RESOURCE AND PATIENT MANAGEMENT SYSTEM

ICD-10 Update

(AUM)

Installation Guide and Release Notes

Version 22.0
October 2021

Office of Information Technology
Division of Information Technology
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Preface

This manual contains the installation guide for the Indian Health Service (IHS) International Classification of Diseases, 10th Revision, Clinical Modification and Procedure Coding System (ICD-10-CM/PCS), version 22.0.
1.0 Release Notes

This package will load new, modified, and invalid ICD-10 code updates for fiscal year (FY) 2022 for both diagnosis and operation/procedures codes. Additionally, the major diagnostic category and diagnostic-related grouper codes have been updated to fiscal year 2022. This update will ensure users have access to current codes for accurate and compliant visit information, claims reimbursement, and reporting.

1.1 Description of Changes

The 2022 ICD-10-CM files below contain information on the ICD-10-CM updates for FY 2022. These 2022 ICD-10-CM codes are to be used for discharges occurring from October 1, 2021 through September 30, 2022 and for patient encounters occurring from October 1, 2021 through September 30, 2022.

The 2022 ICD-10 Procedure Coding System (ICD-10-PCS) files below contain information on the ICD-10-PCS updates for FY 2022. These 2022 ICD-10-PCS codes are to be used for discharges occurring from October 1, 2021 through September 30, 2022.

The 2022 Medicare Severity Diagnosis-Related Groups (MS-DRG) files below contain information on the ICD-10 MS-DRG Grouper Logic Version 39.0 and Medicare Code Edits Version 39.0 updates and code lists effective for FY 2022.

As of AUM v18.0, the POA EXEMPT field (#1.9) is updated with data from the Centers for Medicare & Medicaid Services (CMS) for future integration.

As of FY 2019, CMS has removed the designation of codes when the primary diagnosis is its own Complications and Comorbidities (CC) or Major Complications and Comorbidities (MCC).

As of FY 2020, CMS has updated the Maternity Age range in the Medicare Code Edits v37 to be 9–64 years inclusive. Previously this range was 12–55 years inclusive.

- 2022 ICD-10-CM and PCS:
  - 2022 ICD-10-CM
    (https://www.cms.gov/medicare/icd-10/2022-icd-10-cm)
  - 2022 ICD-10 PCS
    (https://www.cms.gov/medicare/icd-10/2022-icd-10 pcs)
  - ICD-10-CM/PCS MS-DRG v39.0
  - Definitions of Medicare Code Edits v39.0
• ICD DIAGNOSIS File (#80):
  – .01 CODE NUMBER
  – 1.1 CODING SYSTEM
  – 1.3 UNACCEPTABLE AS PRINCIPAL DX
  – 1.9 POA EXEMPT
  – 10 SEX (Multiple-80.04)
    • .01 SEX EFFECTIVE DATE
    • 1 SEX
  – 11 AGE LOW (Multiple-80.011)
    • .01 AGE LOW EFFECTIVE DATE
    • 1 AGE LOW
  – 12 AGE HIGH (Multiple-80.012)
    • .01 AGE HIGH EFFECTIVE DATE
    • 1 AGE HIGH
  – 66 STATUS (Multiple-80.066)
    • .01 STATUS EFFECTIVE DATE
    • .02 STATUS
  – 67 DIAGNOSIS (Multiple-80.067)
    • .01 DIAGNOSIS EFFECTIVE DATE
    • 1 DIAGNOSIS
  – 68 DESCRIPTION (Multiple-80.068)
    • .01 DESCRIPTION EFFECTIVE DATE
    • 1 DESCRIPTION
  – 71 DRG GROUPER (Multiple-80.071)
    • .01 DRG GROUPER EFFECTIVE DATE
    • 1 DRG (Multiple-80.711)
      – .01 DRG
  – 72 MAJOR DIAGNOSTIC CATEGORY (Multiple-80.072)
    • .01 MDC EFFECTIVE DATE
    • 1 MDC
  – 103 COMPLICATION/COMORBIDITY (Multiple-80.0103)
    • .01 CC EFFECTIVE DATE
    • 1 COMPLICATION/COMORBIDITY
• ICD OPERATION/PROCEDURE File (#80.1):
  – .01 CODE NUMBER
  – 1.1 CODING SYSTEM
  – 10 SEX (Multiple-80.11)
    • .01 SEX EFFECTIVE DATE
    • 1 SEX
  – 66 STATUS (Multiple-80.166)
    • .01 STATUS EFFECTIVE DATE
    • .02 STATUS
  – 67 OPERATION/PROCEDURE (Multiple-80.167),
    • .01 OPER/PROCEDURE EFFECTIVE DATE
    • 1 OPERATION/PROCEDURE
  – 68 DESCRIPTION (Multiple-80.168)
    • .01 DESCRIPTION EFFECTIVE DATE
    • 1 DESCRIPTION
  – 71 DRG GROUPER (Multiple-80.171)
    • .01 DRG GROUPER EFFECTIVE DATE
    • 1 MAJOR DIAGNOSTIC CATEGORIES (Multiple-80.1711)
      – .01 MAJOR DIAGNOSTIC CATEGORY
      – 1 DRG (Multiple-80.17111)
        • .01 DRG

• DRG File (#80.2):
  – .01 NAME
  – .06 SURGERY
  – 1 DESCRIPTION (Multiple-80.21)
    • .01 DESCRIPTION
  – 5 MDC#
  – 7 WEIGHT(nonAffil)
  – 10 AVG LENGTH OF STAY(days)
  – 14 ACTIVATION DATE
  – 15 INACTIVE
  – 16 INACTIVATION DATE
  – 20 FISCAL YEAR WEIGHTS&TRIMS (Multiple-80.22)
• 01 FISCAL YEAR WEIGHTS&TRIMS
  – 2.5 WEIGHT(nonAffil)
  – 4.5 AVG LENGTH OF STAY(days)
– 66 EFFECTIVE DATE (Multiple-80.266)
  • .01 EFFECTIVE DATE
  • .03 STATUS
  • .05 MDC#
  • .06 SURGERY
– 68 DESCRIPTION (VERSIONED) (Multiple-80.268)
  • .01 EFFECTIVE DATE
  • 1 DESCRIPTION (Multiple-80.2681)
    – .01 DESCRIPTION
  – 999999901 HCFA/IHS WEIGHT
  – 999999902 HCFA/IHS ARITH MEAN LOS
  – 999999903 HCFA/IHS GEOM MEAN
• MAJOR DIAGNOSTIC CATEGORY File (#80.3):
  – .01 NAME
2.0 Installation Notes

Prefix: AUM

Current Version: 22.0

2.1 Contents of Distribution

Table 2-1: Contents of distribution — files and descriptions

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>aum_2200.k</td>
<td>KIDS file to run the loading of the ICD-10 code updates</td>
</tr>
<tr>
<td>aum_220i.pdf</td>
<td>Installation Guide and Release Notes (this document)</td>
</tr>
</tbody>
</table>

2.2 Required Resources

- XU v8.0 patch 1018 or higher
- DI v22.0 patch 1018 or higher
- AICD v4.0
- AUM v21.0 or higher
- AUM v21.0 patch 1
3.0 **Installation Instructions**

In all User Class Identifications (UCIs) requiring ICD 2022 updates and in all databases running at least AUM v21.0 and AUM v21.0 patch 1:

1. Use the utility `D ^%GOGEN` to save the following Globals:
   - `^ICD9` – ICD Diagnosis codes
   - `^ICD0` – ICD Operation/Procedure codes
   - `^ICD` – DRG codes
   - `^ICM` – MDC codes

2. This release should be installed during off-peak hours.

3. Load the Distribution into KIDS using option 1 on the **Installation** menu. The distribution was released in a file named `aum_2200.k`.

4. Verify the load using option 2 on the **Installation** menu.

5. Consider using options 3 and 4 to print and compare the Transport.

   **Note:** For the next step, invoke the Kernel Installation & Distribution System menu by entering `D ^XPDKRN` from _PROGRAMMER MODE_.

6. Install the distribution using option 6 on the **Installation** menu. Answer **NO** to the “Inhibit Logons” and “Disabling Scheduled Options” prompts as this build may have a longer-than-usual installation run time.

7. For results, use the KIDS **Install File Print** option to view and print the AUM 22.0 entry.
4.0 Sample Installation

The following subsection shows a sample installation. Screens may not be exactly the same during installation.
4.1 Sample Cache Install

D ^XUP

Setting up programmer environment
This is a PRODUCTION account.

Terminal Type set to: C-VT100

Select OPTION NAME: XPD MAIN       Kernel Installation & Distribution System

   Edits and Distribution ...
   Utilities ...
   Installation ...
   Patch Monitor Main Menu ...

Select Kernel Installation & Distribution System Option: Installation

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

Select Installation Option: 1  Load a Distribution
Enter a Host File: C:\Patches\AUM 22.0\aum_2200.k

KIDS Distribution saved on Aug 26, 2021@15:42:42
Comment: ICD10 FY2022

This Distribution contains Transport Globals for the following Package(s):
   AUM 22.0
Distribution OK!

Want to Continue with Load? YES //
Loading Distribution...

Build AUM 22.0 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES //
   AUM 22.0
Will first run the Environment Check Routine, AUMI10

Hello, SYSTEM MANAGER

Checking Environment for ICD UPDATE V 22.0.

Need at least XU v8.0 p1018.....XU v8.0 p1018 Present
Need at least DI v22.0 p1018.....DI v22.0 p1019 Present
Need at least AICD v4.0.....AICD v4.0 Present
Need at least AUM v21.0.....AUM v21.0 Present
Requires AUM v21.0 p1.....Present

ENVIRONMENT OK.
Use INSTALL NAME: AUM 22.0 to install this Distribution.
1  Load a Distribution
2  Verify Checksums in Transport Global
3  Print Transport Global
4  Compare Transport Global to Current System
5  Backup a Transport Global
6  Install Package(s)
   Restart Install of Package(s)
7  Unload a Distribution

Select Installation Option: 6  Install Package(s)
Select INSTALL NAME:    AUM 22.0     Loaded from Distribution
8/30/21@14:16:04
=> ICD10 FY2022 ;Created on Aug 26, 2021@15:42:42

This Distribution was loaded on Aug 30, 2021@14:16:04 with header of
ICD10 FY2022 ;Created on Aug 26, 2021@15:42:42
It consisted of the following Install(s):
   AUM 22.0
Checking Install for Package AUM 22.0
Will first run the Environment Check Routine, AUMI10

Hello, SYSTEM MANAGER

Checking Environment for ICD UPDATE V 22.0.

Need at least XU v8.0 p1018.....XU v8.0 p1018 Present
Need at least DI v22.0 p1018.....DI v22.0 p1019 Present
Need at least AICD v4.0.....AICD v4.0 Present
Need at least AUM v21.0.....AUM v21.0 Present
Requires AUM v21.0 p1......Present
ENVIRONMENT OK.

Install Questions for AUM 22.0

Incoming Files:

9003103   AUM DATA (including data)
Note:  You already have the 'AUM DATA' File.
I will OVERWRITE your data with mine.

Want KIDS to INHIBIT LOGONs during the install? NO//

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

DEVICE: HOME// Virtual

Install Started for AUM 22.0 :
   Aug 30, 2021@14:16:43

Build Distribution Date: Aug 26, 2021
Installing Routines:
Aug 30, 2021@14:16:43

Running Pre-Install Routine: PRE^AUMI10

Installing Data Dictionaries:
Aug 30, 2021@14:16:43

Installing Data:
Aug 30, 2021@14:17:09

Running Post-Install Routine: POST^AUMI10

MAJOR DIAGNOSTIC CATEGORY FILE
UNMODIFIED.....27
TOTAL...........27

DRG FILE
MODIFIED.......758
DESCRIPTION....3
LOS............68
WEIGHT........758
UNMODIFIED.....9
TOTAL...........767

ICD10 DIAGNOSIS FILE
NEW............159
MODIFIED.......37
DRG............2
LONG...........22
MDC.........1
PDX...........12
POA...........1
SHORT...........22
INACTIVE.......32
UNMODIFIED.....95321
TOTAL...........95549

ICD10 OPERATION/PROCEDURE FILE
NEW............191
MODIFIED.......1186
DRG............1123
LONG...........62
SHORT...........63
INACTIVE.......107
UNMODIFIED.....77740
TOTAL...........79224

ICD-10 Table Update Summary
<table>
<thead>
<tr>
<th></th>
<th>New</th>
<th>Mod</th>
<th>Ina</th>
<th>Error</th>
<th>Unmod</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>DRG</td>
<td>0</td>
<td>758</td>
<td>0</td>
<td>0</td>
<td>9</td>
<td>767</td>
</tr>
<tr>
<td>ICD-10-CM</td>
<td>159</td>
<td>37</td>
<td>32</td>
<td>0</td>
<td>95321</td>
<td>95549</td>
</tr>
</tbody>
</table>
ICD-10 Update (AUM) Version 22.0

<table>
<thead>
<tr>
<th>ICD-10-PCS</th>
<th>191</th>
<th>1186</th>
<th>107</th>
<th>0</th>
<th>77740</th>
<th>79224</th>
</tr>
</thead>
</table>

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Updating Routine file...

Updating KIDS files...

AUM 22.0 Installed.
   Aug 30, 2021@14:18:12

NO Install Message sent

Install Completed

Figure 4-1: Sample install
## Acronym List

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Term Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC</td>
<td>Complications and Comorbidities</td>
</tr>
<tr>
<td>CMS</td>
<td>Centers for Medicare &amp; Medicaid Services</td>
</tr>
<tr>
<td>FY</td>
<td>Fiscal Year</td>
</tr>
<tr>
<td>ICD-10-CM/PCS</td>
<td>International Classification of Diseases, 10th Revision, Clinical Modification and Procedure Coding System</td>
</tr>
<tr>
<td>IHS</td>
<td>Indian Health Service</td>
</tr>
<tr>
<td>MCC</td>
<td>Major Complications and Comorbidities</td>
</tr>
<tr>
<td>MS-DRG</td>
<td>Medicare Severity Diagnosis-Related Groups</td>
</tr>
<tr>
<td>RPMS</td>
<td>Resource and Patient Management System</td>
</tr>
<tr>
<td>UCI</td>
<td>User Class Identification</td>
</tr>
</tbody>
</table>
Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

Phone:  (888) 830-7280 (toll free)
Web:  https://www.ihs.gov/itsupport/
Email:  itsupport@ihs.gov