



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# Laboratory Reference

(LR)

## Patch 1034 Technical Manual

Version 5.2 Patch 1034  
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Division of Information Resource Management

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## 1.0 Introduction

This document lists the various routines, options and other technical details regarding the updates to the RPMS Lab module via IHS Lab Patch 1034 (LR\*5.2\*1034).

The majority of the additions/changes to the RPMS Lab module were made to accommodate ICD-10.

## 2.0 VA Lab Patches

There are two VA Lab patches included in this IHS Lab Patch that address various issues.

### 2.1 Lab Service (LR) Patches

#### 2.1.1 Sequence 335, LR\*5.2\*423: Errors with Building Collection List

This patch addresses the following issues by modifying the necessary routines:

1. In building the collection list, if an order fails to accession, it can cause subsequent orders to fail to accession also, even though the subsequent orders are ok.
2. Laboratory-related locking issues when doing accessioning.

#### 2.1.2 Sequence 338, Patch LR\*5.2\*429: Replace Direct Read of File 80

This patch will replace a direct read of the ICD Diagnosis file (#80) with a call to a standard API (\$ICDDX^ICDCODE) in the form LREPI9.

## 3.0 New Routines

IHS Lab Patch LR\*5.2\*1034 created new routines to enhance functionality or to address various issues.

### 3.1 BLRERRT2 - IHS Lab Error Trap Report, Part 2

Continuation of the IHS Lab Error Trap reporting process: more detailed information regarding error trap entries.

### 3.2 BLRICDO - ICDO Global Utilities

This routine creates the ^BLRICDO global for the Input Transform for Field .07 file 61. ICD-10 Codes retrieved from <http://seer.cancer.gov/tools/conversion/>.

### 3.3 BLRICDU0 - IHS Laboratory ICD Utilities

Various utilities that facilitate the use and/or retrieval of ICD codes.

### 3.4 BLRINRPT - IHS Lab Patch Reports

Reports on the history of the installation of various IHS Lab Patches.

### 3.5 BLRLABJD - Display Lab Job(s) (including HLZTCP) detail, if running

New report that will display information regarding any Lab job processes and will also display information regarding HLZTCP (if it is running).

### 3.6 BLRLROS - LAB ORDER STATUS

New version of the Order/Test Status report that lists the Provider Narrative as well as the SNOMED and ICD codes from the order file and the UID from the Accession file.

### 3.7 BLRMSKEY - Laboratory Menus and Security KEYS Report

New report that lists all Laboratory Module options that have Security Keys.



### 3.8 **BLROTSCH - IHS LAB Order Test/Status Changer**

Routine to allow the user with the LRSUPER Security Key to replace the standard LROS Order/Test Status routine with the BLRLROS routine. It will also allow the user to restore the original LROS routine.

### 3.9 **BLRPRE34 - IHS Lab PATCH 1034 Environment/Pre/Post Install Routine**

Pre/Environment Check/Post routine for the installation of LR\*5.2\*1034.

### 3.10 **BLRRLEVD - BLR Reference Lab Event**

Routine to store code moved from the BLRRLEVT routine.

### 3.11 **BLRRLEVN - BLR Reference Lab Non LEDI Manifest Build**

Routine to create a Reference Lab Shipping Manifest not related to a LEDI interface.

### 3.12 **BLRRLHL2 - BLR HL7 Utilities for Reference Lab, part 2**

Various utilities for the Reference Lab module.

## 4.0 Modified Routines

The following routines have been modified by IHS or by a VA Patch in order to prevent errors and/or add new functionality and/or facilitate ICD-10 processing.

### 4.1 BLRAG05 - LABORATORY ACCESSION GUI RPCS

New STORDIAG subroutine added to facilitate Reference Lab to automatically store and forward ICD codes.

### 4.2 BLRAG05C - SUPPORT FOR LABORATORY ACCESSION GUI RPCS

Modified to facilitate ICD-10 processing.

### 4.3 BLRAG07 - LABORATORY ACCESSION GUI RPCS

Modified to facilitate ICD-10 processing.

### 4.4 BLRAG09D - SUPPORT FOR LABORATORY ACCESSION GUI RPCS

Modified to facilitate ICD-10 processing.

### 4.5 BLRDIAG - MAIN 'SIGN OR SYMPTOM' LAB POV INPUT ROUTINE

Replaced "Sign or Symptom" with "Clinical Indication".

### 4.6 BLRGMENU - GENERIC MENU DRIVER

Added new SHOWBOX and COLHEAD subroutines to enhance reports.

### 4.7 BLRLDFIS - Add data to "IHS" Lab Data file

Replaced "Sign or Symptom" with "Clinical Indication".

### 4.8 BLRLINK1 - CONT. OF IHS LAB LINK TO PCC

Modified to facilitate ICD-10 processing.

- 4.9 BLRLINK3 - CONT. OF BLR - IHS LABORATORY VISIT CREATION**  
Modified to facilitate ICD-10 processing. Also modified so that uncoded ICD codes are not passed to PCC
- 4.10 BLRLINK4 - CONT. OF BLR - IHS LABORATORY VISIT CREATION**  
Modified to facilitate ICD-10 processing. Also modified to no longer unbundle the Panels' tests.
- 4.11 BLRLINKU - IHS LABORATORY VISIT CREATION Utilities**  
Modified to facilitate ICD-10 processing.
- 4.12 BLRLUAC8 - IHS LRUPAC 8, Error in Compilation Report**  
Modified to facilitate ICD-10 processing.
- 4.13 BLRMENU - BLRMENU & SUBMENU HEADERS**  
New subroutines created to facilitate display of menu headers.
- 4.14 BLRPOC2 - EHR POC Component Support, Part 2**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.
- 4.15 BLRREFLA - Reference Lab Address Functions**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.
- 4.16 BLRRLEDI - BLR REFERENCE LAB LEDI UTILITIES**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.
- 4.17 BLRRLEVT - BLR Reference Lab Event**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.
- 4.18 BLRRLHL - BLR HL7 Utilities for Reference Lab**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.

- 4.19 BLRRLMUC - Reference Lab Meaningful Use Chemistry Utilities**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.
- 4.20 BLRSGNS2 - IHS Lab Sign or Symptom Debug, Part 2**  
Modified to facilitate ICD-10 processing.
- 4.21 BLRSGNSD - IHS Lab Sign or Symptom Debug**  
Modified to facilitate ICD-10 processing.
- 4.22 BLRSGNSU - IHS Lab Sign or Symptom Utilities**  
Modified to facilitate ICD-10 processing.
- 4.23 BLRSGNSY - IHS Lab Sign or Symptom**  
Modified to facilitate ICD-10 processing.
- 4.24 BLRSHPM - BLR Reference Lab Shipping Manifest Others**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.
- 4.25 BLRSHPML - BLR Reference Lab Shipping Manifest: Others**  
Modified to facilitate Reference Lab to automatically store and forward ICD codes.
- 4.26 BLRSM - IHS Lab Sign or Symptom List Manager Routine**  
Modified to display ICD codes with SNOMED codes.
- 4.27 BLRSNOMU - IHS Lab SNOMED Utilities**  
Modified to facilitate ICD-10 processing.
- 4.28 BLRTASKS - IHS LAB TASKS REPORT**  
Put a note in the generated report if TaskMan is not running.

**4.29 BLRUTIL4 - MISC IHS LAB UTILITIES (Cont)**

The GETCOMPD subroutine no longer attempts to get a completed date from the Lab Data (#63) file.

**4.30 BLRUTIL6 - MISC IHS LAB UTILITIES (Cont)**

Modified the IHSCOLS subroutine to check the Lab Order Entry (#69) file for the Collection Sample as well.

**4.31 LA7UTL02 - Cytopathology Query Utility**

Modified "ICD9" verbiage to "ICD".

**4.32 LA7UTL03 - Surgical Pathology Query Utility**

Modified "ICD9" verbiage to "ICD".

**4.33 LA7VORC - LAB ORC Segment message builder**

Modified to add UPIN to HL7 ORC segment.

**4.34 LA7VQINS - LAB ORM (Order) message builder**

Modified to facilitate ICD-10 processing.

**4.35 LR7OB63C - Get SP,EM,CY data**

Modified to facilitate ICD-10 processing.

**4.36 LR7OB63D - Get Autopsy data**

Modified to facilitate ICD-10 processing.

**4.37 LR7OF1 - Setup new order from OE/RR**

Modified to facilitate ICD-10 processing.

**4.38 LR7OGMU - Interim Report rpc Memo Utility**

Modified code from using naked reference to using \$G.

**4.39 LR7OR2 - Get Lab Results (cont.)**

Modified code from using naked reference to using \$G.

- 4.40 **LR7OSAP1 - Silent AP rpt (cont.)**  
Modified to facilitate ICD-10 processing.
- 4.41 **LR7OSUM4 - Silent Patient Cum (cont.)**  
Modified to not process \$SELECT statement reference ranges.
- 4.42 **LRAPCUM1 - AP PATIENT CUM**  
Modified to facilitate ICD-10 processing.
- 4.43 **LRAPD - AP DATA ENTRY**  
Modified to facilitate ICD-10 processing.
- 4.44 **LRAPD1 - AP DATA ENTRY**  
Modified to facilitate ICD-10 processing.
- 4.45 **LRAPDA - ANATOMIC PATH DATA ENTRY**  
Modified to facilitate ICD-10 processing.
- 4.46 **LRAPMRL - AP MODIFY RELEASED REPORT**  
Modified to facilitate ICD-10 processing.
- 4.47 **LRAPQAT1 - QA CODE SEARCH**  
Modified to facilitate ICD-10 processing.
- 4.48 **LRAPRES - AP ESIG RELEASE REPORT**  
Modified to facilitate ICD-10 processing.
- 4.49 **LRAPSE - AP SEARCHES**  
Modified to facilitate ICD-10 processing.
- 4.50 **LRAPT3 - AUTOPSY RPT PRINT COND(1)'T**  
Modified to facilitate ICD-10 processing.

- 4.51 LRAPX - AP CODING**  
Modified to facilitate ICD-10 processing.
- 4.52 LRAUDA - AUTOPSY PATH DATA ENTRY**  
Modified to facilitate ICD-10 processing.
- 4.53 LRAURPT - AUTOPSY RPT**  
Modified to facilitate ICD-10 processing.
- 4.54 LRAUS - PRINT ICD SEARCH**  
Modified to facilitate ICD-10 processing.
- 4.55 LRAUSICD - AUTOPSY ICDCM SEARCH**  
Modified to facilitate ICD-10 processing.
- 4.56 LRBEBA - SCI, EI, AND LRBEDGX QUESTIONS**  
Modified to facilitate ICD-10 processing.
- 4.57 LRBEBA2 - ORDERING AND RESULTING OUTPATIENT**  
Modified to facilitate ICD-10 processing.
- 4.58 LRBEBA4 - ORDERING AND RESULTING OUTPATIENT**  
Modified to facilitate ICD-10 processing.
- 4.59 LRBEBAO - ORDERING AND RESULTING FOR OUTPATIENTS**  
Modified to facilitate ICD-10 processing.
- 4.60 LRBLJPP1 - PT ADM,RX SPECIALTY,ICDCM CODES**  
Modified to facilitate ICD-10 processing.
- 4.61 LRBLPC1 - PT ADM,RX SPECIALTY,ICDCM CODES**  
Modified to facilitate ICD-10 processing.

- 4.62 LRCAP64S - SEARCH 64 FOR CODES**  
Modified to facilitate ICD-10 processing.
- 4.63 LREPI - EMERGING PATHOGENS SEARCH**  
Modified to facilitate ICD-10 processing.
- 4.64 LREPI1A - EMERGING PATHOGENS HL7 BUILDER**  
Modified to facilitate ICD-10 processing.
- 4.65 LREPI2 - EMERGING PATHOGENS HL7 BUILD**  
Modified to facilitate ICD-10 processing.
- 4.66 LREPI2A - EMERGING PATHOGENS HL7 BUILD**  
Modified to facilitate ICD-10 processing.
- 4.67 LREPI3 - EMERGING PATHOGENS HL7 SEGMENTS**  
Modified to facilitate ICD-10 processing.
- 4.68 LREPI5 - EMERGING PATHOGENS SEARCH**  
Modified to facilitate ICD-10 processing.
- 4.69 LREPICY - EMERGING PATHOGENS SEARCH**  
Modified to facilitate ICD-10 processing.
- 4.70 LREPIPH - EMERGING PATHOGENS HL7 SEGMENT BUILDER**  
Modified to facilitate ICD-10 processing.
- 4.71 LREPIRP3 - EMERGING PATHOGENS HL7 REPORT CONVERSION**  
Modified to facilitate ICD-10 processing.



#### 4.72 LREPIRP5 - EMERGING PATHOGENS HL7 REPORT CONVERSION

Modified to facilitate ICD-10 processing.

#### 4.73 LREPIRP7 - EPI-PRINT VERIFICATION REPORT

Modified to facilitate ICD-10 processing.

#### 4.74 LREPISRV - EPI data server

Modified to facilitate ICD-10 processing.

#### 4.75 LROE - LAB ORDER ENTRY AND ACCESSION

Reference Lab changes to facilitate the automatic storing and forwarding of ICD codes. VA Lab Patch LR\*5.2\*423 change: modify the incremental lock to use the variable DILOCKTM as the timeout value rather than 1 second..

#### 4.76 LRORDK - CLEAN UP AFTER ACCESSIONING PROCESS

Reference Lab changes to facilitate the automatic storing and forwarding of ICD codes.

#### 4.77 LRPHSET - COLLECTION LIST TO ACCESSIONS

Reference Lab changes to facilitate the automatic storing and forwarding of ICD codes.

#### 4.78 LRPHSET1 - COLLECTION LIST TO ACCESSIONS

Reference Lab changes to facilitate the automatic storing and forwarding of ICD codes. VA Lab patch LR\*5.2\*423 modification: use the institution from the user, DUZ(2), when an ordering location is encountered that is not linked to an institution..

#### 4.79 LRPXAPI2 - Lab Extract API code

Modified to facilitate ICD-10 processing.

#### 4.80 LRPXAPIU - Lab Extract API Utilities

Modified to facilitate ICD-10 processing.

- 4.81 **LRPXAPPU - Test Lab APIs Utilities**  
Modified to facilitate ICD-10 processing.
- 4.82 **LRPXCHKA - Lab PXRMINDEX Index Validation AP**  
Modified to facilitate ICD-10 processing.
- 4.83 **LRPXRM - Lab reminder index for Micro and AP**  
Modified to facilitate ICD-10 processing.
- 4.84 **LRPXSXRA - Build indexes for Lab Anatomic Path.**  
Modified to facilitate ICD-10 processing.
- 4.85 **LRRP - PROCESS DATA FOR INTERIM REPORTS**  
Modified a naked reference call to use \$G.
- 4.86 **LRSPRPT1 - SURG PATH RPT PRINT CONT.**  
Modified to facilitate ICD-10 processing.
- 4.87 **LRSPS - CY/EM/SP PATH SEARCH LROPT SELECTOR**  
Modified to facilitate ICD-10 processing.
- 4.88 **LRSPSICD - CY/EM/SP ICD SEARCH**  
Modified to facilitate ICD-10 processing.
- 4.89 **LRSPSICP - SEARCH BY ICD CODE PRINT**  
Modified to facilitate ICD-10 processing.
- 4.90 **LRSRVR2 - LAB DATA SERVER CONT'D RELMA  
EXTRACT**  
Modified to facilitate ICD-10 processing.
- 4.91 **LRTOCOST - ORDERING STATISTICS/COST REPORT**  
Modified to display the HRCN and not the SSN of the patient.

**4.92 LRUTT - LAB TEST TURNAROUND TIME**

Modified a naked reference call to use \$G.

**4.93 LRVER3A - DATA VERIFICATION**

Added call to new LRPARAM subroutine to reset variables and restored a QUIT command to a subroutine.

**4.94 LRVER5 - LAB ROUTINE DATA VERIFICATION**

Added +\$G to a variable to prevent <UNDEFINED> error.

**4.95 LRWLST1 - ACCESSION SETUP**

New subroutine added to facilitate Reference Lab to automatically store and forward ICD codes. Also modified to ensure the Collection Sample in the Accession file matches the Collection Sample on the test in the Lab Order Entry (#69) file.

**4.96 LRXREF - BUILD CROSS-REFERENCES FOR RE-INDEX**

Modified to facilitate ICD-10 processing.

## 5.0 Options

### 5.1 IHS Lab Patch LR\*5.2\*1034 Options

IHS Lab Patch LR\*5.2\*1034 added and/or modified options.

#### 5.1.1 New Options

IHS Lab Patch LR\*5.2\*1034 added the following two, new options.

##### 5.1.1.1 BLRLROS - Order/test status by Order Number

This option will be placed on the BLRMENU with the LROS synonym during the Post Installation phase of the LR\*5.2\*1034 installation process.

It is the new Order/Test Status report.

```

NAME: BLRLROS
MENU TEXT: Order/test status by Order Number
TYPE: run routine                      CREATOR: KRING,MICHAEL
PACKAGE: IHS LABORATORY
DESCRIPTION: IHS Version of LROS
ROUTINE: EP^BLRLROS
UPPERCASE MENU TEXT: ORDER/TEST STATUS BY ORDER NUM

```

##### 5.1.1.2 BLROTSCH - Replace IHS Lab Order/Test Status

This option will be placed on the BLRMENU with the REPL synonym during the Post Installation phase of the LR\*5.2\*1034 installation process.

This option calls the BLROTSCH routine that will allow a user with the LRSUPER key to replace the LROS routine so that all versions of the Order/Test Status report will be the version produced by the new BLRLROS routine. The routine will also allow the user to restore the original Order/Test Status report routine.

```

NAME: BLROTSCH
MENU TEXT: Replace IHS Lab Order/Test Status ...
TYPE: run routine                      CREATOR: KRING,MICHAEL
LOCK: LRSUPER                          PACKAGE: IHS LABORATORY
DESCRIPTION: Allows the "replacement" of the Order/Test status routine
(LROS) with the IHS Version (BLRLROS) or to change it back to the original
VA
version.
ROUTINE: PEP^BLROTSCH
UPPERCASE MENU TEXT: REPLACE IHS LAB ORDER/TEST STA

```

## 5.1.2 Modified Options

The LR\*5.2\*1034 patch modified the following options to remove the verbiage "ICD9" and replaced it with "ICD".

### 5.1.2.1 +LRAPAUDAA - Autopsy protocol & ICDCM coding

```

NAME: LRAPAUDAA
MENU TEXT: Autopsy protocol & ICDCM coding
TYPE: run routine                      CREATOR: WALKER,MICHAEL
PACKAGE: LAB SERVICE
DESCRIPTION:  Allows entry and edit of autopsy summary and ICDCM codes
for an
unreleased report.  CPT coding is also permitted regardless of the release
status of the report.
ROUTINE: A^LRAUDA
UPPERCASE MENU TEXT: AUTOPSY PROTOCOL & ICDCM CODIN

```

### 5.1.2.2 LRAPDGI - FS/Gross/Micro/Dx/ICDCM Coding

```

NAME: LRAPDGI
MENU TEXT: FS/Gross/Micro/Dx/ICDCM Coding
TYPE: run routine                      CREATOR: WALKER,MICHAEL
PACKAGE: LAB SERVICE
DESCRIPTION:  Allows review of gross specimen and frozen descriptions and
entry of microscopic and diagnosis descriptions and ICDCM coding for each
accession number.  This is permitted for unreleased reports only.
However,
CPT coding is permitted regardless of the release status of the report.
ROUTINE: EN3^LRAPD
UPPERCASE MENU TEXT: FS/GROSS/MICRO/DX/ICDCM CODING

```

### 5.1.2.3 LRAPICD - ICDCM coding, anat path

```

NAME: LRAPICD                          MENU TEXT: ICDCM coding, anat path
TYPE: run routine                      CREATOR: WALKER,MICHAEL
PACKAGE: LAB SERVICE
DESCRIPTION:  ICDCM coding for anatomic pathology.
ROUTINE: EN^LRAPX
UPPERCASE MENU TEXT: ICDCM CODING, ANAT PATH

```

### 5.1.2.4 LRAPSI - ICDCM code search

```

NAME: LRAPSI                          MENU TEXT: ICDCM code search
TYPE: run routine                      CREATOR: WALKER,MICHAEL
PACKAGE: LAB SERVICE
DESCRIPTION:  Option searches pathology entries by date for ICDCM
diagnosis code.
ROUTINE: I^LRAPSE                      UPPERCASE MENU TEXT: ICDCM CODE
SEARCH

```

## 6.0 Modified Dictionaries/Files

IHS Lab Patch LR\*5.2\*1034 made modifications to several files in order to facilitate ICD-10 processing.

### 6.1 TOPOGRAPHY FIELD (#61)

The ICD0 field was modified and a new input transform was incorporated.

```

STANDARD DATA DICTIONARY #61 -- TOPOGRAPHY FIELD FILE
                                                    MAR 12,2015@10:53:55
PAGE 1
STORED IN ^LAB(61, (8572 ENTRIES)   SITE: LR1034 Database   UCI:
LR1034,LR1034
(VERSION 5.2)

DATA          NAME          GLOBAL          DATA
ELEMENT       TITLE          LOCATION        TYPE
-----
-----
61,.07        ICDO CODE                   0;7 FREE TEXT

                INPUT TRANSFORM:  K:$L(X)>5!($L(X)<4) X I $D(X)
K: '$$ICDO^BLRICDO
                (X) X
                LAST EDITED:      MAR 05, 2014
                HELP-PROMPT:      ANSWER MUST BE A VALID ICDO CODE
                DESCRIPTION:      The appropriate ICD0 code associated with
this
                specimen or source.

                NOTES:            XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

```

### 6.2 LAB DATA (#63)

Several fields were changed from ICD9 to ICD.

```

STANDARD DATA DICTIONARY #63.808 -- AUTOPSY ICDCM CODE SUB-FILE
                                                    MAR 12,2015@10:56:29
PAGE 1
STORED IN ^LR(D0,80,   SITE: LR1034 Database   UCI: LR1034,LR1034

DATA          NAME          GLOBAL          DATA
ELEMENT       TITLE          LOCATION        TYPE
-----
-----
These are the ICDCM codes on this autopsy.

63.808,.01    AUTOPSY ICDCM CODE         0;1 POINTER TO ICD DIAGNOSIS FILE
(#80)
                (Multiply asked)

                INPUT TRANSFORM:  I $D(X) S DINUM=X

```

```

                LAST EDITED:      AUG 04, 2014
                DESCRIPTION:      This is the ICDCM code on this autopsy.
                NOTES:            XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

                FILES POINTED TO          FIELDS
                ICD DIAGNOSIS (#80)      AUTOPSY ICDCM CODE (#.01)

STANDARD DATA DICTIONARY #63.02 -- EM SUB-FILE      MAR 12,2015@11:03:38
PAGE 1
STORED IN ^LR(D0,"EM",      SITE: LR1034 Database    UCI: LR1034,LR1034

DATA          NAME          GLOBAL          DATA
ELEMENT      TITLE          LOCATION      TYPE
-----
-----
63.02,80     ICDCM CODE          3;0 POINTER Multiple #63.203
                        (Add New Entry without Asking)

                LAST EDITED:      AUG 04, 2014
                DESCRIPTION:      These are the ICDCM codes on this specimen.

63.203,.01   ICDCM CODE          0;1 POINTER TO ICD DIAGNOSIS FILE
(#80)
                        (Multiply asked)

                LAST EDITED:      AUG 04, 2014
                DESCRIPTION:      This is the ICDCM code on this specimen.

                FILES POINTED TO          FIELDS
                ICD DIAGNOSIS (#80)      ICDCM CODE:ICDCM CODE (#.01)
    
```

### 6.3 LAB NLT/CPT CODES (#64.81)

Set of codes was changed from ICD9 to ICD.

```

STANDARD DATA DICTIONARY #64.81 -- LAB NLT/CPT CODES FILE
                                                MAR 12,2015@11:08:06
PAGE 1
STORED IN ^LAB(64.81, (2 ENTRIES)    SITE: LR1034 Database    UCI:
LR1034,LR1034
(VERSION 5.2)

DATA          NAME          GLOBAL          DATA
ELEMENT      TITLE          LOCATION      TYPE
-----
-----
64.81,6     TYPE          0;7 SET

                'CPT' FOR CPT CODE;
                'SNO' FOR SNOMED CODE;
                'NOS' FOR NOS;
                'ICD' FOR ICD CODE;

                LAST EDITED:      MAR 05, 2014
    
```

```

64.81,7      NAME CHANGE          0;8 FREE TEXT

INPUT TRANSFORM:  K:$L(X)>60!($L(X)<3) X
LAST EDITED:     JUL 31, 1996

```

## 6.4 LAB ORDER ENTRY (#69)

Several instances of ICD-9 in descriptions were changed to ICD.

```

STANDARD DATA DICTIONARY #69.01 -- SPECIMEN # SUB-FILE
                                                MAR 12,2015@11:11:26
PAGE 20
STORED IN ^LRO(69,D0,1,  SITE: LR1034 Database  UCI: LR1034,LR1034

DATA      NAME      GLOBAL      DATA
ELEMENT   TITLE      LOCATION    TYPE
-----
-----
69.05,.01      ICD CODES          0;1 POINTER TO ICD DIAGNOSIS FILE
(#80)

                LAST EDITED:   APR 07, 2014
                DESCRIPTION:   ICD ordering diagnosis code.  For CPRS
internal        laboratory orders, the ordering provider
                enters this diagnosis via CPRS.  For
indicate        laboratory orders, the provider must
                the diagnosis code on paper for entry by
the             laboratory staff.  When the lab test is
                resulted, the ordering diagnosis code
will be        sent to PCE/PTF for billing purposes.

                CROSS-REFERENCE:69.05^B
                1)= S
^LRO(69,DA(3),1,DA(2),2,DA(1),2,"B",$(X,
                1,30),DA)=" "

                2)= K
^LRO(69,DA(3),1,DA(2),2,DA(1),2,"B",$(X,
                1,30),DA)

```

## 6.5 LAB SECTION PRINT (#69.2)

Several instances of ICD-9 in descriptions were changed to ICD.

```

STANDARD DATA DICTIONARY #69.2 -- LAB SECTION PRINT FILE
                                                MAR 12,2015@11:21:51
PAGE 1
STORED IN ^LRO(69.2, (24 ENTRIES)  SITE: 2013 DEMO HOSPITAL  UCI:
CMBA,CMBA (
VERSION 5.2)

DATA      NAME      GLOBAL      DATA

```



ELEMENT	TITLE	LOCATION	TYPE
69.2,.05	PRINT SNOMED/ICD CODES 0;5 SET		
		'1' FOR LOWER CASE;	
		'0' FOR UPPER CASE;	
	LAST EDITED:	JUL 09, 1986	
	DESCRIPTION:	If lower case is to be printed for SNOMED	
and		ICDCM codes enter 1 or LOWER CASE.	

## 6.6 LAB SEARCH/EXTRACT (#69.5)

Several instances of ICD-9 in descriptions were changed to ICD.

STANDARD DATA DICTIONARY LAB SEARCH/EXTRACT			
		#69.54 -- ICD SUB-FILE	MAR 12,2015@11:23:33
PAGE 1			
STORED IN ^LAB(69.5,D0,3,		SITE: LR1034 Database	UCI: LR1034,LR1034
DATA	NAME	GLOBAL	DATA
ELEMENT	TITLE	LOCATION	TYPE
-----			
This defines the ICD to search for.			
CROSS REFERENCED BY: ICD(B)			
69.54,.01	ICD	0;1 POINTER TO ICD DIAGNOSIS FILE	
(#80)		(Multiply asked)	
	LAST EDITED:	APR 02, 2014	
	HELP-PROMPT:	Select the ICDM standardized code, used nationwide in federal and non-federal	
/private		health care facilities, to be included in	
the		search.	
	DESCRIPTION:	This defines the ICD to search for.	
	CROSS-REFERENCE:	69.54^B	
		1)= S	
		^LAB(69.5,DA(1),3,"B",\$(X,1,30),DA)=" "	
		2)= K ^LAB(69.5,DA(1),3,"B",\$(X,1,30),DA)	
	FILES POINTED TO	FIELDS	
	ICD DIAGNOSIS (#80)	ICD (#.01)	

## 6.7 IHS LAB TRANSACTION LOG (#9009022)

Several instances of ICD-9 in descriptions were changed to ICD.

```

STANDARD DATA DICTIONARY #9009022 -- IHS LAB TRANSACTION LOG FILE
                                     MAR 12,2015@11:26:14
PAGE 1
STORED IN ^BLRTXLOG( (77 ENTRIES)  SITE: LR1034 Database  UCI:
LR1034,LR1034
(VERSION 5.2)

DATA          NAME          GLOBAL          DATA
ELEMENT       TITLE         LOCATION       TYPE
-----
-----
9009022,.11  LAB POV                    0;11 POINTER TO ICD DIAGNOSIS FILE
(#80)

                LAST EDITED:    AUG 13, 1998
                HELP-PROMPT:    Enter Purpose of Visit (ICD Code -
Diagnosis)
                DESCRIPTION:    Stores pointer to ICD DIAGNOSIS file. This
may
lab
                                be entered at the time of accessioning by
                                if outpatient. Used to help define problem
                                with orphaned labs.

                FILES POINTED TO          FIELDS
ICD DIAGNOSIS (#80)                    LAB POV (#.11)
    
```

## 6.8 BLR REFERENCE LAB ORDER/ACCESSION (#9009026.3)

Several instances of ICD-9 in descriptions were changed to ICD.

```

STANDARD DATA DICTIONARY #9009026.3 -- BLR REFERENCE LAB ORDER/ACCESSION
FILE
                                     MAR 12,2015@11:29:49
PAGE 1
STORED IN ^BLRRLO( (522 ENTRIES)  SITE: 2013 DEMO HOSPITAL  UCI:
CMBA,CMBA (V
ERSION 5.2)

DATA          NAME          GLOBAL          DATA
ELEMENT       TITLE         LOCATION       TYPE
-----
-----
9009026.3,1  DIAGNOSIS                    1;0 POINTER Multiple #9009026.31

9009026.31,.01  DIAGNOSIS                    0;1 POINTER TO ICD DIAGNOSIS FILE
(#80)
                                (Multiply asked)

                LAST EDITED:    JUN 22, 2010
                CROSS-REFERENCE:  9009026.31^B
                                1)= S
^BLRRLO(DA(1),1,"B",SE(X,1,30),DA)=" "
    
```

	2)= K ^BLRRLO(DA(1),1,"B",SE(X,1,30),DA)
FILES POINTED TO	FIELDS
ICD DIAGNOSIS (#80)	DIAGNOSIS:DIAGNOSIS (#.01)

## 7.0 List Template

IHS Lab patch LR\*5.2\*1034 modified the BLR SNOMED SELECT list template so that the ICD codes will be displayed next to the SNOMED codes.

### 7.1 BLR SNOMED SELECT

NAME: BLR SNOMED SELECT	TYPE OF LIST: PROTOCOL
RIGHT MARGIN: 80	TOP MARGIN: 5
BOTTOM MARGIN: 20	OK TO TRANSPORT?: OK
USE CURSOR CONTROL: YES	PROTOCOL MENU: BLR SNOMED MENU
SCREEN TITLE: BLR SNOMED SELECT	ALLOWABLE NUMBER OF ACTIONS: 1
AUTOMATIC DEFAULTS: YES	HIDDEN ACTION MENU: VALM HIDDEN
ACTIONS	
ITEM NAME: SNOMED	COLUMN: 2
WIDTH: 16	DISPLAY TEXT: SNOMED
ITEM NAME: SNOMED DESCRIPTION	COLUMN: 18
WIDTH: 50	DISPLAY TEXT: SNOMED DESCRIPTION
ITEM NAME: ICD	COLUMN: 70
WIDTH: 10	DISPLAY TEXT: ICD
EXIT CODE: D EXIT^BLRSM	HEADER CODE: D HDR^BLRSM
HELP CODE: D HELP^BLRSM	ENTRY CODE: D INIT^BLRSM

## 8.0 Protocol

IHS Lab Patch LR\*5.2\*1034 added the new Protocol BHL ORDER A TEST to facilitate the creation of HL7 ORM segments.

### 8.1 BHL ORDER A TEST

```
NAME: BHL ORDER A TEST
ITEM TEXT: Order A Test HL7 ORM/001 Message
TYPE: action                                CREATOR: ADAM,ADAM
ENTRY ACTION: S BHLMSG=$$001^BLRRLHL2(.BLRRL)
TIMESTAMP: 60562,50065
```

## 9.0 Form

VA Lab Patch LR\*5.2\*429 modifies form LREPI9 in the FORM (#.403) file to use API \$\$ICDDX^ICDCODE to extract the diagnosis code description from file (#80) rather than using a direct read. The direct read could potentially fail with the install of ICD-10.

The FORM (#.403) file stores ScreenMan forms, which are composed of blocks. The form's attributes that describe how information is presented on the screen are contained in the file.

### 9.1 LREPI9

NAME: LREPI9	READ ACCESS: @
WRITE ACCESS: @	DATE CREATED: OCT 07, 1996@10:13
PRIMARY FILE: 69.5	DISPLAY ONLY: NO
FORM ONLY: NO	COMPILED: YES
PAGE NUMBER: 1	PAGE COORDINATE: 1,1
NEXT PAGE: 2	PAGE NAME: Page 1
BLOCK NAME: LREPI9HEAD	BLOCK ORDER: 1
BLOCK COORDINATE: 1,1	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI92	BLOCK ORDER: 2
BLOCK COORDINATE: 6,1	TYPE OF BLOCK: EDIT
REPLICATION: 3	
BLOCK NAME: LREPI93	BLOCK ORDER: 3
BLOCK COORDINATE: 13,2	TYPE OF BLOCK: EDIT
REPLICATION: 3	
BLOCK NAME: LREPI91	BLOCK ORDER: 4
BLOCK COORDINATE: 7,2	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI911	BLOCK ORDER: 5
BLOCK COORDINATE: 13,54	TYPE OF BLOCK: EDIT
PAGE NUMBER: 2	PAGE COORDINATE: 1,1
NEXT PAGE: 3	PREVIOUS PAGE: 1
PAGE NAME: Page 2	
BLOCK NAME: LREPI5	BLOCK ORDER: 5
BLOCK COORDINATE: 14,1	TYPE OF BLOCK: EDIT
REPLICATION: 3	
BLOCK NAME: LREPI9HEAD	BLOCK ORDER: 1
BLOCK COORDINATE: 1,1	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI94	BLOCK ORDER: 2
BLOCK COORDINATE: 9,1	TYPE OF BLOCK: EDIT
REPLICATION: 3	
BLOCK NAME: LREPI96	BLOCK ORDER: 4
BLOCK COORDINATE: 7,1	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI912	BLOCK ORDER: 3
BLOCK COORDINATE: 9,44	TYPE OF BLOCK: EDIT
REPLICATION: 3	
PAGE NUMBER: 3	PAGE COORDINATE: 1,1
NEXT PAGE: 4	PREVIOUS PAGE: 2
PAGE NAME: Page 3	
BLOCK NAME: LREPI9HEAD	BLOCK ORDER: 1
BLOCK COORDINATE: 1,1	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI97	BLOCK ORDER: 2
BLOCK COORDINATE: 7,1	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI98	BLOCK ORDER: 3

BLOCK COORDINATE: 11,1	TYPE OF BLOCK: EDIT
REPLICATION: 4	
BLOCK NAME: LREPI99	BLOCK ORDER: 4
BLOCK COORDINATE: 11,40	TYPE OF BLOCK: EDIT
REPLICATION: 4	
PAGE NUMBER: 4	PAGE COORDINATE: 1,1
NEXT PAGE: 5	PREVIOUS PAGE: 4
PAGE NAME: Page 4	
BLOCK NAME: LREPI9HEAD	BLOCK ORDER: 1
BLOCK COORDINATE: 1,1	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI913	BLOCK ORDER: 2
BLOCK COORDINATE: 7,1	TYPE OF BLOCK: EDIT
PAGE NUMBER: 5	PAGE COORDINATE: 1,1
NEXT PAGE: 1	PREVIOUS PAGE: 4
PAGE NAME: Page 5	
BLOCK NAME: LREPI9HEAD	BLOCK ORDER: 1
BLOCK COORDINATE: 1,1	TYPE OF BLOCK: DISPLAY
BLOCK NAME: LREPI910	BLOCK ORDER: 2
BLOCK COORDINATE: 7,1	TYPE OF BLOCK: EDIT

## Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

**Phone:** (888) 830-7280 (toll free)

**Web:** <http://www.ihs.gov/helpdesk>

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