

INSTALLATION NOTES FOR LABORATORY SERVICE PATCH 2

PREFIX: LR, LA, AND BLR
CURRENT VERSION: 5.2

*****NOTE*****NOTE*****NOTE*****NOTE*****NOTE*****NOTE*****NOTE*****
* READ THE ENTIRE NOTES FILE PRIOR TO ATTEMPTING ANY INSTALLATION! *
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1. GENERAL INFORMATION

- a). Print all notes/readme files.
b). It is recommended that the terminal output during installation be captured using an auxport printer attached to the terminal at which you are performing the patch installation. This will ensure a printed audit trail if any problems should arise.
c). PLEASE SEE THE NOTES FILE (lr_0520.02n) FOR COMPLETE INSTALLATION INSTRUCTIONS FOR THIS PATCH. This patch is in KIDS format and IS CUMULATIVE. For the convenience of the site managers in IHS, the distribution file, lr_0520.02k, contains the installation builds for 9 IHS patches: LR*5.2*1001, LR*5.2*1002, LR*5.2*1003, LR*5.2*1004, LR*5.2*1005, LR*5.2*1006, LA*5.2*1001, LA*5.2*1002, and LA*5.2*1003. All 9 patches will be loaded when the Distribution, lr_0520.02k, is loaded. All 9 patches will be installed when the Install Name, LR*5.2*1001, is selected.
d). The user may get a MXTRA(max string)error during installation of this patch if the upgrade instructions for MSM 4.4.0 have not been followed correctly. If the user encounters this error, reset the maximum global string length to greater than 255 through SYSGEN.

Note: SITES WHICH HAVE ALREADY INSTALLED ANY OF THE FOLLOWING PATCHES - LR*5.2*1001, LA*5.2*1001, LR*5.2*1002, LR*5.2*1003 MUST FIRST DELETE THE ENTRIES FROM THE "INSTALL FILE" (9.7) USING FILEMAN.

Note: Run the Lab Menu option: Check files for inconsistencies and correct all problems before beginning installation. Also, unload and clear all load/worklists and instruments before beginning installation.

2. CONTENTS OF DISTRIBUTION

- a). lr_0520.02n - Notes file for installation of this patch.
b). lr_0520.02k - Patch routines. Note: This patch will simultaneously load and install IHS Patches LR*5.2*1001, 1002, 1003, 1004, 1005, 1006 and LA*5.2*1001, 1002, and 1003.
c). Additional documentation in support of VA Patches:
lr_5202u.tar.gz contains the following manuals:
lr_0520.o5.pdf DHCP Laboratory Multidivisional Patch LR*5.2*72 Release Notes and Installation Guide
lr_0520.o6.pdf DHCP Laboratory Multidivisional Patch LR*5.2*72 Anatomic Pathology User Manual -Appendix A
lr_0520.o7.pdf VISTA Laboratory Multidivisional Patch LR*5.2*72 Blood Bank User Manual -Appendix D
lr_0520.o8.pdf VISTA Laboratory Multidivisional Patch LR*5.2*72 Blood Bank User Manual -Appendix E
lr_0520.o9.pdf VISTA Blood Bank User Manual - Intended Uses
lr_0520.10.pdf VISTA Blood Bank User Manual - Safety Critical Requirements
lr_0520.11.pdf VISTA Blood Bank User Manual - Software Requirements

Specifications

lr__0520.12.pdf VISTA Blood Bank User Manual - Hazard Analysis
lr__0520.13.pdf - VISTA Laboratory Electronic Data Interchange (LEDI)
Patch LA*5.2*27 and Patch LR*5.2*153 Installation Guide

3. REQUIREMENTS

- a). Laboratory Service V 5.2
- b). Kernel V 8.0 through Patch 4
- c). MSM V 4.4.0
- d). Fileman V 21.0 through Patch 6
- e). Mailman V 7.1 through Patch 3
- f). HL7 Package V 1.6 through Patch 3

4. PATCH DESCRIPTION

This patch is a cumulative patch containing 9 IHS Distributions. These distributions contain 58 patches released from the Veterans Administration in the LR and LA namespaces that provide enhancements or fixes to the Laboratory Package Version 5.2 as noted in the individual patch descriptions. Many of the enhancements are specific to functionality available only within the VA. These patches are being released because they establish the prerequisites for subsequent VA patches which will be necessary to support Laboratory Package functionality within IHS. The entire VA patch description is not included in this notes file. Additional patch information may be obtained from the VA Patch module or from the Division of Information Resources. Three informational VA patches are included with this distribution as well as 18 IHS fixes or enhancements of the Laboratory Package V 5.2 in the BLR namespace.

Descriptions of each distribution are listed below: (LR*5.2*1001 and LA*5.2*1001 were released separately and those patch descriptions may be found in the patch module in the notes files, lr__0520.01n and la__0520.01n.)

LR*5.2*1002

VA Patch LR*5.2*127 SEQ #97 The primary purpose of this patch is to convert from reporting Laboratory clinic stop codes, to reporting CPT codes for ordered tests done on patients. The Laboratory Package will capture and send CPT codes via PCE/API. There is an install deadline involved (10/1/96) in order to support PCE functionality requirements. THERE ARE NO CURRENT ANTICIPATED NEEDS FOR THIS PATCH FUNCTIONALITY WITHIN INDIAN HEALTH SERVICE.

VA Patch LR*5.2*72 SEQ #98 This patch provides multidivisional capability in Anatomical Pathology and Blood Bank. For a full description of the functionalities provided by this patch and Blood Bank validation, see lr__0520.o5.pdf, lr__0520.o6.pdf, lr__0520.o7.pdf, lr__0520.o8.pdf

VA Patch LR*5.2*136 SEQ#99 This patch corrects the problem of multiple LRCAPPH jobs (routine that processes phlebotomy workload data) running at the same time when only one is required. This problem appears when the system has slow response times and LRCAPPH jobs begin to accumulate. This patch also corrects a variable used for system response monitoring.

VA Patch LR*5.2*59 SEQ#100 The purpose of this patch is to provide archiving capability for the following files: WKLD DATA (#64.1) and LAB MONTHLY WORKLOADS (#67.9). The File Manager Extract Tool is used to move the data from the source file to a destination (archive) file. If the data is a pointer value, the Extract Tool transforms the data so that it is in the resolved textual state once it is transferred to the destination file. You can restore data from the archive file to a medium of choice. After the data from the archive file has been copied to external media, the data may be purged from the source file. Once the data is purged from the source file, it is not possible to restore the data to the source. The data from the storage medium may be restored to the archive file. LRAR is the

namespace for this patch.

VA Patch LR*5.2*101 SEQ#101 When the Detailed Workload Report [LRRP6] is run by TEST AUDIT and you ask for DETAILED output and you display the results to the screen, you are asked "Enter RETURN to continue or '^' to exit:" after each accession number. Also if you enter '^' to exit, you are then asked a second time "Enter RETURN to continue or '^' to exit:" This patch fixes these problems.

VA Patch LR*5.2*138 SEQ#103 This is a joint Radiology, PIMS, PCE, VSIT, National Patient Care Database (NPCDB) and Laboratory patch. The purpose of this patch is to ensure correct collection of NPCDB laboratory workload. The patch creates Lab Occasion of Service (OOS) Locations for the purpose of PCE reporting. These new locations can not be used for appointments or as test ordering locations. A tasked routine will inspect the LAB ORDER ENTRY file (#69) for collected specimens with a collection type of Immediate Collect, Send Patient or Lab Collect. Only those specimens with a HOSPITAL LOCATION type of Clinic, Module, or Other will be passed to PCE API. If the ACCESSION AREA has a LAB OSS LOCATION defined the API will pass workload for collected specimens.

VA Patch LR*5.2*134 SEQ#104 This patch fixes two AP reports not working properly after installation of LR*5.2*72. The routine LRAUSTA (Option: Autopsy Status List [LRAPAUSTATUS]) was inadvertently not exported with LR*5.2*72. A null subscript error occurred during the option Malignancy Review [LRAPOAMR]. Both reporting options were fixed in this patch.

VA Patch LR*5.2*137 SEQ#105 This patch resolves a problem at sites where lab is permitted to add new patients (File #69.9). If the user enters a mistake at the Patient Name prompt: and the prompt is reasked, the user is unable to enter a new patient.

VA Patch LR*5.2*141 SEQ#106 This patch corrects an Undefined error which occurred when the user chose PHASE1: Move data from 64.1 to 67.9 under the option LMIP Reports/Data Collection.

VA Patch LR*5.2*128 SEQ#107 This patch corrects a problem when running the OE/RR purge old orders with regard to Lab orders. In addition, this patch corrects a problem where the required comments for a test were not being displayed with the order text in Order Entry/Result Review (OE/RR). A change to routine LROW1 was implemented to fix a subscript error generated if a test being added to an already existing order had exceeded a daily maximum. A correction has been included to prevent deletion of all Lab Alerts for a patient when the 1st Alert is reviewed. The routine LRX07 has been edited to correct a problem with the unique collection sample not being used when a lab collection sample is not defined. The routine LRMI STF1 was edited to update the status in OE/RR when results for Microbiology accessions are entered in batch mode.

VA Patch LR*5.2*139 SEQ#108 This patch corrects 7 Blood Bank problems encountered after installation of Patch LR*5.2*72.

Problem 1: When two users used separate terminals to execute two separate functions at the same time, Log-in regular (invoices) [LRBLIR] and Disposition-relocation [LRBLID], workload was not collected and the units being logged in were entered into the Inventory file without review and edit capability.

Problem 2: When all available memory was utilized by a user logging in large numbers of units using the option Log-in regular (invoices) [LRBLIR], an error occurred which exited the user and all units being logged in prior to the error were entered into the Inventory file without review and edit capability.

Problem 3: When two users used separate terminals to execute two separate functions at the same time, Log-in regular (invoices) and Select units for patients [LRBLIR] to be crossmatched, units were available for selection for crossmatching before final review and editing of the log-in of those units.

Problem 4: When using the option Log-in regular (invoices), if the user answered "no" to the prompt if all log in information is correct, the user was then asked to enter the entry numbers that need to be edited. If the user failed to enter the

numbers and pressed <ENTER> all units were accepted without the user being prompted again to review and accept them.

Problem 5: If two users were using separate terminals to execute the same option Log-in regular (invoices) [LRBLIR], the system would allow each user to log in the same unit at the same time.

Problem 6: When logging units into inventory using the option Log-in regular (invoices) [LRBLIR], the system allowed creation of a duplicate unit when there were multiple component types of the already entered with the same unit ID.

Problem 7: When logging units into inventory using the option Log-in regular (invoices) [LRBLIR] and the supplier appended an eye-readable prefix onto the unit ID, a null subscript error occurred when the user attempted to edit those units.

NOTE: ANY IHS SITE USING THE BLOOD BANK MODULE MUST REVIEW THE ENTIRE VA PATCH DESCRIPTION FOR VALIDATION SCENARIOS.

VA Patch LR*5.2*109 SEQ#109 This patch allows each division to define a printer as the log printer for routine lab collect. The field, Log Printer for Routine Lab Collect is now in a multiple PRINTER DIVISION in the Laboratory Site file (#69.9). If this field is left blank, then the program defaults to the Log Printer for Routine Lab Collect. This patch also allows each division to change the default label printer from LABLABEL to a division specific printer. Within the new subfile, PRINTER DIVISION, there are three fields, PRINTER DIVISION, LOG PRINTER FOR ROUTINE LAB COLLECT, and ACCESSION PRINTER.

VA Patch LR*5.2*132 SEQ#111 This patch, identified as the Laboratory Emerging Pathogens Initiative (EPI) software package was designed by the Department of Veterans Affairs to track emerging pathogens on the national level without the necessity for additional local data entry. This patch contains a set of new and modified routines that extract specific data associated with Emerging Pathogens, transmit data to the Austin Automation Center for initial processing and create national Statistical Analysis System (SAS) data sets for Infectious Diseases Program Office access.

NOTE: THERE ARE ADDITIONAL TECHNICAL AND USER GUIDES DISTRIBUTED BY THE VA WITH THIS PATCH. THERE ARE NO CURRENT ANTICIPATED NEEDS FOR THIS PATCH FUNCTIONALITY WITHIN INDIAN HEALTH SERVICE.

VA Patch LR*5.2*158 SEQ#112 This patch contains two enhancements for capturing phlebotomy workload: 1. A Patient Information Management System (PIMS) certified default provider (in Laboratory Site file #69.9) to be used for Laboratory Patient Care Database workload collected via the PCE Application Programmer Interface and 2. Correction of excessive counting of phlebotomy workload.

VA Patch LR*5.2*150 SEQ#113 This patch corrects miscellaneous errors reported with the workload archiving patch. The options Delete Archived File Entries [LRAR DELETE ARCHIVED ENTRIES] and Convert archived data to use New Person file [LRAR ARCHIVE NP CONVERSION] are exported in this patch.

VA Patch LR*5.2*165 SEQ#115 This patch corrects a problem with Order Entry/Result Review (OE/RR) in the Ward Clerk menu, Add Orders option in which a collection type prompt did not always appear.

VA Patch LR*5.2*157 SEQ#116 This patch contains enhancements and corrections to the Veterans Administration Emerging Pathogens Initiative software. See LR*5.2*132 above.

VA Patch LR*5.2*111 SEQ#117 This patch fixed the cumulative archiving process so that all patient data eligible for archiving was forced to a permanent cumulative report page. Additional enhancements were added to the archiving process to search the ^LR global by date range, storage, and archiving capability for Microbiology.

VA Patch LR*5.2*143 SEQ#119 This patch is a modification of the VA clinical data extraction software used for tracking sendout workload on a national basis.

VA Patch LR*5.2*164 SEQ#120 This software enhancement provides VA (and potentially

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IHS) laboratories with the capability to transmit reports on specimens via network mail. This transmission via network mail shortens the turnaround time for lab test results being reported back to the sending laboratory. The interim reports that are produced are similar to the reports that are produced by the Taskman option LRTASK DAILY INTERIM. It creates all interim reports for the specified location based on the day that the data was verified. The device "SPOOL80" is assumed unless defined. For further discussion of this patch and file set up for support of this functionality, refer to the Kernel Manual, Chapter 19. A full copy of this patch may be obtained from the VA Patch Module or the Division of Information Resources.

VA Patch LR*5.2*171 SEQ#121 This is a patch replacement for VA LR*5.2*140. This patch corrects the problem of erratic printing from the Group Data Review [LRGVP] option. It resolves the problem of storing "Incorrectly reported as..." comments greater than 68 characters. In addition a date/time stamp and DUZ ID of the person making the change has been added to each "incorrectly reported as..." comment. Data names in the LAB DATA file (#63) have been limited to 50 characters. An option, Review Data Names [LR REVIEW DATA NAMES] will permit the user to review the database for entries greater than 50 characters. The user will then be given several options for correcting the test definitions. Usually the offending tests will be identified as CH subscript tests with free text result fields greater than 50 characters.

NOTE: THE OPTION [LR REVIEW DATA NAMES] WILL NOT BE ADDED AS A MENU OPTION DURING THE KIDS INSTALL. IT WILL NEED TO BE ADDED VIA MENU MANAGEMENT TO THE LAB LIAISON MENU OF THE APPROPRIATE LABORATORY STAFF. CONTACT THE SITE MANAGER FOR ASSISTANCE.

VA Patch LR*5.2*163 SEQ#123 This is a patch released by the VA to update the CPT codes in the WKLD CODE file (#64) to the 1997 version. The routine LRACAPAMP used by the Recompile Phase 1 LMIP data [LR WKLD LMIP 1 REPEAT] option was not resetting all file entries. The Edit or Print WKLD CODES [LR WKLD CODE EDIT PRINT] option was enhanced to display CPT codes and additional fields to be used by the Laboratory Electronic Data Interchange (LEDI). It is unknown whether any IHS sites will need or benefit from the functionality in this patch. For a complete Patch description, please contact the Division of Information Resources or review this patch on the VA Patch Module.

VA Patch LR*5.2*177 SEQ#124 This patch corrected an undefined variable which occurred when creating a new data name as a Set of Codes using the option Add a new data name [LRWU5].

LR*5.2*1003

VA Patch LR*5.2*121 SEQ# 125 This patch is to prepare sites for the installation of Order Entry/Results Reporting (OE/RR) V 3.0. All the changes in the patch are compatible with OE/RR V 2.5. The majority of the changes associated with the patch will not take effect until OE/RR V 3.0 is installed. Since this patch contains a Blood Bank namespaced routine LRBLPE, the following evaluation is necessary to be in compliance with FDA requirements. THE CHANGE IN THE LRBLPE ROUTINE WAS CLEARED FOR INSTALLATION IN PRODUCTION ENVIRONMENT BY FDA OFFICE OF COMPLIANCE, CENTER FOR BIOLOGICS EVALUATION AND RESEARCH ON 5-30-97. Because of the nature of the changes made, no specific validation requirements exist as a result of installation of this patch.

VA Patch LR*5.2*126 SEQ#156 This patch corrects a problem of unknown origin where 7 nines (9999999) are getting stored in the LAB DATA file (#63), the ACCESSION file (#68), the ORDER ENTRY file (#69), and the Cumulative Reports Global (^LAC). This patch replaces the erroneous data nodes with the laboratory inverse date. Time for the initial search of the database varies with the size of the database. A background task should be scheduled to run daily to clean up any new occurrences.

VA Patch LR*5.2*169 SEQ#127 This patch corrects an <UNDEF> error at TEST+3^LRCAPDAR ^64). This program has been modified to accept the new file structure put into place by the Decision Support System Extract (DSS) patch ECX*2*18. DSS is not

utilized with IHS.

VA Patch LR*5.2*90 SEQ#128 This patch corrects a series of problems after installation of LR*5.2*72. THIS PATCH HAS BEEN APPROVED FOR INSTALLATION IN PRODUCTION ENVIRONMENT BY FDA OFFICE OF COMPLIANCE, CENTER FOR BIOLOGICS EVALUATION AND RESEARCH, ON 4-4-97.

This patch fixes problems in the Transfusion Service Functions:

1. Corrects an undefined variable X at Y^LRBLJDA if a site that had duplicate entries in the Institution file (#4) attempted to pool units using the option Disposition-not transfused [LRBLIDN].
2. Coding was corrected to restore the functionality that units can have multiple phenotyping results entered without exiting the option Unit phenotyping [LRBLIUP].
3. Coding was changed to prevent a hard error - Undefined variable LRQ in FRE^LRBLDRR1, when the option Disposition-not transfused [LRBLIDN] was used to modify a Whole blood product to a Packed red cell product.
4. Corrected a problem when using the option Edit unit disposition fields [LRBLSED] to edit a unit whose final disposition was TRANSFUSE in which the information in file 65 was updated correctly but the patient's transfusion record in file 63 was not.
5. Corrected a problem occurring when using the option Blood component requests [LRBLPCS] and the user answers "NO" to the prompt "Display instructions for component selected? NO//, and the software ignored the answer and displayed the instructions regardless.
6. Corrected a problem in using the option Disposition-relocation [LRBLIDR] in which a unit previously given an inspection of Unsatisfactory could be relocated under certain conditions.
7. Corrected the coding during the situation where a user executing the option Enter Test Data [LRBLPET] to delete an entry in the RBC Antigen Absent field for a patient, the audit trail recorded the field being deleted as the wrong field.
8. When executing the option Edit unit - patient fields [LRBLSEC] the fields RELEASE REASON, RESTRICTED FOR, POS/INCOMPLETE SCREENING TESTS, and DONATION TYPE could be edited but did not get captured on the audit trail.
9. Removed the ability to edit the Date Re-entered Subfile multiple under the Edit unit disposition fields [LRBLSED].
10. Changed coding for the option Edit unit - patient fields [LRBLSEC] so that deletion of an entry at the top level (the field seen at a "SELECT" prompt) does not delete all entries.
11. When using the option Edit unit disposition fields [LRBLSED] and a disposition of TRANSFUSE was deleted, the software automatically updated associated fields in both files 65 and 63 but the data deleted was not captured on the audit trail. A new warning message was inserted into the option Edit unit disposition fields [LRBLSED] warning the user that DELETION of a TRANSFUSE disposition will also delete the Patient's Transfusion Record for this unit. Data deleted will also be included on the audit trail.
12. When using the option Edit unit disposition fields [LRBLSED] and a disposition of TRANSFUSE was deleted the software would automatically delete all entries in the MODIFIED TO/FROM fields if the unit was a pooled unit. The functionality was removed.
13. When using the option Specimen Log-in [LRBLPLOGIN] to continue to enter request information for Blood components requiring a crossmatch, the software did not evaluate the age of the specimen currently being logged in against the requirements for the component requested. This has been corrected.
14. When using the option Disposition - not transfused [LRBLIDN] to divide a unit of blood, the Pooled/Divided Units field did not accurately increment the # of individual units created during the modification process. This was corrected.
15. When executing the supervisory option Edit unit-patient fields [LRBLSEC] and a unit was chosen that had not been previously assigned to any patient, the option would error out with an undefined variable DA(1) at the DATE/TIME UNIT RELOCATION: prompt if the user did not assign a patient. Additional fields identified for editing as part of this option were no longer accessible. After the patch is installed, if the unit chosen has never been assigned to a patient, the option will no longer create an error and all fields identified for editing will be accessible.

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16. The Crossmatch: Transfusion report [LRBLRCT] would error out with a Null Subscript error if the Supervisory Option Edit unit - patient fields [LRBLSEC] was used to edit a unit which does NOT require a crossmatch, and the user accidentally entered a result in the DATE/TIME CROSSMATCHED field. This occurred because if a XMATCH date is entered for a unit, then a XMATCH result is Required.

- See documentation changes outlined in associated patch LR*5.2*147.

17. When the option Edit pooled blood product [LRBLJM] was used to either add or delete components from a Pool or delete an entire pool, not all edited fields were captured on the audit trail. After this patch, all edits to Pooled blood products are added to the audit trail.

18. A test site reported that when executing the option Edit unit disposition fields [LRBLSED] edits to current entries in the MODIFIED TO/FROM (multiple) fields were captured on the audit trail, additions or deletions from the multiple field were not. Also, when a disposition of MODIFIED is deleted, all previous entries in the MODIFIED TO/FROM (multiple) are deleted but not captured on the audit trail. After this patch, all edits made using this option are captured on the audit trail. See associated patch LR*5.2*147 detailing Documentation Changes for additional information about this option.

19. A problem was reported when executing the option Disposition -not transfused [LRBLIDN] to create a POOL when one of the individual units to be included in the POOL has been previously assigned to a patient. Once the new POOL has a UnitID assigned, the software then asks the user if the new pool should be assigned to the patient previously assigned the individual product. If the user answers yes, the software still does not assign the pool to that patient. Coding was changed to not quit before the pool is assigned to the patient if the user answers YES to the prompt.

Note: This patch also includes Modification of the options in the Donor module. It is not anticipated that functionality of this nature will be used by Indian Health Service Laboratories. While Blood Bank donor functionality will be provided by this patch, details can be obtained from the VA Patch module or from the Division of Information Resources.

NOTE: INSTALLATION OF THIS PATCH MUST BE ACCOMPANIED BY VALIDATION OF ALL BLOOD BANK OPTIONS USED BY A SITE. Refer to lr_052.07.pdf Laboratory Multidivisional Patch LR*5.2*72 Blood Bank User Manual for general validation instructions. Installation of this patch must be accompanied by validation of the following options if used by your laboratory service:

- Disposition - not transfused [LRBLIDN]
- Unit phenotyping [LRBLIUP]
- Enter test data [LRBLPET]
- Edit unit - patient fields [LRBLSEC]
- Edit unit disposition fields [LRBLSED]
- Disposition - relocation [LRBLIDR]
- Specimen log-in [LRBLPLOGIN]
- Blood component requests [LRBLPCS]
- Edit pooled blood product [LRBLJM]

VA Patch LR*5.2*90 SEQ#129 This patch is informational only and provides the BB documentation changes for VA Patch LR*5.2*90. It contains changes to the Blood Bank Users Manual V 5.2 which are a result of LR*5.2*90. Sites must make the following changes by hand:

p. 169 Enter test data [LRBLPET]

In the NOTES box, add the following bullet:

- * When entering Patient Phenotyping Results using this option, any new antigen typing results are automatically transferred to the patient's permanent record as well as recorded for the current specimen. HOWEVER, any deletions of previous antigen typing results are recorded for the

current specimen only. The option Previous records [LRBLPER] must be used to delete previous antigen typing results from the patient's permanent record.

p. 413 Edit Unit Disposition Fields (EI-DI)

Replace the two paragraphs with the following:

In the event that errors are detected in previously entered disposition data, the data may be edited as shown in the example; however, many of the control functions and design safeguards for the safety critical requirements are not present in this option. For this reason, a higher level of security access is needed to access this option. This option is NOT intended to be used for routine data entry.

- * If the original disposition = transfuse, the patient's transfusion record will be updated appropriately based on changes made. If the disposition = modify, changes will NOT automatically be made to new units which may have been created. Those will need to be addressed for each individual unit affected. Deletion of the modify disposition will result in deletion of ALL entries in the MODIFIED TO/FROM field as noted in the warning message. Editing of a pooled product should be done using the Edit pooled blood product (S-EI-PP) option to ensure appropriate data entry and updating of cross references.
- * All changes are automatically recorded on the audit trail, including the old value, the new value, the date edited and the person making the change. These can be printed using the Print data change audits [LRBLAD] option and incorporated into the official records to be retained in accordance with the Local Records Retention Policy and regulatory and accrediting agency guidelines.

Add the following as the third and fourth entries in the NOTES box.

- * The PATIENT TRANSFUSED field is a free text field. When data was originally entered through the P-DT option, the data was pulled from the PATIENT file to include the patient's full name and SSN; however, the data is stored as free text. If this field is edited, the patient's full name and SSN should be entered.
- * The following design safeguards present in the I-DN and P-DT options are NOT included:
 - automatic tracking of units modified to/from
 - automatic transfer of data for units involved in modification, either 'to' or 'from'
 - restriction of modification of components to specific choices as defined in File 66
 - evaluation of whether more than one unit can be created during the modification
 - evaluation of the sum of the new volumes to make sure it does not exceed the original volume
 - automatic capture of data on physician and treating specialty

Add the following as the fifth and sixth entries in the NOTES box.

- * The option EI-DI prompts for editing of the field MODIFIED TO/FROM, which is a Multiple field. This field is noted by the appearance of the word "Select" in front of the field name. Special care MUST be taken when editing this field. EDITING may NOT be done at the prompt "Select MODIFIED TO/FROM: ". Entries made at this point will either call up a previous entry for editing or create a NEW sub-record if quotes are used around the product name.
- * Deletions made at this point will delete the entire sub-record and ALL of its subfields before the information can be placed onto the audit trail.
- * When a multiple field is to be edited, the user MUST first choose the appropriate entry by entering a "?" at the Select MODIFIED TO/FROM: prompt, and then press <RET> at the "Select..." prompt until the desired entry is echoed back.

- p. 414 Delete the "Select DATE RE-ENTERED".
- p. 414 Just prior to the line: DISPOSITION: TRANSFUSE// <RET>
insert:
DELETION or EDITING of TRANSFUSE disposition will also delete the Patient's Transfusion Record for this unit.
- p. 417 Edit Unit Patient Fields (EI-PI)

Replace the introductory sentence with the following:

In the event that errors are detected in previously entered patient pretransfusion testing and unit relocation data, the data may be edited as shown in the example; however, many of the control functions and design safeguards for the safety critical requirements are not present in this option. For this reason, a higher level of security access is needed to access this option. This option is NOT intended to be used for routine data entry. A few reasons that data might to be entered via this option include:

- p. 417 Add the following sentences after reason #4.
All changes are automatically recorded on the audit trail, including the old value, the new value, the date edited and the person making the change. These can be printed using the Print data change audits [LRBLAD] option and incorporated into the official records to be retained in accordance with the Local Records Retention Policy and regulatory and accrediting agency guidelines.
- p. 417 Add a box with the following NOTES

NOTES:

- * In this option, it is NOT possible to enter ^FIELD NAME" to skip other fields or to exit the option. The message "SORRY, "^" NOT ALLOWED" will be displayed and the prompt will be repeated.
- * The FOR PATIENT field is a free text field. When data was originally entered through the I-DR option, the data was pulled from the PATIENT file to include the patient's full name and SSN; however, the data is stored as free text. If this field is edited, the patient's full name and SSN should be entered.
- * The VA PATIENT NUMBER field is a pointer field which points the PATIENT file. Data can be entered via the usual format; however, because the PATIENT TRANSFUSED field is free text, this field is NOT automatically updated to reflect changes made in that field.
- * If data is entered in the DATE/TIME CROSSMATCHED field, then there must also be a XMATCH RESULT entered.
- * The following design safeguards present in the I-DR, P-RS-US and P-RS-XM options are NOT included:
 - comparison of ABO/Rh of unit with patient's ABO/Rh
 - comparison of patient's clinically significant antibody with unit phenotyping
 - evaluation of age of patient specimen
 - evaluation of crossmatch results
 - evaluation of unit recheck results
 - evaluation of unit inspection
 - evaluation of unit expiration date
 - evaluation of unit volume to determine if it is less than the average volume for the component
 - evaluation of whether the unit is one for which the component must be modified before release

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- evaluation of relocation date/time in comparison to the date/time the unit was assigned to the patient

p. 418 Add a new NOTES box or insert a page after p. 418 with the following information in a NOTES box

NOTES:

- * The option EI-PI prompts for editing of three Multiple fields once a unit is selected for editing. These fields are noted by the appearance of the word "Select" in front of the field name. The fields are: PATIENT XMATCHED/ASSIGNED, BLOOD SAMPLE DATE/TIME and DATE/TIME UNIT RELOCATION. Special care MUST be taken when editing these fields.
- * EDITING may NOT be done at the prompts "Select PATIENT XMATCHED/ASSIGNED", "Select BLOOD SAMPLE DATE/TIME: " or "Select DATE/TIME UNIT RELOCATION: Entries made at these points will create a NEW sub-record, not edit the existing one. Deletions made at this point will delete the entire sub-record and ALL of its subfields before the information can be placed onto the audit trail.
- * As indicated in the example in this section, when a multiple field is to be edited, the user MUST do a <RET> at the "Select..." prompt until the desired entry is echoed back.

p. D-71 replace the blank page with the following information.
(No attempt will be made to put this information in columnar format in this patch message.)

Functional Area: Supervisor
Menu Option Name: [LRBLSEC]
Menu Option Abbreviation: S-EI-PI
Type of Control: Process Control
Control Function Brief Description: Limits access to those units assigned to the same division as the user

Warning Message: No
Override Capability: No
Functional Area: Supervisor
Menu Option Name: [LRBLSED]
Menu Option Abbreviation: S-EI-DI
Type of Control: Process Control
Control Function Brief Description: Limits access to those units assigned to the same division as the user

Warning Message: No
Override Capability: No

Functional Area: Supervisor
Menu Option Name: [LRBLSED]
Menu Option Abbreviation: S-EI-DI

Type of Control: Process Control
Control Function Brief Description: Updates patient transfusion record in File 63 if disposition is TRANSFUSE

Warning Message: No
Override Capability: No

NOTE: The Inquiry and Reports menu options do not have any type of data entry, and therefore, have not been included. Conversely, the Supervisory menu options have significant control in determining how the package works. The specific details are included in the Blood Bank User Manual. In addition, the checks provided in the routine data entry options are NOT generally included in these options, except as detailed above.

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These menu options are locked with the additional LRBLSUPER key.

These options allow override capability for many of the control functions available in the routine data entry options. These options do, however, provide more control than straight VA FileMan access, as well as updating the appropriate cross references and other related data.

VA Patch LR*5.2*92 SEQ#130 Validation Scenarios for LR*5.2*90 For those IHS Laboratory Sites using the Blood Bank Module, please see the VA Patch Module or call the Division of Information Resources for the complete text of this notes file.

VA Patch LR*5.2*174 SEQ#131 When using the option Reprint cumulative on a given patient [LRAC PT] a user receives an undefined error when they "" at the PATIENT LOCATION prompt. This patch corrects that problem.

VA Patch LR*5.2*162 SEQ#132 This patch makes the Purge Wkld Data file 64.1 [LRAR PURGE 64.1] option and the Purge Monthly Workloads file 67.9 [LRAR PURGE 67.9] queued options. The ARCHIVE TASK NUMBER FIELD (#18) in the LAB ARCHIVAL ACTIVITY file (#95.11) is now deleted upon completion of the task. The Write Data to Off-line Media options [LRAR WRITE MEDIA 67.99999] and [LRAR WRITE MEDIA 64.19999], then check for data in this field as a test of completion of archive. When archiving the LAB MONTHLY WORKLOADS file (#67.9), the date range selected for archiving must be in entire month segments due to the file structure of file 67.9.

VA Patch LR*5.2*186 SEQ#133 At Open M sites a Merge of a global into itself causes an error. A check has been added to make sure the global values are different before doing the merge. This patch should also be installed at non-open M sites, even though they are not getting the error.

VA Patch LR*5.2*173 SEQ#135 Routine LRUA is included with patch LR*5.2*173 to correct two problems:

1. During the Independent Test (IT) review of patch LR*5.2*72, several areas were identified in which code was written referencing globals where no integration agreement existed. Time did not permit these to be corrected at that time. This patch will include coding changes in LRUA to comply with currently accepted SAC standards.
2. Various Anatomic Pathology reports were looking at the ^LR(LRDFN,.1) node for the Report Routing Location to print on the footers of the reports. If an Anatomic accession is edited using the option Edit log-in & clinical hx, anat path [LRAPED] this node is not updated nor should it be. The routine was modified to get the appropriate field specific to an AP accession area for the report routing location.

RISK ANALYSIS: Changes exported by patch LR*5.2*173 have no effect on Blood Bank software functionality, therefore RISK is none.

EFFECT ON BLOOD BANK FUNCTIONAL REQUIREMENTS: Patch LR*5.2*173 does not alter or modify any software design safeguards or safety critical elements functions.

POTENTIAL IMPACT ON SITES: This patch contains changes to a routine identified in Veterans Health Administration (VHA) Directive 97-033. The change has no effect in Blood Bank functionality or medical device control functions. There is no adverse potential to sites.

VALIDATION REQUIREMENTS BY OPTION: There are no required validation scenarios to be completed by sites after installing patch LR*5.2*173.

Several problems have been reported with Anatomic Pathology Reports.

1. IND-0495-40319

It was reported that when printing a final or preliminary (non-Autopsy) pathology report for a patient who is deceased, that the AGE printed on

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the report is calculated from the date the report was printed. This can cause confusion and is incorrect if the pathology report is printed several years after a patient has died. The Autopsy reports correctly printed the Age at Death, but this was labeled AGE: on the report.

- If a date of death is entered, then on the reports the AGE will be substituted with AGE AT DEATH (from DEM^VADPT).

2. TOG-0697-12305

The various Anatomic Pathology reports currently look at the ^LR(LRDFN,.1) node for the Report Routing Location to print on the footers of the reports. If an anatomic accession is edited using the option Edit log-in & clinical hx, anat path [LRAPED] this node is not updated nor should it be.

- The reports have been modified to look at the appropriate field specific to that AP accession for the report routing location.

3. IT Review for patch LR.2*72

It was discovered during IT review for patch 72 that the routines LRUA and LRAPT had several historical coding references not covered by integration agreement. Timing did not allow for these to be fixed at that time.

- Since there are now documented APIs providing the information necessary, coding has been changed to utilize these calls rather than direct global references.

4. DEN-0797-50682

It was reported that it was no longer possible to use the option Print final path reports by accession # [LRAPFICH] to print to a HFS device.

- Coding was changed to allow this report to be printed to a HFS device if desired.

5. MIN-1296-41376

It was reported that after installing patch LR*5.2*72 that the new accession # format is causing the accession # to run into adjoining fields in various reports. Reports affected are:

Search options, anat path [LRAPSEARCH]

Path cases by resident, tech, senior or clinician [LRAPAU]

Frozen section, surgical path correlation [LRAPQAFS]

10% random case review [LRAPQAR]

Tissue committee review cases [LRAPQAT]

- Routines were modified to accommodate the new accession number format.

6. It was requested that the Pathologist's name be included along with each case in the Cum path data summaries [LRAPT] report.

- Routines were modified to include the Pathologist's name associated with a case on the report.

7. ANN-0895-40619, IND-0595-40108, SDC-0996-60104

It was reported that after workload is turned on for Cytology, the following reports were including the internal entry # for the workload profile along with the SPECIMEN field (#63.902,.012):

Histopathology Worksheet [LRAPH]

Display cytopath reports for a patient [LRAPCYCUM]

Display final path reports by accession # [LRAPPA]

- Routines were modified to only use the first piece of the SPECIMEN field (#63.902,.012) node when printing these reports.

VA Patch LR*5.2*194 SEQ#136 The Vista Blood Bank Software V. 5.2 has been submitted to the Food and Drug Administration (FDA) for registration as a medical device. Since this software is a module of the Vista Laboratory package, it is now required that all patches made to the Vista Laboratory software be evaluated as to whether they contain changes to the Blood Bank software as described in VHA Directive 97-033 titled VISTA BLOOD BANK SOFTWARE 5.2. Since the actual version of

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the software submitted to the FDA was V. 5.2 inclusive of patch LR*5.2*72 Seq # 98, all software patches released since that time have been retrospectively reviewed by the Blood Bank developer to determine if changes made impacted Blood Bank functionality.

Resolution:

1. As a result of this review, the following statement can be applied to the below group of patches to the Laboratory Software:

These patches to the Laboratory package do not contain any changes to the VISTA BLOOD BANK Software as defined by VHA DIRECTIVE 97-033 titled VISTA BLOOD BANK SOFTWARE VERSION 5.2.

The patches are: LR*5.2*59 LR*5.2*101 LR*5.2*107 LR*5.2*111 LR*5.2*126 LR*5.2*132 LR*5.2*134 LR*5.2*136 LR*5.2*137 LR*5.2*138 LR*5.2*140 LR*5.2*141 LR*5.2*143 LR*5.2*150 LR*5.2*152 LR*5.2*157 LR*5.2*158 LR*5.2*160 LR*5.2*163 LR*5.2*164 LR*5.2*165 LR*5.2*171 LR*5.2*172 LR*5.2*177

All subsequent patches for the Laboratory Package, starting with LR*5.2*121 Seq #125, are reviewed by the Laboratory Developer. If they contain routines that have been detailed in VHA DIRECTIVE 97-033, they are referred to the Blood Bank Developer to determine if changes made impact Blood Bank functionality. If they do not contain such routines, the developer will include the statement listed above.

2. Patch LR*5.2*128 contained routine LRTSTJAN which is listed in VHA Directive 97-033.

PROBLEM: Routine LRTSTJAN was included in patch LR*5.2*128 because LR*5.2*100 did not contain changes made by LR*5.2*67. The change made in LRTSTJAN was reviewed by the Blood Bank developer and was found to have no impact on the VISTA BLOOD BANK SOFTWARE V. 5.2 control functions.

RISK ANALYSIS: Changes exported by patch LR*5.2*128 have no effect on Blood Bank software functionality, therefore the RISK is NONE.

EFFECT ON BLOOD BANK FUNCTIONAL REQUIREMENTS: Patch LR*5.2*128 does not alter or modify any software design safeguards or safety critical element functions.

POTENTIAL IMPACT ON SITES: This patches contains changes to a routine identified in Veterans Health Administration (VHA) Directive 97-033. The change has no effect on Blood Bank functionality or medical device control functions. There is no adverse potential to sites.

VALIDATION REQUIREMENTS: There are no required validation scenarios to be completed by sites after installing patch LR*5.2*128.

VA Patch LR*5.2*198 SEQ#137 This patch corrects the problem of comments not being stored when orders are cancelled during routine receipt of lab orders using the option Itemized routine lab collection [LRPHITEM].

VA Patch LR*5.2*208 SEQ#143 This patch fixes comment problems associated with multiple phlebotomy options.

IHS Routine Modifications:

A problem with timing in setting transactions was corrected with modifications to routines BLRFLTL and BLRLINK. This problem was noted by generation of PCC error messages of Write to V LAB rejected.

An UNDEF occurred when using the option Bypass normal data entry [LRFAST]. Routine BLRDPT0 was modified to prevent this error.

A LINER error was generated whenever the code contained references to ORX (OE/RR Package). Few sites within IHS have installed or use the OE/RR package. Therefore all calls to ORX were modified to call BLRORX* to prevent the error.

The routine BLRSLTL1 was modified to correct an error <UNDEF> SET 3+8^BLRSLTL1 when using the option Accession order then immediately enter data.

The option IHS Interim Report by 1 Provider [BLR LRRD BY MD] failed to return results for entry of a provider with more than 20 characters in his/her name as a

new person. This problem is corrected.

LR*5.2*1004

Laboratory Electronic Data Interchange (LEDI)

The advent of a Veteran Integrated Service Network (VISN) centered organization of VA medical center (VAMC) facilities and the emphasis on outpatient-based primary care will see a significant change in the utilization and focus of the VISTA Laboratory package. The VISTA Laboratory package has been enhanced to better serve VA Laboratories in its new mission. Major enhancements are:

- Electronic Test Ordering
- Laboratory Test Orders Pending Storage Feature
- Universal Specimen Identification
- National Laboratory Test (NLT) Tests Identification
- Bar-code Accessioning
- Automatic Remote Result Reporting
- Automated Collecting Site Electronic Interim Report
- Non VA Trading Partners Electronic Linkage (Pending)
- Enhanced Automated Instrument Capabilities
- Health Level Seven (HL7) Messaging

Test Ordering:

The previous laboratory test ordering process had a single institution inpatient focus that did not support Veteran Integrated Service Network (VISN) service goals. Enhancement of the VISTA Laboratory V5.2 software produced the creation of a "pending orders" system to better manage lab test orders. This system features the following characteristics:

1. Management and Storage of Electronic Orders
2. Specimens Collected at Location, Test Results Generated at another facility
3. Transfer of Verified Results Electronically
4. Accommodate the Receipt and Storage of Shipping/Ordering Information and Results Reporting

Electronic Messaging:

LEDI is based on Health Level Seven (HL7) V2.3 messaging protocol and the VISTA LEDI HL7 Interface Standard Specifications V1.1 document. This document should be used as a basis for electronic data interchange.

LEDI provides electronic data interchange between VISTA Laboratories and other VISTA/non-VA Laboratory Information Systems (LIS) for the transmitting and receipting of laboratory test orders, order processing, and result reporting.

The collecting facility constructs a shipping manifest that lists patients, specimens, tests, and other information to properly identify the shipment. The shipping manifest is also transmitted electronically to the Host facility. The host laboratory receives the electronic message prior to specimen arrival. These electronic orders are stored in a "pending orders" file awaiting the specimen/shipping list arrival. Shipping manifest lists have complete information to allow manual order entry at the Host site if required.

Shipping Manifest Information Examples:

- Name of Shipping Facility
- Shipping List ID
- Shipping Date/Time
- Date of Specimen Collection
- List of Tests with Patient Demographics similar to a VISTA Load/Work List
- Bar-coded Labels for Shipping Manifest ID and Patient Demographics

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Specimens are processed upon arrival using shipping manifest list, bar-code accessioning of specimens into VISTA from the "pending orders" file. Updates to the LAB PENDING ORDERS ENTRY file (#69.6) with a status of the specimens, i.e., received, missing, insufficient quantity, incorrect shipping conditions, improper specimen, etc. Storage of links to collecting site/accession for returning of results are also stored in the LAB PENDING ORDERS ENTRY file (#69.6).

As testing is being verified, electronic messages are constructed containing test results and returned to the collecting site in batch mode.

Upon receipt results by the collecting site software an alert message is sent to a specific mail group.

Collecting Site Result Entry:

Test results are verified by the Host Laboratory performing the actual test procedure. Therefore editing of verified results by the collecting laboratory is not necessary. The electronically transmitted message containing the test results and test flags are stored directly into the collecting laboratory's clinical database.

Note: This patch contains changes to files and routines identified in Veterans Administration (VHA) Directive 97-033. The changes have no effect on Blood Bank functionality or medical device control functions. There is no potential adverse potential to sites nor are there any required validation scenarios to be completed by sites after installing this patch.

LR*5.2*1005

This patch provides the functionality to merge lab data when two patient records are merged.

LR*5.2*1006

With the upcoming turn of the century (Y2K) the Applications Software Development and Support Team, Division of Information Resources, Office of Management Support has issued a guidelines document for IHS RPMS Software Y2K requirements. This guideline lays out the core essentials to meet or exceed OMB, GAO and congressional requirements for Year 2000 requirements. Laboratory software has been modified to meet or exceed these guidelines.

These are the Year 2000 (Y2K) compliance patches containing the changes necessary to accommodate the year 2000. 2 digit (YY) year dates are replaced with 4 digit (CCYY) century year dates in laboratory routines for patients' permanent clinical record. 2 digit year dates are replaced in other laboratory routines where space was available. Because of the lack of space, labels are still printed with 2 digit year dates.

Warning:

Local label routines that call DD^LRX or DT^LRX will need to be modified to call DDOLD^LRX or DTOLD^LRX to print 2-digit dates.

The following routines were modified to be Y2K compliant:
LRU, LRUA, LRUPT.

These are shared routines that are used by Blood Bank as well as general Laboratory software. They were modified to display a date using a 4 digit century year format and formatting was changed when necessary to accommodate the extra two characters in the year.

The above change has been reviewed by the VISTA Blood Bank Developer and found to have no impact on the VISTA BLOOD BANK SOFTWARE version 5.2

control functions.

RISK ANALYSIS: Changes made by patch LR*5.2*201 have no effect on Blood Bank software functionality, therefore RISK is none.

EFFECT ON BLOOD BANK FUNCTIONAL REQUIREMENTS: Patch LR*5.2*201 does not alter or modify any software design safeguards or safety critical elements functions.

POTENTIAL IMPACT ON SITES: Although this patch contains changes to a routine identified in Veterans Health Administration (VHA) Directive 97-033. The changes have no effect in Blood Bank functionality or medical device control functions. There is no adverse potential to sites.

VALIDATION REQUIREMENTS BY OPTION:

The VISTA Blood Bank Software v 5.2 was evaluated and found to have no existing problems as far as date storage and evaluation. The date in all instances is already stored internally in a format which allows the definite determination of proper century.

The Y2K guidelines document states that applications are required to expand the external date displays on reports or forms which can be considered legally binding documents between the IHS and the patient, an agent of the patient, or a service- or product-provider of IHS. Using this statement as a guideline it was determined that the reports generated by the following options were to be modified to display the date using a 4 digit year format rather than the traditional dd/mm/yr format currently used:

Print single BB patient report [LRBLP PRINT SINGLE]

Print all BB patient reports on print queue [LRBLP PRINT ALL ON QUEUE]

Print units with final disposition [LRBLRUF]

RISK ANALYSIS: Since the coding changes only affect the format of the year printed on the report and have no functionality changes, the risk is NONE.

EFFECT ON FUNCTIONAL REQUIREMENTS/ INTENDED USES: Problem does not involve a software safety critical requirement and does NOT change the date using a 4 digit year format rather than the traditional dd/mm/yr format currently used:

Print single BB patient report [LRBLP PRINT SINGLE]

Print all BB patient reports on print queue [LRBLP PRINT ALL ON QUEUE]

Print units with final disposition [LRBLRUF]

RISK ANALYSIS: Since the coding changes only affect the format of the year printed on the report and have no functionality changes, the risk is NONE.

EFFECT ON FUNCTIONAL REQUIREMENTS/ INTENDED USES: Problem does not involve a software safety critical requirement and does NOT change the scope of a design safeguard or intended use.

POTENTIAL IMPACT ON SITES: There is no potential impact on the sites from the installation of LR*5.2*203.

VALIDATION TESTING REQUIREMENTS: Although the changes do not involve any requirements or functional specifications, it is necessary to perform the following steps in order to confirm that the Patient chartable reports are printing dates using a 4 digit year format:

OPTION: Print single BB patient report [LRBLP PRINT SINGLE]

This option should generate a chartable patient report where the date format uses a 4 digit year regardless of whether the work was done before or after installation of the patch. To verify this:

- 1) Select the option Print single BB patient report [LRBLP PRINT SINGLE].
- 2) At the prompt Select Patient Name: type in a name of a patient who has previous Blood Bank results.
- 3) At the prompt Print component requests ? NO// press the ENTER key to accept NO as the response.
- 4) At the prompt DEVICE: select a valid printer name or print the report to the screen.

Examine the report to verify that all instances of the date are formatted to include all four digits of the year.

Repeat steps 1 through 4 above with the following exception:
During step 3) answer YES to print component requests.
Examine the report to verify that all instances of the date are formatted to include all four digits of the year.

OPTION: Print all BB patient reports on print queue [LRBLP PRINT ALL ON QUEUE]

This option is used to print a batch of chartable patient reports. The format of the individual patient reports should be identical to the reports printed using the option Print single BB patient report [LRBLP PRINT SINGLE]. To verify the correct date format on these reports perform the following steps:

- 1) Select the option Print all BB patient reports on print queue [LRBLP PRINT ALL ON QUEUE].
- 2) At the prompt Save reports for reprinting ? NO// answer YES.
- 3) At the prompt Print component requests ? NO/ answer YES.
- 4) At the prompt DEVICE: select a valid printer name or print the report to the screen.

Examine the report to verify that all instances of the date are formatted to include all four digits of the year.

Repeat steps 1 through 4 above with the following exceptions.
During step 2) answer NO.
During step 3) answer NO.

Examine the report to verify that all instances of the date are formatted to include all four digits of the year.

OPTION: Blood bank consultation reports [LRBLCN]

This option is available for those sites wishing to use Vista to generate a Chartable Consultative report on patients who after Blood Bank serological testing are found to have either an allo-antibody or a positive Direct Coombs. If this option is used at a site, then a sample report should be printed for each type of Consultative report generated and then reviewed to determine that all dates print using a 4 digit year format. This will need to be completed by a user with the LRBLSUPER key performing the following steps:

- 1) Select the option Blood bank consultation reports [LRBLCN].
- 2) At the prompt Select CONSULTATION: type in a "?". You will see a listing of each type of consultative report used at your facility. Choose the ALLO ANTIBODY or DIRECT COOMBS TEST REPORT.
- 3) At the prompt Select Patient Name: choose a name of a patient that is known to have an identified allo antibody or positive Direct Coombs test, whichever is appropriate.

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- 4) At the prompt DEVICE: select a valid printer name or print the report to the screen.

Examine the report to verify that all instances of the date are formatted to include all four digits of the year.

Repeat steps 1-4 as necessary to provide an example of each type of consultative report generated at your facility.

OPTION: Print units with final disposition [LRBLRUF]

This option is designed for a site to print a permanent hard copy of the BLOOD INVENTORY file (#65) prior to the use of the option Remove units with final disposition [LRBLSER] to purge the BLOOD INVENTORY file (#65) for a specified date range. This functionality is provided for those sites who may have a need or desire to not keep all BLOOD INVENTORY data on line indefinitely. It is not recommended that this option be run on a routine basis. However, if necessary the option is available.

Because of the implications of generating this report, it is recommended that if a site wishes to verify that the printing of dates uses a 4 digit

OPTION: Print units with final disposition [LRBLRUF]

This option is designed for a site to print a permanent hard copy of the BLOOD INVENTORY file (#65) prior to the use of the option Remove units with final disposition [LRBLSER] to purge the BLOOD INVENTORY file (#65) for a specified date range. This functionality is provided for those sites who may have a need or desire to not keep all BLOOD INVENTORY data on line indefinitely. It is not recommended that this option be run on a routine basis. However, if necessary the option is available.

Because of the implications of generating this report, it is recommended that if a site wishes to verify that the printing of dates uses a 4 digit year that this verification be done in a test environment. This report should be locked with the LRBLSUPER key so will need to have a user with that key perform the testing if performed.

To verify the correct date format on these reports perform the following steps:

- 1) Select the option Print units with final disposition [LRBLRUF].
- 2) If this option has been used in the past you may be prompted with the following. *** ANSWER NO AT THE PROMPT TO DELETE THE LIST ***

There is a list of units printed by USER, PREVIOUS
They should be deleted before printing another list. OK ? YES// N
(NO)

- 3) At the prompt Start with Date TODAY// choose a date far enough in the past so that there will be unit with a final disposition entered.
- 4) At the prompt Go to Date TODAY// choose a date more recent than the Start with Date.
- 5) At the DEVICE: prompt, choose a valid printer name.

Examine the report to verify that all instances of the date are formatted to include all four digits of the year.

VA LR*5.2*155, Sequence # 141: Autopsy QA Options Not Working Patch
This patch corrects three problems with the QA functions for the Autopsy Accession Area. 1). The user was not prompted to enter any QA codes while executing the option QA codes entry/edit [LRAPQACD] and choosing the Autopsy Accession Area. 2). When using the option QA outcome review cases [LRAPQOR], not all of the information was printing. 3). The report format for Autopsy data review [LRAPAUVRV] was modified to accommodate the new accession # format.

VA LR*5.2*191, Sequence # 142: Correct Count on Collection List
When the collection list builds, it keeps a count of specimens added to the list. It was not taking into account specimens that had been merged or combined and the count was often too high. This patch corrects the problem.

VA LR*5.2*189, Sequence # 144: Line Wrap on Lab Order Display
The listing of orders with Lab order #s after entering Lab orders through Order Entry/Results reporting will sometimes wrap to a second line causing the display to scroll off. This patch keeps the display to one line per order.

VA LR*5.2*205, Sequence # 145: Lab/Kernel Toolkit Routine
This patch contains a routine (LRXDRPT) which is required for proper handling of the LAB DATA file (#63) during a Patient Merge process. It also will add an entry in the 'AFFECTS RECORD MERGE' subfile under the LR entry in the PACKAGE file (#9.4).

Background information: The patient merge package uses special processing routines for handling files which are related to the patient file in a manner similar to pointers, but do not use standard pointers and are missed by the normal merge process. The special processing routines simply establish the pair of entries in the file (if present) related to a pair of entries in the patient file being merged, and then performs a merge on the entries in the special processing file.

The Laboratory Data file (file 63) uses a pointer from the patient file to file 63 and a pair of non-pointer fields in file 63 to identify the entry and file number (originating prior to the availability of variable pointers). These pointer relationships are not recognized by the Patient Merge and therefore require special processing. The routine LRXDRPT performs this special processing.

It is recommended that the site run the option Check patient and Lab data cross pointers [LRCKPTR] before the patient merge to check pointer relationships and fix.

LA*5.2*1002

This is the LA patch which in conjunction with LR*5.2*1004 provides the capability for electronic data exchange.

LA*5.2*1003

This is the LA patch which in conjunction with LR*5.2*1006 provides the changes in Laboratory Package V 5.2 necessary to accommodate the year 2000

5. INSTALLATION INSTRUCTIONS

a). This patch was built with KIDS and must be installed using the KIDS install package option.

b). *****IT IS STRONGLY RECOMMENDED THAT A COMPLETE SYSTEM BACKUP BE PERFORMED BEFORE INSTALLATION OF THIS PATCH. The PRINT, COMPARE, and VERIFY functions should be performed for each of the patches included in this distribution.*****

c). It is strongly recommended that ALL users be off the system during installation of this patch and that it be installed right after a full back up. At a minimum, all primary Laboratory Options should be placed out of service and Laboratory users should be off the system. Disable the menu option [LRMENU] and [BLRMENU] and/or local lab menu options. If all primary Laboratory Options have not been disabled prior to starting the installation, you will be prompted during the install, "Want to DISABLE scheduled Options, Menu Options, and Protocols? YES//".

Ensure that all current Lab/PCC link transactions have been processed and that the entry for last sequence number assigned matches the last entry processed before

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disabling the link. The message "Link is not running" should be displayed. Disable the link by setting both fields, Lab Log Transaction and Lab Log to PCC to "NO".

Review all lab tasked options and dequeue/reschedule any that may start during the install process. The install process may take several hours if your facility has a lot of data. A large facility that has run the lab for years reported an install time of six hours.

Routine LAB for lab automated instruments interfaced through a LSI should not be running.

If a site has direct-connected interfaces for lab automated instruments these should not be running.

The HL7 background job (HLLP) for the Lab Universal Interface should be stopped.

The routine LA7UIIN to process incoming HL7 messages should not be running. It will shut down automatically after 5 minutes if no messages have been received.

If using auto download, the routine LA7ADL should not be running. Use option Start/Stop Auto Download Background Job [LA7 ADL START/STOP].

d). *** YOU MUST HAVE PROGRAMMER ACCESS (DUZ(0)="@") TO SUCCESSFULLY COMPLETE THIS INSTALLATION. IF YOU DO NOT HAVE PROGRAMMER ACCESS, ONLY PORTIONS OF THE INSTALLATION WILL RUN TO COMPLETION. ***

During the installation you may see a message like the following: "BUILD LA*5.2*1001 **Couldn't Add to File***". Disregard this message. From the Installation Menu of the KIDS menu, run the option, Load a Distribution. Select the Host File, lr_0520.02k, and proceed with the install using LR*5.2*1001 as the Install Name.

e). If installation is successful, follow these post-installation instructions:

Note: Verify successful installation of the patch using the Kernel Installation and Distribution System Utility Option: Display Patches for a Package.

Example:

```
XPD MAIN          Kernel Installation & Distribution System
                  Edits and Distribution ...
                  Utilities ...
                  Installation ...
```

Select Kernel Installation & Distribution System Option: Utilities

```
Build File Print
Install File Print
Convert Loaded Package for Redistribution
Display Patches for a Package
Purge Build or Install Files
Rollup Patches into a Build
Update Routine File
Verify a Build
Verify Package Integrity
```

Select Utilities Option: Display Patches for a Package

```
Select PACKAGE NAME: LR
  1  LR63 1ST TIME INSTALL          LR63
  2  LR LAB SERVICE                 LR
  3  LRDJOB AUTOMATED LAB INSTRUMENTS  LA
CHOOSE 1-3: 2 LAB SERVICE          LR
Select VERSION: 5.2//              11-01-97
```

Do you want to see the Descriptions? NO//
DEVICE: HOME//

PACKAGE: LAB SERVICE Mar 09, 1999 7:29 am PAGE 1
PATCH # INSTALLED INSTALLED BY

VERSION: 5.2 DEC 18, 1997

1001	DEC 15, 1998	LOUGHRAN, MI KE
1002	DEC 15, 1998	LOUGHRAN, MI KE
1003	DEC 15, 1998	LOUGHRAN, MI KE
1004	DEC 15, 1998	LOUGHRAN, MI KE
1005	JUN 17, 1998	LOUGHRAN, MI KE
1006	DEC 15, 1998	LOUGHRAN, MI KE

- Build File Print
- Install File Print
- Convert Loaded Package for Redistributi on
- Di splay Patches for a Package
- Purge Build or Install Files
- Roll up Patches into a Build
- Update Routine File
- Veri fy a Build
- Veri fy Package Integri ty

Select Utilities Option: Di splay Patches for a Package

Select PACKAGE NAME: LA

1	LAB MESSAGING	LA7	
2	LAB SERVICE	LR	
3	LAB SITE CODE	LB	
4	LA AUTOMATED LAB INSTRUMENTS		LA

CHOOSE 1-4: 4 AUTOMATED LAB INSTRUMENTS LA

Select VERSION: 5.2// 11-01-97
Do you want to see the Descriptions? NO//
DEVICE: HOME//

PACKAGE: AUTOMATED LAB INSTRUMENTS Mar 09, 1999 7:34 am PAGE 1
PATCH # INSTALLED INSTALLED BY

VERSION: 5.2 DEC 18, 1997

1001	DEC 10, 1997	LOUGHRAN, MI KE
1002	SEP 08, 1997	LOUGHRAN, MI KE
1003	DEC 15, 1998	LOUGHRAN, MI KE

Enable journaling. BE SURE TO JOURNAL ^LAHM (gl obal).

Restart the Lab PCC link by resetting the Lab Log Transaction and Lab Log to PCC fields back to "YES".

Restart LAB background job(s) if used.

Restart HLLP job(s) stopped before installation.

Restart the autodownload if appropriate.

Schedule THREE new tasked options:

BLRTASK LAB LOG CLEANUP

DESCRIPTION: This task will cleanup entries in the IHS LAB TRANSACTION LOG along with the queue file, BLR MASTER CONTROL, used for processing the

lr__0520_02n.txt

transactions. The clean up is based on the value of the GRACE PERIOD FOR ORDERS parameter in the LABORATORY SITE file. The default is 180 days if the GRACE PERIOD FOR ORDERS is not defined.

Schedule this option to run during off hours. After the initial (first time) run, this option should only run for a short time each day and have little impact on the journal space.

NOTE: SITE MANAGER - WATCH THE JOURNAL SPACE WHEN THIS UTILITY IS FIRST RUN. A LARGE SITE WHICH HAS MANY ENTRIES IN THE TRANSACTION LOG MAY FILL UP MORE THAN ONE JOURNAL SPACE.

BLRTASK Lab DI Startup

DESCRIPTION: This option should be scheduled to run at startup if lab is using Data Innovations or Dawning Technology HL7 (HLLP JOB) Utilities to pass data from automated instruments to the Lab package

Schedule this option to run at startup by putting the word STARTUP in the special queue.

LA7TASK NIGHTY

DESCRIPTION: This is a tasked option to check integrity of LA7 MESSAGE QUEUE file (#62.49) and purge messages that are eligible for purging.

This option should be scheduled to run if lab is using the Data Innovations or Dawning Technology HL7 (HLLP JOB) Utilities. This option should be tasked daily, preferably during period when activity in the Lab Messaging (i.e. Universal Interface, LEDI) package is at a minimum.

Return the system to the users.

If implementing LEDI functionality, review set up requirements in the VISTA LEDI Installation Guide.

Delete routines LA27, LR153, LR201 and LA42.

Example Installation Script:

- 1 Load a Distribution
- 2 Verify Checksums in Transport Global
- 3 Print Transport Global
- 4 Compare Transport Global to Current System
- 5 Backup a Transport Global
- 6 Install Package(s)
Restart Install of Package(s)
Unload a Distribution

Select Installation Option: Load a Distribution
Enter a Host File: d:\ftp\pub\lab\lpatchy2k\lr__0520.02k

KIDS Distribution saved on Dec 17, 1998@08:50:58
Comment: LAB 5.2 PATCHES LR 1 - 6 and LA 1 - 3 KIDS INSTALL 12/16/98 MJL

This Distribution contains Transport Globals for the following Package(s):

LR*5.2*1001
LA*5.2*1001
LR*5.2*1002
LR*5.2*1003
LR*5.2*1004
LA*5.2*1002
LR*5.2*1005
LR*5.2*1006
LA*5.2*1003

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Want to Continue with Load? YES//
Loading Distribution...

Want to RUN the Environment Check Routine? YES//

LR*5.2*1001
Will first run the Environment Check Routine, LR1001

LA*5.2*1001
Will first run the Environment Check Routine, LA23

LR*5.2*1002
Will first run the Environment Check Routine, BLR1002E

LR*5.2*1003
Will first run the Environment Check Routine, BLR1003E

LR*5.2*1004
Will first run the Environment Check Routine, LR153

LA*5.2*1002
Will first run the Environment Check Routine, LA27

LR*5.2*1005
Will first run the Environment Check Routine, BLRMERGI

LR*5.2*1006
Will first run the Environment Check Routine, LR201

LA*5.2*1003
Will first run the Environment Check Routine, LA42

Use INSTALL NAME: LR*5.2*1001 to install this Distribution.

- 1 Load a Distribution
- 2 Verify Checksums in Transport Global
- 3 Print Transport Global
- 4 Compare Transport Global to Current System
- 5 Backup a Transport Global
- 6 Install Package(s)
Restart Install of Package(s)
Unload a Distribution

Select Installation Option: install Package(s)
Select INSTALL NAME: LR*5.2*1001 Loaded from Distribution Loaded from Distribution 12/17/98@09:02:54
=> LAB 5.2 PATCHES LR 1 - 6 and LA 1 - 3 KIDS INSTALL 12/16/98 MJL ;Created

This Distribution was loaded on Dec 17, 1998@09:02:54 with header of
LAB 5.2 PATCHES LR 1 - 6 and LA 1 - 3 KIDS INSTALL 12/16/98 MJL ;Created on Dec 17, 1998@08:50:58

It consisted of the following Install(s):

LR*5.2*1001
LA*5.2*1001
LR*5.2*1002
LR*5.2*1003
LR*5.2*1004
LA*5.2*1002
LR*5.2*1005
LR*5.2*1006
LA*5.2*1003

LR*5.2*1001

Will first run the Environment Check Routine, LR1001

Environment Check is Ok ---

Install Questions for LR*5.2*1001

Incoming Files:

9009022 IHS LAB TRANSACTION LOG (Partial Definition)

Note: You already have the 'IHS LAB TRANSACTION LOG' File.

LA*5.2*1001

Will first run the Environment Check Routine, LA23

This version (#5.2) of 'LA7INIT' was created on 29-MAR-1996
(at DALLAS ISC - VERIFICATION ACCOUNT, by VA FileMan V.21.0)

I AM GOING TO SET UP THE FOLLOWING FILES:

61 TOPOGRAPHY FIELD (Partial Definition)

Note: You already have the 'TOPOGRAPHY FIELD' File.
Shall I write over the existing Data Definition? YES//

62.05 URGENCY (Partial Definition)

Note: You already have the 'URGENCY' File.
Shall I write over the existing Data Definition? YES//

62.4 AUTO INSTRUMENT

Note: You already have the 'AUTO INSTRUMENT' File.
Shall I write over the existing Data Definition? YES//

62.48 LA7 MESSAGE PARAMETER

Note: You already have the 'LA7 MESSAGE PARAMETER' File.
Shall I write over the existing Data Definition? YES//

62.485 LA7 MESSAGE LOG BULLETINS (including data)

Note: You already have the 'LA7 MESSAGE LOG BULLETINS' File.
Shall I write over the existing Data Definition? YES//

I will OVERWRITE your data with mine.

62.49 LA7 MESSAGE QUEUE

Note: You already have the 'LA7 MESSAGE QUEUE' File.
Shall I write over the existing Data Definition? YES//

68 ACCESSION

Note: You already have the 'ACCESSION' File.
Shall I write over the existing Data Definition? YES//

SHALL I WRITE OVER FILE SECURITY CODES? No// Y (Yes)

NOTE: This package also contains INPUT TEMPLATES

SHALL I WRITE OVER EXISTING INPUT TEMPLATES OF THE SAME NAME? Yes//

(Yes)

NOTE: This package also contains OPTIONS

SHALL I WRITE OVER EXISTING OPTIONS OF THE SAME NAME? Yes// (Yes)

ARE YOU SURE EVERYTHING'S OK? No// Y (Yes)

... SORRY, JUST A MOMENT PLEASE.....

'LA7 MAIN MENU' Option Filed

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'LA7 PRINT 0070 TABLE' Option Filed
'LA7 PRINT LAB UI ERROR LOG' Option Filed.
NOTE THAT FILE SECURITY-CODE PROTECTION HAS BEEN MADE

>>>LA AUTO INST entry already exist...

--- Environment Check is Ok ---

Install Questions for LA*5.2*1001

LR*5.2*1002

Will first run the Environment Check Routine, BLR1002E

Checking for 1001...

Environment Check is Ok ---

Install Questions for LR*5.2*1002

Incoming Files:

60 LABORATORY TEST (Partial Definition)

Note: You already have the 'LABORATORY TEST' File.

62.06 ANTIMICROBIAL SUSCEPTIBILITY

Note: You already have the 'ANTIMICROBIAL SUSCEPTIBILITY' File.

63 LAB DATA (Partial Definition)

Note: You already have the 'LAB DATA' File.

64 WKLD CODE (including data)

Note: You already have the 'WKLD CODE' File.

I will MERGE your data with mine.

64.03 WKLD LOG FILE

Note: You already have the 'WKLD LOG FILE' File.

64.036 LAB DSS LAR EXTRACT

Note: You already have the 'LAB DSS LAR EXTRACT' File.

64.19999 ARCHIVED WKLD DATA

Note: You already have the 'ARCHIVED WKLD DATA' File.

64.2 WKLD SUFFIX CODES (including data)

Note: You already have the 'WKLD SUFFIX CODES' File.

I will MERGE your data with mine.

64.3 WKLD INSTRUMENT MANUFACTURER (including data)

Note: You already have the 'WKLD INSTRUMENT MANUFACTURER' File.

I will MERGE your data with mine.

64.6 INTERIM REPORTS

Note: You already have the 'INTERIM REPORTS' File.

64.81 LAB NLT/CPT CODES (including data)

Note: You already have the 'LAB NLT/CPT CODES' File.

65 BLOOD INVENTORY (Partial Definition)

Note: You already have the 'BLOOD INVENTORY' File.

65.5 BLOOD DONOR (Partial Definition)

Note: You already have the 'BLOOD DONOR' File.

66 BLOOD PRODUCT (Partial Definition)
Note: You already have the 'BLOOD PRODUCT' File.

67.99999 ARCHIVED LAB MONTHLY WORKLOADS
Note: You already have the 'ARCHIVED LAB MONTHLY WORKLOADS' File.

68 ACCESSION (Partial Definition)
Note: You already have the 'ACCESSION' File.

69 LAB ORDER ENTRY
Note: You already have the 'LAB ORDER ENTRY' File.

69.4 EMERGING PATH PROTOCOL
Note: You already have the 'EMERGING PATH PROTOCOL' File.

69.5 EMERGING PATHOGENS (including data)
Note: You already have the 'EMERGING PATHOGENS' File.

69.9 LABORATORY SITE (Partial Definition)
Note: You already have the 'LABORATORY SITE' File.

95.11 LAB ARCHIVAL ACTIVITY
Note: You already have the 'LAB ARCHIVAL ACTIVITY' File.

Incoming Mail Groups:

Enter the Coordinator for Mail Group 'LAB REPORT': RUSSELL, DOROTHY DKR

Enter the Coordinator for Mail Group 'EPI': RUSSELL, DOROTHY DKR

Enter the Coordinator for Mail Group 'EPI-REPORT': RUSSELL, DOROTHY DKR

LR*5.2*1003

Will first run the Environment Check Routine, BLR1003E

Install Questions for LR*5.2*1003

Incoming Files:

65.5 BLOOD DONOR (Partial Definition)
Note: You already have the 'BLOOD DONOR' File.

69 LAB ORDER ENTRY (Partial Definition)
Note: You already have the 'LAB ORDER ENTRY' File.

69.9 LABORATORY SITE (Partial Definition)
Note: You already have the 'LABORATORY SITE' File.

LR*5.2*1004

Will first run the Environment Check Routine, LR153

--- Environment Check is Ok ---

Install Questions for LR*5.2*1004

Incoming Files:

2 PATIENT (Partial Definition)
Note: You already have the 'PATIENT' File.

60 LABORATORY TEST (Partial Definition)
Note: You already have the 'LABORATORY TEST' File.

61 TOPOGRAPHY FIELD (Partial Definition)
Note: You already have the 'TOPOGRAPHY FIELD' File.

- 62.05 URGENCY (Partial Definition)
Note: You already have the 'URGENCY' File.
- 62.6 ACCESSION TEST GROUP (Partial Definition)
Note: You already have the 'ACCESSION TEST GROUP' File.
- 63 LAB DATA (Partial Definition)
Note: You already have the 'LAB DATA' File.
- 64.061 LAB ELECTRONIC CODES (including data)
Note: You already have the 'LAB ELECTRONIC CODES' File.
- 67 REFERRAL PATIENT
Note: You already have the 'REFERRAL PATIENT' File.
- 68 ACCESSION (Partial Definition)
Note: You already have the 'ACCESSION' File.
- 69 LAB ORDER ENTRY (Partial Definition)
Note: You already have the 'LAB ORDER ENTRY' File.
- 69.6 LAB PENDING ORDERS ENTRY
Note: You already have the 'LAB PENDING ORDERS ENTRY' File.

LA*5.2*1002

Will first run the Environment Check Routine, LA27

--- Environment Check is Ok ---

Install Questions for LA*5.2*1002

Incoming Files:

- 60 LABORATORY TEST (Partial Definition)
Note: You already have the 'LABORATORY TEST' File.
- 62.48 LA7 MESSAGE PARAMETER
Note: You already have the 'LA7 MESSAGE PARAMETER' File.
- 62.485 LA7 MESSAGE LOG BULLETINS (including data)
Note: You already have the 'LA7 MESSAGE LOG BULLETINS' File.
I will OVERWRITE your data with mine.
- 62.49 LA7 MESSAGE QUEUE
Note: You already have the 'LA7 MESSAGE QUEUE' File.
- 62.8 LAB SHIPPING MANIFEST
Note: You already have the 'LAB SHIPPING MANIFEST' File.
- 62.85 LAB SHIPPING EVENT
Note: You already have the 'LAB SHIPPING EVENT' File.
- 62.9 LAB SHIPPING CONFIGURATION
Note: You already have the 'LAB SHIPPING CONFIGURATION' File.
- 62.91 LAB SHIPPING CONTAINER
Note: You already have the 'LAB SHIPPING CONTAINER' File.
- 62.92 LAB SHIPPING METHOD
Note: You already have the 'LAB SHIPPING METHOD' File.
- 62.93 LAB SHIPPING CONDITIONS
Note: You already have the 'LAB SHIPPING CONDITIONS' File.

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LR*5.2*1005

Will first run the Environment Check Routine, BLRMERGI

--- Environment Check is Ok ---

Install Questions for LR*5.2*1005

Incoming Mail Groups:

Enter the Coordinator for Mail Group 'BLR LAB PATIENT MERGE': RUSSELL, DOROTHY
DKR

LR*5.2*1006

Will first run the Environment Check Routine, LR201

Environment Check is Ok ---

Install Questions for LR*5.2*1006

Incoming Files:

62.3 LAB CONTROL NAME

Note: You already have the 'LAB CONTROL NAME' File.

67 REFERRAL PATIENT

Note: You already have the 'REFERRAL PATIENT' File.

67.1 RESEARCH

Note: You already have the 'RESEARCH' File.

68 ACCESSION (Partial Definition)

Note: You already have the 'ACCESSION' File.

69.91 LR ROUTINE INTEGRITY CHECKER

Note: You already have the 'LR ROUTINE INTEGRITY CHECKER' File.

LA*5.2*1003

Will first run the Environment Check Routine, LA42

--- Environment Check is Ok ---

Install Questions for LA*5.2*1003

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Enter options you wish to mark as 'Out Of Order': LRMENU Laboratory DHCP Menu

Enter options you wish to mark as 'Out Of Order':

Enter protocols you wish to mark as 'Out Of Order':

Delay Install (Minutes): (0-60): 0//

Enter the Device you want to print the Install messages.

You can queue the install by enter a 'Q' at the device prompt.

Enter a '^' to abort the install.

DEVICE: P-132//

LR*5.2*1001

Install Started for LR*5.2*1001 :
Dec 17, 1998@09:08:03

Installing Routines:

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Dec 17, 1998@09:08:10

Installing Data Dictionaries:

Dec 17, 1998@09:08:12

Installing PACKAGE COMPONENTS:

Installing OPTION

Dec 17, 1998@09:08:12

Running Post-Install Routine: POST^LR1001

Option [BLR LRRD BY MD] was added to [LR OUT] MENU
DONE Checking queues

Post install completed

Updating Routine file...

Updating KIDS files...

LR*5.2*1001 Installed.

Dec 17, 1998@09:08:13

LA*5.2*1001

Install Started for LA*5.2*1001 :

Dec 17, 1998@09:08:13

Installing Routines:

Dec 17, 1998@09:08:20

Installing PACKAGE COMPONENTS:

Installing OPTION

Dec 17, 1998@09:08:21

Running Post-Install Routine: POST^LA23

Option [LA7 MAIN MENU] was added to [LA INTERFACE] MENU

Moving entries in global ^LA("ADL",uid) to ^LA("ADL","Q",uid)

Post install completed

Updating Routine file...

Updating KIDS files...

LA*5.2*1001 Installed.

Dec 17, 1998@09:08:22

LR*5.2*1002

Install Started for LR*5.2*1002 :

Dec 17, 1998@09:08:22

Installing Routines:

Dec 17, 1998@09:09:33

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Running Pre-Install Routine: ^LR72PRE

Pre Install 127 Complete

>>> Deleting OLD 'LAB' ARCHIVE FILES.

DELETING ARCHIVED WKLD DATA FILE.

DELETING ARCHIVED LAB MONTHLY WORKLOADS FILE.

DELETING ARCHIVED BLOOD INVENTORY FILE.

The data dictionaries for these files will be reinstalled during the inits.

Removing 'Reserve 2 field (#8) in WKLD CODE file (#64).

The field will be renamed 'PRICE'.

Removing 'Reserve 2 field (#8) in WKLD CODE SUFFIX file (#64.2).

The field will be renamed 'PRICE'.

Removing existing CPT codes for WKLD CODE file.

.....

Correcting Duplicates or Spelling Errors

Names that begin with 'X*' have codes that are incorrect.

97485 X*Hepatitis C RNA

*** Unable to find WKLD Code [97485.0000] in your file #64 ****

Spelling updates completed.

** Pre Install 163 Complete **

Pre Install Completed

Installing Data Dictionaries:

Dec 17, 1998@09:10:10

Installing Data:

.....

Dec 17, 1998@09:12:40

Installing PACKAGE COMPONENTS:

Installing HELP FRAME

Installing SECURITY KEY

Installing PRINT TEMPLATE

Installing INPUT TEMPLATE

Installing FORM

Installing MAIL GROUP

Installing HL LOWER LEVEL PROTOCOL PARAMETER

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Installing HL LOGICAL LINK

Installing HL7 APPLICATION PARAMETER

Installing PROTOCOL

Installing OPTION

Dec 17, 1998@09:13:04

Running Post-Install Routine: ^LRBLFX72

'National Laboratory File' menu was added to [LR LIM/WKLD] Menu

No data in file # 64.81 - No linking done.
PCE/VSIT ON (#615) field in LABORATORY SITE (#69.9) file
has been set to BOTH PCE/VSIT AND STOP CODES

You can use the [Edit or Print WKLD CODES] option for a printed list
of linked CPT linked NLT codes.

Post install completed

The Laboratory LIM should use the National Laboratory File
Menu [LR70 60-64] to link Laboratory Test to WKLD CODES (#64)
This should be done before 10/1/96 to permit CPT codes to be
passed to the PCE package

Your ASSOCIATED DIVISION field in file 68 has been populated for all accession
areas.

Your new DIVISION field in files 65 & 66 has been populated

You MAY NOW let users back on--HOWEVER, all ANATOMIC PATHOLOGY options should be
DISABLED while I convert the AP accession numbers to their new format

(DO NOT LET USERS BACK ON SYSTEM UNTIL ENTIRE INSTALL IS COMPLETED!)

Your AP Accession Numbers have been converted to their new format

WHEW!!!, What a job!!!

>>> Deleting OLD 'LAB' ARCHIVING options in OPTION file.

LR ARCHIVE CLEAR

REMOVED from 'LR ARCHIVE MENU' menu...
'LR ARCHIVE CLEAR' REMOVED from OPTION file...

LR ARCHIVE DATA

REMOVED from 'LR ARCHIVE MENU' menu...
'LR ARCHIVE DATA' REMOVED from OPTION file...

LR ARCHIVE MENU

REMOVED from 'LRLIASON' menu...
REMOVED from 'LRLIASON' menu...
'LR ARCHIVE MENU' REMOVED from OPTION file...

LR ARCHIVE NP CONVERSION

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NOT ATTACHED TO ANY MENUS AS AN ITEM... NOTHING TO REPOINT OR DELETE!
'LR ARCHIVE NP CONVERSION' REMOVED from OPTION file...

LR ARCHIVE PURGE

NOT ATTACHED TO ANY MENUS AS AN ITEM... NOTHING TO REPOINT OR DELETE!
'LR ARCHIVE PURGE' REMOVED from OPTION file...

LR ARCHIVE READ MEDIA

NOT ATTACHED TO ANY MENUS AS AN ITEM... NOTHING TO REPOINT OR DELETE!
'LR ARCHIVE READ MEDIA' REMOVED from OPTION file...

LR ARCHIVE RESTORE

NOT ATTACHED TO ANY MENUS AS AN ITEM... NOTHING TO REPOINT OR DELETE!
'LR ARCHIVE RESTORE' REMOVED from OPTION file...

LR ARCHIVE SEARCH

NOT ATTACHED TO ANY MENUS AS AN ITEM... NOTHING TO REPOINT OR DELETE!
'LR ARCHIVE SEARCH' REMOVED from OPTION file...

LR ARCHIVE WRITE MEDIA

NOT ATTACHED TO ANY MENUS AS AN ITEM... NOTHING TO REPOINT OR DELETE!
'LR ARCHIVE WRITE MEDIA' REMOVED from OPTION file...

Removing Print template LR ARCHIVE EXTRACT 65
Removing Print template LR ARCHIVE EXTRACT 67.9
Removing Print template LR ARCHIVE EXTRACT 64.1

Linking LRAR ARCHIVE MAIN MENU option to LRLIAISON ...

Added option LRAR ARCHIVE MAIN MENU to LRLIAISON.

Installation of patch LR*5.2*59 completed.

Starting Post Install Process

Option [LR WKLD LOCATIONS] was Added to [LR LIM/WKLD] MENU

Option [LR WKLD ACC AREA LOCATIONS] was Added to [LR LIM/WKLD] MENU

Creating Laboratory OOS Workload Locations

=====
=====
=====
=====
Database Upgrade was INCOMPLETE
=====
=====
=====

PCE/VSIT ON (#615) field in LABORATORY SITE (#69.9) file
has been set to BOTH PCE/VSIT AND STOP CODES

Adding Protocol 'LREPI' to the Emerging Pathogen File (69.5)

Updating Emerging Pathogen File (69.5) with ICD9 Codes

Updating Emerging Pathogen File (69.5) with Etiology

I will auto link file '62.06 ANTIMICROBIAL SUSCEPTIBILITY' to file '64 WKLD CODE.

AMIKACIN	<-----Linked----->	Amikacin	
AMPICILLIN	<-----Linked----->	Ampicillin	
ERYTHROMYCIN	<-----Linked----->	Erythromycin	
NEOMYCIN	<-----Linked----->	Neomycin	
BACITRACIN	<-----Linked----->	Bacitracin	
PENICILLIN	<-----Linked----->	Penicillin	
CLINDAMYCIN	<-----Linked----->	Clindamycin	
METHICILLIN	<-----Linked----->	Methicillin	
VANCOMYCIN	<-----Linked----->	Vancomycin	
GENTAMICIN	<-----Linked----->	Gentamicin	
CHLORAMPHENICOL	<-----Linked----->	Chloramphenicol	
KANAMYCIN	<-----Linked----->	Kanamycin	
CEFAZOLIN	<-----Linked----->	Cefazolin	
TETRACYCLINE	<-----Linked----->	Tetracycline	
CARBENICILLIN	<-----Linked----->	Carbenicillin	
TOBRAMYCIN	<-----Linked----->	Tobramycin	
TRIMETHOPRIM/SULFAMETHOXAZOLE	<-----Not Linked----->		No Match Found
CEFAMANDOLE	<-----Linked----->	Cefamandole	
CEFOXITIN	<-----Linked----->	Cefoxitin	
CEFOTAXIME	<-----Linked----->	Cefotaxime	
NITROFURANTOIN	<-----Linked----->	Nitrofurantoin	
POLYMYXIN B	<-----Not Linked----->		No Match Found
RIFAMPIN	<-----Linked----->	Rifampin	
NOVOBIOCIN	<-----Linked----->	Novobiocin	
CEFOPERAZONE	<-----Linked----->	Cefoperazone	
MEZLOCILIN	<-----Linked----->	Mezlocillin	

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MOXALACTAM	<-----Li nked----->	Moxal actam
NETI LMI CI N	<-----Li nked----->	Neti l mi ci n
PI PERACI LLI N	<-----Li nked----->	Pi peraci l l i n
OXACI LLI N	<-----Li nked----->	Oxaci l l i n
SULFI SOXAZOLE	<-----Li nked----->	Sul fi soxazol e
NAFCI LLI N	<-----Li nked----->	Nafci l l i n
NALI DI XI C ACID	<-----Li nked----->	Nal i di xi c Aci d
CEPHALOTHI N	<-----Li nked----->	Cephal othi n
COLI STI N	<-----Li nked----->	Col i sti n
METRONI DAZOLE	<-----Li nked----->	Metroni dazol e
CEFUROXI ME	<-----Li nked----->	Cefuroxi me
CEFTI ZOXI ME	<-----Li nked----->	Cefti zoxi me
SPECTI NOMYCI N	<-----Li nked----->	Specti nomyci n
TRI METHOPRI M	<-----Li nked----->	Tri methopri m
I MI PENI UM	<-----Not Li nked----->	No Match Found
AUGMENTI N	<-----Li nked----->	Augmenti n
AZLOCI LLI N	<-----Li nked----->	Azl oci l l i n
CEFONI CI D	<-----Li nked----->	Cefoni ci d
CEFTAZI DI ME	<-----Li nked----->	Ceftazi di me
CEFTRI AXONE	<-----Li nked----->	Ceftri axone
CI PROFLOXACI N	<-----Li nked----->	Ci profi oxaci n
OFLOXACI N	<-----Li nked----->	Ofl oxaci n
TI MENTI N	<-----Li nked----->	Ti menti n
AMP/SULB	<-----Not Li nked----->	No Match Found
STREPTOMYCI N	<-----Li nked----->	Streptomyci n
PYRAZI NAMI DE	<-----Li nked----->	Pyrazi nami de
I SONI AZI D	<-----Li nked----->	I soni azi d
ETHAMBUTOL	<-----Li nked----->	Ethambutol
CAPREOMYCI N	<-----Li nked----->	Capreomyci n
CYCLOSERI NE	<-----Li nked----->	Cycl oseri ne
ETHI ONAMI DE	<-----Li nked----->	Ethi onami de
MI OMYCI N	<-----Not Li nked----->	No Match Found

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LABORATORY SITE FILE (#69.9) field PCE/VSIT ON (#615)

is set to transmit CPT codes ONLY - No stop code transmission.

No data in file # 64.81 - No linking done.

Checking File pointer integrity

Use 'Workload code list option [LRCAPD] for a full listing of

ALL NLT Codes used in Laboratory Test File (#60).

You can also use the [Edit or Print WKLD CODES] option for a listing

of linked CPT linked NLT codes.

** Post install completed **

Updating Routine file...

The following Routines were created during this install:
LRBLDPK

Updating KIDS files

LR*5.2*1002 Installed.
Dec 17, 1998@09:13:23
LR*5.2*1003

Install Started for LR*5.2*1003 :
Dec 17, 1998@09:13:23

Installing Routines:

Dec 17, 1998@09:15:44

Running Pre-Install Routine: ^LR90P

Pre Install Step Complete

Installing Data Dictionaries:

Dec 17, 1998@09:15:45

Installing PACKAGE COMPONENTS:

Installing INPUT TEMPLATE

Installing PROTOCOL

Installing Dec 17, 1998@09:15:47

Running Post-Install Routine: ^LR156P

SEARCHING ^LR(

Found 0 occurrences of 7 9s in ^LR

DONE

Fixing ^LR(, ^LR0(68, ^LR0(69, and ^LAC(

lr__0520_02n.txt

All occurrences of 7 9s have been removed and their effects in your data base have been disarmed.

Updating Routine file...

Updating KIDS files...

LR*5.2*1003 Installed.

Dec 17, 1998@09:15:51[1;1H

LR*5.2*1004

13;37H

Install Started for LR*5.2*1004 :

Dec 17, 1998@09:15:51

Installing Routines:

Dec 17, 1998@09:16:08

Running Pre-Install Routine: PRE^LR153

*** Disregard KIDS install failure message ***

*** concerning file INTERIM REPORTS (#64.6)***

Installing Data Dictionaries:

Dec 17, 1998@09:16:20

Installing Data: ...

Dec 17, 1998@09:16:21

Installing PACKAGE COMPONENTS:

Installing SECURITY KEY

Installing OPTION

Dec 17, 1998@09:16:22

Running Post-Install Routine: POST^LR153

*** Post install started ***

*** Adding new Menus ***

Referral Patient Multi-purpose Accession [LRLEDI] option

was added to the Accessioning Menu [LR IN]

Turnaround times By Urgency

was added to Lab statistics menu [LR WKLD

Turnaround times By Urgency

was added to Supervisor workload menu

[LR SUPER/WKLD MENU]

ORDERED TEST COST BY PROVIDER

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was added to Lab statistics menu [LR WKLD

Checking mapping of HL7 Table of Priority to DHCP Urgency file # 62.05

Setting those entries missing a mapping to (R)outine

Setting HL7 CODE (#3) for URGENCY entry STAT to (R)outine

Setting HL7 CODE (#3) for URGENCY entry PATIENT WAITING to (R)outine

Setting HL7 CODE (#3) for URGENCY entry ASAP to (R)outine

Setting HL7 CODE (#3) for URGENCY entry PRE-OP to (R)outine

Setting HL7 CODE (#3) for URGENCY entry ROUTINE to (R)outine

Re-Indexing RESULT NLT CODE field 64.1 of file 60

.....

*** Post install completed ***

Updating Routine file...

Updating KIDS files...

LR*5.2*1004 Installed.
Dec 17, 1998@09:16:29

Not a VA primary domain

NO Install Message sent [1;1H

LA*5.2*1002
20;26H

Install Started for LA*5.2*1002 :
Dec 17, 1998@09:16:29

Installing Routines:

Dec 17, 1998@09:16:33

Running Pre-Install Routine: PRE^LA27

--- Starting Pre Install ---

--- No action necessary ---

--- End Pre Install ---

Installing Data Dictionaries:

Dec 17, 1998@09:16:35

Installing Data:
Dec 17, 1998@09:16:35

Installing PACKAGE COMPONENTS:

Installing PRINT TEMPLATE

Installing SORT TEMPLATE

lr__0520_02n.txt

Installing INPUT TEMPLATE

Installing OPTION

Dec 17, 1998@09:16:37

Running Post-Install Routine: POST^LA27

--- Starting Post Install ---

--- Checking if Lab Messaging Error Log needs converting ---

--- Finished Lab Messaging Error Log Conversion ---

--- Checking if LAB SHIPPING EVENT file needs converting ---

--- Finished LAB SHIPPING EVENT Conversion ---

Lab Shipping Menu [LA7S MAIN MENU] Option

was added to the Laboratory DHCP Menu [LRMENU]

Lab Shipping Management Menu [LA7S MGR MENU] Option

was added to the Lab Liaison menu [LRLIAISON]

--- Setting up mail group LAB MESSAGING ---

Mail group LAB MESSAGING setup SUCCESSFUL

*** NOTE: Remember to schedule option LA7TASK NIGHTY ***

--- End Post Install ---

Updating Routine file...

Updating KIDS files...

LA*5.2*1002 Installed.

Dec 17, 1998@09:16:38

Not a VA primary domain

NO Install Message sent [1;1H

LR*5.2*1005

20;26H

Install Started for LR*5.2*1005 :

Dec 17, 1998@09:16:38

Installing Routines:

Dec 17, 1998@09:16:41

Installing PACKAGE COMPONENTS:

Installing BULLETIN

Installing MAIL GROUP

Dec 17, 1998@09:16:41

Ir_0520_02n.txt
Running Post-Install Routine: POST^BLRMERGI

Updating Routine file...
Updating KIDS files...

LR*5.2*1005 Installed.
Dec 17, 1998@09:16:42[1;1H
LR*5.2*1006
20;37H

Install Started for LR*5.2*1006 :
Dec 17, 1998@09:16:42

Installing Routines:
Dec 17, 1998@09:17:08

Installing Data Dictionaries:
Dec 17, 1998@09:17:09

Installing PACKAGE COMPONENTS:
Installing OPTION
Dec 17, 1998@09:17:11

Running Post-Install Routine: POST^LR201

Updating Routine file...
Updating KIDS files...

LR*5.2*1006 Installed.
Dec 17, 1998@09:17:12[1;1H
LA*5.2*1003
20;37H

Install Started for LA*5.2*1003 :
Dec 17, 1998@09:17:12

Installing Routines:
Dec 17, 1998@09:17:16

Running Pre-Install Routine: PRE^LA42

--- Starting Pre Install ---
--- No action necessary ---
--- End Pre Install ---

Running Post-Install Routine: POST^LA42

--- Starting Post Install ---
--- No action necessary ---
--- End Post Install ---

Updating Routine file...
Updating KIDS files...
LA*5.2*1003 Installed.

Ir_0520_02n.txt
Dec 17, 1998@09:17:16

Not a VA primary domain

NO Install Message sent

Install Completed

6. POINT OF CONTACT

Jennifer L. Bailey
Division of Information Resources
Tucson, AZ 85701
(520)670-4829
jbailey@hqt.ih.gov

Catherine Moore
Division of Information Resources
Tucson, AZ 85701
(520)670-4829
cmoore@hqt.ih.gov

F. J. Evans
Division of Information Resources
Tucson, AZ 85746
(520)670-4635
fevans@hqt.ih.gov

Michael Loughran
Division of Information Resources
Tucson, AZ 85701
(520)670-4867
mloughran@hqt.ih.gov