RESOURCE AND PATIENT MANAGEMENT SYSTEM

Laboratory Reference

(BLR, LA, LR)

Addendum to Laboratory Technical Manual

Version 5.2 Patch 1041

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Office of Information Technology (OIT)

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1.0   Introduction

IHS Lab Patch 1041 incorporates changes to the RPMS Lab Package that either correct issues that had arisen or implemented requested modifications.

This addendum to the Laboratory Technical Manual guide provides technical details regarding some of those changes.

2.0 New Parameter Definitions

With the installation of LR*5.2*1041, three new Lab Module parameters were added to the Parameter Definition file.

2.1 BLR DOB ONLY Parameter

The BLR DOB ONLY parameter's FileMan listing in the Parameter Definition (#8989.51) file is shown in Figure 2-1.

```
NAME: BLR DOB ONLY
  DISPLAY TEXT: IHS Interim Report DoB Only
  MULTIPLE VALUED: No                    VALUE DATA TYPE: yes/no
 DESCRIPTION:
 If set to YES, only the patient's Date-of-Birth will be displayed in the
 Interim Report's header and not the DoB and patient's Current Age.
PRECEDENCE: 971                          ENTITY FILE: PACKAGE
```

Figure 2-1 BLR DOB ONLY Parameter

2.2 BLR LAB RESULTS CHANGED NOTIFY Parameter

The BLR LAB RESULTS CHANGED NOTIFY parameter's FileMan listing in the Parameter Definition (#8989.51) file is shown in Figure 2-2.

```
NAME: BLR LAB RESULTS CHANGED NOTIFY
  DISPLAY TEXT: IHS Lab Results Changed Notification
  MULTIPLE VALUED: No                    VALUE DATA TYPE: yes/no
 DESCRIPTION:
 If set to YES, whenever a "CH" subscripted Lab Result is changed, a
 MailMan message will be sent to the LAB RESULTS CHANGED Mail Group.
PRECEDENCE: 972                          ENTITY FILE: PACKAGE
```

Figure 2-2 BLR LAB RESULTS CHANGED NOTIFY Parameter

2.3 BLR QUALITATIVE ALERT Parameter

The BLR QUALITATIVE ALERT parameter's FileMan listing in the Parameter Definition (#8989.51) file is shown in Figure 2-3.

```
NAME: BLR QUALITATIVE ALERT                DISPLAY TEXT: IHS Qualitative Alert
  MULTIPLE VALUED: No                    VALUE DATA TYPE: yes/no
 DESCRIPTION:
 If YES, a test with a result that matches the File 60 Site/Specimen
 ABNORMAL FLAG entry will generate an alert and an e-mail message to
 members of the LAB QUALITATIVE ALERT Mail Group.
PRECEDENCE: 961.1                        ENTITY FILE: PACKAGE
```

Figure 2-3 BLR QUALITATIVE ALERT Parameter

3.0   New Mail Groups

With the installation of LR*5.2*1041, two new Mail Groups were added to the Mail Group dictionary.

3.1   LAB QUALITATIVE ALERT Mail Group

The LAB QUALITATIVE ALERT Mail Group's FileMan listing in the Mail Group (#3.8) file is shown in Figure 3-1.

```
NAME: LAB QUALITATIVE ALERT            TYPE: public
  ALLOW SELF ENROLLMENT?: YES          REFERENCE COUNT: 4
  LAST REFERENCED: DEC 05, 2016
MEMBER: KRING,MICHAEL K                TYPE: INFO
 DESCRIPTION:   RPMS Lab Mail Group to receive messages regarding tests that
 have a result that matches a Qualitative flag (see the ABNORMAL FLAG field
 under the Site/Specimen in file 60).
  ORGANIZER: KRING,MICHAEL K
```

Figure 3-1 LAB QUALITATIVE ALERT Mail Group

3.2   BLR LAB RESULTS CHANGED NOTIFY Parameter

The LAB RESULTS CHANGED Mail Group's FileMan listing in the Mail Group (#3.8) file is shown in Figure 3-2.

```
NAME: LAB RESULTS CHANGED              TYPE: public
  ALLOW SELF ENROLLMENT?: YES          REFERENCE COUNT: 4
  LAST REFERENCED: NOV 17, 2016        RESTRICTIONS: UNRESTRICTED
MEMBER: KRING,MICHAEL K                TYPE: INFO
 DESCRIPTION:   Mail Group to receive notifications when Lab Results have
been
 changed.
  ORGANIZER: KRING,MICHAEL K
```

Figure 3-2 LAB RESULTS CHANGED Mail Group

4.0   Qualitative Critical Alert

With the installation of LR*5.2*1041, a new field will be added to the Laboratory Test (#60) file that will be used to enable critical alerts.

4.1   File 60 New QUALITATIVE VALUES Field

The new, free-text field, QUALITATIVE VALUES, was created under the Site/Specimen field in File 60. The new field is a multiple, which means it can hold many values.

In FileMan Standard View, the new multiple in file 60 looks like file in Figure 4-1.

```
60.01,999999    QUALITATIVE VALUES    999999;0 Multiple #60.1999999


60.1999999,.01    QUALITATIVE VALUES    0;1 FREE TEXT (Multiply asked)

                        INPUT TRANSFORM:K:$L(X)>40!($L(X)<1) X
                        LAST EDITED: DEC 06, 2016
                        HELP-PROMPT:Answer must be 1-40 characters in
length.
                        CROSS-REFERENCE:60.1999999^B
                                1)= S
^LAB(60,DA(2),1,DA(1),999999,"B",$E(X,1,3
                                0),DA)=""

                                2)= K
^LAB(60,DA(2),1,DA(1),999999,"B",$E(X,1,3
                                0),DA)
```

Figure 4-1 LAB QUALITATIVE VALUES field

5.0 Purge Old Orders & Accessions File

The installation of LR*5.2*1041 adds a new file, PURGE OLD ORDERS & ACCESSIONS (#90475.8) to the Lab Module.

5.1 Standard Listing

The FileMan Standard Listing for the new file is shown in Figure 5-1.

```
STANDARD DATA DICTIONARY #90475.8 -- PURGE OLD ORDERS & ACCESSIONS FILE
                                           FEB 21,2017@15:15:16
PAGE 1
STORED IN ^BLRPURGU(  (5 ENTRIES)   SITE: LR1034 Database   UCI:
LR1034,LR1034 (
VERSION 5.2)


DATA            NAME                   GLOBAL       DATA
ELEMENT         TITLE                  LOCATION     TYPE
-------------------------------------------------------------------------
----
This file will store the date/time and the DUZ of the user who has selected
the
'Purge old orders & accessions' option.

                DD ACCESS: @
                RD ACCESS: @
                WR ACCESS: @
               DEL ACCESS: @
            LAYGO ACCESS: @
            AUDIT ACCESS: @

CROSS
REFERENCED BY: PURGE DATE/TIME(B), USER(C)

   CREATED ON: NOV 14,2016 by KRING,MICHAEL K

90475.8,.01   PURGE DATE/TIME        0;1 DATE (Required)

                INPUT TRANSFORM: S %DT="ESTR" D ^%DT S X=Y K:Y<1 X
                LAST EDITED:     NOV 15, 2016
                CROSS-REFERENCE: 90475.8^B
                                 1)= S ^BLRPURGU("B",$E(X,1,30),DA)=""
                                 2)= K ^BLRPURGU("B",$E(X,1,30),DA)

90475.8,1     USER                   0;2 POINTER TO NEW PERSON FILE (#200)
                                      (Required)

                LAST EDITED:     NOV 15, 2016
                CROSS-REFERENCE: 90475.8^C
                                 1)= S ^BLRPURGU("C",$E(X,1,30),DA)=""
                                 2)= K ^BLRPURGU("C",$E(X,1,30),DA)

90475.8,2     DIVISION               0;3 POINTER TO INSTITUTION FILE (#4)
                                      (Required)

                LAST EDITED:     NOV 15, 2016

     FILES POINTED TO                      FIELDS
```

```
INSTITUTION (#4)                      DIVISION (#2)

NEW PERSON (#200)                     USER (#1)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):
```

Figure 5-1 PURGE OLD ORDERS & ACCESSIONS (#90475.8) file listing

6.0   LR*5.2*1041 Components

The following is a listing of the various files, options, routines, etc. that are included in the IHS LR*5.2*1041 Lab Patch.

6.1   Files

Table 6-1 Files included in LR*5.2*1041

File #	File Description
60	LABORATORY TEST
90475.8	PURGE OLD ORDERS & ACCESSIONS

6.2   Mail Groups

Table 6-2 Mail Groups included LR*5.2*1041.

Name	Description
LAB QUALITATIVE ALERT	RPMS Lab Mail Group to receive messages regarding tests that have a result that matches a Qualitative flag (see the ABNORMAL FLAG field under the Site/Specimen in file 60).
LAB RESULTS CHANGED	Mail Group to receive notifications when Lab Results have been changed.

6.3   Options

Table 6-3 Options included LR*5.2*1041

Name	BLRMENU Option	Menu Text
BLR PARMETERS AND MAIL GROUPS	PAGM	Edit RPMS Lab Parameters and/or Mail Groups
BLR PATIENT REMINDER DOCUMENT	PDOC	Patient Reminder Document
BLROLOR	ORDO	'Open Lab Orders' Reports
BLRPURGU	PURG	PURGE OLD ORDERS & ACCESSIONS Reports
LRAPDGS	GS	FS/Gross/Micro/Dx/SNOMED Coding

6.4   Parameter Definitions

Table 6-4 Parameters included LR*5.2*1041

Name	Description
BLR DOB ONLY	If set to YES, only the patient's Date-of-Birth will be displayed in the Interim Report's header and not the DoB and patient's Current Age.

Name	Description
BLR LAB RESULTS CHANGED NOTIFY	If set to YES, whenever a "CH" subscripted Lab Result is changed, a MailMan message will be sent to the LAB RESULTS CHANGED Mail Group.
BLR QUALITATIVE ALERT	If YES, a test with a result that matches the File 60 Site/Specimen ABNORMAL FLAG entry will generate an alert and an e-mail message to members of the LAB QUALITATIVE ALERT Mail Group.

6.5   Routines

Table 6-5 Routines included LR*5.2*1041

Name	Description
BLR7OGMP	Lab Interim Report for EHR
BLRDOCRM	Patient Reminder Document
BLRLINK3	Cont. Of BLR - IHS Laboratory Visit Creation
BLRLNKU1	IHS Laboratory PCC Visit Creation Utility
BLROLOR	Open Lab Orders Report
BLRPAMGE	BLR Parameters And Mail Group Edits
BLRPRE41	IHS Lab Patch LR*5.2*1041 Pre/Post Routine
BLRPURGU	Purge Old Orders & Accessions Utilities
BLRQUALU	RPMS LAB QUALitative Utilities
BLRUTIL7	MISC IHS LAB UTILITIES (Cont)
LRDIDLE0	Create audit trail of changed values
LRMIPSU	MICRO PATIENT REPORT
LROC	ORDER LIST CLEAN-UP
LRORDST	SET THE ORDER AND ACCESSION
LRRP1	PRINT THE DATA FOR INTERIM REPORTS
LRVER4	LAB ROUTINE DATA VERIFICATION
LRWRKLS1	LRWRKLST CONT.
LRWRKLST	LONG ACCESSION LIST

6.6   VA Patches

Table 6-6 lists the VA Patches included LR*5.2*1041. The patches are not utilized by RPMS Lab and this listing is for informational purposes only.

Table 6-6 VA Patches included in LR*5.2*1041

Name	Description
LA*5.2*82	UPDATE PROCEDURES FOR SNOMED CT LABORATORY MAPPINGS. This a VA patch dealing with how the VA deals with updating their SNOMED codes. It is only included to ensure the Patch Numbering Schema in RPMS Lab stays in synch with the VA.
LR*5.2*455	UPDATE DATA EXTRACT LOGIC FOR DSS DSS is not utilized within RPMS Lab and, as such, this patch is included only to ensure the Patch Numbering Schema in RPMS Lab stays in synch with the VA.

7.0 Contact Information

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

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

Web: http://www.ihs.gov/helpdesk/

Email: support@ihs.gov