ICD-10 Follow On Class 1 Software Remediation

Surgery
Software Version 3.0

Release Notes
SR*3.0*177

July 2014

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 Surgery package contained in patch SR*3.0*177.

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 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

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>13,000 codes (approximately)</td>
<td>68,000 codes (approximately)</td>
</tr>
<tr>
<td>3-5 characters</td>
<td>3-7 characters (not including the decimal)</td>
</tr>
<tr>
<td>Character 1 is numeric or alpha (E or V)</td>
<td>Character 1 is alpha; character 2 is numeric</td>
</tr>
<tr>
<td>Characters 2 - 5 are numeric</td>
<td>Characters 3–7 are alpha or numeric (alpha characters are not case sensitive)</td>
</tr>
<tr>
<td>Decimal after first 3 characters</td>
<td>Same</td>
</tr>
</tbody>
</table>
ICD-9-CM and ICD-10-PCS Comparison

<table>
<thead>
<tr>
<th>ICD-9-CM Procedure Codes</th>
<th>ICD-10-PCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4 characters</td>
<td>7 alphanumeric characters</td>
</tr>
<tr>
<td>All characters are numeric</td>
<td>Characters can be either alpha or numeric. Letters O and I are not used to avoid confusion with the numbers 0 and 1.</td>
</tr>
<tr>
<td>All characters are numeric</td>
<td>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.</td>
</tr>
<tr>
<td>Decimal after first 2 characters</td>
<td>Does not contain decimals</td>
</tr>
</tbody>
</table>

1.3. Scope of Changes

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

Patch SR*3*177 makes the following changes to the Surgery application:

- Several reports and display screens have been updated to accommodate ICD-10 diagnosis codes.
- The only noticeable difference users see will occur when a specific ICD diagnosis code descriptor changes based on the date of operation for the case.

1.4. Documentation

The Surgery manuals are posted on the VistA Documentation Library (VDL) page (http://www.va.gov/vdl/application.asp?appid=103).

The following Surgery user manuals are updated with changes for SR*3*177:

- Surgery V3.0 User Manual and Change Pages

The following manual does not exist for the Surgery package:

- Installation Guide

**NOTE:** Security information is contained within the Surgery V. 3.0 Technical Manual/Security Guide.
2. Surgery Interface File Download Option

Option 2 of the Surgery Interface File Download Option has been updated from “ICD9” to “ICD.”

Example of Updated Surgery Interface File Download Option

<table>
<thead>
<tr>
<th>Surgery Interface File Download Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CPT4</td>
</tr>
<tr>
<td>2. ICD</td>
</tr>
<tr>
<td>3. MEDICATION</td>
</tr>
<tr>
<td>4. MONITOR</td>
</tr>
<tr>
<td>5. PERSONNEL</td>
</tr>
<tr>
<td>6. REPLACEMENT FLUID</td>
</tr>
<tr>
<td>7. ANES SUPERVISE CODE</td>
</tr>
<tr>
<td>8. LOCATION</td>
</tr>
</tbody>
</table>

3. Alert Coder Regarding Coding Issues

The Alert Coder has been updated to identify ICD-10 diagnosis codes.

Example of Updated Alert Coder

The following "final" codes have been entered for the case.

Postop Diagnosis Code (ICD-10): K71.51, Toxic liver disease with chronic active hepatitis with ascites

If you believe that the information coded is not correct and would like to alert the coders of the potential issue, enter a brief description of your concern below.

4. MailMan Message Header

The MailMan Message Header has been updated to accommodate ICD-10 codes. The header now lists “ICD” rather than “ICD9.”

Example of Updated MailMan Message Header

Subj: ICD OR CPT CODE DELETION [#43805] 10/15/13@09:00
1 line
From: SURGERY PACKAGE In 'IN' basket. Page 1
-------------------------------------------------------------------
Patient: SURPATIENT,TWELVE  CASE #: 12426
OPERATION DATE: 10/15/13      HERNIA REPAIR
5. Surgery Risk Assessment

The Non-Cardiac and Cardiac Surgery Risk Assessments have been updated to accommodate ICD-10 codes.

5.1. Non-Cardiac Surgery Risk Assessment

Example of Updated Non-Cardiac Surgery Risk Assessment

<table>
<thead>
<tr>
<th>VA NON-CARDIAC RISK ASSESSMENT</th>
<th>Assessment: 236</th>
<th>PAGE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR SURPATIENT, FORTY (COMPLETED)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

=========================================================================

OUTCOME INFORMATION

Postoperative Diagnosis Code (ICD-10): K71.51, Toxic liver disease w/chron act hepatitis w/ascites

* T32.09 Rhinitus due to p 10/12/13
* indicates Other (ICD10)

5.2. Cardiac Surgery Risk Assessment

Example of Updated Cardiac Surgery Risk Assessment

| VA CONTINUOUS IMPROVEMENT IN CARDIAC SURGERY PROGRAM (CICSP/CICSP-X) |
| I. IDENTIFYING DATA |
| Patient: SURPATIENT, NINE  Case #: 238  Fac./Div. #: 500 |
| X. DETAILED DISCHARGE INFORMATION |
| Discharge ICD-10 Codes: K14.09 K15.90 T31.10 |

6. Modified Reports

The following reports have been modified to accommodate ICD-10 codes:

- PCE Filing Status Report
- M&M Verification Report (Pre-Transmission Report)
- M&M Verification Report (Full Report)
6.1. PCE Filing Status Report

The PCE Filing Status Report has been updated to include both ICD-9 and ICD-10 codes.

Example of Updated PCE Filing Status Report

```
JUN 10,2005@07:00 SURPATIENT,NINETYONE SURSURGEON,ONE
GENERAL(OR WHEN Filed NOT DEFINED BELOW)
292 (53) SURSURGEON,ONE NOT ENTERED <NONE>

CPT Code: 44950 APPENDECTOMY ICD10 Diagnosis Code: E08.65 Short
Description (TBD) ICD10 Diagnosis Code: R40.2124 ICD-10 Short
Description (TBD)
```

Example of Updated PCE Filing Status Report: Filed/Not Filed Counts

```
<table>
<thead>
<tr>
<th></th>
<th>CPT CASES</th>
<th>ICD CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filed</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Not Filed</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
```


The M&M Verification Report has been modified to include both ICD-9 and ICD-10 codes.

Example of Updated M&M Verification Report (Full Report)

```
CHEYENNE VAMC
M&M Verification Report

DATE REVIEWED: PRINCIPAL PROCEDURE
OP DATE CASE # SURGICAL SPECIALTY ASSESSMENT TYPE STATUS DEATH RELATED
09/21/13 34216 GENERAL(OR WHEN NOT DEFINED BELOW) NON-CARDIAC TRANSMITTED N/A
SIGMOID RESECTION CPT Codes: 44140 Occurrences: OTHER OCCURRENCE ** POSTOP ** (09/21/13) CONT’D
```

The M&M Verification Report has been modified to include both ICD-9 and ICD-10 codes.

Example of Updated M&M Verification Report (Pre-Transmission Report)

<table>
<thead>
<tr>
<th>Assessment</th>
<th>M&amp;M Verification Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Op Date</td>
<td>Specialty</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>09/16/13</td>
<td>GENERAL</td>
</tr>
<tr>
<td>10/01/13</td>
<td>THORACIC</td>
</tr>
<tr>
<td>10/20/13</td>
<td>PERIPHERAL</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
7. ICD-10 Searches

The Surgery package provides the ability to search on ICD-10-CM diagnosis codes.

NOTE: Existing ICD-9 functionality has not changed.

7.1. ICD-10-CM Diagnosis Code Search

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

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.

ICD-10-CM diagnosis code search highlights include:

- Text-based search using one or more words as search terms, finding matches based on full descriptions, synonyms, key words, and shortcuts associated with ICD-10-CM diagnosis codes, which are inherently built into the Lexicon coding system.
- 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.
- The user is 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, the user is prompted to refine the search.
- The user 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.
- If the user performs a partial code search or text-based search, where more than one ICD-10 diagnoses which are Active for the “Date of Interest” are found to match, the search results (consisting of categories, subcategories or individual ICD-10 diagnosis codes) shall display in groups of no more than 4 per screen.

Example of Updated ICD Diagnosis Search

Prin Pre-op ICD Diagnosis Code (ICD10): S06

19 matches found

1. S06.0X- Concussion (30)
2. S06.1X- Traumatic cerebral edema (30)
3. S06.2X- Diffuse traumatic brain injury (30)
4. S06.30- Unspecified focal traumatic brain injury (30)
5. S06.31- Contusion and laceration of right cerebrum (30)
6. S06.32- Contusion and laceration of left cerebrum (30)
7. S06.33- Contusion and laceration of cerebrum,

Press <RETURN> for more, "^" to exit, or Select 1-4:
8. Technical Information

8.1. New Routines

Some Surgery routines were added to replace direct global reads and old APIs with new Standards and Terminology Services (STS) APIs and Lexicon APIs wherever possible. The following new routines are added:

<table>
<thead>
<tr>
<th>Routine Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR3P177</td>
<td>ICD-10 Diagnosis Code Installation</td>
</tr>
<tr>
<td>SROICDGT</td>
<td>ICD-10 Diagnosis Search</td>
</tr>
<tr>
<td>SROICDL</td>
<td>ICD-10 Diagnosis Code Lookup</td>
</tr>
</tbody>
</table>

8.2. New Input Template

Input template SRSRES2 (File #130) has been added to the Surgery package.

8.3. Addition to Data Dictionary

A new ICD SEARCH API file (File #130.4) has been added to the Data Dictionary.

This file is used as a repository of ICD search (lookup) functionality to support an application's need for different user interface calls across multiple versions of ICD Diagnosis and Procedure coding.

Each entry is associated with a specific version of ICD Diagnosis or Procedure coding, an application, and executable M code. The executable M code can be invoked from within the input transform of a field that points to the ICD DIAGNOSIS file (#80) or the ICD OPERATION/PROCEDURE file (#80.1) to achieve the correct search functionality specific to the ICD version.
9. **Online Help for ICD-10 Codes**

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

When entering ?:

<table>
<thead>
<tr>
<th>Enter code or “text” for more information.</th>
</tr>
</thead>
</table>

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  
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>------------------------</td>
</tr>
</tbody>
</table>
| 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. |