1 |   |   |       | BKMV PI MEDS                         | BKMV PI MED NDCS  |
| M.08 | Tuberculosis (TB) Treatment      |   |   |       | BKM TB MEDS                          | BKM TB MED NDCS   |
| P.01 | Mastectomy, Bilateral            | BGP BILATERAL MASTECTOMY CPTS                 | BGP MASTECTOMY PROCEDURES                           |       |                                      |   |
| P.07 | Mastectomy, Unilateral           | BGP UNI MASTECTOMY CPTS                       | BGP UNI MASTECTOMY PROCEDURES                       |       |                                      |   |
| P.02 | Dental Exam                      |   | BKM DENTAL EXAMINATION                              |       |                                      | BGP DENTAL EXAM DENTAL CODE<br>ADA code 0000; 0190<br>V Exam 30                       |
| P.03 | Dilated Eye Exam                 | BGP DM EYE EXAM CPTS<br>BGP RETINAL EXAM CPTS | BQI EYE EXAM DXS<br>BQI EYE EXAM PROCS              |       |                                      | Provider codes 79. 24. 08<br>Clinic codes 17, 18, 64, A2<br>V Exam code: 03           |
| P.04 | Hysterectomy                     | BGP HYSTERECTOMY CPTS                         | BGP HYSTERECTOMY PROCEDURES<br>BGP HYSTERECTOMY DXS |       |                                      |   |
| P.05 | Mammogram                        | BGP CPT MAMMOGRAM                             | BGP MAMMOGRAM ICDS<br>BGP MAMMOGRAM PROCEDURES      |       |                                      | Women's Health:<br>Screening Mammogram,<br>Mammogram Dx Bilat,<br>Mammogram Dx Unilat |
| P.06 | Total Colectomy                  | BGP TOTAL CHOLECTOMY CPTS                     | BGP TOTAL CHOLECTOMY PROCS                          |       |                                      |   |

| ID   |   | CPT   | ICD   | LOINC                | Site-Defined Taxonomy (Labs or Meds) | Other   |
|------|---|---|---|----------------------|--------------------------------------|---|
| S.1  | Alcohol Screen  | BGP ALCOHOL SCREENING CPTS                                    | BQI ALCOHOL SCREEN DXS<br>BGP ALCOHOL DXS<br>BQI ALCOHOL PROCEDURES |                      |                                      | BGP ALCOHOL HLTH FACTOR<br>Any Alcohol Category Health Factor<br>Any Patient Ed codes containing "CD-", "-CD", "AOD-" or "-AOD" OR any alcohol diagnosis<br>Exam Code 35<br>V Measurement AUDT, AUDC or CRFT<br>BHS Problem codes: 29.1<br>BHS POV 10,27,29 |
| S.05 | Colorectal Cancer Screen                                | BGP COLO CPTS<br>BGP FOBT CPTS<br>BGP SIG CPTS<br>BGP BE CPTS | BGP SIG PROCS<br>BGP COLO PROCS                                     | BGP FOBT LOINC CODES | BGP GPRA FOB TESTS                   |   |
| S.2  | Depression Screen                                       |   | BGP MOOD DISORDERS<br>BQI DEPRESSION SCREEN DXS                     |                      |                                      | Exam Code 36<br>BHS Problem Code 14.1   |
| S.6  | IPV/ DV Screen  |   | BGP DV DXS<br>BGP IPV/DV COUNSELING ICDS                            |                      |                                      | Exam Code 34<br>Any Patient Education codes containing "DV-" or "-DV"   |
| S.3  | Substance Use (not including Alcohol or Tobacco) Screen |   | BKM OTHER SUBSTANCE ABUSE DXS                                       |                      |                                      |   |

| ID  |                       | CPT                        | ICD   | LOINC                                | Site-Defined Taxonomy (Labs or Meds) | Other  |
|-----|-----------------------|----------------------------|---|--------------------------------------|--------------------------------------|--|
| S.4 | Tobacco Use Screen    | BGP SMOKING CPTS           | BGP GPRA SMOKING DXS<br>POV or Current Problem List |                                      |                                      | BGP TOBACCO<br>SCREEN HLTH<br>FACTOR<br>Any health factor for<br>category Tobacco<br>Any Patient Ed codes<br>containing "TO-", "-TO"<br>or "-SHS" or any<br>containing diagnosis<br>codes<br>BGP TOBACCO CESS<br>DENTAL CODE<br>Dental code 1320<br>Clinic code 94 |
| T.2 | CD4 Tests             | BGP CD4 CPTS               |   | BGP CD4<br>LOINC CODES               | BGP CD4 TAX                          |  |
| T.1 | CD4 Absolute Tests    | BKMV CD4 ABS CPTS          |   | BKMV CD4<br>ABS LOINC<br>CODES       | BKM CD4 ABS<br>TESTS TAX             |  |
| T.3 | Chlamydia Test        | BGP CHLAMYDIA CPTS         | BQI CHLAMYDIA SCREEN<br>DXS                         | BGP<br>CHLAMYDIA<br>LOINC CODES      | BGP CHLAMYDIA<br>TESTS TAX           |  |
| T.6 | CMV Test              | BKM CMV TEST CPTS          |   | BKM CMV<br>LOINC CODES               | BKM CMV TEST<br>TAX                  |  |
| T.7 | Cocci Antibody Screen | BKM COCCI ANTIBODY<br>CPTS |   | BKM COCCI<br>ANTIBODY<br>LOINC CODES | BKM COCCI<br>ANTIBODY TAX            |  |
| T.9 | FTA-ABS<br>(Syphilis) | BKM FTA-ABS CPTS           |   | BKM FTA-ABS<br>LOINC CODES           | BKM FTA-ABS<br>TEST TAX<br>FTA-ABS   |  |

| ID   |                         | CPT                         | ICD | LOINC                         | Site-Defined Taxonomy (Labs or Meds) | Other |
|------|-------------------------|-----------------------------|-----|-------------------------------|--------------------------------------|-------|
| T.10 | Gonorrhea Test          | BKM GONORRHEA TESTS CPTS    |     | BKM GONORRHEA LOINC CODES     | BKM GONORRHEA TEST TAX               |       |
| T.29 | Hepatitis Panel         | BKM HEPATITIS PANEL CPTS    |     | BKM HEP PANEL LOINC CODES     | BKM HEPATITIS PANEL TAX              |       |
| T.31 | Hepatitis A Tests       | BKM HEP A TESTS CPTS        |     | BKM HEP A LOINC CODES         | BKM HEP A TAX                        |       |
| T.27 | Hepatitis B             | BKM HEP B TESTS CPTS        |     | BKM HEP B LOINC CODES         | BKM HEP B TAX                        |       |
| T.13 | Hepatitis C test (EIA)  | BKM HEP C SCREEN TESTS CPTS |     | BKM HEP C SCREEN LOINC CODES  | BKM HEP C SCREENING TAX              |       |
| T.14 | Hepatitis C test (RIBA) | BKM HEP CONFIRM TESTS CPTS  |     | BKM HEP C CONFIRM LOINC CODES | BKM HEP C CONFIRMATORY TAX           |       |
| T.15 | HIV Genotype            | BKMV HIV GENOTYPE CPTS      |     |                               | BKMV HIV GENOTYPE TESTS TAX          |       |
| T.16 | HIV Phenotype           | BKMV HIV PHENOTYPE CPTS     |     |                               | BKMV HIV PHENOTYPE TESTS TAX         |       |
| T.17 | HIV Tests               | BGP CPT HIV TESTS           |     | BGP HIV TEST LOINC CODES      | BGP HIV TEST TAX                     |       |
| T.30 | Lipid Profile           | BGP LIPID PROFILE CPTS      |     | BGP LIPID PROFILE LOINC CODES | DM AUDIT LIPID PROFILE TAX           |       |

| ID   |                               | CPT                        | ICD                                     | LOINC   | Site-Defined Taxonomy (Labs or Meds)                        | Other   |
|------|-------------------------------|----------------------------|---|---|---|---|
| T.20 | Pap Smear                     | BGP CPT PAP                | BGP PAP SMEAR DXS<br>BQI PAP PROCEDURES | BGP PAP<br>LOINC CODES  | BGP PAP SMEAR<br>TAX  | Women's Health:<br>procedure called Pap<br>Smear<br>Refusals: Lab Test<br>Value Pap Smear |
| T.21 | PPD<br>(Tuberculosis<br>Test) | BKM PPD CPTS               | BKM PPD ICDS                            | In addition to V<br>Lab, look in V<br>Skin Test<br>BKM PPD<br>LOINC CODES | In addition to V Lab,<br>look in V Skin Test<br>BKM PPD TAX | BKM PPD CVX CODES   |
| T.22 | RPR (Syphilis)                | BKM RPR CPTS               |   | BKM RPR<br>LOINC CODES  | BKM RPR TAX   |   |
| T.28 | Toxoplasmosis                 | BKM TOXOPLASMOSIS<br>CPTS  |   | BKM<br>TOXOPLASMO<br>SIS LOINC<br>CODES                                   | BKM<br>TOXOPLASMOSIS<br>TESTS TAX                           |   |
| T.24 | Trichomoniasis                |                            | Same as DX.13                           | BKM TRICH<br>LOINC CODES  | BKM TRICH TESTS<br>TAX                                      |   |
| T.26 | HIV RNA Viral<br>Load Tests   | BGP HIV VIRAL LOAD<br>CPTS |   | BGP VIRAL<br>LOAD LOINC<br>CODES  | BGP HIV VIRAL<br>LOAD TAX                                   |   |

## Appendix B: HIV/AIDS-Related Reminders – Logic and Tooltip Text

This information was updated April 16, 2015.

The codes contained in the listed taxonomies can be viewed from the View/Edit Taxonomy Entries screen - menu Tools->Taxonomy Maintenance.

### B.1 CD4 Test

#### B.1.1 Description Fields Text

Category: Care Management

Clinical Group: HIV

Reminder Name: CD4 Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS.

Definition (Frequency): Every 4 months

LOGIC DETAIL:

CD4 Test Definition:

- Procedures (CPT Codes): [BGP CD4 CPTS]
- LOINC Codes: [BGP CD4 LOINC CODES]
- Site Defined Lab Tests: [BGP CD4 TAX]

Site Configurable? No

#### B.1.2 Tooltip Text

A CD4 lab test is due every four months.

### B.2 Chlamydia Test

#### B.2.1 Description Field Text

Category: Care Management

Clinical Group: HIV

Reminder Name: Chlamydia Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With a history of POV diagnosis of Gonorrhea, Syphilis, Trichomoniasis or other STD WITHOUT a negative Chlamydia test since the diagnosis

OR

With a history of positive test results for Gonorrhea or Syphilis since date of last Chlamydia test

OR

Most recent Chlamydia test was positive

OR

Greater than or equal to 18 years of age

Definition (Frequency): Variable

- Now if there has been a diagnosis for either Gonorrhea, Syphilis, Trichomoniasis or other STD since the most recent Chlamydia test

OR

- Now if there has been a positive test result for Gonorrhea or Syphilis since the date of the last Chlamydia test

OR

- Eight weeks after most recent positive Chlamydia test to check for cure

OR

- Annually if greater than or equal to 18 years of age

LOGIC DETAIL:

Chlamydia Test Definition:

- Procedures (CPT Codes): [BGP CHLAMYDIA CPTS]
- LOINC Codes: [BGP CHLAMYDIA LOINC CODES]

- Site Defined Lab Tests: [BGP CHLAMYDIA TESTS TAX]

Gonorrhea Test Definition:

- Procedures (CPT Codes): [BKM GONORRHEA TESTS CPTS]
- LOINC Codes: [BKM GONORRHEA LOINC CODES]
- Site Defined Lab Tests: [BKM GONORRHEA TEST TAX]

RPR Lab (Syphilis) Test Definition:

- Procedures (CPT Codes): [BKM RPR CPTS]
- LOINC Codes: [BKM RPR LOINC CODES]
- Site Defined Lab Tests: [BKM RPR TAX]

FTA-ABS (Syphilis) Test Definition:

- Procedures (CPT Codes): [BKM FTA-ABS CPTS]
- LOINC Codes: [BKM FTA-ABS LOINC CODES ]
- Site Defined Lab Tests: [BKM FTA-ABS TEST TAX]

Chlamydia Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM CHLAMYDIA DXS]

Gonorrhea Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM GONORRHEA DXS]

Syphilis Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM SYPHILIS DXS]

Trichomoniasis Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM TRICHOMONIASIS DXS]

Other STD Diagnoses Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM OTHER STD DXS]

Site Configurable? No

## B.2.2 Tooltip Text

A Chlamydia Test is due: 1) immediately after infection with Gonorrhea, Syphilis, Trichomoniasis or other sexually transmitted infection; 2) eight weeks after a positive Chlamydia test to check for cure; 3) annually for all patients.



## B.3 HMS Dental Exam

### B.3.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: HMS Dental Exam

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

Definition (Frequency): Annually

LOGIC DETAIL:

Dental Exam Definition:

- Diagnosis (ICD Codes): POV: [BKM DENTAL EXAMINATION]
- Dental Code: ADA code 0000; 0190 [BGP DENTAL EXAM DENTAL CODE]
- V Exam Code: 30

Site Configurable? No

### B.3.2 Tooltip Text

A Dental Exam is due annually for all patients.

## B.4 HMS Eye Exam

### B.4.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: HMS Eye Exam

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

Definition (Frequency): Variable

- Every 6 months if most recent CD4 Absolute Count is less than 50
- Annually if most recent CD4 Absolute Count is greater than or equal to 50

LOGIC DETAIL:

Eye Exam Definition:

- Procedures (CPT Codes):, [BGP EYE EXAM CPTS]
- Procedures (ICD Codes): POV [BQI EYE EXAM DXS]
- Procedure Code: [BQI EYE EXAM PROCS]
- Provider Codes: 79; 24; 08
- Clinic Codes: 17; 18; 64; A2
- V Exam Code: 03

CD4 Absolute Count Test Definition:

- Procedures (CPT Codes): [BKMV CD4 ABS CPTS]
- LOINC Codes: [BKMV CD4 ABS LOINC CODES]
- Site Defined Lab Tests: [BKM CD4 ABS TESTS TAX]

Site Configurable? No

## B.4.2 Tooltip Text

An Eye Exam is due: 1) every six months for patients whose most recent CD4 Absolute Count is less than 50; 2) annually for all patients whose most recent CD4 Absolute Count is greater than or equal to 50.

## B.5 Family Planning Education

### B.5.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Family Planning Education

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

Females starting at age 13 years through age 44 years.

OR

Males greater than or equal to age 13 years.

Definition (Frequency): Every six months

LOGIC DETAIL:

Family Planning Definition:

- ICD Codes: [BKM FAMILY PLANNING POV]
- Patient Education Codes: V PED Visits containing “FP”

Site Configurable? No

## B.5.2 Tooltip Text

Family Planning Education is due every six months for: 1) all females ages 13–44; 2) all males starting at age 13.

## B.6 Syphilis (FTA-ABS) Test

### B.6.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Syphilis (FTA-ABS) Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With positive results on most recent RPR lab and no FTA-ABS test documented after the date of the positive RPR test

Definition (Frequency): Due 14 days after the positive RPR test

**LOGIC DETAIL:****FTA-ABS Test Definition:**

- Procedures (CPT Codes): [BKM FTA-ABS CPTS]
- LOINC Codes: [BKM FTA-ABS LOINC CODES ]
- Site Defined Lab Tests: [BKM FTA-ABS TEST TAX]

**RPR Test Definition:**

- Procedures (CPT Codes): [BKM RPR CPTS]
- LOINC Codes: [BKM RPR LOINC CODES]
- Site Defined Lab Tests: [BKM RPR TAX]

Site Configurable? No

**B.6.2 Tooltip Text**

The FTA-ABS (Syphilis) Test is due 14 days after the date of positive test results on their most recent RPR (Syphilis) Test.

**B.7 Gonorrhea Test****B.7.1 Description Field Text**

Type: Care Management

Category: HIV

Reminder Name: Gonorrhea Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With a history of POV diagnosis of Chlamydia, Syphilis, Trichomoniasis or other STDs WITHOUT a negative Gonorrhea test since the diagnosis

OR

With a history of positive test results for Chlamydia or Syphilis since date of last Gonorrhea test

OR

Greater than or equal to age 18 years

Definition (Frequency): Variable

- Now if there has been a diagnosis for either Chlamydia, Syphilis Trichomoniasis or other STD since the most recent Gonorrhea test
- Now if there has been a positive test result for either Chlamydia, Syphilis, Trichomoniasis or other STDs since the most recent Gonorrhea test

OR

- Annually if greater than or equal to age 18 years.

LOGIC DETAIL:

Gonorrhea Test Definition:

- Procedures (CPT Codes): [BKM GONORRHEA TESTS CPTS]
- LOINC Codes: [BKM GONORRHEA LOINC CODES]
- Site Defined Lab Tests: [BKM GONORRHEA TEST TAX]

Chlamydia Test Definition:

- Procedures (CPT Codes): [BGP CHLAMYDIA CPTS]
- LOINC Codes: [BGP CHLAMYDIA LOINC CODES]
- Site Defined Lab Tests: [BGP CHLAMYDIA TESTS TAX]

RPR Lab (Syphilis) Test Definition:

- Procedures (CPT Codes): [BKM RPR CPTS]
- LOINC Codes: [BKM RPR LOINC CODES]
- Site Defined Lab Tests: [BKM RPR TAX]

FTA-ABS (Syphilis) Test Definition:

- Procedures (CPT Codes): [BKM FTA-ABS CPTS]
- LOINC Codes: [BKM FTA-ABS LOINC CODES ]
- Site Defined Lab Tests: [BKM FTA-ABS TEST TAX]

Gonorrhea Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM GONORRHEA DXS]

Chlamydia Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM CHLAMYDIA DXS]

Syphilis Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM SYPHILIS DXS]

Trichomonas Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM TRICHOMONIASIS DXS]

Other STD Diagnoses Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM OTHER STD DXS]

Site Configurable? No

## B.7.2 Tooltip Text

A Gonorrhea Test is due: 1) immediately after infection with Chlamydia, Syphilis, Trichomoniasis or other sexually transmitted infection; 2) annually for all patients.

## B.8 Hepatitis A IZ

### B.8.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Hepatitis A IZ

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With NO documented history of Hepatitis A diagnosis.

Definition (Frequency): Series is given once in a lifetime. Series consists of two doses at least five months apart.

LOGIC DETAIL:

Hepatitis A Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM HEP A DXS]
- Hepatitis A Immunization Definition:
- Procedures (CPT Codes): [BKM HEP A IZ CPTS]
- Immunization (CVX Codes): [BKM HEP A IZ CVX CODES]

Site Configurable? No

## B.8.2 Tooltip Text

A Hepatitis A Immunization (series of two) is due for all patients with NO documented history of Hepatitis A.

## B.9 Hepatitis B IZ

### B.9.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Hepatitis B IZ

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With NO documented history of Hepatitis B diagnosis

Definition (Frequency): Series is given once in a lifetime. Series consist of three doses where the first and last doses are at least six months apart

LOGIC DETAIL:

Hepatitis B Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM HEP B DXS]

Hepatitis B Immunization Definition:

- Procedures (CPT Codes): [BKM HEP B IZ CPTS]
- Immunization (CVX Codes): [BKM HEP B IZ CVX CODES]

Site Configurable? No

### B.9.2 Tooltip Text

A Hepatitis B Immunization (series of three doses where the first and last doses are at least six months apart) is due for all patients with NO documented history of Hepatitis B.

## B.10 Hepatitis B Retest

### B.10.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Hepatitis B Retest

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With three Hepatitis B immunization doses and no Hepatitis B test documented after the final dose

Definition (Frequency): Once, after final dose in the Hepatitis B series

LOGIC DETAIL:

Hepatitis B Test Definition:

- Procedures (CPT Codes): [BKM HEP B TESTS CPTS]
- LOINC Codes: [BKM HEP B LOINC CODES]
- Site Defined Lab Tests: [BKM HEP B TAX]

Hepatitis B Immunization Definition:

- Procedures (CPT Codes): [BKM HEP B IZ CPTS]
- Immunizations (CVX Codes): [BKM HEP B IZ CVX CODES]

Site Configurable? No

### B.10.2 Tooltip Text

A Hepatitis B Retest is due for all patients after they have received all three doses of the Hepatitis B Immunization.

## B.11 Hepatitis B Test

### B.11.1 Description Field Text

Type: Care Management



Category: HIV

Reminder Name: Hepatitis B Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

Patients with NO documented history of Hepatitis B Diagnosis ever AND NO documented Hepatitis B test results ever.

Definition (Frequency): Once

LOGIC DETAIL:

Hepatitis B Test Definition:

- Procedures (CPT Codes): [BKM HEP B TESTS CPTS]
- LOINC Codes: [BKM HEP B LOINC CODES]
- Site Defined Lab Tests: [BKM HEP B TAX]

Hepatitis B Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM HEP B DXS]

Site Configurable? No

### B.11.2 Tooltip Text

A Hepatitis B Test is due for all patients who have never had a test for or been diagnosed with Hepatitis B.

## B.12 Hepatitis C Confirmatory Test

### B.12.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Hepatitis C Confirmatory Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With a history of positive Hepatitis C Screening test and NO documentation of a positive Hepatitis C Confirmatory test after AND NO documented history of Hepatitis C diagnosis.

Definition (Frequency): Immediately following a positive result on a Hepatitis C Screening Test

LOGIC DETAIL:

Hepatitis C Confirmatory Test Definition:

- Procedures (CPT Codes): [BKM HEP C CONFIRM TESTS CPTS]
- LOINC Codes: [BKM HEP C CONFIRM LOINC CODES]
- Site Defined Lab Tests: [BKM HEP C CONFIRMATORY TAX]

Hepatitis C Screening Test Definition:

- Procedures (CPT Codes): [BKM HEP C SCREEN TESTS CPTS]
- LOINC Codes: [BKM HEP C SCREEN LOINC CODES]
- Site Defined Lab Tests: [BKM HEP C SCREENING TAX]

Hepatitis C Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM HEP C DXS]

Site Configurable? No

## B.12.2 Tooltip Text

A Hepatitis C Confirmatory Test is due for all patients who have a positive Hepatitis C Screening Test.

## B.13 Hepatitis C Screening Test

### B.13.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Hepatitis C Screening Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

With NO documented history of Hepatitis C diagnosis ever

Definition (Frequency): Annually

LOGIC DETAIL:

Hepatitis C Screening Test Definition:

- Procedures (CPT Codes): [BKM HEP C SCREEN TESTS CPTS]
- LOINC Codes: [BKM HEP C SCREEN LOINC CODES]
- Site Defined Lab Tests: [BKM HEP C SCREENING TAX]

Hepatitis C Diagnosis Definition:

- Diagnosis (ICD Codes): POV or Problem List [BKM HEP C DXS]

Site Configurable? No

### B.13.2 Tooltip Text

A Hepatitis C Screening Test is due annually for all patients who have never been diagnosed with Hepatitis C.

## B.14 HMS Influenza IZ

### B.14.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: HMS Influenza IZ

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

Definition (Frequency): Annually

LOGIC DETAIL:

Influenza Immunization Definition:

- Procedures (CPT Codes): [BGP CPT FLU]

- Procedures (ICD Codes): POV: [BQI FLU IZ DXS]
- Procedures: [BQI FLU IX PROCEDURES]
- Immunization (CVX Codes): [BGP FLU IZ CVX CODES]

Site Configurable? No

### B.14.2 Tooltip Text

An Influenza Immunization is due annually for all high-risk patients.

## B.15 HMS Mammogram

### B.15.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: HMS Mammogram

Default Status: On

Denominator: Female patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS starting at age 50 years through 69 years WITHOUT documented bilateral mastectomy or two unilateral mastectomies.

Definition (Frequency): Annually

LOGIC DETAIL:

Mammogram Definition:

- Procedures (CPT Codes): VRad or VCPT [BGP CPT MAMMOGRAM]
- Procedures (ICD Codes): [BGP MAMMOGRAM ICDS]
- Procedure Codes: [BGP MAMMOGRAM PROCEDURES]
- Women's Health: Screening Mammogram, Mammogram Dx Bilat; Mammogram Dx Unilat

Bilateral Mastectomy Definition:

- Procedures (CPT Codes): [BGP BILATERAL MASTECTOMY CPTS]
- Procedures Codes (ICD Codes): [BGP MASTECTOMY PROCEDURES]

Unilateral Mastectomy Definition:

- Procedures (CPT Codes): BGP UNI MASTECTOMY CPTS]
- Procedure Codes (ICD Codes): [BGP UNI MASTECTOMY PROC]

Site Configurable? No

## B.15.2 Tooltip Text

A Mammogram is due annually for all females ages 50–69 without a history of bilateral mastectomy or two unilateral mastectomies.

## B.16 HMS Pap Smear

### B.16.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: HMS Pap Smear

Default Status: On

Denominator: Female patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

Starting at age 18 years through 64 years WITHOUT a documented hysterectomy

Definition (Frequency): Variable

- Every six months if most recent CD4 Absolute Count is less than 200
- Annually if most recent CD4 Absolute Count is greater than or equal to 200

LOGIC DETAIL:

Pap Smear Definition:

- Procedures (CPT Codes): [BGP CPT PAP]
- Procedures (ICD Codes): POV [BGP PAP SMEAR DXS]
- Procedure Codes: V Procedure 91.46 [BGP PAP PROCEDURES]
- LOINC Codes: V Lab as predefined in [BGP PAP LOINC CODES]
- Site Defined Lab Tests: V Lab site-defined in [BGP PAP SMEAR TAX]
- Women’s Health: Any procedure called Pap Smear

Hysterectomy Definition:

- Procedures (CPT Codes): [BGP HYSTERECTOMY CPTS]
- Procedures:[BGP HYSTERECTOMY PROCEDURES ]
- Procedures (ICD Codes): POV [BGP HYSTERECTOMY DXS]

CD4 Absolute Count Definition:

- Procedures (CPT Codes): [BKMV CD4 ABS CPTs]
- LOINC Codes: [BKMV CD4 ABS LOINC CODES]
- Site Defined Lab Tests: [BKMV CD4 ABS TESTS TAX]

Site Configurable? No

## B.16.2 Tooltip Text

A Pap Smear is due: 1) every six months for females ages 18–64 if most recent CD4 Absolute Count is less than 200; 2) annually for females ages 18–64 if most recent CD4 count is greater than or equal to 200.

## B.17 HMS Pneumovax Immunization

### B.17.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Pneumovax Immunization

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

Definition (Frequency): Every five years

LOGIC DETAIL:

Pneumococcal Immunization Definition:

- Procedures (CPT Codes): [BGP PNEUMO IZ CPTS]
- Procedures (ICD Codes): POV [BQI PNEUMO IZ DXS]
- Procedures: [BQI PNEUMO IZ PROCEDURES]
- Immunization (CVX Codes): [BKM PNEUMO IZ CVX CODES]

Site Configurable? No

## B.17.2 Tooltip Text

A Pneumovax Immunization is due every five years for all patients.

## B.18 PPD Test (TB)

### B.18.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: PPD Test (TB)

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

Without documentation of:

- History of Tuberculosis diagnosis ever
- History of treatment for Tuberculosis ever
- History of positive PPD results (Positive defined as: Positive in the Results field or greater than five in the Reading field)

Definition (Frequency): Annually

LOGIC DETAIL:

PPD Test Definition:

- Procedures (CPT Codes): [BKM PPD CPTS]
- Procedures (ICD Codes): [BKM PPD ICDS ]
- LOINC Codes: [BKM PPD LOINC CODES]
- Site Defined: [BKM PPD TAX]

Tuberculosis Diagnosis Definition

- Diagnosis (ICD Codes): POV or Problem List [DM AUDIT PROBLEM TB DXS]

Tuberculosis Treatment Definition:

- Medications (NDC Codes): [BKM TB MED NDCS]

- Site Defined Medications: [BKM TB MEDS]

Site Configurable? No

## B.18.2 Tooltip Text

A PPD Skin Test is due annually for all patients WITHOUT a history of: 1) treatment for TB; 2) previous positive PPD results.

## B.19 Syphilis (RPR) Test

### B.19.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Syphilis (RPR) Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND/OR

With a history of POV diagnosis of Chlamydia, Gonorrhea, Trichomoniasis or other STDs WITHOUT a negative Syphilis test since the diagnosis

OR

With a history of positive test results for Chlamydia or Gonorrhea since date of last Syphilis test

Definition (Frequency): Variable

- Now if there has been a diagnosis of either Gonorrhea, Chlamydia, Trichomoniasis or other STD since the most recent Syphilis test
- Now if there has been a positive test result for either Chlamydia or Gonorrhea since the most recent Syphilis test

OR

- Annually



**LOGIC DETAIL:****RPR (Syphilis) Test Definition:**

- Procedures (CPT Codes): [BKM RPR CPTS]
- LOINC Codes: [BKM RPR LOINC CODES]
- Site Defined Lab Tests: [BKM RPR TAX]

**Gonorrhea Test:**

- Procedures (CPT Codes): [BKM GONORRHEA TESTS CPTS]
- LOINC Codes: [BKM GONORRHEA LOINC CODES]
- Site Defined Lab Tests: [BKM GONORRHEA TEST TAX]

**Chlamydia Test Definition:**

- Procedures (CPT Codes): [BGP CHLAMYDIA CPTS]
- LOINC Codes: [BGP CHLAMYDIA LOINC CODES]
- Site Defined Lab Tests: [BGP CHLAMYDIA TESTS TAX]

**Gonorrhea Diagnosis Definition:**

- Diagnosis (ICD Codes): POV or Problem List [BKM GONORRHEA DXS]

**Chlamydia Diagnosis Definition:**

- Diagnosis (ICD Codes): POV or Problem List [BKM CHLAMYDIA DXS]

**Trichomoniasis Diagnosis Definition**

- Diagnosis (ICD Codes): POV or Problem List [BKM TRICHOMONIASIS DXS]

**Other STD Diagnosis Definition**

- Diagnosis (ICD Codes): POV or Problem List [BKM OTHER STD DXS]

Site Configurable? No

**B.19.2 Tooltip Text**

An RPR Syphilis Test is due: 1) immediately after infection with Gonorrhea, Chlamydia, Trichomoniasis or other sexually transmitted infection; 2) annually for all patients.

**B.20 Safe Sex Education****B.20.1 Description Field Text**

Type: Care Management

Category: HIV

Reminder Name: Safe Sex Education

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS starting at age 13 years

Definition (Frequency): Every 6 months

LOGIC DETAIL:

Safe Sex Education Definition:

- Patient Education Codes: V PED STD-P, STI-P, HIV-P, FP-FC, MH-RS, WL-SX,WH-RS, ATO-LA, HEP-P, HEP-LA [BKM SAFE SEX ED CODES]

Site Configurable? No

## B.20.2 Tooltip Text

Safe Sex Education is due every six months for all patients starting at age 13 years.

## B.21 Tetanus Immunization

### B.21.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Tetanus Immunization

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

Definition (Frequency): Every 10 years

LOGIC DETAIL:

Tetanus Immunization Definition:

- Procedures (CPT Codes): [BKM TETANUS IZ CPTS]
- Procedures (ICD Codes): [BKM TETANUS IZ DXS]
- Procedure Codes: [BKM TETANUS IZ PROCEDURES]

- Immunization (CVX Codes): [BKM TETANUS IZ CVX CODES]  
Site Configurable? No

### B.21.2 Tooltip Text

A Tetanus Immunization is due every 10 years for all patients.

## B.22 Toxoplasmosis

### B.22.1 Description Field Text

Type: Care Management

Category: HIV

Reminder Name: Toxoplasmosis Test

Default Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

AND

Without a history of positive Toxoplasmosis test

Definition (Frequency): Annually

LOGIC DETAIL:

Toxoplasmosis Test Definition:

- Procedures (CPT Codes): [BKM TOXOPLASMOSIS CPTS]
- LOINC Codes: [BKM TOXOPLASMOSIS LOINC CODES]
- Site Defined: [BKM TOXOPLASMOSIS TESTS TAX]

Site Configurability: No

## B.22.2 Tooltip Text

A Toxoplasmosis test is due annually for all patients WITHOUT a history of positive Toxoplasmosis test

## B.23 HIV Viral Load Test

### B.23.1 Description Field Text

Type: Care Management

Category: HMS

Reminder Name: HIV Viral Load Test

Status: On

Denominator: Patients with a proposed or accepted tag for HIV OR Active on HMS Register with Diagnosis Category of HIV or AIDS

Definition (Frequency): Every four months

LOGIC DETAIL:

HIV Viral Load Test Definition:

- Procedures (CPT Codes): [BGP HIV VIRAL LOAD CPTS]
- LOINC Codes: [BGP VIRAL LOAD LOINC CODES]
- Site Defined Lab Tests: [BGP HIV VIRAL LOAD TAX]

Site Configurable? No.

### B.23.2 Tooltip Text

An HIV Viral Load Test is due every four months for all patients.

## Appendix C: CDC Clinical Classification

Classification of HIV disease can be undertaken for several purposes and should be distinguished from disease staging. Staging is disease classification that aims primarily to make groupings that have different prognosis and can be used in guiding treatment decisions. A number of classification and staging systems have been proposed for HIV disease, but the classification scheme constructed by the Centers for Disease Control and Prevention (CDC) has gained the widest acceptance.

The current CDC classification system, from the revision in 1993, combines three categories of the CD4 count with three symptom categories. It was first put forth as a categorization of HIV-related signs and symptoms and was explicitly for “public health purposes” and not intended as a staging system, although it is frequently treated as such. The CDC proposed that it be used to “guide clinical and therapeutic actions in the management of HIV-infected adolescents and adults.”

The three categories relating to the CD4+ cell count:

- Category 1 includes counts of 500 or more cells per microliter
- Category 2 includes counts from 200 to 499
- Category 3 includes counts below 200 cells

The three clinical categories for people who test HIV-positive:

- Category A includes individuals who have been asymptomatic except for persistent generalized lymphadenopathy and/or seroconversion syndrome.
- Category B comprises those who have never had an AIDS-defining illness but have had some of the less serious complications of HIV infection, including oral or vaginal candidiasis, constitutional symptoms such as fever or persistent diarrhea, oral hairy leukoplakia, herpes zoster, idiopathic thrombocytopenic purpura, listeriosis, peripheral neuropathy, cervical dysplasia, bacillary angiomatosis, or pelvic inflammatory disease.
- Category C is used to describe those who have had one or more of the AIDS-defining illnesses.

The use of both the CD4+ cell count and clinical categories provides shorthand for where the patient stands in the course of the HIV/AIDS continuum. A person placed in Category A1 has the least immune damage and fewest clinical complications; someone scoring C3 is seriously ill. Anyone placed in Category 3 and/or Category C has an AIDS diagnosis under the 1993 CDC case definition. A somewhat different classification scheme is used for pediatric cases: Three classes using the letter P for pediatric matched with the numeral 0, 1, or 2 to indicate the stage, along with subclasses and categories of specific types of diseases.

While there are guidelines in place, assignment of this classification is made only after clinical evaluation. The decision of which category to assign is always made by a clinical person.

The table below provides a summary of the CDC clinical classification. The sections following describe these classifications in more detail.

Table C-1: CDC HIV clinical classifications

| Category | Clinical Classification  |
|----------|--|
| A1       | Asymptomatic HIV infection + CD4 count > or = 500                  |
| A2       | Asymptomatic HIV infection + CD4 count between 200 and 499         |
| A3       | Asymptomatic HIV infection + CD4 count less than 200               |
| B1       | Symptoms attributable to HIV infection + CD4 count >= 500          |
| B2       | Symptoms attributable to HIV infection + CD4 count between 200-499 |
| B3       | Symptoms attributable to HIV infection + CD4 count less than 200   |
| C1       | AIDS defining condition(s) + CD4 count > or = 500                  |
| C2       | AIDS defining condition(s) + CD4 count between 200 and 499         |
| C3       | AIDS defining condition(s) + CD4 count less than 200               |

The definitions of the three **CD4 count categories** are as follows:

- Category 1: > 500 cells/mm<sup>3</sup> (or CD4% > 28%)
- Category 2: 200-499 cells/mm<sup>3</sup> (or CD4% 14% - 28%)
- Category 3: < 200 cells/mm<sup>3</sup> (or CD4% < 14%)

The lowest, most accurate CD4 count should be used for classification purposes. This will not necessarily be the most recent count but the most representative for the time frame being evaluated. This is a modifiable field and the user should expect to re-evaluate and change this frequently.

The definitions of the three **clinical condition categories** are as follows:

**Category A:** Asymptomatic HIV infection; persistent generalized lymphadenopathy; acute, primary HIV infection with accompanying illness or history of acute HIV infection.

**Category B:** Symptomatic conditions in an HIV-infected adolescent or adult that are not included among conditions listed in clinical Category C and that meet at least one of the following criteria: (a) the conditions are attributed to HIV infection or are indicative of a defect in cell-mediated immunity; or (b) the conditions are considered by physicians to have a clinical course or to require management that is complicated by HIV infection. Examples of conditions in clinical category B include but are not limited to are:

- Bacillary angiomatosis

- Candidiasis, oropharyngeal (thrush)
- Candidiasis, vulvovaginal; *persistent, frequent, or poorly responsive to therapy*
- Cervical dysplasia (*moderate or severe*)/*cervical carcinoma in situ*
- Constitutional symptoms, *such as fever (38.5 degrees centigrade) or diarrhea lasting greater than 1 month*
- Hairy leukoplakia, oral
- Herpes zoster (shingles), *involving at least two distinct episodes or more than one dermatome*
- Idiopathic thrombocytopenic purpura
- Listeriosis
- Pelvic inflammatory disease, *particularly if complicated by tubo-ovarian abscess*
- Peripheral neuropathy

**Category C:** Any incidence of one or more of the clinical conditions listed in the 1993 AIDS surveillance case definition, i.e., AIDS Defining Illnesses (Section 0 provides information about AIDS Defining Illnesses). For classification purposes, once a Category C condition has occurred, the person will remain in Category C.

A patient's clinical classification is dynamic. Users can see from the definitions above that the numeric portion of the classification (1, 2, or 3) could change at each visit depending on the CD4 count. The alpha portion of the classification can change or progress from A to B to C but it cannot go back from C to B to A. In other words, once a patient has been assigned to the C classification which indicates AIDS, the clinical classification will never revert to an HIV classification even if the condition improves.

## Appendix D: Medications

### D.1 ARAV/HAART Definitions

ARV (Antiretroviral Therapy)/HAART (Highly Active Antiretroviral Therapy) is a specific treatment regimen defined as:

- Two or more NRTI (M.03) together with at least one NNRTI (M.02) or PI (M.05)  
OR
- Two or more PIs (M.05) with at least 1 NRTI (M.03)  
OR
- At least three NRTIs (M.03)

### D.2 Medication Categorization for Taxonomy Setup

Use the following medication list to assist in setting up the medication taxonomies that are used by the HIV Management System. The following lists the medications that are commonly prescribed for each of the categories.

Work with a pharmacist to determine which medications are available and how they are categorized at your facility.

Table D-1: Medication categorization for taxonomy setup

|                               | NRTI<br>MEDS | NNRTI<br>MEDS | NRTI<br>COMBO | NRTI/<br>NNRTI | PI<br>MEDS | PI<br>BOOSTER | EI<br>MEDS | II<br>MEDS | PCP<br>PROPH<br>MEDS | MAC<br>PROPH<br>MEDS | TB<br>MEDS |
|-------------------------------|--------------|---------------|---------------|----------------|------------|---------------|------------|------------|----------------------|----------------------|------------|
| Abacavir (Ziagen, ABC)        | X            |               |               |                |            |               |            |            |                      |                      |            |
| Didanosine (Videx, Videx EC)  | X            |               |               |                |            |               |            |            |                      |                      |            |
| Emtricitabine (Emtriva)       | X            |               |               |                |            |               |            |            |                      |                      |            |
| Lamivudine (Epivir)           | X            |               |               |                |            |               |            |            |                      |                      |            |
| Lamivudine/Abacavir (Epzicom) | X            |               |               |                |            |               |            |            |                      |                      |            |



|  | NRTI<br>MEDS | NNRTI<br>MEDS | NRTI<br>COMBO | NRTI/<br>NNRTI | PI<br>MEDS | PI<br>BOOSTER | EI<br>MEDS | II<br>MEDS | PCP<br>PROPH<br>MEDS | MAC<br>PROPH<br>MEDS | TB<br>MEDS |
|--|--------------|---------------|---------------|----------------|------------|---------------|------------|------------|----------------------|----------------------|------------|
| Stavudine (Zerit)                              | X            |               |               |                |            |               |            |            |                      |                      |            |
| Tenofovir (Viread)                             | X            |               |               |                |            |               |            |            |                      |                      |            |
| Zalcitibine (Hivid)                            | X            |               |               |                |            |               |            |            |                      |                      |            |
| Zidovudine (Retrovir)                          | X            |               |               |                |            |               |            |            |                      |                      |            |
| Zidovudine/Lamivudine (Combivir)               | X            |               |               |                |            |               |            |            |                      |                      |            |
| Zidovudine/Lamivudine/Abacavir<br>(Trizivir)   | X            |               |               |                |            |               |            |            |                      |                      |            |
| Delavirdine (Rescriptor)                       |              | X             |               |                |            |               |            |            |                      |                      |            |
| Efavirenz (Sustiva)                            |              | X             |               |                |            |               |            |            |                      |                      |            |
| Nevirapine (Viramune)                          |              | X             |               |                |            |               |            |            |                      |                      |            |
| Etravirine (TMC-125) (Intelence)               |              | X             |               |                |            |               |            |            |                      |                      |            |
| Tenofovir/Emtricitabine (Truvada)              |              |               | X             |                |            |               |            |            |                      |                      |            |
| Tenofovir/Emtricitabine/Efavirenz<br>(Atripla) |              |               |               | X              |            |               |            |            |                      |                      |            |
| Amprenavir (Agenerase)                         |              |               |               |                | X          |               |            |            |                      |                      |            |
| Atazanavir (Reyataz)                           |              |               |               |                | X          |               |            |            |                      |                      |            |
| Fosamprenavir (Lexiva)                         |              |               |               |                | X          |               |            |            |                      |                      |            |
| HGC Saquinavir (Invirase)                      |              |               |               |                | X          |               |            |            |                      |                      |            |
| Indinavir (Crixivan)                           |              |               |               |                | X          |               |            |            |                      |                      |            |
| Lopinavir/Ritonavir (Kaletra)                  |              |               |               |                | X          |               |            |            |                      |                      |            |
| Nelfinavir (Viracept)                          |              |               |               |                | X          |               |            |            |                      |                      |            |
| SCG Saquinavir (Fortovase)                     |              |               |               |                | X          |               |            |            |                      |                      |            |
| Tipranavir (Aptivus)                           |              |               |               |                | X          |               |            |            |                      |                      |            |
| Darunavir (Prezista)                           |              |               |               |                | X          |               |            |            |                      |                      |            |
| Ritonavir (Norvir)                             |              |               |               |                |            | X             |            |            |                      |                      |            |
| Enfuviritide (Fuzeon)                          |              |               |               |                |            |               | X          |            |                      |                      |            |
| Maraviroc (Selzentry)                          |              |               |               |                |            |               | X          |            |                      |                      |            |
| Raltegravir (Isentress)                        |              |               |               |                |            |               |            | X          |                      |                      |            |
| Atovaquone (Mepron)                            |              |               |               |                |            |               |            |            | X                    |                      |            |

|   | NRTI<br>MEDS | NNRTI<br>MEDS | NRTI<br>COMBO | NRTI/<br>NNRTI | PI<br>MEDS | PI<br>BOOSTER | EI<br>MEDS | II<br>MEDS | PCP<br>PROPH<br>MEDS | MAC<br>PROPH<br>MEDS | TB<br>MEDS |
|---|--------------|---------------|---------------|----------------|------------|---------------|------------|------------|----------------------|----------------------|------------|
| Dapsone   |              |               |               |                |            |               |            |            | X                    |                      |            |
| Pentamidine, Pentam 300,<br>Pentacarinat<br>(NebuPent)                |              |               |               |                |            |               |            |            | X                    |                      |            |
| Sulfamethaxazole &<br>Trimethoprim/Cotrimoxazole<br>(Bactrim; Septra) |              |               |               |                |            |               |            |            | X                    |                      |            |
| Trimethoprim (Proloprim, Trimex)                                      |              |               |               |                |            |               |            |            | X                    |                      |            |
| Trimetrexate, Glururonate<br>&Leucovorin<br>(Neutrexin)               |              |               |               |                |            |               |            |            | X                    |                      |            |
| Azithromycin (Zithromax)  |              |               |               |                |            |               |            |            |                      | X                    |            |
| Clarithromycin (Biaxin, Klacid)                                       |              |               |               |                |            |               |            |            |                      | X                    |            |
| Rifabutin (Mycobutin, Ansamycin)                                      |              |               |               |                |            |               |            |            |                      | X                    |            |
| Ethambutol (Myambutol)  |              |               |               |                |            |               |            |            |                      |                      | X          |
| Isoniazid (INH)   |              |               |               |                |            |               |            |            |                      |                      | X          |
| Pyrazinamide  |              |               |               |                |            |               |            |            |                      |                      | X          |
| Rifamate  |              |               |               |                |            |               |            |            |                      |                      | X          |
| Rifampin  |              |               |               |                |            |               |            |            |                      |                      | X          |
| Rifater   |              |               |               |                |            |               |            |            |                      |                      | X          |
| Streptomycin  |              |               |               |                |            |               |            |            |                      |                      | X          |

## Appendix E: Quality of Care Logic

The Quality of Care report provides a snapshot of the status of key care indicators for HIV/AIDS patients in the past 12 months. The general format is based on HIVQual, a HRSA-sponsored program built upon a model of quality improvement consultation that was developed in New York State. The goal of the HIVQual Continuous Quality Project is to improve the quality of care delivered to persons with HIV.

Users select an end date for the report, usually “today,” and the report will display the status and categorization of the various elements listed above for the patients chosen to include in the report. The patients are selected from an iCare panel, either created by or shared with the user. iCare users will then select one of three ways to further define the denominator for this report.

### E.1 Denominator and Numerator Definitions

#### Denominator

1. Patients who have an Active HMS Register Status with HMS Dx Category values empty, HIV or AIDS (i.e., no “At Risk” patients)
2. Patients who have a Proposed or Accepted Dx tag of HIV/AIDS (user selects either or both Tag Status)  
  
or
3. Specified (by highlighting) patients on this particular panel.

Any denominator is filtered automatically by the following logic: Patients must have at least one HIV/AIDS POV or Active Problem List or HMS Initial HIV Dx Date or HMS Initial AIDS Dx Date six months or more prior to report end date. Patient names selected by the user that do not meet these criteria will be identified on the report.

#### Numerator

1. Gender breakdowns: 1A) Male patients; and 1B) Female patients.
2. Age breakdowns: 2A) younger than (<) 15; 2B) ages 15 through 44; 2C) ages 45 through 64; and 2D) older than 64. Age of patient is determined as of Report End date.
3. Most recent CD4 count in four months prior to end of Report period: Total number of patients reviewed with any completed CD4 test (either CD4 All [T.2] or CD4 Absolute [T.1]). 3A) CD4 Absolute (T.1) results less than (<) 50. 3B) CD4 Absolute (T.1) results equal to or greater than (=>) 50 and less than (<) 200. 3C) CD4 Absolute (T.1) results => 200. 3C) # with undetermined results.

4. Counts number of patients with a visit every four months. This is broken down into those patients with only a CD4 lab test, patients with only a Viral Load lab test and patients with both a CD4 and a Viral Load lab test.
5. Counts number of patients with a visit every six months. This is broken down into those patients with only a CD4 lab test, patients with only a Viral Load lab test and patients with both a CD4 and a Viral Load lab test.
6. ARV Management

Total number of patients on HAART. HAART regimen can be defined by an Active or Chronic (not Discontinued or Expired) prescription for one of the following nine regimens:

- At least one PI (M.05) medication AND two NRTI (M.03) medication
- At least one PI (M.05) medication AND one NRTI Combo (M.12) medication
- At least two NRTI (M.03) medications AND one NNRTI (M.02) medication
- At least one NRTI Combo (M.12) medication AND one NNRTI (M.02) medication
- At least one EI (M. 09) medication AND two of any NNRTI (M.02), NRTI (M.03), OR PI (M.05) medications
- At least one EI (M.09) medication AND one NRTI Combo (M.12) medication
- At least one II (M.10) medication AND two of any NNRTI (M.02), NRTI (M.03), OR PI (M.05) medications
- At least one II (M.10) medication AND one NRTI Combo (M.12) medication
- At least one NRTI/NNRTI (M.11) medication

Each patient on HAART has their CD4 and Viral Load lab tests broken down by result:

- CD4 0-199
- CD4 200-349
- CD4 350-499
- CD4  $\geq$ 500
- Viral  $<$ 400
- Viral  $\geq$ 400
- Viral Load not assessed in past six months

7. Total number of patients NOT on HAART with their CD4 lab tests broken down by result:
  - CD4 0-199
  - CD4 200-349
  - CD4 350-499
  - CD4  $\geq$ 500
8. RPR (Rapid plasma reagin) (Syphilis screening): # with RPR or FTA-ABS (T.22 & T.09) completed or refused in year prior to end of report period. Use most recent results or refusal, if more than one test in the timeframe, to categorize as follows: 5A) # reactive (positive) tests r or R or Reactive; wr or WR or Weakly Reactive. 5B) # Non-reactive tests. n or N or Nonreactive. 5C) Undetermined values. 5D) Refused (Refusal type REF) 5E) NMI (Not Medically Indicated) (Refusal type NMI).
9. Chlamydia: # with Chlamydia test (T.3) completed or refused in year prior to end of report period. Use most recent results or refusal, if more than 1 test in the timeframe, to categorize as follows: 6A) # Females. 6B) # Males. 6C) # positive tests p or P or Positive or POS. 6D) # Negative tests n or N or Negative or NEG. 6E) Undetermined values. 6F) Refused (Refusal type REF). 6G) NMI (Not Medically Indicated) (Refusal type NMI).
10. Gonorrhea: # with gonorrhea test (T.10) completed or refused in year prior to end of report period. Break the total number in the Numerator into # Males and # Females. Use most recent results or refusal, if more than 1 test in the timeframe, to categorize as follows: 7A) # Females. 7B) # Males. 7C) # positive tests p or P or Positive or POS. 7D) # Negative tests n or N or Negative or NEG 7E) Undetermined values. 7F) Refused. 7G) NMI (Not Medically Indicated)
11. Tuberculosis Status: Total # of patients who needed PPD during Report Year, i.e., year previous to the end of the Report Period. Defined as including patients with 1) No TB diagnosis ever (DX.14); 2) No PPD ever; 3) no positive PPD results (T.21) on test performed more than one year previous to the end of the Report period, i.e., before the Report Year (see #8B below for definition of “positive”; or 4) No history of TB treatment (M.08) before the Report Year;

Use most recent results or refusal, if more than 1 test in the timeframe, to categorize as follows:

8A) # PPD received or refused (T.21) in previous year, regardless of result, with percentage of denominator Need PPD.

8B) # with positive PPD results in Report year, with percentage of denominator # PPD received. “Positive” result is defined as 1) Result field containing “p” or “P” or “POS” or “positive” or “+”; or 2) no value in Result field but Reading field  $\geq$  5.

8C) # from 8B who had treatment given (M.08) or refused treatment or treatment contraindicated ON or AFTER date of positive PPD result, with percentage of denominator Pos PPD.

8D) # with negative PPD results in previous year, with percentage of denominator # PPD received. “Negative” result defined as 1) Result field containing “n” or “-” or “N” or “NEG” or “negative” or “0”; or 2) no value in Result field but Reading field < 5.

8E) # who have documented PPD refusals, with percentage of denominator # PPD received. If the most recent test is a refusal, look for a previous test within the time frame and categorize as above. If only the refusal exists, categorize here as a refusal. (NOTE: this logic was not provided on the original document, but was included on the format layout.)

8F) # with undetermined results in previous year, with percentage of denominator # PPD received.

12. Lipids Screening: Total # of patients with Lipid Profile (T.30) completed or refused in year prior to end of report period. Use most recent panel or refusal, if more than 1 panel in the timeframe. Further categorize by: 9A) # of patients who had a Lipid panel AND are receiving any ARVs (M.02; M.03; M.05; M.09; M.10; M.11; M12; M13); 9B) # of refusals
13. Colorectal Cancer Screen: Total # of patients who needed a Colorectal Cancer (CRC) Screen (S.05) in the 10 years prior to end date of the report. Defined as including patients: 1) Greater than or equal to 50 years of age on the date of the beginning of the report period. 2) No CRC diagnosis ever (DX.18); 3) No history of a total Colectomy (P.06). Use most recent screening or refusal, if more than 1 test in the timeframe, to categorize as follows: 10A) Total # of patients who received or refused CRC Screens in previous 10 years, with percentage of denominator Need CRC; 10B) # of refusals.
14. Hepatitis C Screen Baseline: Total # of patients with a Hepatitis C Screen (T.13; T.14) baseline completed ever or refused in past year.
15. Pneumovax Status: Total # of patients with 1 pneumovax (IZ.6) documented in the 5 years prior to the end of the Report period OR 2 pneumovax ever OR pneumovax refusal in past year.
16. Tetanus Status: Total # of patients with tetanus vaccine (IZ.7) in past 10 years, or contraindicated, or refusal in past year. NOTE: logic for contraindications is not currently provided.
17. Eye Exam Status: Total # of patients with any completed or non-DNKA ophthalmology eye exam (P.03) or refusal documented in year prior to end of Report period.

18. Dental Exam Status: Total # of patients with any completed or non-DNKA dental exam or refusal (P.02) documented in year prior to end of Report period.
19. Pap Smear Status: Total # of female patients ages 19 through 64 with no documented history of Hysterectomy (P.04) with Pap smear (T.20) or refusal documented in 1 year period to end of Report period.
20. ARV Therapy: # of patients for whom any ARV medications (M.02; M.03; M.05; M.09; M.10; M.11; M.12 M.13;) have been prescribed (Total of 17A, B, C) as their most recent regimen in 4 months previous to end of Report Period, with percentage of Total Patients.

17A) HAART: # of patients on HAART medications in most recent regimen during past four months, with percentage of ARV total. A HAART regimen can be defined by an Active or Chronic (not Discontinued or Expired) prescription for one of the following nine regimens.

- At least 1 PI (M.05) medication AND 2 NRTI (M.03) medication
- At least 1 PI (M.05) medication AND 1 NRTI Combo (M.12) medication
- At least 2 NRTI (M.03) medications AND 1 NNRTI (M.02) medication
- At least 1 NRTI Combo (M.12) medication AND 1 NNRTI (M.02) medication
- At least 1 EI (M.09) medication AND 2 of any NNRTI (M.02); NRTI (M.03); OR PI (M.05) medications
- At least 1 EI (M.09) medication AND 1 NRTI Combo (M.12) medication
- At least 1 II (M.10) medication AND 2 of any NNRTI (M.02); NRTI (M.03); OR PI (M.05) medications
- At least 1 II (M.10) medication AND 1 NRTI Combo (M.12) medication
- At least 1 NRTI/NNRTI (M.11) medication

17B) Mono therapy: # of patients who have had any one of the ARV medications prescribed for them one at a time in past 4 months. Defined as Active or Chronic (not Discontinued or Expired), with percentage of ARV total.

17C) Other Combination: # of patients who have had any other ARV medication combination (not included in 17A or 17B) prescribed for them in past 4 months. Defined as Active or Chronic (not Discontinued or Expired), with percentage of ARV total.

21. PCP Prophylaxis: from # of patients with any CD4 Absolute (T.1) results less than 200 in past 12 months, how many received PCP Prophylaxis (M.04), with percentage of patients (CD4 < 200). Look at date of appropriate CD4 Absolute result (T.1) and count any medications prescribed on or after that date (prior to end of Report period). NOTE: the total number of patients in this value range may be more than the number of patients in the same range documented in the CD4 Lab Exam section, which documents most recent value rather than any value during the time period.
22. MAC Prophylaxis: from # of patients with any CD4 Absolute (T.1) results <50 in past 12 months, how many received MAC prophylaxis (M.01), with percentage of patients (CD4 <50). Look at date of appropriate CD4 Absolute (T.1) result and count any medications prescribed on or after that date (prior to end of Report period). NOTE: the total number of patients in this value range may be more than the number of patients in the same range documented in the CD4 Lab Exam section, which documents most recent value rather than any value during the time period.
23. Tobacco Use: Total # of patients screened for tobacco use (S.04) in year prior to end of Report Period.
  - 20A) # patients identified as tobacco users (DX.12) in year prior to end of Report Period.
  - 20B) # counseled about tobacco use (ED.5) in past year.
  - 20C) # identified as not current tobacco users (DX.7) in past year.
  - 20D) # patients with undetermined tobacco use (Total patients minus any patient not categorized in 20A or 20B or 20C).
24. Substance Use: Total # of patients screened for substance use (S.1 and S.3) in year prior to end of Report Period.

The last page of the report will provide an overview of the Report logic and a list of the user-selected patients who were and were not included on the report. The following text and data should be included:

HMS Quality of Care Report.

This report includes all patients who meet the criteria of the selected denominator:

1. HMS Register Status Active with HMS Dx Category values empty, HIV or AIDS (i.e., no “At Risk” patients);  
OR
2. Proposed and/or Accepted Dx tag of HIV/AIDS (user selects either or both Tag Status);



OR

3. Specific patients on the grid.

Any denominator is filtered automatically by the following logic: patients must have at least one HIV/AIDS POV or Active Problem List or HMS Initial HIV Dx Date or HMS Initial AIDS Dx Date 6 months or more prior to report end date.

Total Patients Reviewed (All patients in denominator): [#]

Number of Patients included on Report (filtered denominator): [#]

Number of Patients NOT included on Report: [#]

The following user-selected patients are included on this report:

- Name (Last Name, First Middle format)
- HRN
- Age
- Gender
- Current Register Diagnosis
- Initial HIV Diagnosis Date
- Initial AIDS Diagnosis Date
- HIV/AIDS Diagnostic Tag Status

The following user-selected patients are NOT included on this report:

- Name (Last Name, First Middle format)
- HRN
- Age
- Gender
- Current Register Diagnosis
- Initial HIV Diagnosis Date
- Initial AIDS Diagnosis Date
- HIV/AIDS Diagnostic Tag Status

## E.2 Sample Format, Quality of Care Audit

[Initials] = initials of user who runs the report

[Denominator Population] is identified from Step 1 above, e.g., HMS Active Patients; All RPMS HIV POV; Patients with Designated Provider [Name]; or Patient Panel [Name]

|   |                       |            |
|---|-----------------------|------------|
| AA  | APR 17, 2015 09:16:23 |            |
| 2013 DEMO HOSPITAL<br>HMS CUMULATIVE AUDIT REPORT<br>HIV QUALITY OF CARE<br>HIV Patients<br>HIV/AIDS Diagnostic Tag: Proposed and Accepted<br>PERIOD ENDING: Apr 17, 2015<br>**** CONFIDENTIAL PATIENT INFORMATION **** |                       |            |
| -----   |                       |            |
| Total Patients Reviewed: 7  |                       |            |
| Number of Patient Included in this Report 6   |                       |            |
| (Eligible Population)   |                       |            |
|   | Number                | Percentage |
| Gender: Male  | 6                     | 100.0%     |
| Female  | 0                     | 0.0%       |
| Age   |                       |            |
| <15 yrs   | 0                     | 0.0%       |
| 15-44 yrs   | 1                     | 16.7%      |
| 45-64 yrs   | 3                     | 50.0%      |
| >64 yrs   | 2                     | 33.3%      |
| Visits and Related Labs   |                       |            |
| Every 4 months  |                       |            |
| Total # of Patients w/ Visits   | 0                     | 0.0%       |
| Patients w/ only a CD4 Count  | 0                     | 0.0%       |
| every 4 months  |                       |            |
| Patients w/ only a Viral Load   | 0                     | 0.0%       |
| every 4 months  |                       |            |
| Patients w/ both a CD4 Count & a Viral  | 0                     | 0.0%       |
| Load every 4 months   |                       |            |
| Every 6 months  |                       |            |
| Total # of Patients w/ Visits   | 0                     | 0.0%       |
| Patients w/ only a CD4 Count  | 0                     | 0.0%       |
| every 6 months  |                       |            |
| Patients w/ only a Viral Load   | 0                     | 0.0%       |
| every 6 months  |                       |            |
| Patients w/ both a CD4 Count & a Viral  | 0                     | 0.0%       |
| Load every 6 months   |                       |            |
| Number of CD4 counts in Last Time Period  | 0                     |            |
| Number of Viral Loads in Last Time Period   | 0                     |            |
| ARV Management  |                       |            |
| Stable  |                       |            |
| Period 1  | 0                     | 0.0%       |
| Period 2  | 0                     | 0.0%       |
| Period 3  | 0                     | 0.0%       |
| Unstable  |                       |            |
| Period 1  | 0                     | 0.0%       |
| Period 2  | 0                     | 0.0%       |
| Period 3  | 0                     | 0.0%       |

|  |   |        |
|--|---|--------|
| End Stage                                |   |        |
| Period 1                                 | 0 | 0.0%   |
| Period 2                                 | 0 | 0.0%   |
| Period 3                                 | 0 | 0.0%   |
| Documentation Assessment                 |   |        |
| Period 1                                 | 0 | 0.0%   |
| Period 2                                 | 0 | 0.0%   |
| Period 3                                 | 0 | 0.0%   |
| Patients Managed Appropriately           | 0 | 0.0%   |
| HAART                                    |   |        |
| Total number of patients on HAART        | 0 | 0.0%   |
| CD4 0-199                                | 0 | 0.0%   |
| CD4 200-349                              | 0 | 0.0%   |
| CD4 350-499                              | 0 | 0.0%   |
| CD4 greater than or equal to 500         | 0 | 0.0%   |
| Viral Load less than 400                 | 0 | 0.0%   |
| Viral Load greater than or equal to 400  | 0 | 0.0%   |
| Viral Load not assessed in past 6 months | 0 | 0.0%   |
| NO HAART                                 |   |        |
| Total # of patients                      | 6 | 100.0% |
| CD4 0-199                                | 0 | 0.0%   |
| CD4 200-349                              | 0 | 0.0%   |
| CD4 350-499                              | 0 | 0.0%   |
| CD4 greater than or equal to 500         | 0 | 0.0%   |
| Prophylaxis                              |   |        |
| PCP                                      | 0 | 0.0%   |
| MAC                                      | 0 | 0.0%   |
| Screening Indicators                     |   |        |
| Lipid Profile                            |   |        |
| Total # received lipid profile           | 0 | 0.0%   |
| Total # on ARV Regimen                   | 0 | 0.0%   |
| Total # refused Profile                  | 0 | 0.0%   |
| PPD Screening                            |   |        |
| Total # of TB tests needed               | 4 | 66.7%  |
| PPD Received                             | 0 | 0.0%   |
| PPD+                                     | 0 | 0.0%   |
| Treatment Provided                       | 0 | 0.0%   |
| PPD-                                     | 0 | 0.0%   |
| PPD Refused                              | 0 | 0.0%   |
| PPD Unknown                              | 0 | 0.0%   |
| Hepatitis C Screening                    |   |        |
| Total # screened                         | 1 | 16.7%  |
| Syphilis Screening                       |   |        |
| Total # screened                         | 0 | 0.0%   |
| Reactive                                 | 0 | 0.0%   |
| Non-Reactive                             | 0 | 0.0%   |
| Refused                                  | 0 | 0.0%   |
| NMI                                      | 0 | 0.0%   |
| Undetermined                             | 0 | 0.0%   |
| Chlamydia Screening                      |   |        |
| Total # screened                         | 0 | 0.0%   |
| Total # of men screened                  | 0 | 0.0%   |
| Total # of women screened                | 0 | 0.0%   |

|  |   |                       |
|--|---|-----------------------|
| Total Positive   | 0 | 0.0%                  |
| Total Negative   | 0 | 0.0%                  |
| Total Refused  | 0 | 0.0%                  |
| NMI  | 0 | 0.0%                  |
| Undetermined   | 0 | 0.0%                  |
| Gonorrhea Screening  |   |                       |
| Total # screened   | 0 | 0.0%                  |
| Total # of men screened  | 0 | 0.0%                  |
| Total # of women screened  | 0 | 0.0%                  |
| Total Positive   | 0 | 0.0%                  |
| Total Negative   | 0 | 0.0%                  |
| Total Refused  | 0 | 0.0%                  |
| NMI  | 0 | 0.0%                  |
| Undetermined   | 0 | 0.0%                  |
| Colorectal Cancer Screening (CRC)                                |   |                       |
| Total # screenings needed  | 5 | 83.3%                 |
| CRC screens performed w/in 10yrs<br>prior to the report end date | 1 | 20.0%                 |
| CRC screens refused w/in 10 yrs<br>prior to the report end date  | 0 | 0.0%                  |
| General Medical Care Exams - Yearly                              |   |                       |
| Ophthalmology care   | 0 | 0.0%                  |
| Oral Health  | 0 | 0.0%                  |
| Pap smear (women)  | 0 | 0.0%                  |
| Vaccination  |   |                       |
| Pneumovax w/in 5 yrs of report end<br>date OR 2 ever             | 2 | 33.3%                 |
| Tetanus w/in 10 yrs of report end date                           | 3 | 50.0%                 |
| Substance Use Screening and Mental Health Screening              |   |                       |
| Tobacco Use Screening  | 0 | 0.0%                  |
| Current Tobacco User   | 0 | 0.0%                  |
| If Yes, Counseled  | 0 | 0.0%                  |
| Not a Current User   | 0 | 0.0%                  |
| Not Documented   | 0 | 0.0%                  |
| Substance Use Screening  | 0 | 0.0%                  |
| Mental Health Screening  |   |                       |
| Total # Who Received All Components                              | 0 | 0.0%                  |
| Cognitive Function   | 0 | 0.0%                  |
| Depression   | 0 | 0.0%                  |
| Anxiety  | 0 | 0.0%                  |
| Sleep  | 0 | 0.0%                  |
| Appetite   | 0 | 0.0%                  |
| Domestic Violence  | 0 | 0.0%                  |
| Post-Traumatic Stress Disorder                                   | 0 | 0.0%                  |
| Psychosocial Assessment  | 0 | 0.0%                  |
| Patient Education  |   |                       |
| Safe Sex education   | 0 | 0.0%                  |
| Family Planning education  | 0 | 0.0%                  |
| HIV/AIDS related education                                       | 0 | 0.0%                  |
| AA   |   | APR 17, 2015 09:16:23 |
| 2013 DEMO HOSPITAL   |   |                       |

HMS CUMULATIVE AUDIT REPORT  
HIV QUALITY OF CARE  
HIV Patients  
HIV/AIDS Diagnostic Tag: Proposed and Accepted  
PERIOD ENDING: Apr 17, 2015  
\*\*\*\* CONFIDENTIAL PATIENT INFORMATION \*\*\*\*

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HMS Quality of Care Report

This report includes all patients who meet the criteria of the selected denominator:

1) HMS Register Status Active with HMS Dx Category values empty, HIV or AIDS (i.e., no "At Risk" patients);

OR

2) Proposed and/or Accepted Dx tag of HIV/AIDS (user selects either or both Tag Status);

OR

3) Specific patients on the grid.

Any denominator is filtered automatically by the following logic: patients must have at least one HIV/AIDS POV or Active Problem List or HMS Initial HIV Dx Date or HMS Initial AIDS Dx Date 6 months or more prior to report end date.

Total patients reviewed (All patients in denominator): 35

Number of Patients included on Report (filtered denominator): 12

Number of Patients NOT included on Report: 23

AA APR 17, 2015 09:16:23

2013 DEMO HOSPITAL  
HMS CUMULATIVE AUDIT REPORT  
HIV QUALITY OF CARE  
HIV Patients  
HIV/AIDS Diagnostic Tag: Proposed and Accepted  
PERIOD ENDING: Apr 17, 2015  
\*\*\*\* CONFIDENTIAL PATIENT INFORMATION \*\*\*\*

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The following user selected patients are included on this report:

| PATIENT NAME    | HRN    | AGE | SEX | REG DX | INITIAL HIV DX DATE | INITIAL AIDS DX DATE | TAG STATUS |
|-----------------|--------|-----|-----|--------|---------------------|----------------------|------------|
| TEST,PATIENT AA | nnnnnn | nn  | F   | HIV    | 01/01/1981          |                      | A          |
| TEST,PATIENT AB | nnnnnn | nn  | F   | AIDS   | 01/01/2000          | 01/01/2000           | V          |
| TEST,PATIENT AC | nnnnnn | nn  | F   | HIV    | 02/01/2008          |                      | V          |
| TEST,PATIENT AD | nnnnnn | nn  | M   | HIV    | 08/24/1995          |                      | A          |
| TEST,PATIENT AE | nnnnnn | nn  | F   | AIDS   | 06/02/2005          | 06/17/2007           | V          |
| TEST,PATIENT AF | nnnnnn | nn  | F   | HIV    | 01/01/2006          |                      | V          |
| TEST,PATIENT AG | nnnnnn | nn  | M   | HIV    | 02/01/2008          |                      | V          |

|                 |        |    |   |      |            |            |   |
|-----------------|--------|----|---|------|------------|------------|---|
| TEST,PATIENT AH | nnnnnn | nn | F | HIV  | 02/01/2008 |            | V |
| TEST,PATIENT AI | nnnnnn | nn | F | HIV  | 11/01/2001 |            | V |
| TEST,PATIENT AJ | nnnnnn | nn | M | HIV  | 12/01/2003 |            | A |
| TEST,PATIENT AK | nnnnnn | nn | M | AIDS | 03/26/2007 | 05/06/2008 | V |
| TEST,PATIENT AL | nnnnnn | nn | F | HIV  | 04/05/1968 |            | V |

ALA

Oct 02, 2008  
 DEMO HOSPITAL  
 HMS CUMULATIVE AUDIT REPORT  
 HIV QUALITY OF CARE  
 Copy of HMS patients  
 Active HMS Register Patients  
 PERIOD ENDING: Oct 01, 2008

\*\*\*\* CONFIDENTIAL PATIENT INFORMATION \*\*\*\*

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The following user selected patients are NOT included in the report:

| PATIENT NAME    | HRN    | AGE | SEX | REG  | DX | INITIAL HIV DX DATE | INITIAL AIDS DX DATE | TAG | STATUS |
|-----------------|--------|-----|-----|------|----|---------------------|----------------------|-----|--------|
| TEST,PATIENT BA | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BB | nnnnnn | nn  | M   |      |    |                     |                      |     | V      |
| TEST,PATIENT BC | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BD | nnnnnn | nn  | F   | HIV  |    | 06/02/2008          |                      |     | V      |
| TEST,PATIENT BE | nnnnnn | nn  | M   | AIDS |    | 06/02/2008          | 06/05/2008           |     | V      |
| TEST,PATIENT BF | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BG | nnnnnn | nn  | F   | HIV  |    | 06/02/2008          |                      |     | V      |
| TEST,PATIENT BH | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BI | nnnnnn | nn  | M   |      |    |                     |                      |     | V      |
| TEST,PATIENT BJ | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BK | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BL | nnnnnn | nn  | M   |      |    |                     |                      |     | V      |
| TEST,PATIENT BM | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BN | nnnnnn | nn  | M   |      |    |                     |                      |     | V      |
| TEST,PATIENT BO | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BP | nnnnnn | nn  | M   |      |    |                     |                      |     | V      |
| TEST,PATIENT BQ | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BR | nnnnnn | nn  | M   | HIV  |    | 06/03/2008          |                      |     | V      |
| TEST,PATIENT BS | nnnnnn | nn  | M   | HIV  |    | 05/07/2008          |                      |     | V      |
| TEST,PATIENT BT | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |
| TEST,PATIENT BU | nnnnnn | nn  | F   | AIDS |    |                     |                      |     | V      |
| TEST,PATIENT BV | nnnnnn | nn  | M   |      |    |                     |                      |     | V      |
| TEST,PATIENT BW | nnnnnn | nn  | F   |      |    |                     |                      |     | V      |

\*\*\*\* END CONFIDENTIAL PATIENT INFORMATION \*\*\*\*

## Appendix F: HMS Patient Care Supplement

### F.1 Supplement Logic

| ITEM                             | DESCRIPTION   | HOW DATA OBTAINED FROM RPMS  |
|----------------------------------|---|--|
| Report Date                      | Date Health Supplement was generated  | Date Health Supplement was generated   |
| Patient's Name                   | Last Name, First Name, Middle Initial of patient.                                 | Patient File   |
| HRN                              | Patient's Health Record Number  | Patient Registration   |
| Sex                              | Gender of patient   | Patient Registration   |
| DOB                              | Patient's date of birth (mmm/dd/yyyy)   | Patient Registration   |
| Age                              | Age of patient in years on the date the summary was generated                     | Calculated   |
| Designated Primary Care Provider | Name of the Primary Care Provider on the date the Health Supplement was generated | Designated Specialty Provider Management System (DSPM) or Patient File   |
| HIV Provider                     | Name of the HIV Provider  | Designated Specialty Provider Management System (DSPM) or Patient File   |
| HIV Case Manager                 | Name of HIV Case Manager  | Designated Specialty Provider Management System (DSPM) or Patient File   |
| Last Height                      | The last height in inches and the date of the last height                         | PCC V Measurement. The last height value in inches and the date of the last height recorded in PCC is displayed  |
| Last Weight                      | The last weight in pounds and the date of the last weight                         | PCC V Measurement. The last weight value in pounds and the date of the last weight recorded in PCC is displayed  |
| BMI                              | The BMI is calculated using the last height and weight data for the patient       | Calculated using NHANES II. For ages 18 and under, the most recent height and weight must be taken on the same day. For ages 19 through 50, both the most recent height and weight must be documented within last five years, not required to be on same day. For ages over 50, both the most recent height and weight must be documented within last two years, not required to be on same day.<br>If BMI cannot be calculated, display "BMI cannot be calculated with current data." |
| Register Diagnosis               | Field value and date. Assigned by HMS user.                                       | HMS, field [Register Diagnosis] + [Diagnosis Date]   |
| Register Status                  | Most recent field value and date assigned.  | HMS field [Register status] + [Date assigned]  |
| HIV/ AIDS Diagnostic Tag Status  | Most recent field value and date assigned.  | iCare field [HIV/ AIDS Diagnostic Tag Status] + [Date Assigned]  |

| ITEM   | DESCRIPTION   | HOW DATA OBTAINED FROM RPMS  |
|--|---|--|
| HIV Clinical Classification                        | Field value and date. The HIV/AIDS related clinical category of either: A-1; A-2; A-3; B-1; B-2; B-3; C-1; C-2; or C-3; as assigned by the HMS user | HMS, field [Clinical Classification] + [Clinical Classification Date]  |
| Diagnosis Comments                                 | Field value and date. Entered by the HMS user   | HMS, field [Diagnosis Comment]   |
| Initial HIV diagnosis                              | Date assigned by HMS user; generally the first recorded date of either a positive HIV test or an HIV diagnosis                                      | HMS, field [Date of Initial HIV Dx]<br>If no field value, use logic provided for field default value. Add [**] at the end of the date value to indicate the value is not in the Register. Otherwise, no value.   |
| Initial AIDS diagnosis                             | Date assigned by HMS user; the first recorded date of an AIDS diagnosis   | HMS, field [Date of Initial AIDS Dx]<br>If no field value, use logic provided for field default value. Add [**] at the end of the date value to indicate the value is not in the Register. Otherwise, no value.  |
| Opportunistic infections / AIDS Defining Illnesses | A list of any incidence of Opportunistic infections (OI) or AIDS Defining Illnesses (ADI) recorded on the patient's Problem List.                   | The PCC Problem List file is scanned for any diagnoses contained in the DX.1 and DX.8 diagnosis definitions.<br>If found, a list of OI or ADI will be displayed; [Onset date] + [Entry Date] + [ICD9] + [ICD Narrative] + [Provider Narrative] + [Status of Problem].<br>If the Problem List entry has no onset date, display the Entry date. If the Problem List has an onset date and an entry date that are different, display both dates. Display list in reverse order, most recent first.  |
| State Notification(s)                              | Status and date the state of residence was notified of HIV/AIDS diagnosis   | HMS, field [State Reporting Category] + [State Reporting Status] + [State Reporting Date], if any  |
| Partner Notification                               | Status whether the patient's partner was notified   | HMS, field [Partner Notification Status] + [Date of Assessment]  |
| Last 6 CD4   | The six most recent CD4 lab tests and results, if available   | Look for the six most recent CD4 lab tests not on the same day defined in the T.1 (CD4 Absolute) and T.2 (CD4 All Tests) definitions. For each visit date with any CD4 test, if there is no test that meets the CD4 Absolute definition, then use the CD4 All Tests definition. <i>Only results for CD4 Absolute tests should be displayed.</i><br>Only display one test for any date; if there are two CD4 Absolute tests documented on the same day, display the test with a result.<br>If found, the results (for CD4 Absolute only) and respective dates will be displayed, most recent value first. |



| ITEM                      | DESCRIPTION   | HOW DATA OBTAINED FROM RPMS  |
|---------------------------|---|--|
| Last 6 HIV/RNA Viral Load | The six most recent HIV/RNA Viral Load lab test results | Look for the six most recent lab tests not on the same day contained in the T.26 (HIV Viral Load Tests) definitions. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. Once found, the results and respective dates will be displayed, most recent value first.   |
| Lipid Profile             | The last Lipid Profile Results                          | Look for the last panel contained in the T.30 (Lipid Profile). Once found, display all tests contained in the panel, if any, for the most recent date. If none found, then the refusals file is scanned for a patient refusal of a Lipid Profile. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in result label.<br>NOTE: Panels will have multiple line values. Display ALL of the related test data in the panel.  |
| RPR                       | The last RPR result                                     | Look for the last test contained in the T.22 (RPR) definitions. Once found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. If none found, then the refusals file is scanned for a patient refusal of an RPR. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.  |
| PAP Smear                 | The last Pap Smear result                               | Look for the last test or procedure contained in the T.20 (Pap Smear) definitions. Once found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. If none found, then the refusals file is scanned for a patient refusal of a Pap Smear. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label. If patient is Male, display "Not Applicable" |
| Chlamydia                 | The last Chlamydia test result                          | Look for the last test contained in the T.3 (Chlamydia Test) definitions. Once found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. If none found, then the refusals file is scanned for a patient refusal of a Chlamydia Test. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.  |

| ITEM            | DESCRIPTION   | HOW DATA OBTAINED FROM RPMS   |
|-----------------|---|---|
| Gonorrhea       | The last Gonorrhea test result  | Look for the last test contained in the T.10 (Gonorrhea Test) definitions. Once found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. If none found, then the refusals file is scanned for a patient refusal of a Gonorrhea Test. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.  |
| Hepatitis Panel | <p>The last Hepatitis Panel test results. Depending on the site-specific definition, all or some of the following tests may be displayed.</p> <p>Hepatitis A Antibody (HAAb) IgM antibody;<br/> Hepatitis A Antibody (HAAb) IgG<br/> Hepatitis B Core Antibody (HbcAb) IgM antibody;<br/> Hepatitis C Antibody<br/> Hepatitis C Screen<br/> Hepatitis C Confirm<br/> Hepatitis B surface Antigen (HbsAg).<br/> Hepatitis B Surface Antibody (HBs Antibody)<br/> Hepatitis B Virus Core Total Antibody</p> | <p>Look for the last panel contained in the T.29 (Hepatitis Panel) definitions. Once found, the dates and results for each element of the panel are displayed respectively. If none found, then the refusals file is scanned for a patient refusal of a Hepatitis Panel. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.</p> <p>NOTE: Panels will have multiple line values<br/> Display ALL of the related test data in the panel.</p>  |
| Hep A           | The most recent Hep A tests not included in a panel   | <p>Look for the last test contained in the T.31 (Hepatitis A) definitions. If there was a documented Hepatitis Panel (see above) and the Hep A test date is not later (more recent) than the Panel date, do not display.</p> <p>If found, the date and result are displayed respectively. If more than one test on the same day meets the Hep A definition, display ALL tests names and results.</p> <p>If none found, then the refusals file is scanned for a patient refusal of Hep A. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NME) in Result label.</p> |

| ITEM          | DESCRIPTION   | HOW DATA OBTAINED FROM RPMS   |
|---------------|---|---|
| Hep B         | The most recent Hep B test not included in a panel. | <p>Look for the last test contained in the T.27 (Hepatitis B) definitions. If there was a documented Hepatitis Panel (see above) and the Hep B test date is not later (more recent) than the Panel date, do not display.</p> <p>If found, the date and result are displayed respectively. If more than one test on the same day meets the Hep B definition, display ALL test names and results.</p> <p>If none found, then the refusals file is scanned for a patient refusal of Hep B. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.</p>  |
| Hep C         | The most recent Hep C test not included in a panel. | <p>Look for the last test contained in either the T.13 (Hepatitis C Screening) or T.14 (Hepatitis C Confirmatory) definitions. If there was a documented Hepatitis Panel (see above) and the Hep C test date is not later (more recent) than the Panel date, do not display.</p> <p>If found, the dates and results are displayed respectively. If more than one test on the same day meets the Hep C definition, display ALL test names and results.</p> <p>If none found, then the refusals file is scanned for a patient refusal of Hep C. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.</p> <p>If the test meets the T.13 Hep C Screening definition, add text “[SCREENING]” to the Hep C: label. If the test meets the T.14 Hep C Confirmatory definition, add “[CONFIRMATORY]” to the label.</p> |
| CMV           | The last <u>Cytomegalovirus</u> test                | <p>Look for the last test contained in the T.6 (CMV test) definitions. If found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. If none found, then the refusals file is scanned for a patient refusal of a CMV test. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.</p>  |
| Toxoplasmosis | The last Toxoplasmosis test                         | <p>Look for the last test contained in the T.28 (Toxoplasmosis) definitions. If found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. If none found, then the refusals file is scanned for a patient refusal of a Toxoplasmosis test. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.</p>  |

| ITEM                      | DESCRIPTION  | HOW DATA OBTAINED FROM RPMS  |
|---------------------------|--|--|
| Cocci test                | The last Coccidiomycosis test                        | Look for the last test contained in the T.7 (Cocci Antibody Screen) definitions. Once found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result. If none found, then the refusals file is scanned for a patient refusal of a Cocci test. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label.   |
| PPD Skin Test             | The date of the last PPD applied and read            | Look for the last test contained in the T.21 (PPD (Tuberculosis Test)) definitions. Once found, the date and results are displayed. Only display one test for any date; if there are two tests documented on the same day, display the test with a result.<br><br>If none are found, then the PCC V POV are scanned for a diagnosis of V74.1 If one is found, the date is displayed along with a phrase "(by Diagnosis)". If none found, then the refusals file is scanned for a patient refusal of a PPD test. If a refusal is documented, indicate date and [refusal type] (e.g., REF, NMI) in Result label. |
| HIV Phenotype             | HIV Phenotype Testing                                | Look for the last five tests contained in the T.16 (HIV Phenotype) definitions. If found, display [Yes] + [Date] for each test. Do not display the results   |
| HIV Genotype              | HIV Genotype Testing                                 | Look for the last five tests contained in the T.15 (HIV Genotype) definitions. If found, display [Yes] + [Date] for each test. Do not display the results.   |
| Pneumococcal Immunization | The date of the last Pneumococcal Immunization given | Look for last immunization defined in IZ.6 (Pneumococcal) definitions. If found, the date is displayed. If none is found, the refusals file is checked to see if a refusal of a pneumococcal immunization is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label.   |
| Influenza Vaccine         | The date of the last Influenza Vaccine given         | Look for the last immunization contained in the IZ.5 (Influenza IZ) definitions. If found, the date is displayed. If none is found, the refusals file is checked to see if a refusal of an influenza immunization is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label.   |

| ITEM   | DESCRIPTION   | HOW DATA OBTAINED FROM RPMS  |
|--|---|--|
| Hepatitis A<br>Diagnosis and/or<br>Immunizations | The dates of any Hep A diagnosis and/or the last two Hepatitis A Immunizations given                                | <p>Look for most recent documented Hep A diagnosis (DX.5) in POV or Active Problem List and display, if any. Display the DX label even if no date is available.</p> <p>Look for the last two documented immunizations not on the same date contained in the IZ.3 (Hep A) definitions. The dates of the last two immunizations are displayed, most recent first. If only one immunization is documented, that date will be displayed. If none are found, the refusals file is checked to see if a refusal of a Hepatitis A Vaccine is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label.</p>                 |
| Hepatitis B<br>Diagnosis and/or<br>Immunizations | The dates of any Hep B diagnosis and/or the last 3 Hepatitis B Vaccines given                                       | <p>Look for most recent documented Hep B diagnosis (DX.15) in POV or Active Problem List and display, if any. Display the DX label even if no date is available</p> <p>Look for the last 3 documented immunizations not on the same date contained in the IZ.4 (Hep B) definitions. The dates of the last three immunizations are displayed, most recent first. If only one or two immunizations are documented, then those dates will be displayed. If none are found, the refusals file is checked to see if a refusal of a Hepatitis B Vaccine is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label.</p> |
| Tetanus Vaccine                                  | The date of the last Tetanus vaccine given  | Look for the last immunization contained in IZ.7 (Tetanus) definitions. If found, the date is displayed. If none is found, the refusals file is checked to see if a refusal of a tetanus immunization is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label.   |
| ARV Appropriate                                  | Display for the last 6 months any of the 3 field values associated with whether ARV is appropriate for the patient  | HMS: If any value in [ARV Appropriate] field, display [Date] + [ARV Appropriate] + [ARV Not Appropriate Reasons] + {ARV Comment} – because these are visit-related fields, there may be multiple values – display any values for last 6 months, with most recent at top  |
| ARV Adherence                                    | Display for the last six months any of the two fields associated with whether patient is adherent with ARV regimen. | HMS: If any value in [ARV Adherent] field, display [Date] + [ARV Adherent] + [ARV Adherent Comment] – because these are visit-related fields, there may be multiple values – display any values for last six months, with most recent at top   |

| ITEM                    | DESCRIPTION  | HOW DATA OBTAINED FROM RPMS   |
|-------------------------|--|---|
| Current ARV Medications | A list of ARV medications filled in past six months  | Look for any (non discontinued) prescriptions filled in the prior six months for medications defined in M.02 (NNRTIs), M.03 (NRTIs), M.05 (PIs) and M.09 (EIs); M.10 (IIs); M.11 (NRTI/NNRTIs); M.12 (NRTI Combo) and M.13(PI Booster). The names of each individual medication, date last filled, SIG and quantity will be displayed. List by date filled, with most current at top. If none are found, the refusal file is scanned for any refusal of any ARV medications. If found, indicate date and [refusal type] (e.g., REF, NMI) in Result label. |
| MAC and PCP Prophylaxis | A list of medications prescribed in the past six months for the prevention of MAC (Disseminated Mycobacterium Avium Complex) or PCP (Pneumocystis Carinii Pneumonia) | Look for any prescriptions filled in the prior six months for medications defined in M.01 (MAC Proph) or M.04 (PCP Prophylaxis) definitions. The names of each individual medication and the date last filled, SIG and quantity will be displayed. If none are found, the refusal file is scanned for any refusal of MAC pr PCP Prophylaxis medications. If found, indicate date and [refusal type] (e.g., REF, NMI) in Result label.   |
| Depression Screening    | Date the patient was most recently screened for Depression in the past year.   | Look for the last depression screening in the past year contained in the S.2 (Depression Screen) definitions.<br>If found, display date, code type and identifying code (e.g., POV, Patient Education code, etc.)   |
| IPV/DV Screening        | Date the patient was most recently screened for Intimate Partner/Domestic Violence in the past year.   | Look for the most recent IPV/DV screening in the past year contained in the S.6 (IPV/DV Screen) definitions.<br>If found, display date, code type and identifying code (e.g., POV, Patient Education code, etc.)<br>If patient is Male, display "Not Applicable"  |
| Alcohol Screening       | Date the patient was most recently screened for alcohol use in the past year.  | Look for the last alcohol screening in the past year contained in the S.1 (Alcohol Screen) definitions.<br>If found, display date, code type and identifying code (e.g., POV, Patient Education code, etc.)   |
| Dilated eye exam        | The date of the most recent dilated eye exam in the past year.   | Look for the most recent dilated eye exam performed in the past year, defined as P.03 (Eye Exam) in definitions table. If found, display date. If none is found, the refusal file is checked to see if a refusal of the dilated eye exam is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label.   |
| Dental exam             | Date of most recent documented dental exam.  | Look for the most recent dental exam performed in the past year, defined as P.02 (Dental Exam) in definitions table. If found, display date. If none is found, the refusal file is checked to see if a refusal of the dilated eye exam is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label.   |

| ITEM                  | DESCRIPTION   | HOW DATA OBTAINED FROM RPMS   |
|-----------------------|---|---|
| Mammogram:            | Date of most recent documented mammogram in the past year.                  | Look for the most recent mammogram performed in the past year, defined as P.05 (Mammogram) in definitions table. If none is found, the refusal file is checked to see if a refusal of the dilated eye exam is documented. If so, indicate date and [refusal type] (e.g., REF, NMI) in Result label. If patient is Male, display "Not Applicable"  |
| HIV-related education | List any patient education provided in the past year that is related to HIV | Look for any patient education documented in the past year defined in ED.1 (Family Planning), ED.2 (HIV), ED.3 (Safe Sex), or ED.4 (STD) definitions. If found, display date, + POV and Provider Narrative – OR Patient Education topic and provider initials.  |
| HIV-related Reminders | List any reminders here in due date order, beginning with overdue           | Look at all HMS related reminders and display all in order of most overdue first. Display [Name of Reminder] + [Date Last Done] + [Date Due]. Dates are displayed in mm/dd/yyyy format. If there is no 'Date last done' leave a blank space<br>NOTE: For PPD reminder, if patient has a history of Tuberculosis diagnosis (DX14) or history of positive PPD test (T.21), display [Name of Reminder (PPD)] + [the phrase "Diagnosis"] + [Date (if known)]. Positive PPD test results are defined in the reminder logic |

## F.2 Flow Sheet Logic

Look for the six most recent HIV Viral Load lab tests WITH RESULTS contained in the T.26 (HIV Viral Load Tests) definitions.

Look for the six most recent CD4 lab tests WITH RESULTS defined in the T.1 (CD4 Absolute Tests) and T.2 (CD4 Tests) definitions.

Display the results in columns associated with the date of the lab test. If both tests are within seven days of each other, they can counted in the same column. Some columns may only have one test. Only six columns can be displayed, so not all of the “found” lab values may be used.

List all ARV medications for this patient active on each of the column dates. ARV medications are defined in M.02 (NNRTIs), M.03 (NRTIs), M.05 (PIs) and M.09 (EIs); M.10 (IIs); M.11 (NRTI/NNRTI); M.12 (NRTI Combo); M.13 (PI Booster)

“Active” medication is defined as:

- Has not been discontinued as of column date (NOTE: a single prescription may be “active” for one date and discontinued by the second date)
- [Date filled] + [Days] equals or is greater than column date

## F.3 Example

```

***** CONFIDENTIAL PATIENT INFORMATION -- 03/13/2008 1:37 PM [CG] *****
***** HMS PATIENT CARE SUPPLEMENT *****

Report Date: 03/13/2008 Page: 1

Patient's Name: MOUSE, MICKEY HRN: 111111
Sex: M DOB: 12/06/1969 Age: 38Y
Designated Primary Care Provider: CPROVIDER
HIV Provider: APROVIDER
HIV Case Manager: BPROVIDER
Last Height: 70 11/10/2005 Last Weight: 212 07/20/2007
BMI: 30.4

Register Diagnosis: AIDS 03/06/2008
Register Status: Active 03/01/2008
HIV/ AIDS Diagnostic Tag Status: Accepted 03/01/2008
HIV Clinical Classification (A1-C3): C1 03/13/2008
Diagnosis Comments:
Initial HIV Diagnosis: 11/16/2005
Initial AIDS Diagnosis: 04/17/2006

Opportunistic infections and AIDS Defining Illnesses
Onset Entry ICD ICD Provider Status of
Date Date Code Narrative Narrative Problem
06/23/2006 112.0 CANDIDI- Candidiasis Inactive
ASIS OF
MOUTH
04/17/2006 05/01/2006 117.5 CRYPTO Cryptococcal Inactive
Meningitis
04/07/2006 486. PNEUM Pneumonia Active
ONIA,
ORGANISM
UNSPEC PNEUMONIA

State Notification(s):
Partner Notification:

RECENT LABORATORY RESULTS:
Last 6 CD4:

Last 6 HIV/RNA Viral Load:
Date: 04/08/2006 Result: >100000

Lipid Profile Date: 01/01/2006
RPR: Date: 04/07/2006 Result: NR
PAP: Not Applicable
Chlamydia:
Gonorrhea:
Hepatitis:
Hepatitis Panel: Date: 11/10/2005
HEPATITIS A,B,C PANEL
HBsAg HEP B SURFACE ANTIGEN Result:
HBcAb HEP B CORE ANTIBODY Result:
HCV-Ab HEPATITIS C ANTIBODY Result:
HEPATITIS A ANTIBODY TOTAL Result:
HAVAb IgG Result:

```



```

Hep A:
Hep B:
Hep C:
CMV:                Date: 04/08/2006 Result: 2.70
Toxoplasmosis:     Date: 04/08/2006 Result: 0.05
Cocci:
PPD:                Date: 02/22/2008 Result: POSITIVE 8

HIV Phenotype:
HIV Genotype:

LAST DOCUMENTED IMMUNIZATIONS:

Pneumococcal:      Date: 09/05/2006
Influenza:         Date: 11/16/2005
Hepatitis A (last 2):  Dx Date:
Hepatitis B (last 3):  Dx Date:
Tetanus:          Date: 11/16/2005

RECENT MEDICATIONS (past 6 months):

ARV Status:
  ARV Appropriate:
  ARV Adherence:

Current ARV Medications (past 6 months):

Prophylaxis Medications for MAC and/or PCP (past 6 months):

IN THE PAST 12 MONTHS:
Depression Screening:  Date: 08/14/2007  311.
IPV/DV Screening:    Date:
Alcohol Screening:   Date:
Dilated eye exam:    Date:
Dental exam:         Date: 08/03/2007

Last HIV-related education given (past 12 months):

Calculating HIV-RELATED REMINDERS - Please wait.

HIV-RELATED REMINDERS:
Reminder           Last           Due
Lipid Profile     01/01/2006    01/01/2007)
CD4               [today's date]
Viral Load       04/08/2006    08/08/2006)
PPD               02/22/2008    Positive Test Result
RPR Syphilis Test 04/07/2006    04/07/2007)
Hep C EIA Test    11/10/2005
Hep B Test        11/10/2005
Toxoplasmosis Test 04/08/2006    04/08/2007)
Chlamydia Test    [today's date]
Gonorrhoea Test   [today's date]
Hep B IZ          [today's date]
Hep A IZ          [today's date]
Pneumovax IZ     09/05/2006    09/05/2011
Influenza IZ     11/16/2005    11/16/2006)
Tetanus IZ       11/16/2005    11/16/2015

```

|                      |            |          |          |                |          |          |
|----------------------|------------|----------|----------|----------------|----------|----------|
| Dilated Eye Exam     | 10/15/1996 |          |          | 10/15/1997)    |          |          |
| Dental Exam          | 08/03/2007 |          |          | 08/03/2008     |          |          |
| Safe Sex Educ        |            |          |          | [today's date] |          |          |
| Family Planning Educ |            |          |          | [today's date] |          |          |
| HIV FLOW SHEET       |            |          |          |                |          |          |
|                      | mm/dd/yy   | mm/dd/yy | mm/dd/yy | mm/dd/yy       | mm/dd/yy | mm/dd/yy |
| Viral Load           | ###.#      | ###.#    |          | ###.#          | ###.#    |          |
| CD4 Count            | ###.#      | ##.#     | ##.#     |                | ###.#    | ###.#    |
| [Rx Name #1]         | x          | x        |          |                | x        |          |
| [Rx #2]              |            | x        | x        | x              |          |          |
| [Rx #3]              |            |          |          |                | x        | x        |
| [Rx #4]              |            |          |          |                |          | x        |

# Glossary

## **AIDS Defining Illnesses**

AIDS Defining Illnesses are conditions that are used in conjunction with an HIV diagnosis to determine if a patient has progressed to AIDS. The definition of AIDS Defining Illness is established by the Centers for Disease Control (CDC) as part of its case definition of AIDS.

## **Community Alerts**

Alerts to the user showing the incidence of suicidal behavior, public health concerns and the Center for Disease Control's (CDC) Nationally Notifiable Diseases (NND) about HIV/AIDS. During a nightly background job in iCare, POVs are mined for the incidence of each of these. The display of these community alerts are a user-specific preference, meaning that individual iCare users may choose whether or not to see a particular community alerts.

## **HIV/AIDS-related Reminders**

HIV/AIDS-related reminders are generated in order to remind the provider of the need for a particular lab test, procedure, immunization, health screen, or education session regarding HIV/AIDS patient care. These reminders are created based on current, expert recommendations and serve as a means to notify the provider when one of these functions is due or overdue. The decision to act on the reminder remains a clinical decision.

## **HMS Patient Care Supplement**

Data that displays in a pop-up window that displays information specifically related to HIV/AIDS. The provider will be able to see, at a glance, the relevant labs, related diagnoses, medications and reminders.

## **Opportunistic Infections**

Opportunistic infections are conditions that many HIV/AIDS patients contract. HIV doesn't kill anybody directly but rather weakens the body's ability to fight disease. Infections that are rarely seen in those with normal immune systems are serious and may be deadly to those with HIV. They need to be treated, and some can be prevented. Many of these conditions are considered reportable to the State Health Department.

## **Panel**

A panel is an automated tool for maintaining a list of patients who meet criteria set by the user and providing various condition-specific reports, reminders, and plans to assist providers in managing the disease or condition.

**Quality of Care**

The Quality of Care (QOC) provides a snapshot of key care indicators for HIV/AIDS patients at your site. Use the report to assess how well care is being extended to HIV/AIDS patients at your site, and to justify activities at your site.

**State Surveillance Report**

The State Surveillance report is a multi-page report that can be filled out and sent to the state when a patient has been diagnosed with HIV or AIDS. The report format is based on standard CDC reporting requirements.

**Tagging**

Tagging is a term that refers to running a series of logic algorithms on one or multiple patients that identifies (tags) them with one or more diagnoses. These definitions are defined nationally and are consistent with other RPMS applications.

**Taxonomy**

A taxonomy is the RPMS structure that holds the codes or terms that comprise any clinical definitions used by iCare and other RPMS clinical applications to calculate reminders and construct reports.

## Acronym List

| Acronym       | Term Meaning   |
|---------------|--|
| <b>AIDS</b>   | Acquired Immunodeficiency Syndrome   |
| <b>ARV</b>    | Antiretroviral Therapy   |
| <b>CDC</b>    | Center for Disease Control and Prevention  |
| <b>DOB</b>    | Date of Birth  |
| <b>DSPM</b>   | Designated Specialty Provider Management System  |
| <b>HAART</b>  | Highly Active Antiretroviral Therapy   |
| <b>PLWH/A</b> | Patients Living With HIV/AIDS  |
| <b>HMS</b>    | HIV Management System  |
| <b>HRN</b>    | Health Record Number   |
| <b>HRSA</b>   | Health Resources and Services Administration   |
| <b>HIV</b>    | Human Immunodeficiency Virus   |
| <b>IHS</b>    | Indian Health Service  |
| <b>I/T/U</b>  | Indian Health Service/Tribal/Urban   |
| <b>LOINC</b>  | Standardized codes used to identify lab test in addition to site-populated lab test taxonomies |
| <b>NDS</b>    | National Drug Classification   |
| <b>NND</b>    | National Notifiable Diseases   |
| <b>POV</b>    | Purpose of Visit   |
| <b>PROC</b>   | ICS9 Procedure Codes   |
| <b>QOC</b>    | Quality of Care  |
| <b>RPMS</b>   | Resource and Patient Management System   |
| <b>SSR</b>    | State Surveillance Report  |
| <b>STD</b>    | Sexually Transmitted Disease   |

## Contact Information

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

**Phone:** (888) 830-7280 (toll free)

**Web:** <http://www.ihs.gov/helpdesk/>

**Email:** [support@ihs.gov](mailto:support@ihs.gov)