ICD-10 Follow On Class 1 Software Remediation Project

VistA Medicine

Release Notes

MC*2.3*43 & MC*2.3*44

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Department of Veterans Affairs
Office of Information and Technology
Product Development

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1.   Introduction

1.1. Purpose

The purpose of these Release Notes is to identify enhancements to the Medicine package contained in patches MC*2.3*43 and MC*2.3*44.

1.2. Background

On January 16, 2009, the Centers for Medicare & Medicaid Services (CMS) released a final rule for replacing the 30-year-old International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code set with International Classification of Diseases, Tenth Revision, Clinical Modification (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 alphanumeric 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.**

Patches MC*2.3*43 and MC*2.3*44 make the following changes to the Medicine application:

- Updates the MEDICAL DIAGNOSIS/ICD CODES File #697.5 with ICD-10 codes.
- Modifies the Diagnosis Edit [MCRHDIAGF] option to populate an ICD code relevant to the procedure date when selecting a medical diagnosis.
- Modifies the Diagnosis Print [MCRHDIAGP] and Print All Report [MCRHALLP] options to change the column header to "ICD" instead of "ICD9".
- Changes field descriptions in several Medicine files by replacing the text "ICD9" with "ICD".

> **NOTE 1: Many of the fields are not currently used and are flagged for future use. The *Line Enter/Edit Menu* ... [MCRHMENULIN] option, which is no longer used, is placed "out of order".**
>
> **NOTE 2: The Rheumatology Menu is the only part of the Medicine application that needed to be remediated for ICD-10.**

1.3.1. Dependencies

The parent package of Medicine, Clinical Procedures (CP), is added as a subscriber to Interface Control Registration (ICR) #5747.

1.3.2. Patches

The following associated patches must be installed prior to installing Patch MC*2.3*43:

- LEX*2*80
- ICD*18*57
- MC*2.3*44

The following associated patches must be installed prior to installing Patch MC*2.3*44:

- MC*2.3*42
- LEX*2*80
- ICD*18*57

1.4. Documentation

The Medicine manuals are posted on the VistA Documentation Library (VDL) http://www.va.gov/vdl/application.asp?appid=77 page.

The following Medicine manuals are updated with changes for MC*2.3*43 and MC*2.3*44:

- User Manual
- Technical Manual

The following manual does not exist for this package:

- Security Guide

2.   Medical Diagnosis/ICD Codes File (#697.5)

The MEDICAL DIAGNOSIS/ICD CODES File (#697.5) now includes ICD-10 codes. A Medical Diagnosis may be associated with both ICD-9 and ICD-10 codes, based on the current code set active at the time of the procedure date. If the procedure date is on or after the ICD-10 activation date, then the ICD-10 code mapped to the medical diagnosis will be populated.

3. Rheumatology Modifications

3.1. Menu Options

The VistA Medicine package is an M/Roll and Scroll/Character-based package for Medicine Specialties. The *Rheumatology Menu* option of the Medicine package is now updated for ICD-10.

Medicine Menu Options

```
Select Medicine Menu Option:?
   1    Cardiology Menu ...
   2    GI Menu ...
   3    Pulmonary Menu ...
   4    Hematology Menu ...
   5    Pacemaker Menu ...
   6    Rheumatology Menu ...
   7    Generalized Procedure Menu ...
   8    Summary of Patient Procedures
   9    Enable/Disable OE/RR
   10    Workload Reporting Management ...
```

The following options on the *Rheumatology Menu* are updated for the ICD-10 enhancement.

Rheumatology Menu Options

```
 1. Diagnosis Edit
 2. Add NEW visit/display Patient Background Info.
 3. History Narrative Edit
 4. Print Serial Laboratory Info
 5. Display/Print Drug Treatment Program
 6. Health Assessment (HAQ) Edit
 7. Health/Physical History Edit
 8. Physical Examination Edit
 9. Death Admin Edit
 10. Print Menu
 11. Line Enter/Edit Menu
     **> Out of order:  OUT OF ORDER
 12. Problem Oriented Consult Menu
 13. Image Capture
 14. Summary of Patient Procedures
 15. Rheumatology Management Menu
```

3.2. *Diagnosis Edit* Option

The *Diagnosis Edit* [MCRHDIAG] option modifications allow you to enter the diagnosis text, which then displays the selection of medical diagnoses based on the current active ICD code set for that procedure date. If the procedure date is on or after the ICD-10 activation date, then the medical diagnoses mapping to the ICD-10 code is selectable.

Diagnosis Edit **Option: Entering an ICD-10 Medical Diagnosis Code**

```
          Rheumatology patient diagnosis   03/20/12

 1 DATE/TIME(R):OCT 1,2013
 2 RHEUMATOLOGY PATIENT(R):AGENT,ORANGE
 3 DIAGNOSIS(M):GOUT
 4 PROCEDURE SUMMARY:This is a test of procedures.
 5 SUMMARY:NORMAL
 6 PRIMARY PROVIDER:MEDPROVIDER,ONE


 ANSWER WITH MEDICAL DIAGNOSIS/ICD CODES
 DO YOU WANT THE ENTIRE MEDICAL DIAGNOSIS/ICD CODES LIST? y (YES)
CHOOSE FROM:
  COCCYDYNIA
  DRUG RELATED LUPUS ERYTHEMATOS
  Press <RETURN> to Continue, '^' to Quit:
```

3.3. *Print Menu* Option

The following options on the *Print Menu* are updated for ICD-10.

Rheumatology Print Menu

```
Select Rheumatology Menu Option: 10 Print Menu

Select Print Menu Option: ?

   1    Diagnosis Print
   2    Background Information Print
   3    History Narrative Print
   4    Serial Laboratory Info. Print
   5    Health Assessment (HAQ) Print
   6    Health/Physical History Print
   7    Physical Examination Print
   8    Death Admin Print
   9    Print All Report
   10   Brief Rheumatology Report
```

The *Print Menu* [MCRHMENUPRT] option column header now displays "ICD" instead of "ICD9".

Print Menu Option

```
Select Rheumatology Menu Option: 10 Print Menu

Select Print Menu Option: Diagnosis Print
Enter patient name or the date & time: 10-30-2013 PATIENTTWO, RHEU 000223333
DEVICE: HOME//  UCX/TELNET  Right Margin: 80//



Pg.1                                         10/30/13 11:23
CONFIDENTIAL RHEUMATOLOGY REPORT
PATIENTTWO,RHEU    000-22-3333     NOT INPATIENT         DOB: APR 29,1959
PROCEDURE DATE/TIME: 10/30/13 07:03
- - - - - - - - - - - - - - - - - - -- - - - - - - - - - - - - -

PROVIDER:
PROBLEM LIST

OCTOBER 30, 2013 17:03


PATIENT           DATE    DIAGNOSIS                      ICD CODE
-------           ----    ---------                      ---------
PATIENTTWO,RHEU   09/05/13 CONGENITAL HEART DISEASE - OTHER  747.21
          10/16/13 CONGENITAL HEART DISEASE - OTHER     Q25.4
```

On the diagnoses section of the "Print All Reports", "ICD" now replaces "ICD9".

Print All Report

```
Select Print Menu Option: 9 Print All Report
Enter patient name or the date & time:  10-1-2013  AGENT,ORANGE 666112233
DEVICE: HOME// ;;100 UCX/TELNET  Right Margin: 80//

Pg. 1                         03/20/12 18:58
          CONFIDENTIAL RHEUMATOLOGY REPORT
AGENT,ORANGE  666-11-2233   NOT INPATIENT      DOB: JAN 12,1942
          PROCEDURE DATE/TIME: 10/01/13
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

PROVIDER: MEDPROVIDER,ONE
PROBLEM LIST

OCT 1,2013
PATIENT           DATE            DIAGNOSIS        ICD CODE
-------           ----            ---------        ---------
AGENT,ORANGE    10/01/13          COCCYDYNIA       V70.0XXA
BACK GROUND INFORMATION


Address:       440 LANE BLVD
               NEW YORK 12208


Home phone:   800-555-1212
Work phone:

Sex:          MALE
```

```
Race:

Maritus status:   NEVER MARRIED

Employment status:

Occupation:
```

4. ICD-10 Searches

NOTE: Existing ICD-9 functionality has not changed.

The VistA Medicine package does not contain a direct search for ICD-9 diagnosis codes so this application does not utilize the standard Lexicon search utility for ICD-10-CM diagnoses.

NOTE: The "Date of Interest" within the VistA Medicine package is equivalent to the procedure date for the VistA Medicine package.

If the procedure date is *on or after* the ICD-10 activation date, the VistA Medicine package shall provide the ability to search the generic text MEDICAL DIAGNOSIS/ICD CODES File (#697.5) entries and store the matching ICD-10 diagnosis code pointer to the ICD-10 DIAGNOSIS File (#80).

Use the FileMan Inquiry to check entries randomly in file (#697.5) to ensure the ICD-10 codes were added.

MEDICAL DIAGNOSIS/ICD CODES File (#697.5) Showing ICD-10 Codes

```
Select OPTION: INQUIRE TO FILE ENTRIES

OUTPUT FROM WHAT FILE: ICD DIAGNOSIS// 697.5 MEDICAL DIAGNOSIS/ICD CODES
                  (907 entries)
Select MEDICAL DIAGNOSIS/ICD CODES: `1 MYOCARDIAL INFARCTION - ACUTE
ANOTHER ONE: `7 MYOCARDITIS
ANOTHER ONE: `100 DIFFUSE DUODENITIS NOTED
ANOTHER ONE:
STANDARD CAPTIONED OUTPUT? Yes//  (Yes)
Include COMPUTED fields: (N/Y/R/B): NO// - No record number (IEN), no
Computed Fields

DIAGNOSIS: MYOCARDIAL INFARCTION - ACUTE
PROCEDURE: CATH
ICD CODE: 410.9
ICD CODE: 410.0
ICD CODE: 410.1
ICD CODE: 410.4
ICD CODE: 410.2
ICD CODE: 410.3
ICD CODE: 410.5
ICD CODE: 410.8
ICD CODE: 410.6
ICD CODE: I21.3
ICD CODE: I22.9
ICD CODE: I21.09
ICD CODE: I22.0
ICD CODE: I21.01
ICD CODE: I21.02
ICD CODE: I21.19
ICD CODE: I22.1
ICD CODE: I21.11
ICD CODE: I21.29

Enter RETURN to continue or '^' to exit:
ICD CODE: I22.8
```

```
ICD CODE: I21.21
 SPECIAL DIAGNOSIS TYPE: CARDIOLOGY DIAGNOSIS
PROCEDURE NAME: CATH


DIAGNOSIS: MYOCARDITIS
PROCEDURE: CATH
ICD CODE: 422.91
ICD CODE: 422.99
ICD CODE: 422.90
ICD CODE: 032.82
ICD CODE: 074.23
ICD CODE: 036.43
ICD CODE: 398.0
ICD CODE: 422.92
ICD CODE: 093.82
ICD CODE: 422.93
ICD CODE: I40.0
ICD CODE: I40.1
ICD CODE: I40.8

Enter RETURN to continue or '^' to exit:
ICD CODE: I40.9
ICD CODE: A36.81
ICD CODE: B33.22
ICD CODE: A39.52
ICD CODE: I09.0
ICD CODE: A52.06
 SPECIAL DIAGNOSIS TYPE: CARDIOLOGY DIAGNOSIS
PROCEDURE NAME: CATH


DIAGNOSIS: DIFFUSE DUODENITIS NOTED
PROCEDURE: EGD
ICD CODE: 535.6
ICD CODE: K29.80
ICD CODE: K29.81
 SPECIAL DIAGNOSIS TYPE: GI DIAGNOSIS
PROCEDURE NAME: EGD


Select MEDICAL DIAGNOSIS/ICD CODES:
```

5.   Technical Information

5.1. Routines

The Medicine package is dependent on the following Application Program Interfaces (APIs) for the implementation of the ICD-10 project. These APIs are currently under development. Any delay in the release of these APIs will directly affect this project.

Name/Signature of the Component	Provider Application	Consumer Application	ICR	ICD Related?
$$CSI^ICDEX	DRG Grouper	Medicine	Yes	No
$$ICDDX^ICDEX	DRG Grouper	Medicine	Yes	No
$$IMP^ICDEX	DRG Grouper	Medicine	Yes	No
$$SINFO^ICDEX	DRG Grouper	Medicine	Yes	No