

ICD-10 Follow On Class 1 Software Remediation

Laboratory: Emerging Pathogens Initiative (EPI)

Application Version 5.2

Release Notes

LR*5.2*421



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**Department of Veterans Affairs
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Product Development**

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(This page included for two-sided copying.)

1. Introduction

1.1. Purpose

The purpose of these Release Notes is to identify enhancements to the Emerging Pathogens Initiative (EPI) package contained in patch LR 5*2*421.

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

| 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 LR* 5.2*421 makes the following changes to the Emerging Pathogens Initiative (EPI) application:

- The following fields and screens have been updated to refer to “ICD” rather than “ICD9”:
 - Laboratory Search/Extract Parameters Input screens
 - Enter/Edit Local Pathogens screens
 - Detailed Verification Report
 - Help text
- Within the Enter/Edit Local Pathogens and Laboratory Search/Extract Parameters Input screens, users are prompted to specify a code set on which to search prior to entering an ICD code. Based on this input, the system will only allow ICD-9 entry or ICD-10 entry.
- The Pathogen Inquiry option has been modified to list both ICD-9 and ICD-10 codes.
- The Generate Local Report/Spreadsheet option has been modified to include both the Diagnosis Code Set Designation and the Diagnosis Code.
- HL7 Reports that are sent to AITC have been modified to include ICD-10 Codes and Descriptions, which are included in the DG1 HL7 Segments.

1.4. Documentation

The EPI manuals are posted on the VistA Documentation Library (VDL) page:

<http://www.va.gov/vdl/application.asp?appid=118>.

The following EPI user manuals are updated with changes for LR 5*2*421:

- Rollup Modifications Technical and User Manual
- Technical and User Guide
- Hepatitis C and EPI Technical and User Guide
- Search/Extract Technical and User Guide

The following manual does not exist for this package:

- Security Guide

NOTE: Security Information is contained within the *Search/Extract Technical and User Guide* and *Rollup Modifications Technical and User Manual*.

2. Modified Screens

The following screens have been modified:

- Laboratory Search/Extract Parameters Input
- Enter/Edit Local Pathogens Menu Option

2.1. Laboratory Search/Extract Parameters Input Screen

The following modifications have been made to the Laboratory Search/Extract Parameters Input Screen:

- A new prompt “ICD Coding System [ICD-9 or ICD-10]? (9/10):” has been added so that users must specify an ICD-9 or ICD-10 code set on which to search.
- A “CD Set” column header, which indicates the ICD code set (ICD-9 or ICD-10), has been added.
- Two column headers have been modified so that they refer generically to “ICD” rather than indicate an ICD code set (ICD-9 or ICD-10):

ICD Code

ICD Description

Example of Updated Lab Search/Extract Parameters Input Screen

| | | | |
|--|-----------|--------------|-------------|
| LABORATORY SEARCH/EXTRACT PARAMETERS INPUT SCREEN | | | Page 1 of 5 |
| NAME: PNEUMONIA442 | | INACTIVE: NO | |
| Laboratory Test(s) | Indicator | Value | |
| ICD Coding System [ICD-9 or ICD-10]? (9/10): 10 | | | |
| ICD Code Cd Set ICD Description | | | |
| *A48.2 ICD-10 Nonpneumonic Legionnaires' Disease (Pontiac Fever) | | | |

2.2. Enter/Edit Local Pathogens Menu Option

The Enter/Edit Local Pathogens screen has been modified from “ICD9” to “ICD DIAGNOSIS” and a “CODING SYSTEM:” field has been added to indicate whether the ICD Diagnosis is based on the ICD-9 and/or ICD-10 coding system.

Example of Updated Enter/Edit Local Pathogens Menu Screen

| | |
|---|--------------------------|
| Select Local Pathogen Menu Option: Ent Enter/Edit Local Pathogens | |
| LOCAL PATHOGEN NAME: pneuMONIA442 | |
| This pathogen is already entered as a local pathogen. | |
| NAME: PNEUMONIA442 | INACTIVE: NO |
| PROTOCOL: LREPI | REFERENCE NUMBER: 100 |
| ICD DIAGNOSIS: 010.94 | CODING SYSTEM: ICD-9-CM |
| ICD DIAGNOSIS: A15.6 | CODING SYSTEM: ICD-10-CM |
| Is this the correct one? | |

2.3. Pathogen Inquiry Screen

The Pathogen Inquiry screen has been modified from “ICD9” to “ICD DIAGNOSIS” and a “CODING SYSTEM:” field has been added to indicate whether the ICD Diagnosis is based on the ICD-9 or ICD-10 coding system.

Example of Updated Pathogen Inquiry Screen

```
CHOOSE 1-5: 5  LREPI SEARCH EXTRACT MENU      Lab EPI Primary Menu

                               Lab EPI Primary Menu

ENH   Lab EPI Manual Run (Enhanced)
VR    Print Detailed Verification Report
LO    Local Pathogen Menu ...
PI    Pathogen Inquiry
UP    Lab EPI Parameter Setup
      Lab EPI Protocol Edit
LK    Antimicrobial Link Update

You have PENDING ALERTS
      Enter  "VA to jump to VIEW ALERTS option

Select Lab EPI Primary Menu Option: pi  Pathogen Inquiry
Select Pathogen: legionELLA
NAME: LEGIONELLA                      INACTIVE: YES
LAG DAYS: 15                          RUN DATE: JUL 15, 2000
CYCLE: MONTHLY                       PROTOCOL: LREPI
FOLLOW PTF: YES                      REFERENCE NUMBER: 7
LAB TEST: LEGIONELLA AB              INDICATOR: Equal To
INDICATED VALUE: POS
ETIOLOGY: LEGIONELLA BOZEMANII
ETIOLOGY: LEGIONELLA DUMOFFII
ETIOLOGY: LEGIONELLA GORMANII
ETIOLOGY: LEGIONELLA JORDANIS
ETIOLOGY: LEGIONELLA LONGBEACHAE
ETIOLOGY: LEGIONELLA MICDADEI
ETIOLOGY: LEGIONELLA OAKRIDGENSIS
ETIOLOGY: LEGIONELLA PNEUMOPHILA
ETIOLOGY: LEGIONELLA SP
ETIOLOGY: LEGIONELLA WADSWORTHII
ICD DIAGNOSIS: 482.80                CODING SYSTEM: ICD-9-CM
ICD DIAGNOSIS: A48.1                 CODING SYSTEM: ICD-10-CM
ICD DIAGNOSIS: A48.2                 CODING SYSTEM: ICD-10-CM
ICD DIAGNOSIS: 482.84                CODING SYSTEM: ICD-9-CM
ICD DIAGNOSIS: A48.8                 CODING SYSTEM: ICD-10-CM

Enter RETURN to continue or '^' to exit:
Description:  Legionella (Reference #7)
```


| | | |
|--|---------------------------------|-------|
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| HEPATITIS C ANTIBODY POS | 2 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |
| Etiology | | |
| ICD | | |
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| PEN-RES PNEUMOCOCCUS | 3 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |
| Etiology | | |
| ICD | | |
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| CLOSTRIDIUM DIFFICILE | 4 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |
| Etiology | | |
| ICD | | |
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| TUBERCULOSIS | 5 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |
| Etiology | | |
| ICD | | |
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| STREPTOCOCCUS GROUP A | 6 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |
| Etiology | | |
| ICD | | |
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| LEGIONELLA | 7 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |
| Etiology | | |
| LEGIONELLA BOZEMANII | | |
| LEGIONELLA DUMOFFII | | |
| LEGIONELLA MICDADEI | | |
| LEGIONELLA PNEUMOPHILIA | | |
| LEGIONELLA SP | | |
| ICD | | |
| 482.80 (ICD-9) | | |
| A48.1 (ICD-10) | | |
| A48.2 (ICD-10) | | |
| A48.8 (ICD-10) | | |
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| CANDIDA | 8 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |
| Etiology | | |
| CANDIDA ALBICANS | | |
| CANDIDA GUILLIERMONDII | | |
| CANDIDA KRUSEI | | |
| CANDIDA PARAPSILOSIS | | |
| CANDIDA PSEUDOTROPICALIS | | |
| CANDIDA SKIN TEST ANTIGEN | | |
| CANDIDA STELLATOIDEA | | |
| CANDIDA TROPICALIS | | |
| CANDIDA, NOS | | |
| ICD | | |
| Microbial Susceptibility | Indicator | Value |
| **==**==**==**==**==**==**==**==**==**==**==**==**== | | |
| Pathogen | Ref# Cy LD Protocol FPTF Active | |
| CRYPTOSPORIDIUM | 9 M 15 LREPI 1 0 | |
| Lab Test | Indicator | Value |

| | | | | | |
|--|----------|-----------|-------------|-------|--------|
| Etiology | | | | | |
| ICD | | | | | |
| 007.8 | (ICD-9) | | | | |
| A07.2 | (ICD-10) | | | | |
| A07.9 | (ICD-10) | | | | |
| IEN # 9 damaged. (No ICD) | | | | | |
| Microbial Susceptibility | | Indicator | | Value | |
| **==**==**==**==**==**==**==**==**==**==**==**== | | | | | |
| Pathogen | Ref# | Cy | LD Protocol | FPTF | Active |
| E. COLI 0157:H7 | 10 | M | 15 LREPI | 1 | 0 |
| Lab Test | | | Indicator | Value | |
| Etiology | | | | | |
| ICD | | | | | |
| Microbial Susceptibility | | Indicator | | Value | |
| **==**==**==**==**==**==**==**==**==**==**==**== | | | | | |
| Pathogen | Ref# | Cy | LD Protocol | FPTF | Active |
| MALARIA | 11 | M | 15 LREPI | 1 | 0 |
| Lab Test | | | Indicator | Value | |
| Etiology | | | | | |
| ICD | | | | | |
| 084.0 | (ICD-9) | | | | |
| 084.1 | (ICD-9) | | | | |
| 084.2 | (ICD-9) | | | | |
| 084.3 | (ICD-9) | | | | |
| 084.4 | (ICD-9) | | | | |
| 084.5 | (ICD-9) | | | | |
| 084.6 | (ICD-9) | | | | |
| 084.7 | (ICD-9) | | | | |
| 084.8 | (ICD-9) | | | | |
| 084.9 | (ICD-9) | | | | |
| B50.0 | (ICD-10) | | | | |
| B50.8 | (ICD-10) | | | | |
| B50.9 | (ICD-10) | | | | |
| B51.0 | (ICD-10) | | | | |
| B51.8 | (ICD-10) | | | | |
| B51.9 | (ICD-10) | | | | |
| B52.0 | (ICD-10) | | | | |
| B52.8 | (ICD-10) | | | | |
| B52.9 | (ICD-10) | | | | |
| B53.0 | (ICD-10) | | | | |
| B53.1 | (ICD-10) | | | | |
| B53.8 | (ICD-10) | | | | |
| B54. | (ICD-10) | | | | |
| Microbial Susceptibility | | Indicator | | Value | |
| **==**==**==**==**==**==**==**==**==**==**==**== | | | | | |
| Pathogen | Ref# | Cy | LD Protocol | FPTF | Active |
| DENGUE | 12 | M | 15 LREPI | 1 | 0 |
| Lab Test | | | Indicator | Value | |
| Etiology | | | | | |
| ICD | | | | | |
| 065.4 | (ICD-9) | | | | |
| 061. | (ICD-9) | | | | |
| A90. | (ICD-10) | | | | |
| A91. | (ICD-10) | | | | |
| A93.8 | (ICD-10) | | | | |
| Microbial Susceptibility | | Indicator | | Value | |
| **==**==**==**==**==**==**==**==**==**==**==**== | | | | | |
| Pathogen | Ref# | Cy | LD Protocol | FPTF | Active |
| CREUTZFELDT-JAKOB DISEASE | 13 | M | 15 LREPI | 1 | 0 |
| Lab Test | | | Indicator | Value | |
| Etiology | | | | | |
| ICD | | | | | |
| 046.1 | (ICD-9) | | | | |
| A81.00 | (ICD-10) | | | | |
| A81.01 | (ICD-10) | | | | |
| A81.09 | (ICD-10) | | | | |
| A81.1 | (ICD-10) | | | | |
| A81.2 | (ICD-10) | | | | |
| A81.81 | (ICD-10) | | | | |
| A81.82 | (ICD-10) | | | | |
| A81.83 | (ICD-10) | | | | |
| A81.89 | (ICD-10) | | | | |

| | | | | | |
|--------------------------|------|----|-----------|----------|-------------|
| STREPTOCOCCUS FAECALIS | | | | | |
| STREPTOCOCCUS FAECIUM | | | | | |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| METH-RES STAPH AUREUS | 19 | M | 15 | LREPI | 1 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| STAPHYLOCOCCUS AUREUS | | | | | |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| OXACILLIN | | | Unknown | | |
| NAFCILLIN | | | Unknown | | |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| ALL STAPH AUREUS | 18 | M | 15 | LREPI | 1 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| STAPHYLOCOCCUS AUREUS | | | | | |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| VANC-RES STAPH AUREUS | 20 | M | 15 | LREPI | 1 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| STAPHYLOCOCCUS AUREUS | | | | | |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| VANCMCN | | | Unknown | | |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| ADD THIS ONE!10 | 100 | | | LREPI | 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| ICD | | | | | |
| 500. (ICD-9) | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| NEWEXAMPLE10 | 101 | | | LREPI | 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| EXAMPLEPATHOGEN10 | 102 | | | LREPI | 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| EXAMPLEPATHOGEN01010 | 103 | | | LREPI | 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| ADD ANOTHER10 | 104 | | | LREPI | 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |
| ICD | | | | | |
| Microbial Susceptibility | | | Indicator | | Value |
| ***** | | | | | |
| Pathogen | Ref# | Cy | LD | Protocol | FPTF Active |
| LEG10 | 105 | | | LREPI | 0 |
| Lab Test | | | | | Indicator |
| Etiology | | | | | Value |

4. ICD-10 Searches

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

NOTE: Existing ICD-9 functionality has not changed.

4.1. ICD-10-CM Diagnosis Code Search

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

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.
- 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.

5. Technical Information

5.1. Routines

Some EPI routines were modified 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:

| Routine Name | Function |
|--------------|--|
| LR421P | ICD-10 Post Install Routine. (Populates new ICD-10 coding system fields for current records in the EPI Extract File (File # 69.5). |
| LREPICD | ICD-10 determines coding system (9 or 10) for extract parameter. |
| LREPIXDG | Called to pull in ICD Description and Code Set information for Enter/Edit Local Pathogens and Lab EPI Parameter Setup screens. |

5.2. HL7 Messages

The DG1segment of HL7 Messages has been updated to include an ICD-9 or ICD-10 code set indicator.

Example: HL7 MailMan Message

```
DG1|1||A90.~DENGUE FEVER [CLASSICAL DENGUE]~I10|20121023183419-0400||PR
DG1|2||A91.~DENGUE HEMORRHAGIC FEVER~I10|20121023183419-0400||
DG1|3||A93.8~OTHER SPECIFIED ARTHROPOD-BORNE VIRAL FEVERS~I10|20121023183419-0400||
```

5.3. Online Help for ICD-10 Codes

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

Example: Help Text with 1 and 2 Question Marks (?) and ??)

```
LABORATORY SEARCH/EXTRACT PARAMETERS INPUT SCREEN   Page 1 of 5

NAME: LEGIONELLA                                     INACTIVE: NO

Laboratory Test(s)          Indicator          Value
-----
ICD Coding System [ICD-9 or ICD-10]? (9/10): 10

ICD Code   Cd Set   ICD Description
+A48.2     ICD-10   Nonpneumonic Legionnaires' Disease [Pontiac Fever]
A48.8     ICD-10   Other Specified Bacterial Diseases
?

Answer with ICD DIAGNOSIS
Choose from:
482.80
A48.1

Enter RETURN to continue or '^' to exit: <Return>
```

A48.2
A48.8

Enter RETURN to continue or '^' to exit: <Return>

You may enter a new ICD DIAGNOSIS, if you wish

Select the ICD standardized code, used nationwide in federal and non-federal private health care facilities, to be included in the search.

LABORATORY SEARCH/EXTRACT PARAMETERS INPUT SCREEN Page 1 of 5

NAME: LEGIONELLA

INACTIVE: NO

| Laboratory Test(s) | Indicator | Value |
|--------------------|-----------|-------|
|--------------------|-----------|-------|

ICD Coding System [ICD-9 or ICD-10]? (9/10): 10

| ICD Code | Cd Set | ICD Description |
|----------|--------|--|
| +A48.2 | ICD-10 | Nonpneumonic Legionnaires' Disease [Pontiac Fever] |
| A48.8 | ICD-10 | Other Specified Bacterial Diseases |
| ?? | | |

Choose from:

482.80

A48.1

A48.2

Enter RETURN to continue or '^' to exit: <Return>

A48.8

You may enter a new ICD DIAGNOSIS, if you wish

Enter RETURN to continue or '^' to exit: <Return>

This defines an ICD for use in emerging pathogens data search/extract.