



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Laboratory Reference

(LR)

Laboratorian Guide

Version 5.2 Patch 1031
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Preface

The purpose of this guide is to provide the IHS Lab Users with documentation that will aid in their use of the enhancements and/or updates of IHS Lab Patch 1031.

1.0 Introduction

IHS Lab Patch 1031 incorporates changes and/or enhancements to the IHS Lab Package that have either corrected issues that had arisen or implemented requests. It also incorporates various Veteran Administration (VA) patches in order to facilitate the mandated process of VA and IHS convergence of the Lab Package.

This guide provides IHS Laboratorians with descriptions of the changes and/or enhancements and other information.

2.0 Lab Module Mail Groups and Bulletin

In order for the Laboratory Module to function effectively, it is imperative that active users of the Lab Module are assigned to the LMI Mail Group as well as other Lab Module groups.

2.1 LMI Mail Group

Numerous Lab Module routines send informational MailMan messages to the members of the LMI Mail Group.

Members of the LMI Mail group should review their MailMan messages daily.

2.2 LAB MESSAGING Mail Group

This mail group is used by the LAB MESSAGING package to notify appropriate Lab and IRM staff of conditions affecting LAB MESSAGING that may need corrective action.

2.3 BLRTXLOG Bulletin

It is critical that Lab supervisory personnel are assigned to the Mail Group associated with the BLRTXLOG bulletin because PCC Errors are reported via that Bulletin.

3.0 LA7 Message Queue Incoming Reference Lab Messages Report

A new routine (BLR6249R) and a new option (BLR6249R) have been created to allow Laboratorians with the LRSUPER Security Key to display information regarding Incoming Messages from a Reference Lab that do not have a Status of "Purgeable".

3.1 BLR6249R Option

The BLR6249R option will have to be added to a menu before the option can be accessed. It is advised that it be added to the BLRMENU. It is secured with the LRSUPER Security Key so only users with that Security Key can access the program.

3.2 Pagination

The first prompt is the pagination prompt: in other words, should all data be printed on "one page" or should page breaks be inserted?

```

                                DEMO HOSPITAL
Date:11/17/11          LA7 MESSAGE QUEUE (#62.49) File          Time:2:53 PM
                                QUEST Incoming Messages          BLR6249R
                                Non-Purgeable Statuses Only
-----
One Header Line ONLY? NO//

```

Figure 3-1: Pagination prompt

3.3 Device Selection Prompt

The next prompt is standard select device prompt.

```

                                DEMO HOSPITAL
Date:11/17/11          LA7 MESSAGE QUEUE (#62.49) File          Time:2:59 PM
                                QUEST Incoming Messages          BLR6249R
                                Non-Purgeable Statuses Only
-----
DEVICE: HOME//

```

Figure 3-2: Select Device prompt

3.4 Example Report

Figure 3-3 is an example report.

DEMO HOSPITAL						
Date:11/17/11	LA7 MESSAGE QUEUE (#62.49) File				Page 1	
Time:3:01 PM	QUEST Incoming Messages				BLR6249R	
Non-Purgeable Statuses Only						
Msg #	STS	UID	Accession	Entry Date/Time		Instrument
64	E	6010000257	SO 10 257	11/18/2010	6:26 PM	QUEST
96	E	6010000267	SO 10 267	01/03/2011	7:07 PM	QUEST
97	E	6010000281	SO 10 281	01/03/2011	7:07 PM	QUEST
106	E	6011000001	SO 11 1	01/13/2011	8:39 AM	QUEST
107	E	6011000001	SO 11 1	01/13/2011	4:19 PM	QUEST
134	E	6011000002	SO 11 2	02/21/2011	9:12 AM	QUEST
135	E	6011000024	SO 11 24	02/21/2011	9:12 AM	QUEST
136	E	6011000038	SO 11 38	02/21/2011	9:12 AM	QUEST
137	E			02/21/2011	9:12 AM	QUEST
138	E	6011000005	SO 11 5	02/21/2011	9:12 AM	QUEST
139	E	6011000028	SO 11 28	02/21/2011	9:12 AM	QUEST
142	E			02/21/2011	9:12 AM	QUEST
143	E	6011000028	SO 11 28	02/21/2011	9:12 AM	QUEST
179	E	6011000070	SO 11 70	03/24/2011	8:58 PM	QUEST
198	Q	6011000060	SO 11 60	04/04/2011	11:03 AM	QUEST
200	E	6011000094	SO 11 94	04/04/2011	11:03 AM	QUEST
202	E	6011000080	SO 11 80	04/04/2011	11:03 AM	QUEST
205	E	6010000273	SO 10 273	04/04/2011	11:03 AM	QUEST
217	E	6011000107	SO 11 107	04/11/2011	11:00 AM	QUEST
218	E	6011000108	SO 11 108	04/11/2011	11:00 AM	QUEST
219	E	6011000103	SO 11 103	04/11/2011	11:00 AM	QUEST
220	E	6011000070	SO 11 70	04/11/2011	11:00 AM	QUEST
232	E	6011000070	SO 11 70	04/18/2011	8:39 PM	QUEST
233	E	6011000115	SO 11 115	04/18/2011	8:39 PM	QUEST
234	E	6011000007	SO 11 7	04/26/2011	10:54 AM	QUEST
235	E	6011000070	SO 11 70	04/27/2011	12:52 PM	QUEST
238	E	6011000125	SO 11 125	04/27/2011	8:02 PM	QUEST
240	E	6011000125	SO 11 125	04/27/2011	9:00 PM	QUEST
241	E	6011000009	SO 11 9	04/27/2011	9:09 PM	QUEST
243	E	6011000008	SO 11 8	04/28/2011	8:42 PM	QUEST
245	E	6011000009	SO 11 9	04/29/2011	1:47 PM	QUEST
247	E	6011000078	SO 11 78	05/04/2011	10:36 AM	QUEST
251	E	6011000009	SO 11 9	05/04/2011	2:34 PM	QUEST
252	E	6011000078	SO 11 78	05/04/2011	2:53 PM	QUEST
253	E	6011000129	SO 11 129	05/04/2011	3:15 PM	QUEST
255	E	6011000009	SO 11 9	05/05/2011	4:21 PM	QUEST
260	E	6011000128	SO 11 128	05/09/2011	4:10 PM	QUEST
267	E	6011000134	SO 11 134	05/10/2011	3:22 PM	QUEST

Number of non purgeable incoming messages = 38

Figure 3-3: Example report

3.5 Example Report If No Reference Lab Incoming Messages

Figure 3-4 is an example report of what displays when there are no incoming messages in the file that are tied to the Reference Lab.

DEMO HOSPITAL		
Date:11/18/11	LA7 MESSAGE QUEUE (#62.49) File	Time:6:16 AM
	QUEST Incoming Messages	BLR6249R

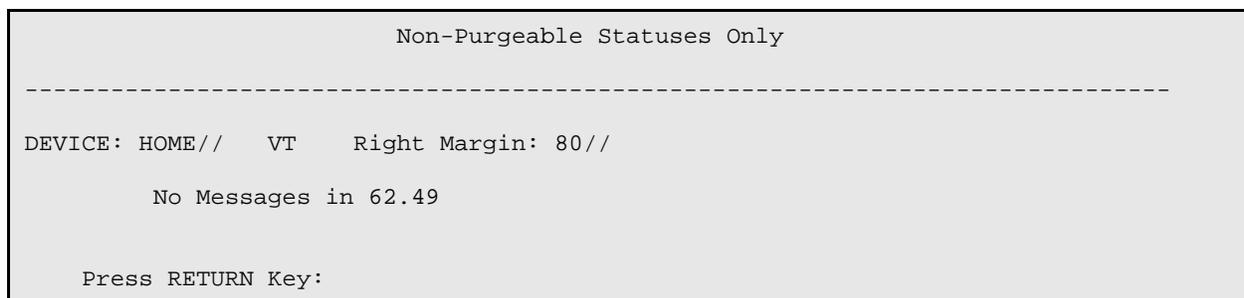


Figure 3-4: No Reference Lab Incoming Messages

4.0 Duplicate Dataname for New Tests No Longer Allowed

Due to issues involving various sub modules of the RPMS Laboratory system, it will no longer be possible to enter a Dataname for a new test that is already in use by another test in the Laboratory Test (# 60) file.

This change was accomplished by modifying the data structure of File 60.

4.1 Example of Entering Duplicate Dataname Before Change

```
Select LABORATORY TEST NAME: ZZZMKTST1
Are you adding 'ZZZMKTST1' as a new LABORATORY TEST (the 1072ND)? No// Y
(Yes)
LABORATORY TEST LABTEST IEN: 9999008//
LABORATORY TEST SUBSCRIPT: CH CHEM, HEM, TOX, SER, RIA, ETC.
LABORATORY TEST HIGHEST URGENCY ALLOWED: STAT
LABORATORY TEST PRINT NAME: ZZZT1
LABORATORY TEST DATA NAME: 2 GLUCOSE
WILL PRINT AS GLUCOSE
TEST COST: ^

Select LABORATORY TEST NAME:
```

Figure 4-1: Example of current message when entering duplicate Dataname

4.2 Example of Entering Duplicate Dataname After Change

```
Select LABORATORY TEST NAME: ZZZMKTST2
Are you adding 'ZZZMKTST2' as a new LABORATORY TEST (the 1642ND)? No// Y
(Yes)
LABORATORY TEST LABTEST IEN: 9999290//
LABORATORY TEST SUBSCRIPT: CH CHEM, HEM, TOX, SER, RIA, ETC.
LABORATORY TEST HIGHEST URGENCY ALLOWED: STAT
LABORATORY TEST PRINT NAME: ZZZT2
LABORATORY TEST DATA NAME: 2 GLUCOSE??
THIS IS TO GET ONLY TEST NAMES
LABORATORY TEST DATA NAME: ^
<'ZZZMKTST2' DELETED> ??

Select LABORATORY TEST NAME:
```

Figure 4-2: Example of new message when entering duplicate Dataname

5.0 File 61.2 SNOMED Codes Can Be Up To 15 Characters in Length

The ETIOLOGY FIELD (# 61.2) file has been modified to allow up to 15 characters to be entered into the SNOMED field.

5.1 Data dictionary SNOMED CODE field Before Change

61.2,2	SNOMED CODE	0;2 FREE TEXT (Required)
	ENTER CHARACTERS FOLLOWING 'E-' IN SNOMED REFERENCE BOOK	
	INPUT TRANSFORM:	K:\$L(X)>7!(\$L(X)<2)!'(X?.AN) X I \$D(X) S Y=\$O(^LAB(61.2,"D",X,0)) I Y>0 K:'\$D(^LAB(61.2,Y,0)) ^LAB(61.2,"D",X,Y) I \$D(^LAB(61.2,Y,0)) K X W * 7,!," ALREADY AN ENTRY",! Q
	LAST EDITED:	SEP 11, 1984
	HELP-PROMPT:	ANSWER MUST BE 2-7 CHARACTERS IN LENGTH
	DESCRIPTION:	The characters following "E-" in the SNOMED reference book.
	NOTES:	XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER
	CROSS-REFERENCE:	61.2^D 2)= K ^LAB(61.2,"D",\$E(X,1,30),DA)

Figure 5-1: Example of Data Dictionary definition before change.

5.2 Data dictionary SNOMED CODE field After Change

61.2,2	SNOMED CODE	0;2 FREE TEXT (Required)
	ENTER CHARACTERS FOLLOWING 'E-' IN SNOMED REFERENCE BOOK	
	INPUT TRANSFORM:	K:\$L(X)>15!(\$L(X)<2)!'(X?.AN) X I \$D(X) S Y=\$O(^LAB(61.2,"D",X,0)) I Y>0 K:'\$D(^LAB(61.2,Y,0)) ^LAB(61.2,"D",X,Y) I \$D(^LAB(61.2,Y,0)) K X W *7,!," ALREADY AN ENTRY",! Q
	LAST EDITED:	SEP 21, 2011
	HELP-PROMPT:	ANSWER MUST BE 2-15 CHARACTERS IN LENGTH
	DESCRIPTION:	The characters following "E-" in the SNOMED reference book.
	NOTES:	XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER
	CROSS-REFERENCE:	61.2^D 1)= S ^LAB(61.2,"D",\$E(X,1,30),DA)="" 2)= K ^LAB(61.2,"D",\$E(X,1,30),DA)

Figure 5-2: Example of new message when entering duplicate Dataname.

6.0 Print Collection List with HRCN not SSN

The LRLABELF routine has been modified to print the Health Record Number (HRN) and not the Social Security Number (SSN) when printing a collection list.

6.1 Example of Collection List Before Change

```

                Aug 26, 2011  Future Collection List
Print Date@Time : Aug 25, 2011@12:14:57                Page: 1

-----NORTH/ER/UCC-----
                WARD LOC/REQ LOC

PATIENT,TEST Q                111-11-1111  Order #: 41
  06:45 Aug 26, 2011 [ LAB COLLECT ]
                Small MARBLE 1 mL

  ( ) GLUCOSE

```

Figure 6-1: Example of Future Collection List with SSN

6.2 Example of Collection List After Change

```

                Aug 26, 2011  Future Collection List
Print Date@Time : Aug 25, 2011@12:14:57                Page: 1

-----NORTH/ER/UCC-----
                WARD LOC/REQ LOC

PATIENT,TEST Q                111111      Order #: 41
  06:45 Aug 26, 2011 [ LAB COLLECT ]
                Small MARBLE 1 mL

  ( ) GLUCOSE

```

Figure 6-2: Example of Future Collection List with HRN

7.0 Allow Alphanumeric CPT Code Selection

The IHS LAB CPT CODE (#9009021) dictionary has been modified to allow the selection of ACTIVE CPT codes from the CPT CODE (# 81) dictionary that begin with alphabetic characters.

7.1 Example Of CPT Code Selection Before Change

```
Select IHS LAB CPT CODE NAME: J0100
  Are you adding 'J0100' as a new IHS LAB CPT CODE (the 651ST)? No// Y (Yes)
LAB SECTION: CHEMISTRY
CREATE DATE: NOW (OCT 31, 2011@14:29:46)
DATE/TIME ACTIVE: NOW (OCT 31, 2011@14:29:47)
DATE/TIME INACTIVE:
PANEL/TEST:
INACTIVE FLAG:
Select CPT CODE: J0100( )
MTLU found no usable words.

The following word was not used in this search:
  J0

Attempting FILEMAN lookup... ??
Select CPT CODE:
```

Figure 7-1: Example of not being able to select an Alphanumeric CPT

7.2 Example Of CPT Code Selection After Change

```
Select IHS LAB CPT CODE NAME: J0100
  Are you adding 'J0100' as a new IHS LAB CPT CODE (the 636TH)? No// Y (Yes)
LAB SECTION: CHEMISTRY
CREATE DATE: NOW (OCT 31, 2011@14:45:33)
DATE/TIME ACTIVE: NOW (OCT 31, 2011@14:45:34)
DATE/TIME INACTIVE:
PANEL/TEST:
INACTIVE FLAG:
Select CPT CODE: J0100( )
MTLU found no usable words.

The following word was not used in this search:
  J0

Attempting FILEMAN lookup...   DRUGS ADMINISTERED OTHER THA
  DRUGS ADMINISTERED OTHER THAN ORAL METHOD J0000 - J8999
  THE FOLLOWING LIST OF DRUGS CAN BE INJECTED EITHER
  ...OK? Yes// (Yes)

  Are you adding 'J0100' as a new CPT CODE (the 1ST for this IHS LAB CPT CODE)?
No// Y (Yes)
LAB LIST COST:
REVIEW CODE:
ACTION CODE:
Select MODIFIER:
Select QUALIFIER:
Select CPT CODE:
```

```
DESCRIPTION:  
  No existing text  
  Edit? NO//
```

Figure 7-2: Example of Alphanumeric CPT selection

8.0 Lab Ask-At-Order Dictionary Entry Allows Lowercase and/or Abbreviation

The BLRAAORU Lab "Ask At Order" routine's dictionary entry FileMan call has been modified to allow the user to input lowercase and/or an abbreviation when responding to a question that is pointing to a dictionary.

8.1 Example of User Input Before Change

The initial user input in this example is lowercase w, which is rejected. The user input is then changed to WHITE.

```

NOTICE:
  The test
    WHOLE BLOOD GLUCOSE [9019]
  has been designated a Lab Ask-At-Order test and, as such,
  has questions that should be answered at ordering.

  Please note that if you press the RETURN key, a null
  answer is stored.

RACE w
  Answer with RACE NAME
  Do you want the entire 16-Entry RACE List? n (No)

RACE WHITE

      Correct which Lab Ask-At-Order Answer?

# Question                                     Answer
-----
1) RACE?                                       WHITE
2) None. All Answers are correct.

Enter a number (1-2): 2//

```

Figure 8-1: Example of Future Collection List with SSN

8.2 Example of User Input After Change

The user input in this example is lowercase w, which is accepted and options are displayed for the user.

```

NOTICE:
  The test
    WHOLE BLOOD GLUCOSE [9019]
  has been designated a Lab Ask-At-Order test and, as such,

```

```
has questions that should be answered at ordering.

Please note that if you press the RETURN key, a null
answer is stored.

RACE w
  1  WHITE          W
  2  WHITE, NOT OF HISPANIC ORIGIN      6  ** INACTIVE **
CHOOSE 1-2: 1  WHITE          W

          Correct which Lab Ask-At-Order Answer?

#  Question                                          Answer
-----
1) RACE?                                          WHITE
2) None. All Answers are correct.

Enter a number (1-2): 2//
```

Figure 8-2: Example of Future Collection List with SSN

9.0 'Sign or Symptom' Entry Mandatory

Due to the regulatory necessity of requiring Purpose of Visit for Lab tests, it will no longer be possible to enter the FileMan quit (the '^' or caret) at the prompt.

```
(DO NOT USE 'RULE OUT', 'PROBABLE', 'QUESTIONABLE', etc.):
```

Figure 9-1: Example of 'Sign or Symptom' prompt

9.1 Example of Entering '^' Before Change

```
Enter Sign or Symptom for LAB Order number 19
(DO NOT USE 'RULE OUT', 'PROBABLE', 'QUESTIONABLE', etc.): ^
      CHEM 7

ORDER CANCELED!!
```

Figure 9-2: Example of 'Sign or Symptom' prompt allowing '^' as input

9.2 Example of Entering '^' After Change

```
Enter Sign or Symptom for HEMOGLOBIN A1C
(DO NOT USE 'RULE OUT', 'PROBABLE', 'QUESTIONABLE', etc.): // ^
This is a required response.

Enter Sign or Symptom for HEMOGLOBIN A1C
(DO NOT USE 'RULE OUT', 'PROBABLE', 'QUESTIONABLE', etc.): //
```

Figure 9-3: Example of 'Sign or Symptom' prompt no longer allowing '^' as input

10.0 Lab Error Trap Report

A new routine (BLRERRTR) and a new option (BLRERRTR) have been created to allow Laboratorians with the LRSUPER Security Key to display errors in the error trap without needing Programmer security.

10.1 BLRERRTR Option

The BLRERRTR option will have to be added to a menu before the option can be accessed. It is advised that it be added to the BLRMENU. It is secured with the LRSUPER Security Key so only users with that Security Key can access the option.

10.2 BLRERRTR Main Menu

The Main Menu when the BLRERRTR option is selected will look like the following:

```

                                DEMO HOSPITAL
                                RPMS Lab Module
                                Error Trap Routines
                                BLRERRTR
Date:08/16/11
-----
1  Compilation...
2  Reports...

Select:  (1-2):

```

Figure 10-1: Main Menu of Error Trap Report

10.3 Compilation Option

If the Compilation option is selected, the following menu will display as shown in Figure 10-2.

```

                                DEMO HOSPITAL
                                RPMS Lab Module
                                Error Trap Routines
                                Compilation of Data
                                BLRERRTR
Date:08/16/11
-----
1  Compile ALL Errors For Reports
2  Compile Date Range Errors For Reports

Select:  (1-2):

```

Figure 10-2: Compilation Main Menu

10.3.1 Compile ALL Errors for Reports Option

```

                                DEMO HOSPITAL
                                Error Trap Report
                                BLRERRTR
Date:08/16/11
-----
                                Time:7:42 AM

```

```

                                Compilation                                BLRERRTR
-----
.....
.....
.....
Press RETURN Key:
    
```

Figure 10-3: Compilation of ALL Errors data

10.3.2 Compile Date Range Errors for Reports Option

```

                                DEMO HOSPITAL
Date:08/16/11                    Error Trap Report                    Time:7:50 AM
                                Compilation                        BLRERRTR
-----
Start with Date: TODAY// 1/1/2011 (JAN 01, 2011)
Go back to   Date TODAY// Aug 16, 2011
    
```

Figure 10-4: Date Range Selection

```

                                DEMO HOSPITAL
Date:08/16/11                    Error Trap Report                    Time:8:02 AM
                                Compilation                        BLRERRTR
                                Date Range:01/01/11 thru 08/16/11
-----
.....
Press RETURN Key:
    
```

Figure 10-5: Compilation of Date Range Errors data

10.4 Reports Option

If the Reports option is selected from the Main Menu, the following menu will display.

```

                                DEMO HOSPITAL
Date:08/16/11                    RPMS Lab Module                    Time:7:53 AM
                                Error Trap Routines                BLRERRTR
                                Reports
-----
1   Date/Time Errors Report
2   Non Date Specific Errors Report
3   Lab Only Date/Time Errors Report
4   Lab Only Non Date Specific Errors Report

Select: (1-4):
    
```

Figure 10-6: Reports Main Menu

10.4.1 Pagination Prompt

```

                                DEMO HOSPITAL
                                DESKTOP 1031
Date:08/16/11                    Error Trap Report                    Time:7:54 AM
                                Date Range: 02/07/2011 thru 08/08/2011    BLRERRTR
-----
One Header Line ONLY? NO//

```

Figure 10-7: Reports Main Menu

10.4.2 Date/Time Errors Report Example

```

                                DEMO HOSPITAL
                                Error Trap Report                    Page 1
Date:08/16/11                    Date Range: 01/01/2011 thru 08/16/2011    BLRERRTR
Time:7:57 AM

```

Package	Routine	Error	Line Tag	Error Date	# Errs
CLINICAL REMINDERS	PXRMVPTR	<SUBSCRIPT>	BLDRLIST+9	08/08/11	1
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	08/08/11	2
IHS LABORATORY	BLRPRE31	<PARAMETER>	BACKUPS	08/05/11	1
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	08/05/11	2
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	08/04/11	2
IHS LABORATORY	BLRPRE31	<PARAMETER>	BACKUPS	07/27/11	1
IHS CLINICAL REPORTING	BGP8POS1	<SUBSCRIPT>	DRUG1+21	07/22/11	2
IHS CLINICAL REPORTING	BGP8POS1	<SUBSCRIPT>	DRUG1+22	07/22/11	1
IHS CLINICAL REPORTING	BGP8POS1	<SUBSCRIPT>	DRUG1+23	07/22/11	1
BHL IHS Interfaces with GIS	INMPRT	<SUBSCRIPT>	CHKM+2	07/08/11	2
KERNEL	XUMFI	<EDITED>	<NO LINETAG>	03/21/11	1
KERNEL	XQALERT	<NOLINE>	DISPLAY+3	03/21/11	1
KERNEL	ZTER	<PROTECT>	<NO LINETAG>	03/21/11	1
KERNEL	XQ83A	<UNDEFINED>	XPAND+1	03/21/11	1
TOOLKIT	ZTP1	<PROTECT>	<NO LINETAG>	03/21/11	4
MailMan	XMTDR	<NOLINE>	TASK+16	02/07/11	1

```

                                Total Number of Errors = 24
Enter RETURN to continue or '^' to exit:

```

Figure 10-8: Date/Time Errors Report

10.4.3 Non Date/Time Errors Report Example

```

                                DEMO HOSPITAL
                                Error Trap Report                    Page 1
Date:08/16/11                    Date Range: 01/01/2011 thru 08/16/2011    BLRERRTR
Time:8:56 AM

```

Package	Routine	Error	Line Tag	# Errs
BHL IHS Interfaces with GIS	INMPRT	<SUBSCRIPT>	CHKM+2	2
CLINICAL REMINDERS	PXRMVPTR	<SUBSCRIPT>	BLDRLIST+9	1
IHS CLINICAL REPORTING	BGP8POS1	<SUBSCRIPT>	DRUG1+21	2
IHS CLINICAL REPORTING	BGP8POS1	<SUBSCRIPT>	DRUG1+22	1
IHS CLINICAL REPORTING	BGP8POS1	<SUBSCRIPT>	DRUG1+23	1

IHS LABORATORY	BLRPRE31	<PARAMETER>	BACKUPS	2
KERNEL	XUMFI	<EDITED>	<NO LINETAG>	1
KERNEL	XQALERT	<NOLINE>	DISPLAY+3	1
KERNEL	ZTER	<PROTECT>	<NO LINETAG>	1
KERNEL	XQ83A	<UNDEFINED>	XPAND+1	1
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	6
MailMan	XMTDR	<NOLINE>	TASK+16	1
TOOLKIT	ZTP1	<PROTECT>	<NO LINETAG>	4
Total Number of Errors = 24				
Press RETURN Key:				

Figure 10-9: Non Date/Time Errors Report

10.4.4 Lab Only Date/Time Errors Report Example

DEMO HOSPITAL					
Error Trap Report					
Date:08/16/11					Page 1
Time:8:57 AM	Date Range: 01/01/2011 thru 08/16/2011				BLRERTR
LAB ONLY Errors					
Package	Routine	Error	Line Tag	Error Date	# Errs
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	08/08/11	2
IHS LABORATORY	BLRPRE31	<PARAMETER>	BACKUPS	08/05/11	1
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	08/05/11	2
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	08/04/11	2
IHS LABORATORY	BLRPRE31	<PARAMETER>	BACKUPS	07/27/11	1
Total Number of Errors = 8					
Press RETURN Key:					

Figure 10-10: Lab Only Date/Time Errors Report

10.4.5 Lab Only Non Date/Time Errors Report Example

DEMO HOSPITAL					
Error Trap Report					
Date:08/16/11					Page 1
Time:8:58 AM	Date Range: 01/01/2011 thru 08/16/2011				BLRERTR
LAB ONLY					
Package	Routine	Error	Line Tag	# Errs	
IHS LABORATORY	BLRPRE31	<PARAMETER>	BACKUPS	2	
LAB SERVICE	LRRP1	<UNDEFINED>	FOOT+2	6	
Total Number of Errors = 8					

Press RETURN Key:

Figure 10-11: Lab Only Non Date/Time Errors Report

11.0 Duplicate Abbreviations in Hospital Location File (#44) Report

For the proper function of the Laboratory module, it is important that no duplicate abbreviations exist in the Hospital Location (# 44) file.

A new routine (BLRF44DR) and a new option (BLRF44DR) have been created to allow Laboratorians with the LRSUPER Security Key to produce a report of any duplicate abbreviations in the Hospital Location (# 44) file without using FileMan.

11.1 BLRF44DR Option

The BLRF44DR option will have to be added to a menu before the option can be accessed. It is advised that it be added to the BLRMENU. It is secured with the LRSUPER Security Key so only users with that Security Key can access the program.

11.2 Device and Pagination Prompt

Once the option is selected, the routine will prompt for an output device. If the output device is the screen (i.e., HOME), it will prompt with a pagination question, otherwise it will send the report to the device.

```

                                DEMO HOSPITAL
Date:08/16/11                Hospital Location (# 44) File           Time:9:22 AM
                                Duplicate Abbreviation Report       BLRF44DR
-----
DEVICE: HOME//    VIRTUAL    Right Margin: 80//
One Header Line ONLY? NO//

```

Figure 11-1: Device Selection and Pagination prompt

11.3 Duplicate Abbreviation Report

The report will list the duplicate abbreviations it finds.

Note that spaces are considered valid abbreviations, but since they are "invisible" when printed, the routine will use the following algorithm to show the spaces: first, a "<", then a number indicating how many blanks are in the abbreviation field, then the "SPs>" string. For example, if the abbreviation was two spaces, the routine will print "<2 SPs>".

The report will be similar to Figure 11-2.

DEMO HOSPITAL				
Date:08/16/11		Hospital Location (# 44) File		Page 1
Time:9:26 AM		Duplicate Abbreviation Report		BLRF44DR
===== HOSPITAL LOCATION =====			===== INSTITUTION =====	
IEN	Description	Abbrev	IEN	Description
65	ZZ-WELL BABY	<2 SPs>	497	DEMO HOSPITAL
73	ZZ-DEMO	<2 SPs>	497	DEMO HOSPITAL
163	ZZ-WELLCHILD	<2 SPs>	497	DEMO HOSPITAL
170	ZZ-MH-WILDGEN	<2 SPs>	497	DEMO HOSPITAL
177	ZZ-Duchscher,M	<2 SPs>	497	DEMO HOSPITAL
192	ZZ-WILKEY - GENERAL	<2 SPs>	497	DEMO HOSPITAL
194	ZZ-Wiist,S	<2 SPs>	497	DEMO HOSPITAL
203	ZZ-M. SAHADEVAN	<2 SPs>	497	DEMO HOSPITAL
211	ZZ-ZAZA	<2 SPs>	497	DEMO HOSPITAL
220	ZZ-MEENA - NEPHROLOGY	<2 SPs>	497	DEMO HOSPITAL
224	ZZ-VVEEL	<2 SPs>	497	DEMO HOSPITAL
262	ZZ-BORROMEO-DM	<2 SPs>	497	DEMO HOSPITAL
13	ZZ-DITMANSON - GENERAL	<3 SPs>	497	DEMO HOSPITAL
27	ZZ-MARTY	<3 SPs>	497	DEMO HOSPITAL
36	ZZ-DEMARCO - GENERAL	<3 SPs>	497	DEMO HOSPITAL
37	ZZ-ANDERSON - GENERAL	<3 SPs>	497	DEMO HOSPITAL
76	ZZ-CANADA	<3 SPs>	497	DEMO HOSPITAL
79	ZZ-TINSAY - WELL CHILD	<3 SPs>	497	DEMO HOSPITAL
82	ZZ-ANDERSON - DIABETIC	<3 SPs>	497	DEMO HOSPITAL
97	ZZ-BROWER - DIABETIC	<3 SPs>	497	DEMO HOSPITAL
111	ZZ-MOORE	<3 SPs>	497	DEMO HOSPITAL
115	ZZ-TINSAY - GENERAL	<3 SPs>	497	DEMO HOSPITAL
132	ZZ-CUNNINGHAM - GENERAL	<3 SPs>	497	DEMO HOSPITAL
150	ZZ-KASISKI - NEPHROLOGY	<3 SPs>	497	DEMO HOSPITAL
152	ZZ-OVER THE COUNTER	<3 SPs>	497	DEMO HOSPITAL
158	ZZ-BORROMEO - GENERAL	<3 SPs>	497	DEMO HOSPITAL
172	ZZ-MH-DICK	<3 SPs>	497	DEMO HOSPITAL
179	ZZ-MH-JARMUSKEWICZ	<3 SPs>	497	DEMO HOSPITAL
181	ZZ-SILKENSEN NEPHROLOGY	<3 SPs>	497	DEMO HOSPITAL
188	ZZ-ROMIE - WELL CHILD	<3 SPs>	497	DEMO HOSPITAL
201	ZZ DR. DAS-PAP	<3 SPs>	497	DEMO HOSPITAL
202	ZZ-SAHADEVAN	<3 SPs>	497	DEMO HOSPITAL
214	ZZ-ROMIE - GENERAL	<3 SPs>	497	DEMO HOSPITAL
237	ZZ-MARMORINE GENERAL PHYSICAL	<3 SPs>	497	DEMO HOSPITAL
238	ZZ-BROWER - PAP/PRENATAL	<3 SPs>	497	DEMO HOSPITAL
303	ZZ-MARMORINE - PRENATAL	<3 SPs>	497	DEMO HOSPITAL
309	ZZ-MH-MERCER	<3 SPs>	497	DEMO HOSPITAL
324	ZZ-MH-ROE	<3 SPs>	497	DEMO HOSPITAL
95	ZZ-SURGERY	<4 SPs>	497	DEMO HOSPITAL
174	ZZ-MH/SS	<4 SPs>	497	DEMO HOSPITAL
249	ZZ-KELLOGG - GENERAL	<4 SPs>	497	DEMO HOSPITAL
1	GENERAL	01	497	DEMO HOSPITAL
205	ZZ-DAS-GYN	01	497	DEMO HOSPITAL
218	ZZ LEE - GENERAL	01	497	DEMO HOSPITAL
326	MAHALE - NEPHROLOGY	AD	497	DEMO HOSPITAL
342	ADVANCE DIRECTIVE	AD	497	DEMO HOSPITAL
81	AUDIOLOGY	AUDIO	497	DEMO HOSPITAL
243	AUDIOLOGY - PONEMAH	AUDIO	498	DEMO2 HEALTH CEN

84	BROWER - GENERAL	BRO	497	DEMO HOSPITAL
119	BROWER - PAP	BRO	497	DEMO HOSPITAL
215	ZZ-GEN	BRO	497	DEMO HOSPITAL
276	COORDINATION OF CARE - REDLAKE	COC	497	DEMO HOSPITAL
277	COORDINATION OF CARE - PONEMAH	COC	498	DEMO2 HEALTH CEN
250	CHART REQUEST	CR	497	DEMO HOSPITAL
274	CHART REVIEW - REDLAKE	CR	497	DEMO HOSPITAL
131	ZZ CUNNINGHAM - DIABETIC	CUN	497	DEMO HOSPITAL
245	ZZZ CUNNINGHAM - PONEMAH	CUN	497	DEMO HOSPITAL
69	DERMATOLOGY - AM	DER	497	DEMO HOSPITAL
71	DERM-PM	DER	497	DEMO HOSPITAL
233	EMPLOYEE HEALTH	EH	497	DEMO HOSPITAL
323	ENVIRONMENTAL HEALTH	EH	497	DEMO HOSPITAL
244	FOOT CLINIC - PONEMAH	FOOT	498	DEMO2 HEALTH CEN
285	FOOT SCREEN - PONEMAH	FOOT	498	DEMO2 HEALTH CEN
29	ZZ-HARRISON	GEN	497	DEMO HOSPITAL
43	ZZ-AMBROSE	GEN	497	DEMO HOSPITAL
25	ZZ10-19-95	GJ	497	DEMO HOSPITAL
60	JOHNSON - ORTHO	GJ	497	DEMO HOSPITAL
6	ZZDR ANDERSON	GSA		
32	ZZ7-1-94	GSA		
213	BREYEN - DIETITIAN	JB	497	DEMO HOSPITAL
242	BREYEN - PONEMAH	JB	498	DEMO2 HEALTH CEN
317	BRENNAN - PRE-OP PHYSICAL	KB	497	DEMO HOSPITAL
339	BRENNAN - GC	KB	497	DEMO HOSPITAL
325	MARMORINE-DM	KM	497	DEMO HOSPITAL
332	MARMORINE - GC	KM	497	DEMO HOSPITAL
241	ZZ KOCH - PONEMAH	KO	498	DEMO2 HEALTH CEN
294	ZZ KOCH - PAP	KO	497	DEMO HOSPITAL
346	MASAYESVA - DM	MDM	497	DEMO HOSPITAL
357	MASAYESVA-DM	MDM	497	DEMO HOSPITAL
345	MASAYESVA - GC	MGC	497	DEMO HOSPITAL
356	MASAYESVA-GC	MGC	497	DEMO HOSPITAL
87	NURSES APPTS - GENERAL	NUR	497	DEMO HOSPITAL
281	NURSES APPTS - PONEMAH	NUR	498	DEMO2 HEALTH CEN
288	ZZPRE DIABETES	PD	497	DEMO HOSPITAL
289	PRE-DIABETES	PD	497	DEMO HOSPITAL
306	DITMANSON-GC	PD	497	DEMO HOSPITAL
225	PHARMACY	PH	497	DEMO HOSPITAL
272	PHONE - REDLAKE	PH	497	DEMO HOSPITAL
93	ZZ-MAAS	PM	497	DEMO HOSPITAL
120	MORIARTY - ORTHO	PM	497	DEMO HOSPITAL

57	ZZ-NOWOSIELSKI	PN	497	DEMO HOSPITAL
63	BROWER-PRENATAL	PN	497	DEMO HOSPITAL
216	SCHOOL DENTAL PROJECT	SDP	497	DEMO HOSPITAL
229	SCH DENTAL - RL	SDP	497	DEMO HOSPITAL
349	ZX SCHEDULING (MASAYESVA-GC)	SMGC	497	DEMO HOSPITAL
370	ZX SCHEDULING (MARMORINE-GC)	SMGC	497	DEMO HOSPITAL
266	TEST CLINIC	TC	497	DEMO HOSPITAL
313	Charles,T	TC	497	DEMO HOSPITAL
246	ULTRASOUND-PM-WED	USW	497	DEMO HOSPITAL
334	ULTRASOUND-AM-WED	USW	497	DEMO HOSPITAL
160	Canada,W	WC	497	DEMO HOSPITAL
260	TINSAY-WC	WC	497	DEMO HOSPITAL
297	WILKEY - PONEMAH	WI	498	DEMO2 HEALTH CEN
298	WILKEY - PAP	WI	497	DEMO HOSPITAL
299	ZZ-WILKEY - PRENATAL	WPN	497	DEMO HOSPITAL
354	WILKEY - PRENATAL	WPN	497	DEMO HOSPITAL
142	ZZZ BAD	ZZ	497	DEMO HOSPITAL
296	zz - wilkey	ZZ	498	DEMO2 HEALTH CEN
344	ZZ MASAYESVA CLINICS	ZZ	497	DEMO HOSPITAL

Number of Distinct Duplicate Abbreviations = 33

Figure 11-2: Example Report

12.0 Display V LAB Entry

A new routine (BLRVLABD) and a new option (BLRVLABD) have been created to allow Laboratorians with the LRSUPER Security Key to display the values in the PCC V Lab file for a particular test without having to use FileMan. This will allow Lab Users to quickly determine if the Lab package is successfully sending information over to PCC.

12.1 BLRVLABD Option

The BLRVLABD option will have to be added to a menu before the option can be accessed. It is advised that it be added to the BLRMENU. It is secured with the LRSUPER Security Key so only users with that Security Key can access the option.

12.2 V LAB Internal Entry Number (IEN)

The option will request the Internal Entry Number (IEN) of the particular V LAB entry to be displayed. This can be retrieved from the IHS LAB TRANSACTION LOG file.

For example, if the INQ option on the BLRMENU is used to see a particular transaction in the IHS LAB TRANSACTION LOG file, the display will be similar to Figure 12-1.

```

SEQUENCE NUMBER: 1521                LRFILE: 2
PATIENT POINTER VALUE: 9999          PANEL/TEST POINTER: IRON
LAB MODULE: GENERAL                  DUZ(2): 516
I/O CATEGORY: OUT PATIENT            STATUS FLAG: ACCESSIONED
ENTRY DATE/TIME: AUG 08, 2011@13:55:26
ASSOCIATED V FILE: V LAB             IEN OF V FILE ENTRY: 1636
CLINIC STOP CODE POINTER: EMERGENCY MEDICINE
CPT LAB CODE POINTER: IRON           BILLING CPT STRING: 83540|||||
SIGN OR SYMPTOM: TESTING             ORDER DATE: AUG 08, 2011@13:54:59
ORDER SEQUENCE NUMBER: 5             ORDER NUMBER: 39
ORDERING PROVIDER POINTER: PROVIDER,TEST Q
ORDERING LOCATION POINTER: ER/UCC
COLLECTION DATE/TIME: AUG 08, 2011@13:55:22
ACCESSION NUMBER: CH 0808 4          COLLECTION SAMPLE POINTER: BLOOD
LOINC CODE: 2498                     UNITS: mcg/dL
SITE/SPECIMEN POINTER: BLOOD         REFERENCE LOW: 42
REFERENCE HIGH: 135

```

Figure 12-1: Inquire into the IHS LAB Transaction Log example

The V LAB's IEN is the number displayed next to the IEN OF V FILE ENTRY field. In this example, it is 1636.

12.3 BLRVLABD Option

Once the BLRVLABD option is selected it will display the input screen.

```

                                DEMO HOSPITAL
Date:08/16/11                V LAB Data Display                Time:9:19 AM
                                IEN Entry
-----
V LAB IEN:

```

Figure 12-2: V Lab IEN Entry screen

12.4 V LAB Entry Display

After the V Lab IEN is entered, the routine will display data from the V Lab file. It will be similar to Figure 12-3.

```

                                DEMO HOSPITAL
Date:08/16/11                V LAB Data Display                Time:11:56 AM
-----
NUMBER: 1636                    LAB TEST: IRON
PATIENT NAME: PATIENT,TEST Q    VISIT: AUG 08, 2011@13:55
LR ACCESSION NO.: CH 0808 4     UNITS: mcg/dL
ORDER: 39                       SITE: BLOOD
REFERENCE LOW: 42               REFERENCE HIGH: 135
SOURCE OF DATA INPUT: LAB      CURRENT STATUS FLAG: ACCESSIONED
LOINC CODE: 2498               COLLECTION SAMPLE: BLOOD
COLLECTION DATE AND TIME: AUG 08, 2011@13:55:22
ORDERING PROVIDER: PROVIDER,TEST Q CLINIC: LABORATORY SERVICES
ORDERING DATE: AUG 08, 2011@13:54:59 CPT PTR: IRON
LAB POV: TESTING

Press RETURN Key:

```

Figure 12-3: V Lab Data Display

If no data exists for the entered IEN, the routine will display a message. For example, if the IEN 1992 does not exist in the V LAB file, the routine will display the following:

```

                                DEMO HOSPITAL
Date:08/16/11                V LAB Data Display                Time:12:02 PM
-----
NUMBER: 1992

No Data exists for V LAB IEN: 1992

Press RETURN Key:

```

Figure 12-4: V Lab Data Display

13.0 Lab Label Printer Reset

A new routine (BLRLLPRR) and a new option (BLRLLPRR) have been created to allow Laboratorians with the LRSUPER Security Key to overwrite the LRLABEL4 routine as well as replace the ROUTINE in the initialization option without having to use FileMan, nor to have programmer mode access.

13.1 BLRLLPRR Option

The BLRLLPRR option has been secured with the LRSUPER Security Key. It is advised that the option be placed on the Lab Supervisor Menu (LRSUPERVISOR).

13.2 BLRLLPRR Main Menu

The Main Menu when the BLRLLPRR option is selected will look like Figure 13-1.

```

                                DEMO HOSPITAL
Date:08/22/11                    RPMS Lab Module                    Time:3:03 PM
                                Reset Lab Label Printing            BLRLLPRR
-----
1   Overwrite LRLABEL4 With Specified Routine
2   Replace ROUTINE in Specified Option
3   List Print Routines

Select: (1-3):

```

Figure 13-1: Main Menu of Lab Label Printer Reset option

13.3 Overwrite LRLABEL4 With Specified Routine Menu

If the Overwrite LRLABEL4 With Specified Routine option is selected, the routine will search the system for all known IHS Lab Label print routines. It will then display the routines as a selection list.

```

                                DEMO HOSPITAL
Date:08/22/11                    IHS Lab Label Printer Utilities    Time:3:11 PM
                                Print Routine Replacement            BLRLLPRR
-----
Select one of the Print Routines below:

Routine   Description
-----
1   BLRLABEL  Facit T-410 2X1
2   BLRLABL7  Bar Code label printer Facit T-410 2X1
3   BLRLABLA  INTERMEC 4100 2 LABEL PRINT BARCODE/PLAIN 10:16
4   BLRLABLB  10 PART LABELS FOR THE INTERMEC 4100 PRINTER
5   BLRLABLC  INTERMEC 7421 LABEL PRINT BARCODE/PLAIN 10:16
6   BLRLABLD  INTERMEC 7421 LABEL PRINT BARCODE/PLAIN 10:16
7   BLRLABLE  INTERMEC 4100 2 LABEL PRINT BARCODE/PLAIN 10:16

```

```

8  BLRLABLF  Bar Code label printer Facit T-410 2X1
9  BLRLABLI  Reset Lab Label Printing
10 BLRLABLS  INTERMEC 4100 2 LABEL PRINT BARCODE/PLAIN 10:16
11 BLRIPLZP  INTERMEC IPL ACCESSION NUMBER Barcode 39 Lab Label Print

Enter Response (1-11): 11
    
```

Figure 13-2: Overwrite LRLABEL4 With Specified Routine Menu

Once a routine has been selected, which, in this example, 11 has been selected, the user will be prompted with:

```

                                DEMO HOSPITAL
Date:08/22/11          IHS Lab Label Printer Utilities          Time:3:15 PM
                                Print Routine Replacement          BLRLLPRR
-----
Are you CERTAIN you want to overwrite LRLABEL4? NO// YES
    
```

Figure 13-3: First confirmation of selection

Note that the default response has been set to NO. If the user enters YES:

```

                                DEMO HOSPITAL
Date:08/22/11          IHS Lab Label Printer Utilities          Time:3:15 PM
                                Print Routine Replacement          BLRLLPRR
-----
Are you REALLY certain you want to overwrite LRLABEL4? NO// YES
    
```

Figure 13-4: Second confirmation of selection

Again, the default response has been set to NO. If the user enters YES:

```

                                DEMO HOSPITAL
Date:08/22/11          IHS Lab Label Printer Utilities          Time:3:15 PM
                                Print Routine Replacement          BLRLLPRR
-----
                                >>>>>>>>> LAST CHANCE <<<<<<<<<<<
Are you ABSOLUTELY certain you want to overwrite LRLABEL4? NO// YES
    
```

Figure 13-5: Final confirmation of selection

Again, the default response has been set to NO. If the user enters YES:

```

                                DEMO HOSPITAL
Date:08/22/11          IHS Lab Label Printer Utilities          Time:3:15 PM
                                Print Routine Replacement          BLRLLPRR
-----
                                >>>>>>>>> LAST CHANCE <<<<<<<<<<<
Are you ABSOLUTELY certain you want to overwrite LRLABEL4? NO// YES
    
```

```
LRLABEL4 routine has been successfully over-written by BLRIPLZP.
```

```
Press RETURN Key:
```

Figure 13-6: Confirmation that LRLABEL4 has been overwritten.

Please note that the original LRLABEL4 routine has been saved into the routine backup database and can be retrieved and restored, if necessary, via programmer intervention.

If during the confirmation process the default NO is selected, the following is displayed.

```

                                DEMO HOSPITAL
Date:08/22/11                IHS Lab Label Printer Utilities        Time:3:26 PM
                                Print Routine Replacement            BLRLLPRR
-----
Are you CERTAIN you want to overwrite LRLABEL4? NO//
YES was NOT entered.  Overwriting of LRLABEL4 Aborted.

Press RETURN Key:

```

Figure 13-7: Confirmation not selected.

And once the RETURN key is entered, the main menu will be redisplayed.

13.4 Replace ROUTINE In Specified Option Menu

If the Replace ROUTINE in Specified Option option is selected, the routine will search the OPTION (# 19) file for options that begin with the phrase BLR STARTUP. It will then display the option(s) as a selection list.

```

                                DEMO HOSPITAL
Date:08/22/11                IHS Lab Label Printer Utilities        Time:3:49 PM
                                Option Routine Replacement            BLRLLPRR
                                Option Selection
-----
Select one of the Options below:

Option          Description
-----
1  BLR STARTUP FOR INTERMEC 7421  Will restart the 7421 label routine if
2  BLR STARTUP FOR INTERMEC PC41  Will reinitialize PC41 if turned off.

Enter Response (1-2):

```

Figure 13-8: Final confirmation of selection

Once an option has been selected, which, in this example, 1 has been selected, then the routine will search the system for all routines beginning with BLRBAR and all routines that begin with BLRIPL and end with I, which are the standard IHS Lab Label Print initialization names. It will then display the routines as a selection list.

```

                                DEMO HOSPITAL
Date:08/22/11                IHS Lab Label Printer Utilities                Time:3:50 PM
                                Option Routine Replacement                BLRLLPRR
                                Option BLR STARTUP FOR INTERMEC 7421 Selected
                                Routine Selection
-----
Select one of the Initialization Routines below:

    Routine   Description
    -----
1   BLRBARA   INTERMEC 4100 2 LABEL FORMAT 12:36
2   BLRBARB   INTERMEC 4100 10 PART LABEL FORMAT 12:36
3   BLRBARC   INTERMEC 7421,2 LABEL FORMAT 12:36
4   BLRBARD   INTERMEC 7421 3 PART LABEL FORMAT 12:36
5   BLRBARE   INTERMEC 4100 2 LABEL FORMAT 12:36
6   BLRBARS   INTERMEC 4100 2 LABEL FORMAT 12:36
7   BLRIPLZI  INTERMEC IPL ACCESSION NUMBER Barcode 39 Lab Label Intializa

Enter Response (1-7):

```

Figure 13-9: Initialization Routines selection menu

Once a routine has been selected, which, in this example, 7 has been selected, the user will be prompted with:

```

                                DEMO HOSPITAL
Date:08/23/11                IHS Lab Label Printer Utilities                Time:12:09 PM
                                Option Routine Replacement                BLRLLPRR
                                Option BLR STARTUP FOR INTERMEC 7421 Selected
                                Routine Selection
-----
Are you CERTAIN you want to overwrite the Initialization Routine? NO// YES

```

Figure 13-10: First confirmation of selection

Note that the default response has been set to NO. If the user enters YES:

```

                                DEMO HOSPITAL
Date:08/23/11                IHS Lab Label Printer Utilities                Time:12:09 PM
                                Option Routine Replacement                BLRLLPRR
                                Option BLR STARTUP FOR INTERMEC 7421 Selected
                                Routine Selection
-----
Are you REALLY certain you want to

```

```

overwrite the Initialization Routine? NO// YES

```

Figure 13-11: Second confirmation of selection

Again, the default response has been set to NO. If the user enters YES:

```

                                DEMO HOSPITAL
Date:08/23/11          IHS Lab Label Printer Utilities          Time:12:09 PM
                        Option Routine Replacement              BLRLLPRR
                        Option BLR STARTUP FOR INTERMEC 7421 Selected
                        Routine Selection
-----
                        >>>>>>>>> LAST CHANCE <<<<<<<<<<<

Are you ABSOLUTELY certain you want to
overwrite the Initialization Routine? NO// YES

```

Figure 13-12: Final confirmation of selection

Once YES has been entered, a confirmation screen will display:

```

                                DEMO HOSPITAL
Date:08/23/11          IHS Lab Label Printer Utilities          Time:12:09 PM
                        Option Routine Replacement              BLRLLPRR
                        Option BLR STARTUP FOR INTERMEC 7421 Selected
                        Routine Selection
-----
For Option BLR STARTUP FOR INTERMEC 7421
ROUTINE:BLRIPLZI
Press RETURN Key:

```

Figure 13-13: Confirmation of selection

If during the confirmation process the default NO is selected, a message will display reflecting the choice. For example, the following:

```

                                DEMO HOSPITAL
Date:08/23/11          IHS Lab Label Printer Utilities          Time:12:17 PM
                        Option Routine Replacement              BLRLLPRR
                        Option BLR STARTUP FOR INTERMEC 7421 Selected
                        Routine Selection
-----
Are you CERTAIN you want to overwrite the Initialization Routine? NO//
YES was NOT entered.  Overwriting of the Initialization Routine Aborted.

Press RETURN Key:

```

Figure 13-14: Confirmation not selected.

And once the RETURN key is entered, the main menu will be redisplayed.

14.0 LOINC and IHS UCUM Dictionaries updated

The LAB LOINC (# 95.3) file and the IHS UCUM (#90475.3) file are both updated by this patch.

LAB LOINC is updated to version 2.36 from the Regenstrief Institute that was released in July, 2011.

15.0 PCC V LAB File Abnormal Flag Update

It has been determined that the Lab to PCC process was flawed with regards to the V LAB (#9000010.09) file's Abnormal Flag field.

Currently, the process does not update the V LAB Abnormal flag if there is a change to a result that updates the flag in RPMS Lab.

The defined process for the V LAB file is that if there is a change to results in RPMS Lab, the Abnormal Flag field in the V LAB file should be cleared. It cannot be updated.

A modification to the Lab to PCC routines has been made so that if and only if the results are modified in RPMS Lab, the Abnormal Flag field in the V LAB file will be cleared.

16.0 Fix for <UNDEFINED>LEDI+21^BLRRLEVT Error

The BLRRLEVT has been modified to prevent the BLRRLEVT routine from throwing an <UNDEFINED>LEDI+21^BLRRLEVT error when sites implement the LEDI billing component of the Reference Lab interface.

17.0 EHR POC Reference Range Flag

It has been determined that when a user enters a non-numeric result in EHR POC the LOW or CRITICAL LOW flags are activated, if they exist. This is because the first character of a non-numeric result is interpreted as a zero.

Figure 17-1 is an example of what occurs when >600 is entered.

The screenshot shows a software window titled "Lab Point of Care Data Entry Form". The patient information is "TEST,CASE NINETEEN" and the hospital location is "ER-LAB". The test selected is "POC GLUCOSE" with a sample type of "BLOOD". The collection date and time is "03/22/2012 09:32 AM" and the sign or symptom is "TEST". The nature of order/change is "WRITTEN". A comment field is empty, and there is an "Add Canned Comment" button. Below the form is a table titled "TEST RESULTS" with the following data:

Test Name	Result	Result Range	Units
POC GLUCOSE	>600 L * CRITICAL!!	65 to 100	mg/dL

At the bottom of the form are "Save" and "Cancel" buttons.

Figure 17-1: Lab Point of Care Data Entry Form displaying incorrect flag

The BLRPOC routine has been modified to display correctly. Figure 17-2 is an example.

The screenshot shows a software window titled "Lab Point of Care Data Entry Form". The patient information is displayed in a yellow header bar: "Patient: TEST,CASE FOUR" and "Hospital Location: ER-LAB". Below this, there are several dropdown menus: "Ordering Provider" (with a black box over the text), "Nature of Order/Change" (set to "WRITTEN"), "Test" (set to "POC GLUCOSE"), "Sample Type" (set to "BLOOD"), "Collection Date and Time" (set to "03/22/2012 08:06 AM"), and "Sign or Symptom" (set to "TEST"). A text area for "Comment/Lab Description:" is present, along with an "Add Canned Comment" button. A blue header bar for the "TEST RESULTS" section contains a table with the following data:

Test Name	Result	Result Range	Units
POC GLUCOSE	>600 H * CRITICAL!!	65 to 100	mg/dL

At the bottom of the form are "Save" and "Cancel" buttons.

Figure 17-2: Correctly displayed flag

18.0 VA Lab Patches

There are numerous VA Lab patches included in this IHS Lab Patch that address various issues. Some are required for subsequent VA Lab patches but are not relevant to IHS, but many are updates and/or fixes to current RPMS Lab functionality.

18.1 Automated Lab Instruments (LA) Patches

18.1.1 Sequence 53, LA*5.2*67 Laboratory Point Of Care Interface

This patch adds support for the VA's Laboratory Point of Care (POC) interfaces.

18.1.2 Sequence 54, LA*5.2*72: Fix <UNDEF> In LA7VIN5A PRDID+11

This patch fixes reported <UNDEFINED>PRDID+11^LA7VIN5A errors logged in the error trap when receiving lab results back from another VA host lab via Lab Electronic Data Interchange (LEDI).

18.2 Lab Service (LR) Patches

18.2.1 Sequence 251, LR*5.2*290: Laboratory Point Of Care Interface

This patch adds support for the VA's Laboratory Point of Care (POC) interfaces.

18.2.2 Sequence 257, LR*5.2*322: Bug Fixes Reported In NOIS

Fixes the following errors:

- The system generates an undefined-variable error when a user attempts to review cytopathology reports on a patient that has had all of the accessions removed from an order.
- In multidivisional sites or any site who has more than one Autopsy Area defined in their Accession file (File 68), when a user selects any option from the "Data entry for autopsies Option" shown below then decides not to continue when prompted with: Select ANATOMIC PATHOLOGY SECTION: by pressing <Enter> or using the "^" exit character, an error is generated.
- When users print the Major Section workload report to a printer, occasionally the report will also appear on the screen as well as printing to the printer. This is caused by the routine LRCAPMA,LRCAPML and LRARCML.

18.2.3 Sequence 266, LR*5.2*353: Orders Data Standardization

This patch will add a new Kernel look-up screen to the LABORATORY SITE FILE (#69.9) in support of Orders Data Standardization.

18.2.4 Sequence 267, LR*5.2*349: Incorrect Occasion Of Service Location To PCE

This patch corrects a problem where the wrong division is showing up in PCE for a multi-divisional organization.

Not used by IHS.

18.2.5 Sequence 268, LR*5.2*291: Lab Clinical Indicator Data Capture

This patch is the Laboratory part of Clinical Indicator Data Capture (CIDC) project. There are no NOIS messages or E3Rs associated with this patch.

Note: Due to the addition of several new fields, primarily associated with the internal order process, the user will see additional data entry fields.

Not used by IHS.

18.2.6 Sequence 271, LR*5.2*342: Correct Input Transform & Remove 'File 81 Conversion' Menu Option

This patch corrects a data integrity problem caused by an input transform setting data at the wrong global node and removes the FILE 81 CONVERSION menu option which is obsolete.

18.2.7 Sequence 274, LR*5.2*343: PSI-05-068 Order Discontinued On Patient Move

Remove the LABORATORY package's rules for managing laboratory order auto-discontinuance on admission, transfer, or discharge events and let the existing rules in the OERR (ORDER ENTRY RESULTS REPORTING) package handle the order auto-discontinuance process.

18.2.8 Sequence 275, LR*5.2*354: Fix 3 Problems With Turnaround Time Report (LR CAPTT)

This patch corrects 3 PROBLEMS WITH THE TURNAROUND TIME REPORT (LR CAPTT).

- This option provides turnaround time statistics for either a location or an institution. When an institution is selected, the report yields no results.
- NP (not performed) tests are showing up on this report.
- Cancelled tests are showing up on this report.

18.2.9 Sequence 276, LR*5.2*359: Fix Remedy Issues For LR*5.2*291

This patch corrects three issues discovered after release of LR*5.2*291.

- A new report made available in LR*5.2*291 (CPT Report [LRBE PANEL CPT REPORT]), the report may error with an <undefined> at LOOP+14^LRBEP RPT.
- Incorrect Quantity parameter may be sent to PCE.
- If the CPT Modifier 90 cannot be validly associated with the Procedure code (i.e., CPT Code or HCPCS Code) assigned to the Lab Test, it will cause PCE to reject the Procedure and create an 'Action Required' Encounter.

Not used by IHS.

18.2.10 Sequence 277, LR*5.2*329: Cleanup Purged Accession's UID

When the UIDs from previously purged accessions are still in the "C" cross-reference of the ACCESSION file (#68) new UIDs beginning with 00 are created.

The routine LROC will be modified to check for purged accessions and remove purged accession's UID from the "C" and "D" cross reference of the ACCESSION (#68) file. This will correct the problem of 10 year overlapping accession UID. This routine is invoked by Purge old orders & accessions option [LROC].

18.2.11 Sequence 278, LR*5.2*360: Accessioning Lab Order Issues

This patch will:

- prevent the re-accessioning of accessioned lab orders;
- prevent the input of order numbers exceeding eight characters in length; and
- alert the user to a patient's date of death.

18.2.12 Sequence 280, LR*5.2*328: Define Patient Demographics During Verifying Multiple Accessions On Same Order

A problem occurs when laboratory users enter laboratory test results using the VistA Laboratory option "Accession order then immediately enter data [LR ACC THEN DATA]". If the laboratory order being processed creates two or more accessions, the second and any subsequent accessions, may calculate age and/or sex based normals and abnormals incorrectly.

18.2.13 Sequence 281, LR*5.2*337: Correct Lab Test Issues

This patch corrects several issues in the Lab Service package.

- When test results are entered for an accession, if a test is skipped (no result is entered), standard processing enters the word "pending" as the result. This "pending" is then displayed as the result in the interim reports, which is correct. However, if the test that has been skipped is then NP'ed ("Delete Test from Accession"), the interim report still shows "pending" for this test even though there is a comment saying that the test was not performed.
- When deleting a test from an accession, user must respond to the prompt "Not Performed Reason:". If the reason entered contains double quotes (The specimen was "wet"), a <SYNTAX> error is generated in FileMan.
- When using option "Reprint cumulative from location to location" and selecting either (A)ll locations or (R)ange of locations, user is unable to exit from any page displayed on the screen at the ENTER "^" TO STOP prompt.
- In the option "Reprint Cumulative from Loc to Loc", a range of locations can be entered. A response of "?" to the prompt "Select Starting Patient Location" does not elicit help text and the "?" is taken to be the starting character for the range of locations.
- The print template for the Electronic Catalog uses a hard-coded value of 3 for the minimum volume for every test.
- A <SUBSCRIPT> Error occurs in LRTASK NIGHTLY when a X-reference entry exists in ^LRO(69,"APP") but the order to which it points does not exist.

18.2.14 Sequence 283, LR*5.2*308: Anatomic Pathology CPT Coding Corrections

The following issues will be corrected with this patch:

- If a Current Procedural Terminology (CPT) code is not found or is marked inactive in the CPT file (#81), a general message, "Nothing Selected" displays, or no message at all displays. The CPT code is not selected and passed to PATIENT CARE ENCOUNTER (PCE).
- CPTs marked inactive in the WKLD CODE file (#64) can be selected and are passed to PCE.
- Inactive CPTs found in the WKLD CODE file (#64) can be entered and passed to PCE for non-AP accessions.
- Any subsequent CPT codes entered on an accession will replace or overlay the quantity previously passed to PCE.
- If a selected CPT is not linked to a workload code in the WKLD CODE file (#64), the CPT is passed to PCE, and the message "Storing in LMIP".
- If a selected CPT code is linked to multiple workload codes, the workload code with the lowest IEN is selected.

- When more than one accession is entered for a patient on the same date, at the same location, and the specimen collection date/time does not contain a unique time, then each accession for this patient will have the same encounter/visit number assigned when CPT codes are entered and passed to PCE.
- A couple of minor cosmetic updates are also included in this patch.
- A couple of general corrections are included in this patch.

18.2.15 Sequence 284, LR*5.2*362: Resolves Various Lab Package Issues

This patch addresses 5 Remedy tickets in the LAB package.

- While using option LRQUICK, Multipurpose accessioning, will not timeout and it will not allow the user to enter a null (just hitting the enter key). Nor will it allow the user to enter a "^" to exit.
- Using option LR WKLD CODE EDIT PRINT to edit activated workload codes can trap the user into an endless loop when trying to use a "^" to exit from a word processing field.
- When using option LRVR - Enter/verify data (auto instrument), the user may decide to print a list of the incomplete accessions. Queuing the incomplete accessions list report will cause an <UNDEFINED> system error in the VA FileMan input reader ^DIR.
- During the printing of reports from Anatomic pathology options LRAPSPSGL - Print surgical pathology for a patient and LRAP PRINT SINGLE - Print single report only, an <UNDEFINED> error can occur and cause these reports to error out.
- The LRAPSM - MORPHOLOGY code search option does not display all of the morphology codes if the results of an anatomic pathology accession includes more than one morphology code.

18.2.16 Sequence 287, LR*5.2*331: Accessioning To 'In Common' Accession Area Generates Mailman Bulletin

A possible "FileMan DBS call failed during accessioning error in routine LRWLST1" MailMan bulletin can occur during accessioning. The generation of the bulletin occurs when Laboratory is making a duplicate FileMan DBS call during accessioning that involves an accession area being 'in common' with another accession area. This duplicate call will occur when the accession area has a lower internal entry number in ACCESSION file (#68) than the accession area it is 'in common' with.

Fixes an <UNDEFINED>WN1A^LRWLST1 error that may occur when accessioning. This would occur when attempting to force an accession number for an accession area that did not have any accessions for the current accession day. Routine LRWLST1 will now handle displaying a default accession number 1 when there are no existing accessions for the current accession day.

A <SUBSCRIPT>GRID+21^LR7OGMG error may occur when using the CPRS Lab Reports tab to display recent laboratory results. This would occur when there are three or more tests on an accession, at least two of the tests were performed at different laboratories and a third test had a 'pending' result and therefore no performing laboratory designated. The software was attempting to determine the performing laboratory for the pending test. Routine LR7OGMG will now ignore tests that do not have a performing laboratory when constructing the list of performing laboratories associated with an accession's test results.

18.2.17 Sequence 289, LR*5.2*368: Incorrect Fileman Call

Routine LRAPMRL contains an incorrectly formatted FileMan call.

18.2.18 Sequence 290, LR*5.2*364: Lab Package Passing Inexact Time To CPRS

When a user is accessioning a test and enters a Collection time of UNKNOWN, the time is flagged as INEXACT and is displayed with a Date stamp and a Time stamp of '00:00' in the Computerized Patient Record System (CPRS).

18.2.19 Sequence 291, LR*5.2*363: Fix Partial Anatomic Pathology Reports

This patch corrects a problem when incomplete data is sent from the LAB DATA file (#63) to the TIU DOCUMENT file (#8925) resulting in incomplete data being displayed by TIU.

18.2.20 Sequence 292, LR*5.2*373: Undefined Error When Lab Order Has Been Purged

This patch corrects several issues in the Lab Service package.

- Lab personnel verifying a yearly accession whose order had already been purged from the LAB ORDER ENTRY file (#69) receive an <UNDEF> error.
- For Surgical Pathology preliminary reports, no patient ID footer prints when report spans 2 or more pages.
- The same abbreviation can refer to more than 1 location. This is causing CPRS to display the incorrect ordering location sometimes because the wrong IEN from the HOSPITAL LOCATION file (#44) is sent to CPRS by routine LR7OB69.

18.2.21 Sequence 293, LR*5.2*377: New Constant Value For EGFR Formula

This patch will add a new Delta Check containing an updated formula used to calculate the eGFR with a constant of 175 instead of 186 in the previous formula.

18.2.22 Sequence 295, LR*5.2*375: Fix Problem With Incomplete Entries In Accession File

This patch corrects a problem related to "in common" accession areas when tests with unique accession numbers are involved.

18.2.23 Sequence 296, LR*5.2*379: Locking Problem Causing Errors

This patch corrects a <SUBSCRIPT> error which occurs in routine LA7ADL because of an inability to get a lock for setting data into the Accession file (#68) in routine LRWLST1.

18.2.24 Sequence 298, LR*5.2*384: Correct Formatting Issue In Option LRSORC

This patch will correct a formatting issue in the option LRSORC [Search for critical value flagged tests]. It also resolves an issue in CPRS Cumulative report on the LABS tab where differences are flagged because of a leading or trailing zero.

18.2.25 Sequence 299, LR*5.2*381: Fix Problem With Short Accession List Errors

This patch corrects an <UNDEF> error which can occur in the SHORT ACCESSION LIST [LRACC2] option when sites have common accession areas.

18.2.26 Sequence 301, LR*5.2*386: Correct Problem With DSS Lab Results Extract

This patch will address the following three issues:

- It will correct a problem with the DSS Lab Results Extract whereby results that are greater than 10 characters long cause the record to be omitted from the extract.
- It also addresses a merge problem whereby "ghost" tests are added to a merged patient because of a failure to clean up after the previous merge attempt.
- It will fix a problem which allows for a result that is supposed to be numeric to be entered with 2 decimal points.

Not used by IHS.

18.2.27 Sequence 302, LR*5.2*385: DSS Laboratory Result (LAR) Extract Changes

This patch modifies the Laboratory Results (LAR) Extract API routine (LRCAPDAR) in reporting laboratory results by LOINC Codes selective by DSS (Decision Support System). Currently, this API reads the DSS LAB TESTS file (#727.2) a list of desired National Laboratory Tests and filters the data for these tests. Instead, it will now use the API to read the DSS LOINC CODES file (#727.29), a list of desired LOINC Codes and filters the data based on this new list.

Not used by IHS.

18.2.28 Sequence 304, LR*5.2*352: EVC-R2 Lab Revisions

This patch simply extends the capability made available in the LAB CIDC patch, LR*5.2*291, to accommodate the SHIPBOARD HAZARD AND DEFENSE (SHAD) indicator for veterans to which it applies.

Not used by IHS.

18.2.29 Sequence 306, LR*5.2*325: VBECS Workload Capture

LR*5.2*325 is being exported as part of the VBECS_BUNDLE_1.KID package release.

Not used by IHS.

18.2.30 Sequence 309, LR*5.2*309: Delete Field In Cytopathology Sub-File (#63.09)

This patch removes one field, the DESCRIPTION field (#20), in the LAB DATA file (#63) CYTOPATHOLOGY sub-file (#63.09), and a reference to this field in routine ^LRAUAW.

18.2.31 Sequence 310, LR*5.2*394: LRCAPDAR (LAR) Corrections

This patch will address the following issues:

- It will correct an omission from LR*5.2*385 for the DSS Lab Results Extract to truncate results that are greater than 20 characters long causing the result to be omitted from the extract.
- It will correct a logic issue with LRCAPDAR that was causing the (#8) DAY value field of LAB RESULTS EXTRACT File (#727.824) to take on a record's Order Date value.

- It will correct a logic issue with LRCAPDAR in the cases of an accession containing more than one tests associated to a DSS test name.

Not used by IHS.

18.2.32 Sequence 311, LR*5.2*392: 'Random' Not Printing In CPRS, Error Printing Pathology RPT

This patch will resolve two problems in the Lab Service package:

- In CPRS GUI LABS tab, the designator "RANDOM" which is a response to the DRAW TIME prompt does not appear as do the responses "PEAK" and "TROUGH".
- When running the Autopsy Anatomic Pathology report, an <UNDEFINED> error can occur due to a variable which is not set properly.

18.2.33 Sequence 312, LR*5.2*315: AP Report Causes Unsigned CPRS Alert And New CPT APIs

This patch corrects the following problem which can occur when an Anatomic Pathology (AP) report is released:

When an AP report is electronically signed containing three sequential characters defined in the BLANK CHARACTER STRING field (#1.06), of the TIU PARAMETERS file (#8925.99), the Text Integration Utility (TIU) electronic signature fails without giving notification to the user. The AP report is successfully created and stored in TIU, but is marked in TIU as an unsigned document, which in turn, may generate an alert in Computerized Patient Record System (CPRS).

18.2.34 Sequence 314, LR*5.2*395: Add Test Status To CPRS Lab Report APIs

The Labs Tab in CPRS will call a modified Lab API which will provide the status of a specimen that has been collected and in process in the Lab, not just resulted tests.

Appendix A: LR*5.2*1031 Modified Routines

The following routines have been modified in order to prevent errors and/or add new functionality.

A.1 BLR7OGMP – Lab Interim Report for EHR

Modified to print leading zeros on results if the Laboratory test has been defined as a decimal.

A.2 BLRAAORU – IHS Lab Ask-At-Order Utilities

Modified to allow lowercase and/or partial entry dictionary lookup.

A.3 BLRCINDX – Lab Accession File "C" Index "Orphan" Pointers Kill

Modified to only send e-mail if there are "orphan" entries.

A.4 BLRDIAG – Main 'Sign Or Symptom' Lab POV Input Routine

Modified to require Lab Purpose Of Visit.

A.5 BLRIPLZI – Intermec IPL Accession Number Barcode 39 Lab Label Initialization

Modified to fix <UNDEFINED> error.

A.6 BLRLINK3 – IHS Laboratory To PCC Data Transfer

Modified to ensure Reference Ranges are valid.

A.7 BLRLINKU – IHS LAB LINK TO PCC Utilities

Modified to ensure Reference Lab interface using LEDI is not updated by external HL7 messages.

A.8 BLRPOC – EHR POC Component support

Modified to correctly handle > or < symbols on results when determining reference ranges on EHR POC tests.

- A.9 BLRPOC2 – EHR POC Component support, part 2**
Modified to restore Collection Sample value to Lab Data file.
- A.10 BLRPST – Show processor status**
Modified to align numbers.
- A.11 BLRRLEVT – BLR Reference Lab Event**
Modified to prevent <SYNTAX> and <UNDEFINED> errors.
- A.12 BLRUTIL3 – Misc IHS LAB Utilities (Cont)**
Modified to prevent AUTOVERIFY,LAB ersatz user from getting MailMan messages.
- A.13 LA7UID2 – Process Download Message for an entry in 62.48**
Modified to put a valid HRCN into the HL7 PID segment, if the HRCN variable is not defined.
- A.14 LR7OSUM4 – Silent Patient cum cont.**
Modified to display leading or trailing zeros, if necessary.
- A.15 LRAPBR4 – Autopsy Browser Display**
Modified to use HRCN and not SSN.
- A.16 LRAPBR5 – Autopsy Browser Display/TIU Storage**
Modified to use HRCN and not SSN.
- A.17 LRAPBS1 – Block/Slide Data Entry**
Modified to use HRCN and not SSN.
- A.18 LRAPDA – Anatomic Path Data Entry**
Modified to skip calls to build PCE CPT Workload file.

- A.19 LRAPDSR – AP Supplementary Report Entry**
Modified to skip calls to build PCE CPT Workload file.
- A.20 LRAPED – Anatomic Path Edit Log-In**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.21 LRAPEDC – Edit Anatomic Path Comments**
Modified to use HRCN and not SSN.
- A.22 LRAPF – CY/EM/SP Report**
Modified to use HRCN and not SSN.
- A.23 LRAPLG – AP Log-In**
Modified to use HRCN and not SSN.
- A.24 LRAPM – Anatomic Path Modify Micro/DX**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.25 LRAPMRL1 – AP Modify Released Report Cont'd**
Modified to skip calls to build PCE CPT Workload file.
- A.26 LRAPMV – Move AP Accession**
Modified to use HRCN and not SSN.
- A.27 LRAPR – Anat Release Reports**
Modified to use HRCN and not SSN.
- A.28 LRAPRES1 – AP ESIG Release Report/Alert**
Modified to generate CPRS alert if OR*3.0*210 installed.
- A.29 LRAPS1 – Anatomic Path Print**
Modified to use HRCN and not SSN.

- A.30 LRAPS3 – AP Patient Screen Display For OE/RR**
Modified to use HRCN and not SSN.
- A.31 LRAPSNMD – Display/print SNOMED codes**
Modified to use HRCN and not SSN.
- A.32 LRAPT – AP Patient Report**
Modified to use HRCN and not SSN.
- A.33 LRAPT1 – Anatomic Path Print**
Modified to use HRCN and not SSN.
- A.34 LRAPV – Anat Path Reports Not Verified**
Modified to use HRCN and not SSN.
- A.35 LRAURPT – Autopsy Report**
Modified to use HRCN and not SSN.
- A.36 LRLABELF – Print Collection List (Cont.)**
Modified to use HRCN and not SSN.
- A.37 LRMIBUG – Display Organisms**
Modified to prevent an <UNDEFINED> error when no organisms are present.
- A.38 LRMIEDZ – Microbiology Edit Routine**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.39 LRMIEDZ2 – Microbiology Edit Routine**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.40 LRMINEW1 – New Data To Be Reviewed/Verified**
Modified to create indexes if Clinical Reminders Patch 12 installed.

- A.41 LRMISTF1 – Mass Data Entry Into File 63.05**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.42 LRMIV – Microbiology Verify Auto Inst Routine**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.43 LRMIV1 – Lab Routine Data Verification**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.44 LRMIV2 – Microbiology Verify Auto Inst Routine**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.45 LRMIVER1 – Micro Chart Copy Approval Cont.**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.46 LRPX – Process lab indexes**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.47 LRPXAPI – Lab Extract API code**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.48 LRPXAPI1 – Lab Extract API code**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.49 LRPXAPI2 – Lab Extract API code**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.50 LRPXAPI3 – Lab Extract API code: Micro and AP**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.51 LRPXAPI4 – Lab Extract API code: Exact Match**
Modified to create indexes if Clinical Reminders Patch 12 installed.

- A.52 LRPXAPI5 – Lab Extract API code: Match**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.53 LRPXAPP – Test Lab APIs**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.54 LRPXCHK – Lab PXRMINDEX Index Validation**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.55 LRPXRM – Lab reminder index for micro and ap**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.56 LRPXSXRA – Build indexes for Lab Anatomic Path.**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.57 LRPXSXRB – Build indexes for Lab Microbiology.**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.58 LRPXSXRL – Build indexes for Lab.**
Modified to create indexes if Clinical Reminders Patch 12 installed.
- A.59 LRRP1 – Print The Data For Interim Reports.**
Modified GETCOMP sub-routine to identify the completed data more accurately.
- A.60 LRRPU – Interim Report Results Utility**
Modified to print leading zeros on results if the Laboratory test has been defined as a decimal and the result has only a period in front of the number.

Appendix B: Appendix B: LR*5.2*1031 New Routines

The following new routines will be added to the IHS Lab module.

B.1 BLR138PO – Modified version of LR*5.2*138 Post Install Routine

This routine will create an OOS division in the HOSPITAL LOCATION (#44) file, and, if successful, will also update the DEFAULT OOS LOCATION field in the Laboratory Site (#69.9) file. The entry should have been created when LR*5.2*138 was installed with IHS lab patch 1002.

B.2 BLR6249R – LA7 Message Queue Incoming Reference Lab Messages Report

A report that lists Reference Lab Incoming messages from the LA7 Message Queue (#62.49) file that have a status other than Purgeable.

B.3 BLRERRTR – BLR, LA, & LR Error Trap Report

An Error Trap Report not requiring Programmer keys. It lists errors in reverse chronological order: i.e., newest errors are listed first.

B.4 BLRF44DR – Hospital Locations (# 44) File Duplicate Abbreviation(s) Report

A report that lists Duplicate Abbreviations in File # 44.

B.5 BLRLINK4 – Cont.Of BLR - IHS Laboratory To PCC Data Transfer

Routines moved from BLRLINK3 due to BLRLINK3 becoming too large.

B.6 BLRLLPRR – Lab Label Printer Replace Routine

This routine will allow Lab Supervisors to replace the Lab Label print routines without having to be in programmer mode.

B.7 BLRPRE31 – IHS Lab Patch 1031 Pre/Post/Environment Routine

Routine for environmental analysis of system prior to installation of Lab Patch 1031, assure backups have been performed, and pre and post install modifications.

B.8 BLRUTIL4 – Misc IHS Lab Utilities (Cont)

Routine that has new, miscellaneous RPMS Lab functions.

B.9 BLRVLABD – Display V LAB Entry

Routine to allow the Lab Supervisor to display an entry in the V LAB file given the IEN of the V LAB entry without having to use FileMan.

Appendix C: Modified Files

The following is a list of the files that will be updated by either IHS Lab patch 1031 or one of the included VA Patches.

C.1 LABORATORY TEST (#60) File

New field AMA COMPLIANT/BILLABLE PANEL (#508) field added to be able to pass data to the VA Patient Care Encounter (PCE) module.

C.2 ETIOLOGY FIELD (#61.2)

Updated to allow 15 character SNOMED codes.

C.3 AUTO INSTRUMENT (#62.4)

New entries were added to support the VA (not, repeat NOT, the EHR) Point-of-Care (POC) interface.

C.4 LA7 MESSAGE PARAMETER (#62.48)

The INTERFACE TYPE field was updated to support the VA POC interface. New entries were added to the file to also support the VA POC.

C.5 LA7 MESSAGE LOG BULLETINS (#62.485)

New entries were added to support the VA POC interface.

C.6 LAB DATA (#63)

Modify Input Transform for the WARD field of the MICRO sub-file.

C.7 WKLD CODE (#64)

ES DISPLAY ORDER field has been updated to be able to display 1000 order numbers.

C.8 LAB DSS LAR EXTRACT (#64.036)

New field DSS LOINC CODE added for VA PCE module.

C.9 LAB ELECTRONIC CODES (#64.061)**C.10 WKLD SUFFIX CODES (#64.2)**

Updated to point to new data in LAB LOINC (#95.3) file.

C.11 ACCESSION (#68)

RESPONSIBLE OFFICIAL field modified from a free text field to a pointer to the NEW PERSON (#200) file.

C.12 LOAD/WORK LIST (#68.2)

The TYPE and TEST fields were updated to support the VA POC interface.

C.13 LAB ORDER ENTRY (#69)

The LAB,IMM OR WARD COLLECT field was updated to support the VA POC interface. New fields to support ICD-9 codes to be able to pass data to the VA PCE module. New fields added to support IHS EHR GUI ACCESSIONING.

C.14 LABORATORY SITE (#69.9)

New field PANEL PROCESS DATE (#620) field added to be able to pass data to the VA PCE module.

C.15 LAB LOINC (#95.3)

Updated with the June, 2011 Regenstrief data.

C.16 PROTOCOL (#101)

New entries were added to support the VA POC interface. New entries were added to support EHR GUI ACCESSIONING.

C.17 NEW PERSON (#200)

New entries were added to support the VA POC interface.

C.18 HL7 Application Parameter (#771)

New entries were added to support the VA POC interface.

C.19 HL7 Logical Link (#870)

New entries were added to support the VA POC interface.

C.20 IHS UCUM (#90475.3)

Updated with the June, 2011 Regenestrief data.

C.21 IHS LAB CPT CODE (#9009021)

Updated to allow the selection of alphanumeric CPT codes.

Appendix D: LR*5.2*1031 New Options

The following is a list of the new options added to the Option (# 19) file by IHS Lab patch 1031.

D.1 BLR6249R – LA7 Message Queue Incoming Reference Lab Messages Report

This option will invoke the routine that will list the incoming messages in the LA7 MESSAGE QUEUE (#62.49) file that do not have a status of Purgeable and associated with the Reference Lab for the site.

D.2 BLRERRTR –BLR, LA, & LR Error Trap Report

This option will invoke the routine that will list errors in reverse chronological order: i.e., newest errors listed first.

D.3 BLRF44DR – Hospital Locations (# 44) File Duplicate Abbreviation(s) Report

This option will invoke the routine that will produce a report that lists Duplicate Abbreviations in File # 44.

D.4 BLRLLPRR – Lab Label Printer Replace Routine

This option will invoke the routine that will allow Lab Supervisor to replace the Lab Label print routines without having to be in programmer mode.

D.5 BLRVLABD – Display V LAB Entry

This option will invoke the routine that will allow the Lab Supervisor to display an entry in the V LAB file without having to use FileMan.

Appendix E: VA Patches New Options

The following is a list of the new options added to the Option (# 19) file by various VA Lab patches included in IHS Lab Patch 1031.

E.1 LA7 POC SETUP – Lab Point of Care Setup

VA Lab Patch LA*5.2*67.

This option is used to configure and setup the Lab HL7 Point of Care interface. It provides the means for configuring the various files related to receiving and processing POC test results in the VistA Laboratory package.

E.2 LRBE PANEL CPT REPORT – Lab Tests and CPT Report

VA Lab Patch LR*5.2*291.

This option is designed to be reviewed by billing department and/or the Lab service to determine if laboratory file setup complies with billing guidelines and regulations. This option should be assigned to persons involved with lab billing compliance including all applicable lab staff (e.g. LIM, Lab Manager, AO, etc.).

E.3 LRBE PENDREP – Print AMA CPT Panel Pending List

VA Lab Patch LR*5.2*291.

When one or more of the 'required' atomic tests of an AMA/Billable panel remain in the PENDING status by the roll-up date, the laboratory sends the individual atomic level CPT codes for each verified test to PCE. On the roll-up date the laboratory software searches the previous calendar month for panel tests in the pending status.

E.4 LRED CPT – Test/Specimen/CPT Link

VA Lab Patch LR*5.2*291.

This option is used to update the LABORATORY TEST (#60) file with the appropriate CPT/HCPCS codes necessary for billing. For each test, the option provides entry of CPT codes at the specimen level. It also allows entry of a default CPT or default HCPCS code for the test. If no CPT is entered, the billing system will use the CPT code located in the WKLD CODE (#64) file.

Glossary

Accession Area

A functional area or department in the laboratory where specific tests are performed.

Accession Number

A unique alpha-numeric (combination of letters and numbers) assigned to an individual patient specimen when it is received in the laboratory.

Alert

Brief on-line notice issued to users as they complete a cycle through the menu system.

ANSI

American National Standards Institute. A private non-profit organization that oversees the development of voluntary consensus standards.

API

Application Program Interface. Program calls provided for use by application programmers in order to carry out standard computing activities without needing to duplicate utilities.

ASCII

American Standard Code for Information Interchange. A code for information exchange between computers.

CPRS

Computerized Patient Record System. The VA's Electronic Health Record (EHR).

EHR

Electronic Health Record. A system that integrates all elements of a patient's health history, including medications, lab work, x-rays, scans, EKGs, medical diagnoses, etc.

EPI

Emerging Pathogens Initiative. The VA's Infectious Disease Program Office Emerging Pathogens Initiative is used to identify new antibiotic-resistant and otherwise problematic pathogens within the Veterans Health Administration (VHA) facilities. Not used by IHS.

File

A set of related records or entries treated as a single unit.

FileMan

The database management system for the VA's VistA system and IHS' RPMS system.

Global

In MUMPS, global refers to a variable stored on disk (global variable) or the array to which the global variable may belong (global array).

HL7

Health Level Seven. An ANSI approved American National Standard for electronic data exchange in health care

IEN

Internal Entry Number. A unique number used to identify an entry within a file.

IHS

Indian Health Service. An Operating Division (OPDIV) within the U.S. Department of Health and Human Services (HHS).

Menu

A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection. When displayed, menu-type options are preceded by the word "Select" and followed by the word "option" as in Select Menu Management option: (the menu's select prompt).

MUMPS

Massachusetts General Hospital Utility Multi-Programming System. A procedural, interpreted general-purpose programming language oriented towards database applications.

NOIS

National Online Information Sharing. A computer program that provides a means of logging and tracking problems associated with the daily operation of computer systems within VistA. Not used by IHS.

Parameter

A name in a function or subroutine definition that is replaced by, or bound to, the corresponding actual argument when the function or subroutine is called.

<PARAMETER>

A Caché error caused by the number of parameters passed to a labeled routine by a user-written function reference or a DO command exceeding the number of formal parameters declared for the labeled line.

PCE

Patient Care Encounter. The VA's system that helps sites collect, manage, and display outpatient encounter data (including providers, procedure codes, and diagnostic codes) in compliance with the 10/1/96 Ambulatory Care Data Capture mandate from the Under Secretary of Health. Not used by IHS.

POC

Point Of Care. A Laboratory test that is performed at the site of care (examination, treatment, diagnosis, etc.).

RPMS

Resource and Patient Management System. A suite of software applications used at IHS facilities to support administrative, clerical, and clinical functions.

<SYNTAX>

A Caché error caused by the malformation of a language construct, such as a misspelled or missing keyword.

<UNDEFINED>

A Caché error caused by a reference to an undefined variable.

VA

Veteran's Administration. United States Department of Veterans Affairs

VBECs

VistA Blood Establishment Computer Software. The VA's current Blood Bank software system. Not used by IHS.

VistA

The Veterans Health Information Systems and Technology Architecture. An enterprise-wide information system built around an Electronic Health Record (EHR), used throughout the VA medical system.

Contact Information

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

Phone: (505) 248-4371 or (888) 830-7280 (toll free)

Fax: (505) 248-4363

Web: <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

Email: support@ihs.gov