RESOURCE AND PATIENT MANAGEMENT SYSTEM

Laboratory Reference

(LR)

Laboratorian Guide

Version 5.2 Patch 1031
May 2013

Office of Information Technology (OIT)
Division of Information Resource Management
Albuquerque, New Mexico
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<td>B.4</td>
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<td>B.5</td>
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</tr>
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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?

![Figure 3-1: Pagination prompt](image1)

3.3 Device Selection Prompt

The next prompt is standard select device prompt.

![Figure 3-2: Select Device prompt](image2)

3.4 Example Report

Figure 3-3 is an example report.

![Figure 3-3: Example Report](image3)
### 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.
Non-Purgeable Statuses Only

DEVICE: HOME// VT Right Margin: 80//

No Messages in 62.49

Press RETURN Key:

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: ZZZMKKTST1 |
| Are you adding 'ZZZMKKTST1' 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**

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

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

5.2 **Data dictionary SNOMED CODE field After Change**

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

1)= S ^LAB(61.2,"D",SE(X,1,30),DA)="" |
2)= K ^LAB(61.2,"D",SE(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

<table>
<thead>
<tr>
<th>PATIENT, TEST Q</th>
<th>Order #: 41</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-11-1111</td>
<td></td>
</tr>
<tr>
<td>06:45 Aug 26, 2011 [ LAB COLLECT ]</td>
<td></td>
</tr>
<tr>
<td>Small MARBLE 1 mL</td>
<td></td>
</tr>
<tr>
<td>() GLUCOSE</td>
<td></td>
</tr>
</tbody>
</table>

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

6.2 Example of Collection List After Change

<table>
<thead>
<tr>
<th>PATIENT, TEST Q</th>
<th>Order #: 41</th>
</tr>
</thead>
<tbody>
<tr>
<td>111111</td>
<td></td>
</tr>
<tr>
<td>06:45 Aug 26, 2011 [ LAB COLLECT ]</td>
<td></td>
</tr>
<tr>
<td>Small MARBLE 1 mL</td>
<td></td>
</tr>
<tr>
<td>() GLUCOSE</td>
<td></td>
</tr>
</tbody>
</table>

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 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.

<table>
<thead>
<tr>
<th>NOTICE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The test</td>
</tr>
<tr>
<td>WHOLE BLOOD GLUCOSE [9019]</td>
</tr>
<tr>
<td>has been designated a Lab Ask-At-Order test and, as such,</td>
</tr>
<tr>
<td>has questions that should be answered at ordering.</td>
</tr>
<tr>
<td>Please note that if you press the RETURN key, a null answer is stored.</td>
</tr>
</tbody>
</table>

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?

<table>
<thead>
<tr>
<th>#</th>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RACE?</td>
<td>WHITE</td>
</tr>
<tr>
<td>2</td>
<td>None. All Answers are correct.</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>NOTICE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The test</td>
</tr>
<tr>
<td>WHOLE BLOOD GLUCOSE [9019]</td>
</tr>
<tr>
<td>has been designated a Lab Ask-At-Order test and, as such,</td>
</tr>
</tbody>
</table>
has questions that should be answered at ordering.

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

RACE
1 WHITE W
2 WHITE, NOT OF HISPANIC ORIGIN 6 ** INACTIVE **

CHOOSE 1-2: 1 WHITE W

Correct which Lab Ask-At-Order Answer?

<table>
<thead>
<tr>
<th>#</th>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RACE?</td>
<td>WHITE</td>
</tr>
<tr>
<td>2</td>
<td>None. All Answers are correct.</td>
<td></td>
</tr>
</tbody>
</table>

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 ?
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
Date:08/16/11                   RPMS Lab Module                     Time:7:38 AM
Error Trap Routines                       BLRERRTR
--------------------------------------------------------------------------------
  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
Date:08/16/11                   RPMS Lab Module                     Time:7:41 AM
Error Trap Routines                       BLRERRTR
--------------------------------------------------------------------------------
  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
Date:08/16/11                   Error Trap Report                     Time:7:42 AM
```

10.3.2 Compile Date Range Errors for Reports Option

Figure 10-4: Date Range Selection

10.4 Reports Option

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

Figure 10-6: Reports Main Menu
10.4.1 Pagination Prompt

Figure 10-7: Reports Main Menu

10.4.2 Date/Time Errors Report Example

Figure 10-8: Date/Time Errors Report

10.4.3 Non Date/Time Errors Report Example
### 10.4.4 Lab Only Date/Time Errors Report Example

**DEMO HOSPITAL**

<table>
<thead>
<tr>
<th>Package</th>
<th>Routine</th>
<th>Error</th>
<th>Line Tag</th>
<th>Date</th>
<th>Errs</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHS LABORATORY</td>
<td>BLRPRE31</td>
<td>&lt;PARAMETER&gt;</td>
<td>BACKUPS</td>
<td>08/08/11</td>
<td>2</td>
</tr>
<tr>
<td>LAB SERVICE</td>
<td>LRRP1</td>
<td>&lt;UNDEFINED&gt;</td>
<td>FOOT+2</td>
<td>08/08/11</td>
<td>2</td>
</tr>
<tr>
<td>LAB SERVICE</td>
<td>LRRP1</td>
<td>&lt;UNDEFINED&gt;</td>
<td>FOOT+2</td>
<td>08/05/11</td>
<td>1</td>
</tr>
<tr>
<td>LAB SERVICE</td>
<td>LRRP1</td>
<td>&lt;UNDEFINED&gt;</td>
<td>FOOT+2</td>
<td>08/05/11</td>
<td>2</td>
</tr>
<tr>
<td>IHS LABORATORY</td>
<td>BLRPRE31</td>
<td>&lt;PARAMETER&gt;</td>
<td>BACKUPS</td>
<td>08/04/11</td>
<td>2</td>
</tr>
<tr>
<td>IHS LABORATORY</td>
<td>BLRPRE31</td>
<td>&lt;PARAMETER&gt;</td>
<td>BACKUPS</td>
<td>07/27/11</td>
<td>1</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Package</th>
<th>Routine</th>
<th>Error</th>
<th>Line Tag</th>
<th># Errs</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHS LABORATORY</td>
<td>BLRPRE31</td>
<td>&lt;PARAMETER&gt;</td>
<td>BACKUPS</td>
<td>2</td>
</tr>
<tr>
<td>LAB SERVICE</td>
<td>LRRP1</td>
<td>&lt;UNDEFINED&gt;</td>
<td>FOOT+2</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Number of Errors = 8

Press RETURN Key:

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

![Figure 11-1: Device Selection and Pagination prompt](image)

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.
<table>
<thead>
<tr>
<th>IEN</th>
<th>Description</th>
<th>Abbrev</th>
<th>IEN</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>ZZ-WELL BABY</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>73</td>
<td>ZZ-DEMO</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>163</td>
<td>ZZ-WELLCILD</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>170</td>
<td>ZZ-MH-WILDGEN</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>177</td>
<td>ZZ-Duchscher,M</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>192</td>
<td>ZZ-WILKEY - GENERAL</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>194</td>
<td>ZZ-Wilist,S</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>203</td>
<td>ZZ-M-SAHADEVAN</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>211</td>
<td>ZZ-ZAZA</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>220</td>
<td>ZZ-MEENA - NEPHROLOGY</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>224</td>
<td>ZZ-VVEEL</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>262</td>
<td>ZZ-BORROMEO-DM</td>
<td>&lt;2 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>13</td>
<td>ZZ-DITMANSON - GENERAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>27</td>
<td>ZZ-MARTY</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>36</td>
<td>ZZ-DEMARCO - GENERAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>37</td>
<td>ZZ-ANDERSON - GENERAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>76</td>
<td>ZZ-CANADA</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>79</td>
<td>ZZ-TINSAY - WELL CHILD</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>82</td>
<td>ZZ-ANDERSON - DIABETIC</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>97</td>
<td>ZZ-BROWER - DIABETIC</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>111</td>
<td>ZZ-MOORE</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>115</td>
<td>ZZ-TINSAY - GENERAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>132</td>
<td>ZZ-CUNNINGHAM - GENERAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>150</td>
<td>ZZ-KASISKI - NEPHROLOGY</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>152</td>
<td>ZZ-OVER THE COUNTER</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>158</td>
<td>ZZ-BORROMEO - GENERAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>172</td>
<td>ZZ-MH-DICK</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>179</td>
<td>ZZ-MH-JARMUSKIEWICZ</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>181</td>
<td>ZZ-SILKENSEN NEPHROLOGY</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>188</td>
<td>ZZ-ROMIE - WELL CHILD</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>201</td>
<td>ZZ DR. DAS-PAP</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>202</td>
<td>ZZ-SAHADEVAN</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>214</td>
<td>ZZ-ROMIE - GENERAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>237</td>
<td>ZZ-MARMORINE GENERAL PHYSICAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>238</td>
<td>ZZ-BROWER - PAP/PRENATAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>303</td>
<td>ZZ-MARMORINE - PRENATAL</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>309</td>
<td>ZZ-MH-MERCER</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>324</td>
<td>ZZ-MH-ROE</td>
<td>&lt;3 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>95</td>
<td>ZZ-SURGERY</td>
<td>&lt;4 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>174</td>
<td>ZZ-MH/SS</td>
<td>&lt;4 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>249</td>
<td>ZZ-KELLOGG - GENERAL</td>
<td>&lt;4 SPs&gt;</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>1</td>
<td>GENERAL</td>
<td>01</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>205</td>
<td>ZZ-DAS-GYN</td>
<td>01</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>218</td>
<td>ZZ LEE - GENERAL</td>
<td>01</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>326</td>
<td>MAHALE - NEPHROLOGY</td>
<td>AD</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>342</td>
<td>ADVANCE DIRECTIVE</td>
<td>AD</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>81</td>
<td>AUDIOLOGY</td>
<td>AUDIO</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>243</td>
<td>AUDIOLOGY - PONEMAH</td>
<td>AUDIO</td>
<td>498</td>
<td>DEMO2 HEALTH CEN</td>
</tr>
<tr>
<td>Line</td>
<td>Abbreviation</td>
<td>Description</td>
<td>Code</td>
<td>Hospital</td>
</tr>
<tr>
<td>------</td>
<td>-------------------</td>
<td>--------------------------------------</td>
<td>-------</td>
<td>----------------</td>
</tr>
<tr>
<td>84</td>
<td>BROER - GENERAL</td>
<td></td>
<td>BRO</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>119</td>
<td>BROER - PAP</td>
<td></td>
<td>BRO</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>215</td>
<td>ZZ-GEN</td>
<td></td>
<td>BRO</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>276</td>
<td>COORDINATION OF CARE - REDLAKE</td>
<td></td>
<td>COC</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>277</td>
<td>COORDINATION OF CARE - PONEMAH</td>
<td></td>
<td>COC</td>
<td>DEMO2 HEALTH CEN</td>
</tr>
<tr>
<td>250</td>
<td>CHART REQUEST</td>
<td></td>
<td>CR</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>274</td>
<td>CHART REVIEW - REDLAKE</td>
<td></td>
<td>CR</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>131</td>
<td>ZZ CUNNINGHAM - DIABETIC</td>
<td></td>
<td>CUN</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>245</td>
<td>ZZ CUNNINGHAM - PONEMAH</td>
<td></td>
<td>CUN</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>69</td>
<td>DERMATOLOGY - AM</td>
<td></td>
<td>DER</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>71</td>
<td>DERM-PM</td>
<td></td>
<td>DER</td>
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<tr>
<td>233</td>
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<td>EH</td>
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<td>323</td>
<td>ENVIRONMENTAL HEALTH</td>
<td></td>
<td>EH</td>
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<tr>
<td>244</td>
<td>FOOT CLINIC - PONEMAH</td>
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<td>FOOT</td>
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</tr>
<tr>
<td>285</td>
<td>FOOT SCREEN - PONEMAH</td>
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</tr>
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<td>29</td>
<td>ZZ-HARRISON</td>
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<td>43</td>
<td>ZZ-AMBROSE</td>
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<tr>
<td>25</td>
<td>ZZ10-19-95</td>
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<td>DEMO HOSPITAL</td>
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<tr>
<td>60</td>
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<td></td>
<td>GJ</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>6</td>
<td>ZZ7-1-94</td>
<td></td>
<td>GSA</td>
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</tr>
<tr>
<td>213</td>
<td>BREYEN - DIETITIAN</td>
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<td>JB</td>
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<tr>
<td>242</td>
<td>BREYEN - PONEMAH</td>
<td></td>
<td>JB</td>
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<tr>
<td>317</td>
<td>BRENNAN - PRE-OP PHYSICAL</td>
<td></td>
<td>KB</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>339</td>
<td>BRENNAN - GC</td>
<td></td>
<td>KB</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>325</td>
<td>MARMORINE-DM</td>
<td></td>
<td>KM</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>332</td>
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<td>KM</td>
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<tr>
<td>241</td>
<td>ZZ KOCH - PONEMAH</td>
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</tr>
<tr>
<td>294</td>
<td>ZZ KOCH - PAP</td>
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<td>KO</td>
<td>DEMO2 HEALTH CEN</td>
</tr>
<tr>
<td>346</td>
<td>MASAYESVA - DM</td>
<td></td>
<td>MDM</td>
<td>DEMO HOSPITAL</td>
</tr>
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<td>MDM</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>345</td>
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<td>DEMO HOSPITAL</td>
</tr>
<tr>
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<td>MGC</td>
<td>DEMO HOSPITAL</td>
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<td>NURSES APPTS - GENERAL</td>
<td></td>
<td>NUR</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>281</td>
<td>NURSES APPTS - PONEMAH</td>
<td></td>
<td>NUR</td>
<td>DEMO2 HEALTH CEN</td>
</tr>
<tr>
<td>288</td>
<td>ZZPRE DIABETES</td>
<td></td>
<td>PD</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>289</td>
<td>PRE-DIABETES</td>
<td></td>
<td>PD</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>306</td>
<td>DITMANSON-GC</td>
<td></td>
<td>PD</td>
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<td>PHARMACY</td>
<td></td>
<td>PH</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>272</td>
<td>PHONE - REDLAKE</td>
<td></td>
<td>PH</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>93</td>
<td>ZZ-MAAS</td>
<td></td>
<td>PM</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>120</td>
<td>MORSIARTY - ORTHO</td>
<td></td>
<td>PM</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>Number</td>
<td>Abbreviation</td>
<td>Type</td>
<td>Location</td>
<td>Hospital</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------</td>
<td>------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>57</td>
<td>ZZ-NOWOSIELSKI</td>
<td>PN</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>63</td>
<td>BROWER-PRENATAL</td>
<td>PN</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>216</td>
<td>SCHOOL DENTAL PROJECT</td>
<td>SDP</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>229</td>
<td>SCH DENTAL - RL</td>
<td>SDP</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>349</td>
<td>ZX SCHEDULING (MASAYESVA-GC)</td>
<td>SMGC</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>370</td>
<td>ZX SCHEDULING (MARMORINE-GC)</td>
<td>SMGC</td>
<td>497</td>
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<td>TC</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>313</td>
<td>Charles,T</td>
<td>TC</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>246</td>
<td>ULTRASOUND-PM-WED</td>
<td>USW</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>334</td>
<td>ULTRASOUND-AM-WED</td>
<td>USW</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>160</td>
<td>Canada,W</td>
<td>WC</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>260</td>
<td>TINSAY-WC</td>
<td>WC</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>297</td>
<td>WILKEY - PONEMAH</td>
<td>WI</td>
<td>497</td>
<td>DEMO2 HEALTH CEN</td>
</tr>
<tr>
<td>298</td>
<td>WILKEY - PAP</td>
<td>WI</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>299</td>
<td>ZZ-WILKEY - PRENATAL</td>
<td>WPN</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>354</td>
<td>WILKEY - PRENATAL</td>
<td>WPN</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>142</td>
<td>ZZZ BAD</td>
<td>ZZ</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
<tr>
<td>296</td>
<td>zz - wilkey</td>
<td>ZZ</td>
<td>498</td>
<td>DEMO2 HEALTH CEN</td>
</tr>
<tr>
<td>344</td>
<td>ZZ MASAYESVA CLINICS</td>
<td>ZZ</td>
<td>497</td>
<td>DEMO HOSPITAL</td>
</tr>
</tbody>
</table>

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.
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.

Press RETURN Key:

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:

Press RETURN Key:
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.

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

Are you CERTAIN you want to overwrite LRLABEL4? NO// YES

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

Are you REALLY certain you want to overwrite LRLABEL4? NO// YES

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

Are you ABSOLUTELY certain you want to overwrite LRLABEL4? NO// YES

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

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.

Select one of the Options below:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 BLR STARTUP FOR INTERMEC 7421</td>
<td>Will restart the 7421 label routine if</td>
</tr>
<tr>
<td>2 BLR STARTUP FOR INTERMEC PC41</td>
<td>Will reinitialize PC41 if turned off.</td>
</tr>
</tbody>
</table>

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.

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

![Image showing the execution of a selection routine](image)

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:

![Image showing the execution of a selection routine](image)

Figure 13-10: First confirmation of selection

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

![Image showing the execution of a selection routine](image)

Figure 13-11: Second confirmation of 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

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

<<<<<<<<<<<<<<<<< LAST CHANCE <<<<<<<<<<<<<<<<

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.

![Lab Point of Care Data Entry Form displaying incorrect flag](image)

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.
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^LRBEPRPT.
- 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 <SYNTX> 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  LRAPEDE – 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.
<table>
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<tr>
<th>A.52</th>
<th>LRPXAPI5 – Lab Extract API code: Match</th>
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<th>A.53</th>
<th>LRPXAPP – Test Lab APIs</th>
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<th>A.54</th>
<th>LRPXCHK – Lab PXRMINDX Index Validation</th>
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<th>A.55</th>
<th>LRPXRM – Lab reminder index for micro and ap</th>
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<th>A.56</th>
<th>LRPXSXRA – Build indexes for Lab Anatomic Path.</th>
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<th>A.57</th>
<th>LRPXSXRB – Build indexes for Lab Microbiology.</th>
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<th>A.58</th>
<th>LRPXSXRL – Build indexes for Lab.</th>
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<th>A.59</th>
<th>LRRP1 – Print The Data For Interim Reports.</th>
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<tr>
<td></td>
<td>Modified GETCOMPD subroutine to identify the completed data more accurately.</td>
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<thead>
<tr>
<th>A.60</th>
<th>LRRPU – Interim Report Results Utility</th>
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<tbody>
<tr>
<td></td>
<td>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.</td>
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</table>
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 BLERRTRR – 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 BLRERRRTR – 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

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).

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