ICD-10 Follow On Class 1 Software Remediation Project

Automated Information Collection System (AICS)

Application Version 3.0

Release Notes

IBD*3.0*63

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Department of Veterans Affairs
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Product Development

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1. Introduction

1.1. Purpose

The purpose of these Release Notes is to identify enhancements that are contained in patch IBD*3.0*63 to the Automated Information Collection System (AICS) package.

This patch introduces the International Classification of Diseases, Tenth Revision (ICD-10) code set to replace the 30-year-old set of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) that medical personnel have been using. These code sets have the potential to reveal more about quality of care, so that data can be used in a more meaningful way to better understand complications, better design clinically robust algorithms, and better track the outcomes of care. ICD-10-CM also incorporates greater specificity and clinical detail to provide information for clinical decision making and outcomes research.

1.2. Background

On January 16, 2009, the Centers for Medicare & Medicaid Services (CMS) released a final rule for replacing the ICD-9-CM code set with ICD-10-CM and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) with dates of service or dates of discharge for inpatients that occur on or after the ICD-10 Activation Date.

The classification system consists of more than 68,000 codes, compared to approximately 13,000 ICD-9-CM codes. There are nearly 87,000 ICD-10-PCS codes, while ICD-9-CM has nearly 3,800 procedure codes. Both systems also expand the number of characters allotted from five and four respectively to seven alpha-numeric characters. This value does not include the decimal point, which follows the third character for the ICD-10-CM code set. There is no decimal point in the ICD-10-PCS code set. These code sets have the potential to reveal more about quality of care, so that data can be used in a more meaningful way to better understand complications, better design clinically robust algorithms, and better track the outcomes of care. ICD-10-CM also incorporates greater specificity and clinical detail to provide information for clinical decision making and outcomes research.

ICD-9-CM and ICD-10-CM Comparison

ICD-9-CM	ICD-10-CM
13,000 codes (approximately)	68,000 codes (approximately)
3-5 characters	3-7 characters (not including the decimal)
Character 1 is numeric or alpha (E or V)	Character 1 is alpha; character 2 is numeric
Characters 2 - 5 are numeric	Characters 3–7 are alpha or numeric (alpha characters are not case sensitive)
Decimal after first 3 characters	Same

ICD-9-CM and ICD-10-PCS Comparison

ICD-9-CM Procedure Codes	ICD-10-PCS
3-4 characters	7 alphanumeric characters
All characters are numeric	Characters can be either alpha or numeric. Letters O and I are not used to avoid confusion with the numbers 0 and 1.
All characters are numeric	Each character can be any of 34 possible values. The ten digits 0-9 and the 24 letters A-H, J-N and P-Z may be used in each character.
Decimal after first 2 characters	Does not contain decimals

1.3. Scope of Changes

> **NOTE: Existing ICD-9 functionality has not changed.**

Patch IBD*3*63 makes the following user-related changes to the AICS package:

- Added a new "Encounter Forms ICD-10 Update" report.
  - A new menu item—Encounter Forms > Reports and Utilities > Encounter Forms ICD-10 Update—was introduced to run this report. This new report allows you to display a list of Encounter Forms and Clinics after making selections from several input options. When the report has been displayed, you may then update the ICD-10 Status field.
  - Two date fields show the latest dates that the form was changed. The history fields contain the user ID (DUZ) of the person who last changed the files.
- Added ICD-10 Code selections in Encounter Forms and Maintenance Utility Active/Inactive Report.
- Added ICD-10 Code wildcard search help text, including a partial code wildcard search.
- The Replace Code option in the Maintenance Utility Report uses the approved standard Lexicon partial code search.
- The Problem List Package Interfaces are obsolete; therefore, the Problem List Package Interfaces are now Unavailable.
- User can now add or edit inactive codes on encounter forms, unless the code is currently INACTIVE because its last INACTIVE status date has been reached.

For technical information on changes for this patch, see section 5.

1.4. Documentation

The AICS user documentation is posted on the VistA Documentation Library (VDL) Automated Information Collection System (AICS) page.

The following AICS manuals are updated with changes for IBD*3*63:

- Technical Manual
- User Manual

The following manual does not require changes for this patch:

- Installation Guide

The following manual does not exist for the AICS package:

- Security Guide

2.   Encounter Forms Menu Option

The AICS package provides the ability to add, edit, enter and search ICD Diagnoses within more than one functional area. Changes for ICD-10 functionality pertain to editing Encounter Forms, editing the Tool Kit and updating the Maintenance Utility Report. Also, a new ICD-10 Status Update Report is now available from the *Reports and Utilities* option.

> **NOTE: If you are editing Encounter Forms with Lexicon User Filters in place, those filters will be honored <u>with the exception of</u> editing an ICD-9 block or editing an ICD-10 block within the encounter form. When editing ICD-9 blocks, you will be allowed to choose from any ICD-9 code; and when editing an ICD-10 block, you will be allowed to select any ICD-10 code, regardless of what Lexicon User Filters are in place.**
>
> **Users will be prompted for whether they wish to enter Active or Inactive Diagnosis Codes for both code sets.**

The AICS *Encounter Forms* menu below shows the options updated for ICD-10:

Current Encounter Forms Menu

```
IBDF ENCOUNTER FORM  Encounter Forms menu options:
EE      Edit Encounter Forms ...
PR      Print Options ...
PM      Print Manager ...
TK      Edit Tool Kit ...
DE      AICS Data Entry Menu ...
RU      Reports and Utilities ...
```

> **NOTE: Existing ICD-9 functionality has not changed.**

2.1.   Edit Encounter Forms Option

When defining a form block, you now have the option to choose ICD-10 Diagnosis Codes in the TYPE OF DATA selection.

Editing a Form Block, Updated with ICD-10 Selection

```
EDITING A FORM BLOCK            Feb 24, 2012@14:01:28       Page:    1 of    2
              1         2         3         4         5         6         7
    123456789 123456789 123456789 123456789 123456789 123456789 123456789 123456
  1 _____
  2 | P    S      CODE    ADD                              DIAGNOSIS
  3 |    |    |          |    |
  4 |    |    |          |    |
  5 |    |    |          |    |
  6 |    |    |          |    |
  7 |    |    |          |    |
  8 |    |    |          |    |
  9 |    |    |          |    |
 10 |
 11 |          Diagnosis
 12 | [ ] [ ] [ ]
 13 |  P   S  ADD
 14 |
```

```
  15 |_____
 +         Enter ?? for more actions                                      >>>
You can create a [N]ew list, edit its [A]ppearance, [D]elete it,
edit its [Co]ntents, [P]osition or size its columns.  Choose from:

[N]ew   [A]ppearance   [D]elete   [C]ontents   [P]osition: C// NEW
Select the TYPE OF DATA that the list will contain: DG
     1   DG APPOINTMENT DISPOSITION          TYPE=SELECTION
     2   DG SELECT CPT PROCEDURE CODES       TYPE=SELECTION
     3   DG SELECT ICD-10 DIAGNOSIS CODES    TYPE=SELECTION
     4   DG SELECT ICD-9 DIAGNOSIS CODES     TYPE=SELECTION
     5   DG SELECT VISIT TYPE CPT PROCEDURES TYPE=SELECTION
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5:
```

2.2. Edit Tool Kit Option

When defining a tool kit block, you now have the option to select ICD-10 Diagnoses.

Defining a Tool Kit Block, with ICD-10 Selection Displayed

```
EDIT TOOL KIT BLOCKS        Feb 24, 2012@14:08:06      Page:    3 of    4

 +    BLOCK NAME                    TK#  BRIEF DESCRIPTION
 35  CLINICAL REMINDERS FULL (V3.0)  35  Clinical Reminders w/ full display of
 36  CPT MODIFIER DISPLAY            36  Display CPT Modifiers (with sample mod
 37  CPT MODIFIER DISPLY W/O SAMPLE  37  Display CPT Modifiers (without sample
 38  BASIC DEMOGRAPHICS (MST)        38  Data fields - contains patient name,do
 39  HIDDEN CLASSIFICATN (V2.1 MST)  39  Classifications for visit - not scanna
 40  HIDDEN CLASSIFICATN (V3.0 MST)  40  Classifications for visit - scannable
 41  HIDDEN SC TREATMNT QUEST (MST)  41  Data fields-questions on SC of treatme
 42  HIDDEN SC/MST CLASSIFICATIONS   42  SC/MST classifications for visit - not
 43  MST STATUS DISPLAY              43  Display MST status code and descriptio
 44  SC CONDITIONS (V2.1 MST)        44  SC conditions,indicators,classificatio
 45  SC/MST CLASSIFICATION           45  SC/MST classifications for visit - sca
 46  BASIC DEMOGRAPHICS (V3.0)       46  Data fields - contains patient name,do
 47  PATIENT INFORMATION (V3.0)      47  Name,sex,DOB,PID,eligibilty,address,te
 48  GAF HAND PRINT V3.0             48  Previous GAF Score and Hand Print
 49  GAF DISPLAY V3.0                49  Previous GAF Score Display Only
 50  GAF SCORE MULT CHOICE V3.0      50  Previous and New GAF Score
 51  ICD-10 DIAGNOSES (V1.0)         51  Common ICD-10 diagnoses
 +         Enter ?? for more actions                                      >>>
EB  Edit Block            DB  Delete Block          CB  Copy Block
NB  New Block             CH  Change TK Order
Select Action: Next Screen//
```

In the Appearance definition for this new ICD-10 Diagnosis tool kit block, the subcolumn for displaying
the ICD-10 code allows a maximum of 8 characters and the short description allows a maximum of 30
characters.

Appearance Definition for ICD-10 Diagnoses

```
You can create a [N]ew list, edit its [A]ppearance, [D]elete it,
edit its [Co]ntents, [P]osition or size its columns.  Choose from:

[N]ew   [A]ppearance   [D]elete   [C]ontents   [P]osition: C// APPEARANCE   ICD-1
0 DIAGNOSES     Block: CINDY'S ICD-10 CODES   Form: WORKCOPY
NAME: ICD-10 DIAGNOSES//
WHAT TEXT SHOULD APPEAR AT THE TOP OF EACH COLUMN? (OPTIONAL):
```

```
SUBCOLUMN HEADER APPEARANCE:
HOW SHOULD THE SUBCOLUMNS BE SEPARATED?: SPACE/LINE/SPACE
         //
HOW SHOULD THE HEADER FOR EACH GROUP OF ENTRIES APPEAR? CHOOSE FROM {U,B,S,C}: S
C//
NUMBER OF ADDITIONAL LINES FOR EACH ENTRY ON LIST?: 0
         //
SHOULD EACH ENTRY ON THE LIST BE UNDERLINED? (YES/NO): NO
         //

You can now specify the subcolumns the list should contain.
There can be at most 6 subcolumns, numbered 1-6.

Available Data:
  1= CODE :8 char                       2= DIAGNOSIS :30 char
  3= DESCRIPTION :200 char              4= (N/A)
Select SUBCOLUMN NUMBER: 2//
```

2.3. Reports and Utilities Option

Patch IBD*3*63 creates a new report, ICD-10 Status Update Report. Also, the Maintenance Utility for Active/Inactive Codes Report now contains selections for ICD-10 codes.

2.3.1. Maintenance Utility for Active/Inactive Codes Report

You can now choose ICD-10 Diagnosis Codes to display or print on the Maintenance Utility Report in the Type of Code to Display selection. Depending on whether you select ACTIVE or INACTIVE, the report displays up to 8 characters for the ICD-10 code and as many characters of the ICD-10 short description as can display, with truncation as needed.

Maintenance Utility Report Selections, Updated for ICD-10

```
CHOOSE 1-5: 4  IBDF ENCOUNTER FORM      Encounter Forms


Select Encounter Forms Option: RU  Reports and Utilities


Select Reports and Utilities Option: MU  Maintenance Utility for Active/Inactive
 Codes
Sort by [C]linics, [G]roups, [F]orms: CLINICS//  (Individual)
Select Clinic: ALL//
Select Type of Code to Display: DG
     1   DG SELECT CPT PROCEDURE CODES          TYPE=SELECTION
     2   DG SELECT ICD-10 DIAGNOSIS CODES       TYPE=SELECTION
     3   DG SELECT ICD-9 DIAGNOSIS CODES        TYPE=SELECTION
     4   DG SELECT VISIT TYPE CPT PROCEDURES    TYPE=SELECTION
CHOOSE 1-4: 2  DG SELECT ICD-10 DIAGNOSIS CODES
Display codes [A]ctive, [I]nactive: ACTIVE//

Select ICD-10 code:
```

Example of Inactive ICD-10 Codes on Maintenance Utility Report

```
Maintenance Utility        Apr 07, 2012@18:15:46        Page:    1 of    4
This screen lists Inactive codes on  Encounter Forms.


        CODE       DESCRIPTION      BLOCK         FORM          CLINIC
```

```
                       TEST CLINIC ONE

     1) S62.001A  Unsp fracture o  ICD-10 DIAGNOS  TEST ONE         TEST CLINIC ONE
     2) S62.009D  Unsp fx navic b  ICD-10 DIAGNOS  TEST TWO         TEST CLINIC ONE
     3) S62.011B  Disp fx of dist  ICD-10 DIAGNOS  TEST TWO         TEST CLINIC ONE
     4) S62.013A  Disp fx of dist  ICD-10 DIAGNOS  TEST TWO         TEST CLINIC ONE
     5) S62.014P  Nondisp fx of d  ICD-10 DIAGNOS  TEST TWO         TEST CLINIC ONE
     6) S62.015D  Nondisp fx of d  ICD-10 DIAGNOS  TEST TWO         TEST CLINIC ONE
     7) S62.016G  Nondisp fx of d  ICD-10 DIAGNOS  TEST TWO         TEST CLINIC ONE

+        Enter ?? for more actions
CL  Change List          DL  Delete From List     JP  Jump
RC  Replace Code         IC  Invalid Code List    PL  Print List
Select Action: Next Screen//
```

> **NOTE: The Replace Code (RC) action in the Maintenance Utility Report uses the approved standard Lexicon partial code search.**

The Replace Code action in the Maintenance Utility Report prompt has changed depending upon which Type of Code you selected (ICD-9 or ICD-10).

Replace Code for ICD-9 Codes

```
Select Action: Next Screen// RC=3   Replace Code
Select ICD 9 DIAGNOSIS CODE NUMBER: 278.01   278.01          MORBID OBESITY
         ...OK? Yes// <RET>  (Yes)

Subcolumn Header:
Edit Subcolumn 3: MORBID OBESITY// <RET>
NARRATIVE TO SEND TO PCE: ??
     Enter the narrative that should be sent to PCE when this selection is
     scanned.  This will be the provider narrative that is shown in PCE. If there is
     no entry in this field the text as it appears
     on the form will be sent as the narrative.

     This field can only be entered for the type of interfaces that allow
     adding this narrative, and then send the narrative to PCE.
NARRATIVE TO SEND TO PCE:
```

Replace Code for ICD-10 Codes

```
Select Action: Next Screen// RC=3   Replace Code
Enter Diagnosis, a Code or a Code Fragment:

This prompt allows you to use the partial code search.
```

2.3.2. ICD-10 Status Update Report

This new report provides a list of Encounter Forms that require updates for ICD-10. You can display or print a Summary or a Detail report. A new action "IS" allows you to update ICD-10 status.

NOTE: This report will be useful during the time period when existing national and locally defined Encounter Forms are being updated to add or update ICD-10 diagnoses, as well as for future quarterly updates to ICD-10-CM.

Summary Report contains data listed in the following columns, in the order indicated:

- Entry: sequential number assigned to entries currently displayed
- Encounter Form: name up to 22 characters
- ICD9/ICD10: heading is in two rows without the dash. Depending on your prompt selections, the column contains "ICD9", ICD10", "BOTH", or blank if neither.
- Last Edited: one column each for ICD9 and ICD10. The date format is MM/DD/YY.
- ICD10 Status: blank if Incomplete, REV (Review) or COMP (Complete)
- Clinic: Clinic name up to 22 characters

Detail Report contains the data as described for the Summary Report as well as the following additional details listed underneath each Encounter Form that is included on the report:

- Name for each block on the Encounter Form that contains ICD-9 diagnosis code(s).
- ICD-9 code (up to 6 characters) and short description for each ICD-9 diagnosis on that block.
- Name for each block on the Encounter Form that contains ICD-10 diagnosis code(s).
- ICD-10 code (up to 8 characters, including decimal point after the 3rd character) and short description for each ICD-10 diagnosis on that block.

Example of Prompts for ICD-10 Status Update Summary Report

```
Select Reports and Utilities Option: UP  Encounter Forms ICD-10 Update

Sort by [C]linics, [G]roups, [F]orms: CLINICS//
     Select one of the following:
         AC        ALL CLINICS
         SC        SELECTED CLINICS
         RC        RANGE OF CLINICS

Selection type: ALL CLINICS//
     Select one of the following:
         9         ICD-9
         10        ICD-10
         B         Both
         N         Neither
         A         All

Contains ICD-9 and/or ICD-10 diagnosis codes:
  ICD-[9], ICD-[10], [B]oth, [N]either, [A]ll: ALL//   All
     Select one of the following:
         I          Incomplete
         C          Complete
         R          Review
```

```
          A          All

ICD-10 Update Status:
  [I]ncomplete, [C]omplete, [R]eview, [A]ll: ALL//   All
     Select one of the following:
          S          Summary Report
          D          Detail Report

Report Type:
  [S]ummary Report, [D]etail Report: SUMMARY//    Summary Report
```

Sort Selections

If you sort the report by Clinics, the report output is sorted first by Clinic name, in alphabetic order, then by Encounter Form name, in alphabetic order.

If you sort the report by Groups, the report output is sorted first by Clinic Group, in alphabetic order, then by Clinic name, in alphabetic order, then by Encounter Form name, in alphabetic order.

If you sort the report by Forms, the report output is sorted by Encounter Form name, in alphabetic order.

Example of ICD-10 Status Update Summary Report

```
ICD-10 Status Update Report   Feb 10, 2012@16:40:19      Page:   1 of   3
     ENCOUNTER FORM            ICD9/   LAST EDITED    ICD10  CLINIC
                               ICD10   ICD9    ICD10  STATUS

1)   NEW FORM                  ICD9  01/24/12 01/24/12 REV   AUDIOLOGY
2)   WHT RIVER TEST 83                         02/10/12 REV   AUDIOLOGY
3)   WHT RIVER TEST 83                         02/10/12 REV   TEST CLINIC
4)   PHILLY VASCULAR (DSD)     ICD9            02/10/12 COMP  CARDIOLOGY
5)   EF CLASS DEMO #303        ICD9            02/10/12 COMP  EF CLASS DEMO #303
6)   EF CLASS DEMO TWO #303                                  EF CLASS DEMO #303
7)   ONE TEST                                                ONE TEST
CLINIC
8)   VITALS-SLC                               02/10/12 COMP  HOUR CLINIC
9)   TWO TEST FORM            ICD9                           TWO TEST CLINIC
10)  TEST NEW FORM            BOTH  02/06/12 02/07/12 REV   TEST NEW
CLINIC
+         Enter ?? for more actions
CL  Change List          PL  Print List
JP  Jump List            IS  Status Update
Select Action: Next Screen// IS
```

Status Update Action

Initially, the IS action is blank (i.e., incomplete) for all Encounter Forms. You can select a single entry or a range of entries, and you are then prompted to change the update status to "Review" or "Complete".

Note: During the period of time when Encounter Forms are being updated for the initial activation of ICD-10, the ICD-10 Update Status "Incomplete" could be used to manage Encounter Forms that may have had none or only some ICD-10 diagnosis codes added; the Status "Review" could be used if ICD-10 diagnosis codes that have been added are impacted by an update to the ICD-10-CM code set; the Status "Complete" could be used if the Encounter Form's ICD-10 update has been completed. For future updates to the ICD-10-CM code set (i.e., subsequent to the initial ICD-10 activation), the "Review" status could be used to indicate which Encounter Forms may require updates based on ICD-10-CM codes that have been added, deleted, or updated in the ICD-10-CM code set; the Status "Complete" could be used when those Encounter Form updates have been completed.

3.   Adding ICD-10 Blocks

3.1.   DEFAULTS Form

One of the entries that is updated by the installation process is the DEFAULTS form in File #357, which contains all standard blocks. During installation the new ICD-10 block is added to the DEFAULTS form. This standard form is supposed to reside in all AICS databases and should not be deleted.

In case it was deleted for some reason, the IBD*3.0*63 installation process checks if the DEFAULTS form exists in the AICS environment. If it is not found, then a warning message is printed on the screen and to the installation log, and the following e-mail is sent to the person who is installing the patch or to the POSTMASTER user:

```
   The DEFAULTS form was not found in the environment and therefore the
installation process didn't add the new ICD-10 block to the DEFAULTS form.
   Please log a Remedy ticket to add the DEFAULTS form to your AICS
environment if you need it.
   When you have it in the environment you can use TK menu options to add the
ICD-10 block to the DEFAULTS form manually.
```

3.2.   Inactive Codes

Modifications implemented in the IBD*3.0*63 patch allow the user to add any ICD-10 code regardless of its current status (ACTIVE or INACTIVE), unless the last status of the code is INACTIVE and the effective date has been exceeded.

4. ICD-10 Search Functionality

The IBD*3*63 patch provides the ability to search on ICD-10-CM diagnosis codes when creating or editing Encounter Forms/blocks. Also, a wildcard search allows you to enter an "*" (asterisk) to select multiple, valid ICD-10 diagnosis codes for Encounter Forms. Whether the current date is prior to *or* on or after the ICD-10 Activation Date, you can access the ICD-10-CM code set.

> NOTE: Existing ICD-9 search functionality has not changed.

4.1. ICD-10-CM Diagnosis Code Search

The AICS ICD-10 diagnosis code search functionality allows you to select a single, valid ICD-10 diagnosis code and display its description. The user interface prompts you for input, invokes the Lexicon utility to get data, and then presents that data.

This search method provides a "decision tree" type search that uses the hierarchical structure existing within the ICD-10-CM code set, as defined in the ICD-10-CM Tabular List of Diseases and Injuries, comprising categories, sub-categories, and valid ICD-10-CM codes. A dash after a number indicates that it contains a sub-category.

ICD-10-CM diagnosis code search highlights include:

- The more refined the search criteria used (i.e., the more descriptive the search terms), the more streamlined the process of selecting the correct valid ICD-10 diagnosis code will be.
- You are presented with a manageable list of matching codes with descriptions, consisting of any combination of categories, sub-categories, and valid codes. The length of the list of items that is presented is set to a default of 20,000. If the list is longer, you are prompted to refine the search.
- You can "drill down" through the categories and sub-categories to identify the single, valid ICD-10-CM code that best matches the patient diagnosis.
- Short descriptions for the valid ICD-10-CM codes display.
- Partial code searches are also possible, as is full ICD-10-CM code entry, for situations where all or part of the code is known.

The AICS package provides the ability to search on ICD-10-CM diagnosis codes at the following prompts when editing Encounter Forms/blocks:

- Select ICD-10 DIAGNOSIS CODE NUMBER:
- Select a SECOND ICD-10 code to associate with the original:
- Select a THIRD ICD-10 code to associate with the original:

If a user enters fewer than two characters during a DIAGNOSIS code search, the system will respond with a prompt to explain the issue and provide a resolution:

```
SELECT ICD-10 DIAGNOSIS CODE NUMBER: e0

Enter 3 to 8 characters or '??' for more help.
```

Example of ICD-10 Diagnosis Code Search

```
Select Action: Next Screen// RC   Replace Code
Select Entry:  (1-7): 1
Enter Diagnosis, a Code or a Code Fragment: S62

7 matches found
    1.  S62.0-     Fracture of navicular [scaphoid] bone of wrist
                   (147)
    2.  S62.1-     Fracture of other and unspecified carpal bone(s)
                   (357)
    3.  S62.2-     Fracture of first metacarpal bone (231)
    4.  S62.3-     Fracture of other and unspecified metacarpal
                   bone (560)
    5.  S62.5-     Fracture of thumb (105)
    6.  S62.6-     Fracture of other and unspecified finger(s)
                   (490)
    7.  S62.9-     Unspecified fracture of wrist and hand (21)

 Select 1-7: 1

4 matches found
    1.  S62.00-    Unspecified fracture of navicular [scaphoid]
                   bone of wrist (21)
    2.  S62.01-    Fracture of distal pole of navicular [scaphoid]
                   bone of wrist (42)
    3.  S62.02-    Fracture of middle third of navicular [scaphoid]
                   bone of wrist (42)
    4.  S62.03-    Fracture of proximal third of navicular
                   [scaphoid] bone of wrist (42)

Select 1-4: 4
42 matches found
    1.  S62.031A   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of right Wrist, Initial Encounter
                   for closed Fracture
    2.  S62.031B   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of right Wrist, Initial Encounter
                   for open Fracture
    3.  S62.031D   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of right Wrist, Subsequent
                   Encounter for Fracture with Routine Healing
    4.  S62.031G   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of right Wrist, Subsequent
                   Encounter for Fracture with Delayed Healing
    5.  S62.031K   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of right Wrist, Subsequent
                   Encounter for Fracture with Nonunion
    6.  S62.031P   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of right Wrist, Subsequent
                   Encounter for Fracture with Malunion
    7.  S62.031S   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of right Wrist, Sequela
    8.  S62.032A   Displaced Fracture of Proximal third of
                   Navicular [Scaphoid] Bone of left Wrist, Initial Encounter
                   for closed Fracture

 Press <RETURN> for more, "^" to exit, or Select 1-8: 1
```

4.2.   ICD-10 Wildcard Search

The purpose of the ICD-10 wildcard search functionality for diagnosis code retrieval is to serve a specific user end goal, which is the selection of *multiple*, valid ICD-10 diagnosis codes (often related) to associate with specific functional elements, such as Encounter Forms.

Use the wildcard search when you are defining Encounter Forms and have previously identified the ICD-10 codes that you want to quickly and efficiently select.

ICD-10 wildcard search highlights include:

- This is a completely code-based search (i.e., not text-based). Two wildcard characters (***** and **?**) are used to assist with searches.

- If the search terms provided by the application consist of a string of characters (i.e., the search string) containing an * (asterisk) as the wildcard character (e.g., E08*, 005*), the system finds all ICD-10 codes that match the search terms, where zero or more alphanumeric characters (including the "X" placeholder character for ICD-10-CM diagnosis codes) exist at the position where the * exists in the search string.

- The * (asterisk) wildcard character can only appear in the last position of the search string.

- If the search terms provided by the application consist of a string of characters containing one or more ? (question mark) as the wildcard character (e.g. E1?.?0, 005??ZZ), the system finds all ICD-10 codes that match the search terms, where a single alphanumeric character (including the "X" placeholder character for ICD-10-CM diagnosis codes) exists at the position where a ? exists in the search string.

- The ? (question mark) wildcard character can appear anywhere in the search string, and can appear more than once. The system does not match a null (blank) value where a ? exists at the end of the search string.

- If the search terms provided by the application consist of a string of characters containing both an ***** <u>and</u> one or more **?** as wildcard characters (e.g., E2?.1*, 0SU?3*), the system finds all ICD-10 codes that match the search terms, where zero or more alphanumeric characters exist at the position where the * exists in the search terms and a single alphanumeric character exists at the position where a ? exists in the search string.

- The first 2 characters in the search string cannot consist of a wildcard character (* or ?).

- The system provides the code and long description for each ICD-10 diagnosis or procedure matching the search terms.

- You can select one or more ICD-10 codes from the list of matching codes, using a list, range, or combination.

- When editing an Encounter Form, you can enter a partial code without using any wildcard characters (e.g., E08, 005), in order to select a group of ICD-10 codes all at once, with the individual ICD-10 codes and descriptions not displayed.

- Entering ^ saves your selection and exits the search.

A wildcard search entry works differently from a selection list. If you answer "Yes" to automatically select ICD-10 codes, then a selection list does NOT display. The selection automatically prompts you for the NEXT available ICD-10 code based on the wildcard entry that you entered.

Automatic Selection of ICD-10 Codes in Wildcard Search

```
Select Action: Quit// AS   Add Selection
SELECT ICD-10 DIAGNOSIS CODE NUMBER: E16*

There are 7 ICD-10-CM diagnosis codes that begin with E16*. Do you wish to
automatically add all of these diagnosis codes to this block? No// Y  (Yes)

E16.0     Drug-induced hypoglycemia without coma    First available ICD-10 code

Select SELECTION GROUP HEADER: GROUP ONE        1    ICD-10 DIAGNOSES
PRINT ORDER WITHIN GROUP: 3// 3
Select a SECOND ICD-10 code to associate with the original:
Select a THIRD ICD-10 code to associate with the original:

Subcolumn Header: DIAGNOSIS
Edit Subcolumn 3: Drug-induced hypoglycemia without coma
  Replace
NARRATIVE TO SEND TO PCE:
CLINICAL LEXICON ENTRY: E16.0//

  Drug-Induced Hypoglycemia without Coma (ICD-10-CM E16.0)

    Ok?  YES//   YES  Drug-Induced Hypoglycemia without Coma (ICD-10-CM E16.0)

>>>  ICD-10-CM Code:   E16.0
Now for another!
Automatic selection continued:

E16.1     Other hypoglycemia    Next available ICD-10 code

Select SELECTION GROUP HEADER: GROUP ONE        1    ICD-10 DIAGNOSES

    Ok?  (Yes/No) Yes//   YES

Select SELECTION GROUP HEADER: GROUP ONE        1    ICD-10 DIAGNOSES
PRINT ORDER WITHIN GROUP: 4// 4
Select a SECOND ICD-10 code to associate with the original:
Select a THIRD ICD-10 code to associate with the original:

Subcolumn Header: DIAGNOSIS
Edit Subcolumn 3: Other hypoglycemia
NARRATIVE TO SEND TO PCE:
CLINICAL LEXICON ENTRY: E16.1//

Other Hypoglycemia (ICD-10-CM E16.1)

    Ok?  YES//   YES  Other Hypoglycemia(ICD-10-CM E16.1)

>>>  ICD-10-CM Code:   E16.1
Now for another!
Automatic selection continued:         Next available ICD-10 code

E16.2   Hypoglycemia, unspecified
```

```
Select SELECTION GROUP HEADER: GROUP ONE        1      ICD-10 DIAGNOSES

    Ok?  (Yes/No) Yes//    YES
```

```
Select SELECTION GROUP HEADER: GROUP ONE      1      ICD-10 DIAGNOSES
PRINT ORDER WITHIN GROUP: 5// 5
Select a SECOND ICD-10 code to associate with the original:
Select a THIRD ICD-10 code to associate with the original:


Subcolumn Header: DIAGNOSIS
Edit Subcolumn 3: Hypoglycemia, unspecified
NARRATIVE TO SEND TO PCE:
CLINICAL LEXICON ENTRY: E16.2//


Hypoglycemia, unspecified (ICD-10-CM E16.2)

    Ok?  YES//  YES  Hypoglycemia, unspecified (ICD-10-CM E16.2)

>>>  ICD-10-CM Code:   E16.2
Now for another!
Automatic selection continued:
```

- **Selections continue through the 7 available diagnoses**
- **A list displays of the 7 diagnoses you added**
- **A Selection List Display shows all selections for the Encounter Form**

```
7 Diagnosis Added.

Drug-induced hypoglycemia without coma (ICD-10-CM E16.0)
Other hypoglycemia (ICD-10-CM E16.1)
Hypoglycemia, unspecified (ICD-10-CM E16.2)
Increased secretion of glucagon (ICD-10-CM E16.3)
Increased secretion of gastrin (ICD-10-CM E16.4)
Other specified disorders of pancreatic internal secretion (ICD-10-CM E16.8)
Disorder of pancreatic internal secretion, unspecified (ICD-10-CM E16.9)

Enter RETURN to continue or '^' to exit: <RET>
Please wait while I build the list............

Selection List Display        Feb 14, 2012@15:53:30        Page:    1 of    1
This screen displays the selection list for 'ICD-10 DIAGNOSES (V1.0)'
on Encounter Form 'TEST ONE CLINIC FORM'
      CODE     ORDER   NARRATIVE
               1                 GROUP ONE
   1) S62.001A 1       Unsp fracture of navicular bone of right wrist, init
   2) S62.001D 2       Unsp fx navicular bone of r wrist, subs for fx w routn
   3) E16.0    3       Drug-induced hypoglycemia without coma
   4) E16.1    4       Other hypoglycemia
   5) E16.2    5       Hypoglycemia, unspecified
   6) E16.3    6       Increased secretion of glucagon
   7) E16.4    7       Increased secretion of gastrin
   8) E16.8    8       Other specified disorders of pancreatic internal secret
   9) E16.9    9       Disorder of pancreatic internal secretion, unspecified
         Enter ?? for more actions                                        >>>
AS  Add Selection        FA  Format All        GE  Group Edit
ES  Edit Selection       GA  Group Add         RS  Resequence Group
DS  Delete Selection     GC  Group Copy
PH  New Place Holder     GD  Group Delete
Select Action: Quit//
```

5. Technical Information

5.1. Routines

Some AICS routines were modified to replace direct global reads and old Application Program Interfaces (APIs) with new Standards and Terminology Services (STS) APIs and Lexicon APIs wherever possible. Several AICS routines were modified to replace direct global reads to the ICD Diagnosis file (#80). For example, a direct read to ^ICD9(IEN#,0) to find the ICD code or description was replaced by a call to this API: ICDDATA^ICDXCODE. The following routines were changed to accommodate this: IBDFBK2, IBDFN4, IBDFN7, IBDFN8, IBDFN9, IBDFN11, IBDFN14, IBDFLST, IBDFUTL and IBDFUTL1.

A new report, Encounter Forms ICD-10 Update, allows you to display a list of Encounter Forms and Clinics after making selections from several input options. When the report has been displayed, you may then update the ICD-10 Status field. Two new routines were written for this new report: IBDFUTL4 and IBDFUTL5.

5.2. Hardcoded Value

Currently, AICS uses a hardcoded value of 799.9 (Illness, unspecified). After the ICD-10 Activation Date, the ICD-10 code R69 (Illness, unspecified) replaces 799.9.

5.3. Integration Control Registration

Changes have been made to Integration Control Registration (ICR) #1296 to introduce new parameters values for the API GETLST^IBDF18A.

5.4. Data Dictionary Changes

The date and time are recorded in the Encounter Form file when changes are made to a form. Fields were added to the Encounter Form file (#357) and to the Selection file (#357.3) to accommodate the history date and time.

The Data Dictionary (DD) for the new fields in File #357 is as follows:

```
STANDARD DATA DICTIONARY #357.03 -- CODING SYSTEM UPDATES SUB-FILE
                                        FEB 19,2012@08:26:40   PAGE 1
STORED IN ^IBE(357,D0,3,   SITE: VEHU MASTER   UCI: VISTA,ROU


DATA            NAME                   GLOBAL       DATA
ELEMENT         TITLE                  LOCATION     TYPE
-------------------------------------------------------------------------
This subfile stores tracking information on encounter form blocks' updates
related to a specific coding system.


COMPILED CROSS-REFERENCE ROUTINE: IBDX0
CROSS-REFERENCED BY: CODING SYSTEM(B)
357.03,.01   CODING SYSTEM      0;1 POINTER TO ICD CODING SYSTEMS FILE (#80.4)Top
             LAST EDITED:       FEB 07, 2012
             HELP-PROMPT:       Select the coding system for which the
                                encounter form was updated.
             DESCRIPTION:       This field stores the coding system identifier
```

```
                                for which the block of the form has been
                                updated.
                CROSS-REFERENCE:  357.03^B
                                1)= S ^IBE(357,DA(1),3,"B",$E(X,1,30),DA)=""
                                2)= K ^IBE(357,DA(1),3,"B",$E(X,1,30),DA)
                CROSS-REFERENCE:  357^CS
                                1)= S ^IBE(357,"CS",$E(X,1,30),DA(1),DA)=""

                                2)= K ^IBE(357,"CS",$E(X,1,30),DA(1),DA)
                                This cross-reference is used to provide a quick
                                access to entries with coding system updates.
357.03,.02      UPDATE STATUS     0;2 SET
                                'C' FOR COMPLETE;
                                'R' FOR REVIEW;
                LAST EDITED:      FEB 07, 2012
                HELP-PROMPT:      Enter the coding system update status.
                DESCRIPTION:      This field will be set to 'C' if the migration
                                to the coding system specified in the field
                                #.01 of this multiple entry has been marked as
                                completed and 'R' if changes were reviewed. To
                                change back to incomplete, delete its value.

                CROSS-REFERENCE:  357^CSST
                                1)= S ^IBE(357,"CSST",$E(X,1,30),DA(1),DA)=""
                                2)= K ^IBE(357,"CSST",$E(X,1,30),DA(1),DA)
                                This cross-reference is used to provide a quick
                                access to the status of the coding system
                                updates.
357.03,.03      DATE LAST EDITED  0;3 DATE
                INPUT TRANSFORM:  S %DT="ETXR" D ^%DT S X=Y K:X<1 X
                LAST EDITED:      FEB 15, 2012
                HELP-PROMPT:      (No range limit on date)

357.03,.04      CHANGES MADE BY   0;4 POINTER TO NEW PERSON FILE (#200)
                LAST EDITED:      FEB 15, 2012
                HELP-PROMPT:      Select the person who last made changes to
                                blocks for the coding system in the form.
                DESCRIPTION:      The person who last updated ICD blocks of the
                                form.


     FILES POINTED TO                       FIELDS                            Top
ICD CODING SYSTEMS (#80.4)      CODING SYSTEM (#.01)
NEW PERSON (#200)               CHANGES MADE BY (#.04)
```

The DD for the new fields in File #357.3 is as follows:

```
STANDARD DATA DICTIONARY #357.3 -- SELECTION FILE
                                        FEB 19,2012@15:35:44  PAGE 26
STORED IN ^IBE(357.3,  (22185 ENTRIES)  SITE: VEHU MASTER   UCI: CPM,ROU (VERSI
ON 3.0)


DATA            NAME                   GLOBAL       DATA
ELEMENT         TITLE                  LOCATION     TYPE
-------------------------------------------------------------------------
357.3,4.01     ICD CODE EDIT DATE/TIME 4;1 DATE
                INPUT TRANSFORM:  S %DT="ETX" D ^%DT S X=Y K:Y<1 X
                LAST EDITED:      JAN 19, 2012
```

```
                HELP-PROMPT:       Enter date and time when ICD diagnosis code was
                                   edited.
                DESCRIPTION:       Indicates date and time of ICD-9 diagnosis code
                                   edit to block/encounter form.

357.3,4.02      ICD CHANGES MADE BY    4;2 POINTER TO NEW PERSON FILE (#200)

                LAST EDITED:       JAN 19, 2012
                HELP-PROMPT:       Enter the person who made ICD changes to this
                                   record last timedate and time.
                DESCRIPTION:       Indicates date and time of ICD-10 diagnosis
                                   code edit to block/encounter form.
```

NOTE: In order to check the history fields in File #357.3, it is necessary to locate the Block that is being worked on.

5.5.   Online Help for ICD-10 Codes

Help text (?) and extended help text (??, ???) are included for prompts related to ICD-10 codes.

When entering **?**:

```
Enter code or "text" for more information.
```

When entering **??**:

```
Enter a "free text" term or part of a term such as "femur fracture".

 Or

Enter a "classification code" (ICD/CPT etc) to find the single term
associated with the code.
 Or

Enter a "partial code". Include the decimal when a search criterion includes
3 characters or more for code searches.
```

When entering **???**:

```
Number of Code Matches
----------------------

The ICD-10 Diagnosis Code search will show the user the number of matches
found, indicate if additional characters in ICD code exist, and the number of
codes within the category or subcategory that are available for selection.

19 matches found

M91. -      Juvenile osteochondrosis of hip and pelvis (19)

This indicates that 19 unique matches or matching groups have been found and
will be displayed.
```

```
M91. -      the "-" indicates that there are additional characters that
specify unique ICD-10 codes available.

(19)  Indicates that there are 19 additional ICD-10 codes in the M91 "family"
that are possible selections.
```