**ICD-10 Follow On Class 1 Software Remediation**

**Laboratory: Emerging Pathogens Initiative (EPI)**

**Application Version 5.2**

**Release Notes**

**LR\*5.2\*421**



### July 2014

### Department of Veterans Affairs Office of Information and Technology Product Development

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# Introduction

## 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.

## 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 |

## 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.

## Documentation

#### The EPI manuals are posted on the VistA Documentation Library (VDL) page: [http://www.va.gov/vdl/application.asp?appid=118.](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*.**

# Modified Screens

#### The following screens have been modified:

#### Laboratory Search/Extract Parameters Input

#### Enter/Edit Local Pathogens Menu Option

## 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 Legionnares’ Disease (Pontiac Fever)

## 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

ICD DIAGNOSIS: 010.94 ICD DIAGNOSIS: A15.6

CODING SYSTEM: ICD-9-CM CODING SYSTEM: ICD-10-CM

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

Is this the correct one?

## 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

ICD DIAGNOSIS: 482.80 ICD DIAGNOSIS: A48.1 ICD DIAGNOSIS: A48.2 ICD DIAGNOSIS: 482.84 ICD DIAGNOSIS: A48.8

CODING SYSTEM: ICD-9-CM CODING SYSTEM: ICD-10-CM CODING SYSTEM: ICD-10-CM CODING SYSTEM: ICD-9-CM CODING SYSTEM: ICD-10-CM

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

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

# Modified Reports

## PRT LAB EPI Print Local Report/Spreadsheet

#### o The LAB EPI Local Report/Spreadsheet option has been modified so that they each include the Diagnosis Code Set Designation (ICD-9 or ICD-10) as a prefix to the Diagnosis Code.

#### o

##### Example of Updated PRT LAB EPI Print Local Report/Spreadsheet (On-Screen Report Display)

Set Id Value Type Test Name LOINC Code LOINC Name Test Result Units Flags and Interp Verified Date/Time

1 ICD10 A90. DENGUE FEVER [CLASSICAL DENGUE] 11-09-2012@0917

#### o

##### Example of Updated PRT LAB EPI Print Local Report/Spreadsheet (Spreadsheet Output)

DEVICE: HOME// HOME (CRT)

|0| |PID|SSN|MPI|Patient Name|Date of Birth|Sex|Race|Homeless|State|Zip|County|Ethnicity|POS|

|1| |PV1|Patient Class|Hospital Location|Discharge Disposition|Facility|Admit Date/Time|Discharge Date/Time|

|2| |DG1|Diagnosis Code|Diagnosis|Admission Date|

1|2|1| |ICD10 A90.|DENGUE FEVER [CLASSICAL DENGUE]|11-09-2012@0917|

## Detailed Verification Report

#### The Detailed Verification Report of EPI Extracted Data has been modified so that the code set (ICD-9 or ICD-10) is not indicated. Rather, the description refers generically to an “ICD coded diagnosis.”

##### Example of Updated Detailed Verification Report of EPI Extracted Data

DETAILED VERIFICATION REPORT OF EPI EXTRACTED DATA

FROM STATION 442 CHEYENNE VAMC PROCESSING PERIOD: 09-01-2014 through 10-30-2014

NTE~7- Report of Legionella/Legionnaire’s

These data note persons at your facility during the month who had EITHER an ICD coded diagnosis for Legionella/Legionnaire’s disease OR a positive

## Report Transmission to Cincinnati Group

#### The VistA Laboratory Emerging Pathogens Initiative shall retain the ability to transmit diagnosis codes and ICD code set designation within the LREPISERVER Data Server triggered report option for the Cincinnati mail group REDACTED.

##### Example of Cincinnati Report

Subj: 1ALBANY EPI (3131011.094951) [#41916] 10/11/13@09:49 343 lines

From: POSTMASTER In 'IN' basket. Page 1

REPORT triggered at 1ALBANY by DEVRD on 3131011.094939

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=

Pathogen

VANC-RES ENTEROCOCCUS

Lab Test Etiology

Ref# Cy LD Protocol FPTF Active

1 M 15

LREPI

1

0

Indicator

Value

ENTEROCOCCUS (STREPT. FAECALIS-GROUP D) ICD

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 CANDIDALab TestEtiology | Ref# Cy LD Protocol FPTF Active8 M 15 LREPI 1 0Indicator | Value |
| CANDIDA ALBICANS CANDIDA GUILLIERMONDII CANDIDA KRUSEICANDIDA PARAPSILOSIS CANDIDA PSEUDOTROPICALIS CANDIDA SKIN TEST ANTIGEN CANDIDA STELLATOIDEA CANDIDA TROPICALIS CANDIDA, NOSICDMicrobial Susceptibility Indicator Value\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= |
| Pathogen CRYPTOSPORIDIUMLab Test | Ref# Cy LD Protocol FPTF Active9 M 15 LREPI 1 0Indicator | Value |

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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 MALARIALab Test EtiologyICD | Ref# Cy LD 11 M 15 | Protocol FPTF Active LREPI 1 0Indicator | Value |
| 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) |  |  |
| 084.9B50.0 B50.8 B50.9 B51.0 B51.8 B51.9 B52.0 B52.8 B52.9 B53.0 B53.1 B53.8 B54. | (ICD-9)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)(ICD-10)Microbial Susceptibility | Indicator | Value |
| \*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF ActiveDENGUE 12 M 15 LREPI 1 0Lab Test IndicatorEtiology | Value |
| ICD |
| 065.4 | (ICD-9) |  |  |
| 061. A90. A91. A93.8 | (ICD-9)(ICD-10)(ICD-10)(ICD-10)Microbial Susceptibility | Indicator | Value |
| \*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active CREUTZFELDT-JAKOB DISEASE 13 M 15 LREPI 1 0Lab Test IndicatorEtiology | Value |
| ICD046.1 (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) |  |
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A81.9 (ICD-10)

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

LEISHMANIASIS 14 M 15 LREPI 1 0

Lab Test Indicator Value

Etiology ICD

085.0 (ICD-9)

085.1 (ICD-9)

085.2 (ICD-9)

085.3 (ICD-9)

085.4 (ICD-9)

085.5 (ICD-9)

085.9 (ICD-9)

B55.0 (ICD-10)

B55.1 (ICD-10)

B55.2 (ICD-10)

B55.9 (ICD-10)

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active HEPATITIS C ANTIBODY NEG 15 M 15 LREPI 1 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active HEPATITIS A ANTIBODY POS 16 M 15 LREPI 1 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

HEPATITIS B POS 17 M 15 LREPI 1 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active VANC-RES COAG NEG STAPH 21 M 15 LREPI 1 0

Lab Test Indicator Value

Etiology

STAPHYLOCOCCUS (COAGULASE NEGATIVE) STAPHYLOCOCCUS EPIDERMIDIS STAPHYLOCOCCUS HAEMOLYTICUS STAPHYLOCOCCUS SAPROPHYTICUS STAPHYLOCOCCUS SALIVARIUS STAPHYLOCOCCUS SIMULANS

0

ICD

Microbial Susceptibility Indicator Value

VANCMCN Unknown

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

ALL STREP PNEUMO 22 M 15 LREPI 1 0

Lab Test Indicator Value

Etiology STREPTOCOCCUS PNEUMONIAE

ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

ALL ENTEROCOCCI 23 M 15 LREPI 1 0

Lab Test Indicator Value

Etiology

0

0

ENTEROCOCCUS (STREPT. FAECALIS-GROUP D)

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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 Value

Etiology 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 Value

Etiology 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 Value

Etiology 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 Value

Etiology ICD

500. (ICD-9)

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

NEWEXAMPLE10 101 LREPI 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

EXAMPLEPATHOGEN10 102 LREPI 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

EXAMPLEPATHOGEN01010 103 LREPI 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

ADD ANOTHER10 104 LREPI 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

LEG10 105 LREPI 0

Lab Test Indicator Value

Etiology

ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

EXAMPLEPATHOGEN1010 106 LREPI 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

ADD SOME TEXT 999 D 1 LREPI 0

Lab Test Indicator Value

25 OH VITAMIN D Contains 0

Etiology

1(1-NAPHTHYL)-2-THIOUREA ICD

|  |  |
| --- | --- |
| 100.0 | (ICD-9) |
| 800.04 | (ICD-9) |
| 200.01 | (ICD-9) |
| 250.00 | (ICD-9) |
| F17.203 | (ICD-10) |
| Microbial SusceptibilityAMIKACN | IndicatorUnknown | Value |

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active IEN # 108 damaged. (No Protocol)

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active IEN # 109 damaged. (No Protocol)

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active IEN # 110 damaged. (No Protocol)

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

TESTROB10 111 LREPI 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*= Pathogen Ref# Cy LD Protocol FPTF Active

ADD SOME TEXT10 112 LREPI 0

Lab Test Indicator Value

Etiology ICD

Microbial Susceptibility Indicator Value

# 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.

## 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.

# Technical Information

## 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. |

## 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||

## 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 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.

Select the ICD standardized code, used nationwide in federal and non-federal private