# APPENDIX J V/STA BLOOD BANK USER MANUAL ALERTS AND WARNING MESSAGES

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## Alerts and Warning Messages

As with the file structure and documentation, the functional requirements in section IX design safeguard and a detailed trace to the routine, or the field in the data dictionary, and the software requirements specifications earlier in section X (pages X-28 through groupings, i.e. donor, inventory and patient. This listing provides a description of the X-58), the listing of alerts and warning messages has been divided into the same which controls the functionality.

including the specific triggers to warning and alert messages. There are seven columns This table elaborates more specifically as to the exact nature of the functionality, in this table. From left to right their functions are:

- WM #: Number assigned to the specific warning message described. This number will be used to link the warning message to a specific validation test plan case.
- Design Safeguard: Extract from a Design Safeguard as documented in Section IX
- Option(s): VISTA option, which executes the warning message when certain conditions
- Controlling field or routine: Actual field or line(s) of code, which control if the Alert or Warning message will be displayed to the user.
- Algorithm: Actual logic, which triggers the Alert or Warning message.
- Alert or Warning message has been omitted for brevity and readability of this report. Warning message. Data displayed during option execution not directly related to the Alert or Warning message: Screen capture of the actual display of the Alert or
- Trace: List of the Intended Use (IU) #'s, Safety Critical Requirement (SCR) #'s, Software Requirement Specification (SRS) #'s associated with the Alert/Warning Message, as well as the Test case detailed in Section XII.

methods of control are utilized in the programming, i.e., control of the data type at the field level by the data dictionary, use of cross references (listing based on specific parameters), Note: Not all control functions are associated with alert or warning messages. Several system security, etc.

#### **Donor Functions**

d Trace	IU# D1 SRS# D10 SCR# D1 TC# D44 D50	IU# D9 SRS # D20 T SCR # D1 TC # D17 D26 D51	     March 1999
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select BLOOD DONOR NAME: <u>BBDONOR, ONE</u> Are you adding <u>BBDONOR</u> , ONE' as a new BLOOD DONOR (the 73RD)? No//	Example # 1: Select BLOOD DONOR NAME: D0706 1 D0706 BBDONOR,ONE M 07-06-47 2 D0706 BBDONOR,ONE M 07-06-47 DALLAS 3 D0706 BBDONER,ONE M 07-06-47 DALLAS CHOOSE 1-3:  Example # 2: Select BLOOD DONOR NAME: BBDONOR,TWO Are you adding 'BBDONOR,TWO' as a new BLOOD DONOR (the 75TH)? Nol/ Y (Yes)  Donors with same last name, first name initial and sex as your entry: BBDONOR,ONE DOB: 07/06/47  Your entry: BBDONOR,TWO DOB: 07/06/47  Want to delete your entry? NOl/ Y (YES) Ok, BBDONOR,TWO deleted.	
Algorithm	Query made to the BLOOD DONOR File (# 65.5) using VA Filemanager for existing entries. If no entries exist, then the user is prompted by Filemanager to confirm if a new record should be created.	A search made to the BLOOD DONOR File (#65.5) cross-references for any possible matches. "B" (Donor name) "C" (Previous Unit ID) "D" (1st letter last name, Month/Day DOB) "G4" (1st letter last name, last 4 # of SSN) All valid choices displayed for selection.	Laboratorv V. 5.2
Controlling field or routine	DNR^LRBLDL G I^LRBLDC VA Filemanager call MIX^DIC1	DNR^LRBLDL G VA Filemanager call MIX^DIC1	_
Option(s)	Donor registration [LRBLDLG] Donor collection/ processing [LRBLDC]	Donor Registration [LRBLDLG]	
Design Safeguard	Creates a unique cumulative donor record for each individual donor/patient, which includes a variety of identification and demographic information.	During registration, checks existing entries in the BLOOD DONOR file (#65.5) for duplicate donors, based on comparison of the name and/or a combination of the first letter of the last name and the date of birth.	J-8
WM #	WMD1	WMD2	  Appendix J-8

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Trace	IU# D10 SRS# D13 SCR# D4 TC#	IU# D14 SRS # D21 SCR # D3 TC # D22 D55 D63
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	2nd tech attempting Donor demographics: Select Donor Option: <u>DD Donor demographics</u> Select BLOOD DONOR NAME: <u>BBDONOR,ONE</u> M 07-06-47 DALLAS  ANOTHER TERMINAL IS EDITING THIS ENTRY: 2nd tech attempting Donor collection/processing Select Donor Option: <u>dc Donor collection/processing</u> Select BLOOD DONOR NAME: <u>BBDONOR,ONE</u> M 07-06-47 DALLAS ANOTHER TERMINAL IS EDITING THIS ENTRY:	UNIT ID: DON001  DON001 assigned to BBDONOR,ONE??  Enter ID that component(s) prepared from donation will be labeled.  Not less than 6 or more than 11 characters  UNIT ID:
Algorithm	Routine LRBLDED calls CK^LRU which attempts to lock the record. If lock is not established after one second, it is because the record is locked by another user. If this is the case, the routine returns the message ANOTHER TERMINAL IS EDITING THIS ENTRY!	Routine LRBLU checks both the BLOOD INVENTORY file (#65) and the BLOOD DONOR file (#65.5) for possible duplicate UNIT ID. Alerts user of duplicate deletes entry and prompts user for new entry.
Controlling field or routine	Routine LRBLDED which calls up CK^LRU	Field 65.54 UNIT ID Input transform triggers routine LRBLU
Option(s)	Donor demographics [LRBLDD] Donor collection/ processing [LRBLDC]	Donor registration [LRBLDLG] Donor collection/ processing [LRBLDC]
Design Safeguard	Locks donor record during data entry to prevent access by another terminal/user	Prevents assignment of "duplicate" unit ID's based on a search of the existing entries in the BLOOD DONOR file (#65.5)
#WM#	WMD3	WMD4

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Trace	IU# D16	SRS # D22	SCR # D11	TC# D36 D37	IU# D16	SRS # D22	SCR # D12	TC# D32	IU# D15	SRS # D23	SCR # D10	TC# D19	
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select BLOOD DONOR NAME: BBDONOR.THREE F 12-31-80 AUGUSTA	Is this the Donor? YES// $\overline{ m (YES)}$	Age:17 Does donor have permission to donate? YES//		Select BLOOD DONOR NAME: BBDONOR, FOUR M 04-10-30 DALLAS	Is this the Donor? YES// (YES)	Age: 67 Does donor have physician permission to donate? YES//		ARRIVAL/APPT TIME: NOW// T@0600 (MAR 02. 1998@06:00)	DONATION/DEFERRAL CODE: WHOLE BLOOD// WHOLE BLOOD DONATION TYPE: HOMOLOGOUS//	HOMOLOGOUS  LAST WHOLE BLOOD DONATION Feb 27, 1998	SORRY NOT 8 WEEKS SINCE LAST DONATION OF WHOLE BLOOD COME BACK ON OR AFTER Apr 24, 1998	Select BLOOD DONOR NAME:
Algorithm	Calculates the number of days from the donor's DOB	AGE=# days/365.25. If AGE<18 user is displayed	confirm to continue.		Calculates the number of days from the donor's DOB	and the day of donation. AGE=# days/365.25. If AGE>64 user is displayed	warning message and asked to confirm to continue.		If donation type =homologous determines the date 55 days	previous to the current donation date. Checks donation records that are after	the date determined above. For each donation, checks the DONATION/ DEFERRAL	CODE entry. If W (whole blood) AND the donation is within the above date range, user is displayed the most	recent WHOLE BLOOD donation and warning message and is exited from the record.
Controlling field or routine	OK^LRBLDG	%DTC			OK^LRBLDG	уд глешан %DTC			A+4^LRBLDC VA Fileman	utility %DTC			
Option(s)	Donor registration	[paragraph]			Donor registration	[pagagaa]			Donor registration	[LRBLDLG]			
Design Safeguard	Calculates age of donor. Displays	less than or=17 yrs old.			Calculates age of donor. Displays	warning ii donor is greater than 65 yrs old.			Donors cannot donate homologous whole	blood more often than every 8 weeks.			
# MM	WMD5				WMD6				WMD7				

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Design Safeguard O <sub>F</sub>	Option(s) Controlling field or Algorithm routine	thm	Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)
Donor registration [LRBLDLG]	OK+4^ LRBLDLG	Software checks for the presence of a YES entry in field 65.5,1 PERMANENT DEFERRAL. If yes, the user is prompted to allow autologous donation. If autologous donation not selected, the user is exited from the option.	
Donor collection/ Processing [LRBLDC]	Input transform of field 65.5,5,1.1	The input transform of field 65.5,5.1.1 DONATION TYPE checks the Donor record for presence of a YES in field 65.5,1 PERMANENT DEFERRAL. If the field is yes, then only allows entry of Autologous or Therapeutic for a DONATION TYPE.	NOW (NO)  DC Donor collection/Processing [LRBLDC]  Select BLOOD DONOR NAME: BBDONOR,FIVE F 04-10-60 DALLAS  NAME: BBDONOR,FIVE// Select DONATION OR DEFERRAL DATE: OCT 22,1992// T APR 07, 1998  DONATION/DEFERRAL CODE: WHOLE BLOOD// WHOLE BLOOD  DONATION TYPE: HOMOLOGOUS// HOMOLOGOUS  Permanent deferral, only autologous or therapeutic donation allowed.??  Choose from: H HOMOLOGOUS

Trace		1U # D25 3? SRS # D34 D9 TC # D59 D59
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	T THERAPEUTIC D DIRECTED DONATION TYPE: HOMOLOGOUS// HOMOLOGOUS Permanent deferral, only autologous or therapeutic donation allowed.?? Choose from: H HOMOLOGOUS A AUTOLOGOUS T THERAPEUTIC D DIRECTED DONATION TYPE: HOMOLOGOUS//	Log-in donor visits  Select BLOOD DONOR NAME: BBDONOR, THREE 12-31-80 AUGUSTA DONATION TYPE: HOMOLOGOUS// A AUTOLOGOUS  RESTRICTED FOR: BBDONOR, THREE// Donor: BBDONOR, THREE DONOR, THREE DONOR, THREE NOT ENTERNT FILE?  If autologous donation donor must be the same as the patient  PATIENT: Select PATIENT NAME: BBDONOR, THREE Select PATIENT NAME: RESTRICTED FOR: RESTRICTED FOR: Autologous donation and RESTRICTED FOR: field not entered. Delete all data from this donation? NO// Y (YES)
Algorithm		If the DONATION TYPE= Autologous or Directed, user prompted for the field RESTRICTED FOR (#65.5,5,1.2). The input transform of this field compares the patient name to valid entries in PATIENT file and compares the DOB of that patient against the DOB of the Donor as entered in the BLOOD DONOR file (#65.5). All must match or else the RESTRICTED FOR entry is deleted.
Controlling field or routine		A^LRBLDLG Input template to the BLOOD DONOR file (#65.5) [LRBLDCP] Input transform of field 65.5,1.2 RESTRICTED FOR. ^LRUG
Option(s)		Donor registration [LRBLDLG] Donor collection/ processing [LRBLDC]
Design Safeguard		Provides link between autologous donor/patient. Limits entry of patient restrictions for autologous units to patients in the PATIENT file (#2).
WM #		WMD10

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Trace	IU# D9 SRS# D35 D9 D9 D9 D60 D60	SRS# D38 D38 SCR# TC# D20
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	JE BLOOD//  J.  1.  1.  1.  1.  1.  1.  1.  1.  1.	Enter DONATION DATE: TODAY// T@1700 ??  Enter DONATION DATE: TODAY// T@1700 ??  Enter DONATION DATE: TODAY// T@1700 ??  T
Algorithm	Once an entry has been made in the RESTRICTED FOR field (#65.5,5,1.2), routine LRUG compares the DOB of the PATIENT file (#2) entry against the DOB field (#65.5/.03) of the Donor file entry. They must match exactly or the entry is deleted.	Fileman call %DT used for DONATION DATE: data input and validation. Input variable %DT(0)=".N" prevents entry of a future date/time. %DT responds with "?" when invalid data is entered.
Controlling field or routine	Input transform of field 65.5,1.2 RESTRICTED FOR.  ^LRUG	Sets %DT(0)=". N" which prevents future date/time entry.
Option(s)	Donor registration [LRBLDLG] Donor collection/ processing [LRBLDC]	Donor registration [LRBLDLG]
Design Safeguard	For Autologous units, compares birth date of donor to birth date of the patient being selected for entry in the RESTRICTED FOR field (#65.5,5,1.2).	Frevents entry of future donation date/time.
# MM	WMD11	N MD 12

Trace	IU # D31 SRS # D38 SCR # D4 TC# NONE	IU# D32 SRS# D39 SCR# D4 TC# D42
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select Donor Option: DC Donor collection/ processing Select BLOOD DONOR NAME: BBDONOR,SEVEN// Select DONATION OR DEFERRAL DATE: APR 8,1998// T+1 APR 09, 1998 ?? Select DONATION OR DEFERRAL DATE: APR 8,1998// T@1800 ??	Select BLOOD DONOR NAME: BBDONOR, EIGHT F 08-20-54 ANYWHERE  DATE/TIME COLLECTION STARTED: T@0915 (APR 08, 1998@09:15) DATE/TIME COLLECTION COMPLETED: T@0850 (APR 08, 1998@08:50) Collection completed time must be later than started time DATE/TIME COLLECTION COMPLETED: APR 8,1998@08:50// T@0914 (APR 08, 1998@09:14) Collection completed time must be later than started time DATE/TIME COLLECTION COMPLETED: APR 8,1998@09:14// T@0920 (APR 08, 1998@09:20)
Algorithm	Input transform sets input variable %DT(0)=".T" which prevents entry of a future date/time. %DT responds with "??" when invalid data is entered.	During execution of input templates [LRBLDCPN] and [LRBLDCPN] and [LRBLDCP] the entry for the field DATE/ TIME COLLECTION STARTED (#65.5.5.4.2) is stored. This is compared with the entry of the DATE/ TIME COLLECTION COMPLETED field (#65.5,4.3). If the DATE/ TIME COLLECTION COMPLETED is earlier than the DATE TIME COLLECTION STARTED, the user is displayed a warning message and prompted again for data entry.
Controlling field or routine	Input transform for field 65.5,5,.01 DONATION OR DEFERRAL DATE uses %DT to validate data input.	Input template to the BLOOD DONOR file (#65.5) [LRBLDCPN] for option Donor registration [LRBLDLG]. Or Input template to the BLOOD DONOR file (#65.5) [LRBLDCP] for option Donor collection/ processing [LRBLDC].
Option(s)	Donor collection/ Processing [LRBLDC]	Donor registration [LRBLDLG] Donor collection/ Processing [LRBLDC]
Design Safeguard	Prevents entry of future donation date/time.	Prevents entry of a collection completion date/time before the collection start date/time.
WM #	WMD13	WMD14

Trace	IU# D42	SRS #	D45	SCR # D19	TC#	D70															
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select Donor Option: Collection disposition/ component preparation	Select BLOOD DONOR: BBDONOR,NINE	01-20-44	Donation date/time: Apr 08, 1998 09:15 Unit ID: STALL01	COLLECTION DISPOSITION: PREPARE	COMPONENT(S)// < <u>CR&gt;</u> DATECHTM F DEOCRESED: A DB & 1008@10.00//	CCR>	Select BLOOD COMPONENT: PLATELETS.20-24 C.	5 DAY EXP	DAID/IIME SIONED: 04/08/88@IU:00// IN (AFR US, 1998@13:50)	Time between collection and storage too		Must enter DATE and TIME Time stored must not be earlier than time	processed Future date/time not allowed	DATE/TIME STORED: 04/08/98@10:00// T@1330 (APR 08, 1998@13:30)		Time between collection and storage too long!!??	Must enter DATE and TIME Time stored must not be earlier than time	processed	Future date/time not allowed. DATE/TIME STORED: 04/08/98@10:00// <u>T@1100</u>	(APR 08, 1998@11:00) EXPIRATION DATE: Apr 13, 1998// <u>(APR 13, 1998)</u>
Algorithm	Routine LRUT: 1. Determines the component	being prepared. 2. Determines the maximum	allowed from field 66,13 for	the product being prepared. 3. Determines the DATE/	TIME COLLECTION COMPLETED from field	65.5,5,4.3.	TIME STORED from current	entry in field 65.5,66,.03. 5. Determines the amount	of time elapsed between the	COMPLETED and the	DAIE/IIME STOKED and compares to the MAXIMUM	allowed.	6. If MAXIMUM COLLECTION PREP	HOURS is exceeded for the	the user is given a warning message and re-prompted	for data entry.					
Controlling field or routine	Input transform of	field 65.6,66,.03	STORED	executes routine	LRUT.																
Option(s)	Collection disposition/	Component preparation	[LKBLDCF]																		
Design Safeguard	Prevents data entry when the maximum	allowable component preparation time has	been exceeded based on entry in the	BLOOD PRODUCT file (#66) field	COLLECTION/ PREP HOURS	(#66,.13).															
WM #	WMD15																				

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Trace	IU# D10 SRS# D13 SCR# D4 TC# D68	IU# D37 SRS# D45 SCR# D4 TC# D79	IU# D38 SRS# D46 TC# D67
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	CP Collection disposition /component preparation Select BLOOD DONOR: BBDONOR,NINE M 01-20-44 DALLAS Donor: BBDONOR,NINE ABO: O Rh: POS Donation date/time: Apr 08, 1998 09:15 Unit ID: STALL01 ANOTHER TERMINAL IS EDITING THIS ENTRY:	Collection disposition/component preparation Select BLOOD DONOR: <u>BBDONOR,TEN</u> M 10-10-40 DALLAS COLLECTION DISPOSITION: PREPARE COMPONENT(S)// DATE/TIME PROCESSED: APR 10,1998@11:57// CPDA-1 RED BLOOD CELLS FRESH FROZEN PLASMA, CPDA-1 Select BLOOD COMPONENT: <u>PLATELETS</u> ?	n F D D ed !
Algorithm	Software attempts to lock the BLOOD DONOR file (#65) record for the donation. If the record is already locked by another user the user is given a warning message and is then exited from the option.	Routine evaluates the total number of components prepared against the entry for the donation in the field 65.5,2,4.1 PRIMARY BAG. If total number of components prepared, is NOT less than the PRIMARY BAG entry, no more components are allowed.	Evaluates current products prepared for RBC product type by looking for a YES in the Pointed to product field CONTAINS RED CELLS (#66,.19). If a new product to be created also has a YES in the Pointed to product field 66,.19, then a warning message is given and the new product is immediately DELETED.
Controlling field or routine	REST+8^ LRBLDC calls up the common utility subroutine CK^LRU	C+2^LRBLDC	C+1^LRBLDC through C+3^LRBLDC
Option(s)	Collection disposition/ Component preparation [LRBLDCP]	Collection disposition/ Component preparation [LRBLDCP]	Collection disposition/ Component preparation [LRBLDCP]
Design Safeguard	Donor record is locked during access to prevent simultaneous data entry for the same donor via a different terminal /user	Evaluates the number of components being prepared against the bag type and prevents entry of more than the maximum that could be logically allowed.	Ensures that no more than ONE component containing RBCs is prepared from a donation.
#WM#	WMD16	WMD17	WMD18

Trace	IU# D39 SRS# D47 SCR# D4 TC#	IU# D13 SRS# D37 SCR# D4 TC# NONE	IU# D10 SRS# D13 SCR# D4 TC# NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Collection disposition/component preparation Select BLOOD DONOR: BBDONOR1.ONE 04-09-40 DALLAS COLLECTION DISPOSITION: PREPARE COMPONENT(S)//-CR> DATE/TIME PROCESSED: APR 13,1998@09:40//-CR> CPDA-1 RED BLOOD CELLS Select BLOOD COMPONENT: FFP ??	Collection disposition/component preparation Select BLOOD DONOR: BBDONOR1,TWO 08-20-54 Not allowed, data entered via old blood donor records option.	LA Lab tests(not ABO/Rh) on donor units Select DONOR ID: DON011 Someone else is editing this record. Select DONOR ID:
Algorithm	The SCREEN on field 65.5,5,66,.01 compares the anticoagulant of the product the user is attempting to prepare with the anticoagulant of the actual collection as recorded in field 65.5,5,2,4.11. If they do not match, VA FileMan responds with "??" and does not allow the component to be processed.	If there is a YES in the field 65.5,5.14, the software returns the warning message that the option cannot be used to enter data on this donor.	Software attempts to lock the BLOOD DONOR file (#65) record for the donation. If the record is already locked by another user, a warning message id displayed and the user is prompted for a new record to enter.
Controlling field or routine	File 65.5 input template [LRBLDC] works with the SCREEN on field 65.5,5,66,.01 BLOOD COMPONENT.	Rest+2 ^LRBLDC	DNR+4^LRBL D T
Option(s)	Collection disposition/ Component preparation [LRBLDC]	Collection disposition/ Component preparation [LRBLDCP]	Lab tests (not ABO/Rh) on donor units [LRBLDT]
Design Safeguard	Excludes preparation of components which are not collected in the proper anticoagulant	Prevents access for entry of collection information on donors entered through 'Old records'	Locks donor record during data entry to prevent simultaneous access for the same donor via a different terminal/user for specified options.
#MM#	WMD19	WMD20	WMD21

Trace	IU# D10 SRS# D13 SCR# D1 TC# NONE	IU# D44 SRS# D13 SCR# D1 TC# D101	IU# D45 SRS# D51 SCR# D21 TC# D96 D106
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	LR Test review/Component labeling/release Select UNIT FOR LABEL/RELEASE: DON011 Someone else is editing this entry! Select UNIT FOR LABEL/RELEASE:	DT ABO/Rh testing of donor units  Select DONOR ID: DON009  ABO: O Rh: POS  ABO INTERPRETATION: B B  B not the ABO group on record Is present testing OK? YES!/ N (NO)  ABO INTERPRETATION: B \( \text{D} \) \( \text{Q} \) \( \text{Q} \)  RH INTERPRETATION: B \( \text{D} \) \( \text{Q} \) \( \text{Q} \)  NEG not the Rh type on record Is present testing OK? YES!/ N (NO)  RH INTERPRETATION: NEGATIVE/ P POSITIVE	Donor unit ABO/Rh recheck Select DONOR ID: DON009 ABO INTERPRETATION RECHECK: AB AB Recheck not equal to original interpretation RH INTERPRETATION RECHECK: NE NEGATIVE Recheck not equal to original interpretation
Algorithm	Software attempts to lock the BLOOD DONOR file (#65) record for the donation. If already locked by another user a warning message is displayed and the user is then prompted for a different record.	Input template has embedded code, which compares the current field entry against the historical record. If the two do not match, the user is given a warning message and prompted to accept the current entry or not.	Input template has embedded code, which compares the current ABO/Rh recheck entry against the original processing results. If they do not match, the user is given a warning message.
Controlling field or routine	P+3^LRBLDR R	BLOOD DONOR file(#65.5) input template [LRBLDABRH]	BLOOD DONOR file (#65.5) input template LRBLDUC
Option(s)	Test review/ component labeling/ release [LRBLDRR]	ABO/Rh testing of donor units [LRBLDAT]	Donor unit ABO/Rh recheck [LRBLDUC]
Design Safeguard	Locks donor record during data entry to prevent simultaneous access for the same donor via a different terminal/user for specified options.	Checks current ABO/Rh results for the specific donor unit against the donor's historical record.	Compares ABO/Rh recheck information to original processing results.
WM #	WMD22	WMD23	WMD24

Trace	IU# D46 SRS# D52 SCR# D21 TC# D104	IU# D50 SRS# D57 SCR# D24 TC# D118 D130 D153 D155 D158 D164 D164 D167
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Donor ABO/Rh Recheck Select DONOR ID: DON009 Tech entering recheck results cannot be the same tech entering the original interpretation.	LA Lab tests(not ABO/Rh) on donor units  Select DONOR ID: DON001  HIV ANTIBODY: NEGATIVE// R. REACTIVE HIV ANTIGEN: NEGATIVE// R. REACTIVE HIV ANTIGEN: NEGATIVE// R. REACTIVE Component(s) released with one or more positive test results!  Select DONOR ID: Following message sent to all users with the LRBLSUPER key:  Blood donor unit ID: DON001 Component(s) released with one or more positive test results! DONATION TYPE: HOMOLOGOUS HIV ANTIBODY:REACTIVE HTLV-I ANTIBODY:REACTIVE HTLV-I ANTIGEN:REACTIVE
Algorithm	Compares the current user to the user who entered the original ABO/Rh results. If they match, the user is given a warning message and is exited from the record.	If field 65.5,66.08 COMPONENT DISPOSITION for current record is RELEASED, variable LRR is set = 1. Then each TDD result is evaluated for a nonnegative entry. If a nonnegative entry exists, a message is created which includes the actual test performed and the result. This message is sent via Mailman to all users with the LRBLSUPER security key. The current user is also displayed a warning message.
Controlling field or routine	BLOOD DONOR file (#65.5) input template LRBLDUC	REST+5 ^LRBLDC MSG^LRBLDT
Option(s)	Donor unit ABO/Rh recheck [LRBLDUC]	Lab tests (not ABO/Rh) on donor units [LRBLDT]
Design Safeguard	Prevents same tech from entering both original & recheck results for ABO/Rh.	If results of TDD marker testing are anything other than "negative" or "non reactive" for units which have already been released to inventory on an emergency basis, a bulletin is automatically generated detailing the test result and sent to all users of the LRBLSUPER key.
# MM	WMD25	WMD26

Trace	IU# D7 SRS# D58 SCR# D4 D6 TC# D129	IU# D54 SRS# D61 SCR# D4 TC# D123
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	User without the LRBLSUPER security key.  Lab tests(not ABO/Rh) on donor units  Select DONOR ID: DON002  UNIT#:DON002 ABO:A Rh:POS Donation date:Jun 10, 1996  One or more components were released. You may not edit existing test results.	Donor phenotyping Select BLOOD DONOR NAME: BBDONORI.SEVEN M Select RBC ANTIGEN PRESENT: Select RBC ANTIGEN ABSENT: Select RBC ANTIGEN ABSENT: E antigen cannot be absent & present?? Select RBC ANTIGEN ABSENT: Select HLA ANTIGEN PRESENT: HLA-A10 ANTIGEN ANTIGEN ABSENT: Select HLA ANTIGEN ABSENT: HLA-A10 ANTIGEN AHG50 HLA-A10 ANTIGEN AHG50 HLA-A10 ANTIGEN AHG50 HLA-A10 ANTIGEN AHG50 HLA-A10 Select HLA ANTIGEN ANTIGEN ANTIGEN HLA-A10 ANTIGEN ANTIGEN ABSENT:
Algorithm	If field 65.5,66.08 COMPONENT DISPOSITION for the current record is RELEASED, variable LRR is set = 1. Later, if the component has been released the software checks the security keys of the current user. If the LRBLSUPER key is not assigned to the user, the user is prompted with a message, denied access to edit any results, and exited from record.	Since entries to the fields RBC ANTIGEN PRESENT (#65.56) and RBC ANTIGEN ABSENT (#65.57) are pointers to the same file, the input template contains code which examines the corresponding RBC/HLA ANTIGEN PRESENT/ ABSENT field within the BLOOD DONOR file (#65.5). If the identical pointer entry is entered, the user is given an alert message and does not allow the data to be entered.
Controlling field or routine	CKRL^LBLDD T REST+7 ^LRBLDC	BLOOD DONOR file (#65.5) input template LRBLPAG.
Option(s)	Lab tests (not ABO/Rh) on donor units [LRBLDT]	Donor phenotyping [LRBLDPH]
Design Safeguard	Prevents editing of results after components are released unless the user has a higher level of security access.	Prevents entry of the same antigen as 'present' and 'absent'
#WM#	WMD27	WMD28

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Trace	IU# D10 SRS# D13 SCR# D4 TC#	IU# D58 SRS # D65 SCR # D21 TC # TC # D139 D151	IU# D56 SRS# D66 SCR# D21 TC# D152	Appendix J-21
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	DP Donor phenotyping Select BLOOD DONOR NAME: BBDONOR1,THREE ANOTHER TERMINAL IS EDITING THIS ENTRY: Select BLOOD DONOR NAME:	Review-label-release components  Select UNIT FOR LABEL/RELEASE: DON010  Donor ABO (B) is different from unit ABO (O).  Resolve discrepancy.  Donor Rh (POS) is different from unit Rh (NEG). Resolve discrepancy.  Select UNIT FOR LABEL/RELEASE:	LR Test review/Component labeling/release Select UNIT FOR LABEL/RELEASE: DONO10 Donor ABO (B) is different from unit ABO (O). Resolve discrepancy. Donor Rh (POS) is different from unit Rh (NEG). Resolve discrepancy.  If you continue with label/release of DON010 a message will be sent to all users holding the blood bank supervisor's key. Do you want to continue with label/release of DON010? NO// (NO)  Select UNIT FOR LABEL/RELEASE:	App
Algorithm	Software attempts to lock the BLOOD DONOR file (#65) record for the donation. If the record is already locked the user is given a warning message and is then prompted for a new record.	Current unit ABO/Rh is compared with Donor historical ABO/Rh. If a discrepancy, user is given a warning message and unable to proceed.	Current unit ABO/Rh is compared with Donor historical ABO/Rh. If a discrepancy, user is given a warning message. If user has LRBLSUPER key then user can proceed after being notified that notification will be sent to users with the Blood Bank Supervisor's key (LRBLSUPER).	Laboratory V. 5.2 Rlood Ronk Heav Manuel
Controlling field or routine	REST^LRBLD P H CK^LRU	REST^LRBLD R R	REST^LRBLD R R	_
Option(s)	Donor henotyping [LRBLDPH]	Test review/ component labeling/ release [LRBLDRR]	Test review/ component labeling/ release [LRBLDRR].	_
Design Safeguard	Locks donor record during data entry to prevent simultaneous access to the same donor via a different terminal/user	Checks current ABO/Rh results for a specific donor unit against the donor's historical record. If ABO/Rh recheck data is to be transferred to the INVENTORY file when the unit is released prevents release if a discrepancy exists.	Checks current ABO/Rh results against donor's historical record. If ABO/Rh recheck, data is NOT to be transferred to the BLOOD INVENTORY file (#65) when the unit is released (according to site parameter in file 69.9), displays a warning message and releases the unit. Requires a higher security access and generates a bulletin.	66
WM #	WMD30	WMD31	WMD32	March 1999

Trace	IU# D56 SRS# D63 SCR# D25 TC# D109	1U# D61 SRS# D68 CCR# D26 TC# D146
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	LR <u>Test review/Component labeling/release</u> Select UNIT FOR LABEL/RELEASE: <u>DON015</u> Must perform ABO/Rh testing !! Select UNIT FOR LABEL/RELEASE:	LR Test review/Component labeling/release  Select UNIT FOR LABEL/RELEASE: DON999 Unit testing: Tech HBsAg: REACTIVE CM 1. CPDA-1 RED BLOOD CELL Jul 17, 1998 13:34 Aug 21, 1998 2. FRESH FROZEN PLASMA, Jul 17, 1998 10:00 Jul 17, 1999 Select COMPONENT by number (2 choices): 1 CPDA-1 RED BLOOD CELL OK to label component? YES// (YES) Component should not be released-Unit quarantined.  COMPONENT DISPOSITION: DISCARD COMPONENT DISP DATE/TIME: NOW// (JUL 17, 1998@13:49)
Algorithm	Software checks for presence of a result in fields 65.5.5.10 ABO Interpretation and 65.5.5.11 RH Interpretation. If both results not entered, user is prompted with warning message and unable to proceed.	All TDD testing results evaluated during execution of option. Software determines the Donation Type of each donation. If donation type is NOT Autologous and ANY of the TDD testing is POSITIVE, unit is quarantined.
Controlling field or routine	REST^LRBLD R R	A^LRBLDRR1
Option(s)	Test review/ component labeling/ release [LRBLDRR].	Test review/ component labeling/ release [LRBLDRR].
Design Safeguard	Checks current ABO/Rh results for the specific donor unit. Prevents release of units to inventory if no current ABO/Rh results exist.	Prevents release of homologous, directed donor and therapeutic phlebotomy units with positive disease marker testing.
# MM	WMD33	WMD34

Trace	IU# D63 SCR# D27 SRS# D73 TC# D133	IU# D64 SCR# D28 SRS# D72 TC# NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	LR Test review/Component labeling/release  To use BAR CODE READER Pass reader wand over a GROUP-TYPE (ABO/Rh) label => <cr> Select UNIT FOR LABEL/RELEASE: DON888 1. CPDA-1 RED BLOOD CELL Jul 22, 1998 08:33 Aug 26, 1998 2. FRESH FROZEN PLASMA, Jul 22, 1998 08:33 Jul 22, 1999 Select COMPONENT by number (2 choices): 1 CPDA-1 RED BLOOD CELL OK to label component? YES// (YES) Select UNIT FOR LABEL/RELEASE: DON888 1. CPDA-1 RED BLOOD CELL labeled Jul 22, 1998 08:33 Aug 26, 1998 2. FRESH FROZEN PLASMA, Jul 22, 1998 08:33 Jul 22, 1999 Select COMPONENT by number (2 choices): 1 CPDA-1 RED BLOOD CELL Select COMPONENT by number (2 choices): 1 CPDA-1 RED BLOOD CELL Since you labeled component someone else must release to inventory</cr>	Select UNIT FOR LABEL/RELEASE: DON888  1. CPDA-1 RED BLOOD CELL labeled Jul 22, 1998 08:33 Aug 26, 1998 2. FRESH FROZEN PLASMA, Jul 22, 1998 08:33 Jul 22, 1999 Select COMPONENT by number (2 choices): 2 FRESH FROZEN PLASMA, ABO/Rh LABEL: B NEG ABO/Rh LABEL: ABO/Rh of unit ABO/Rh LABEL:
Algorithm	Software determines if barcode scanner being used. If scanner not used then the current user is compared to the user who labeled the component. If the same user, warning message given and user is exited from the record.	ABO/Rh results of either the scanned donor ABO/Rh label or manually input ABO/Rh on label is compared against the ABO/Rh of the unit as entered by the typing tech. If they do not agree, a warning message is given and the user is prompted again for data entry.
Controlling field or routine	A+14^LRBLD RR 1	X^LRBLDRR1
Option(s)	Test review/ component labeling/ release [LRBLDRR].	Test review/ component labeling/ release [LRBLDRR].
Design Safeguard	Prevents same tech from labeling and releasing unit if process done manually (no bar coded labels)	Verifies accuracy of labeling of ABO/Rh label by comparing labeling to ABO/Rh results for unit ID.
WM#	WMD35	WMD36

Trace	IU# D12 SCR# D4 SRS# D18 TC# D6	IU# D13 SCR# D4 SRS# D19 TC# D5
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	DO Old blood donor records  Select BLOOD DONOR NAME: BBDONORI.EIGHT  Are you adding 'BBDONORI, EIGHT' as a new BLOOD DONOR (the 79TH)? No// Y (Yes)  Select DONATION OR DEFERRAL DATE: 5-3-95  MAY 03, 1995  DONOR UNIT ID: DON001  BON001 assigned to BBDONOR, ONE Enter ID that component(s) prepared from donation will be labeled. Not less than 6 or more than 11 characters  DONOR UNIT ID:	DO Old blood donor records  Select BLOOD DONOR NAME: BBDONOR1.FOUR F 08/20/1954  DONOR PREVIOUSLY ENTERED.  THIS OPTION IS FOR ENTERING OLD DATA ON DONORS NOT PREVIOUSLY ENTERED!
Algorithm	Routine queries both the BLOOD DONOR file (#65.5) and BLOOD INVENTORY file (#65) for matches with the DONOR UNIT ID as entered by user. If a match is found, a warning message is given and the user is prompted for a new DONOR UNIT ID:	The BLOOD DONOR file (#65.5) is queried for the presence of an entry with the same BLOOD DONOR NAME as entered. If there is a match, a warning message is given and the user is exited from the option.
Controlling field or routine	LRBLU+3	G^LRBLDED
Option(s)	Old blood donor records [LRBLDO]	Old blood donor records [LRBLDO]
Design Safeguard	During data entry via old records, checks unit ID's already in the BLOOD INVENTORY File (#65) to identify potential duplicates and/or inappropriate entries.	Prevents access to existing donor records via the Old blood donor records option [LRBLDO]
WM #	WMD37	WMD38

### **Inventory Functions**

Trace	IU# 114 SCR# 11 SRS# 118 TC# IP10 IP11	IU# 118 SCR# 11 SRS# 122 TC# IP42
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	LR Log-in regular (invoices)  Select BLOOD COMPONENT: CPDA-1 RED BLOOD CELLS  UNIT ID: DON999  B POS CPDA-1 RED BLOOD CELLS already in inventory with same Unit ID! Institution: REGION 7 ISC,TX (CHL)  UNIT ID:	LR Log-in regular (invoices)  Select BLOOD COMPONENT: CPDA-1 RED BLOOD CELLS  UNIT ID: DON777 O POS CPDA-1 RED BLOOD CELLS CPDA-1 RED BLOOD CELLS already in inventory with same Unit ID! Institution: REGION 7 ISC, TX (CHL)  DISPOSITION: RETURNED TO SENDER. Re-enter unit in inventory? NO// Y (YES)  UNIT ID:
Algorithm	The BLOOD INVENTORY File (# 65) is searched for possible duplicate Unit ID. If Unit ID already exists, the original record is searched to identify the product type. If the new product type is the same as the previous, then the previous record searched for Disposition. If no disposition or disposition is NOT equal to Return to Supplier or Send elsewhere, a warning message is given and the user is prompted for a new unit ID.	The BLOOD INVENTORY File (# 65) is searched for possible duplicate Unit ID. If Unit ID already exists, the original record searched to identify the product type. If the new product type is the same as the previous, then the previous record searched for Disposition. If no disposition or disposition is equal to Return to Supplier or Send elsewhere, a warning message is given and the user is prompted to re-enter Unit ID.
Controlling field or routine	E+9^LRBLJLG	EN1+1^ LRBLJLG1
Option(s)	Log-in regular (invoices) [LRBLILR]	Log-in regular (invoices) [LRBLILR]
Design Safeguard	Prevents data entry of duplicate Unit ID into the BLOOD INVENTORY file (#65).	Limits re-entry of units to those with dispositions of 'S' (send elsewhere) or 'R' (returned to supplier).
WM #	WMI1	WMI2

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	Trace	IU# 116 SCR# 118 SRS# 119 TC# IP19	IU# 15 SCR# 13 SRS# 111 TC# IP230
Alert or Warning message (User input is Underlined. Computer	generated messages are BOLDED)	LR Log-in regular (invoices)  Select BLOOD COMPONENT: AUTOLOGOUS RED BLOOD CELLS  UNIT ID: DONGGG ABO/Rh: OPOS EXPIRATION DATE/TIME: T+35 (AUG 25, 1998) RESTRICTED FOR: <a href="#">CR&gt;</a> Answer prompt. To quit enter '^' and unit will be deleted.  RESTRICTED FOR: BBPATIENT, ONE  PATIENT: <a href="#">CR&gt;</a> PATIENT: <a href="#">CR&gt;</a> PATIENT: <a href="#">CR&gt;</a> PATIENT: <a href="#">CR&gt;</a> RESTRICTED FOR: BBPATIENT, TWO  PATIENT: DA quit enter '^' and unit will be deleted.  RESTRICTED FOR: BBPATIENT, TWO  PATIENT: DY 05-02-55 000-00-0102  NO NSC VETERAN  BBPATIENT, TWO  (patient accepted)  POS/INCOMPLETE SCREENING TESTS: N NO	Disposition -not transfused Select UNIT ID FOR DISPOSITION: DON555 OPOS CPDA-1 RED BLOOD CELLS ANOTHER TERMINAL IS EDITING THIS ENTRY! Select UNIT ID FOR DISPOSITION:
	Algorithm	The BLOOD PRODUCT (File # 66) field AUTOLOGOUS/DIRECTE D COMPONENT (#66,.25) is evaluated for each Unit ID entered. If this field contains either 1 for Autologous or 2 for Directed, then the BLOOD INVENTORY File (#65) field RESTRICTED FOR (#65,8) is prompted. If no valid entry is made in this field, the user is given a warning message and the record is deleted.	Routine LRBLJD calls CK^LRU which attempts to lock the record. If lock is not established after one second, it is because the record is locked by another user. If this is the case, the routine returns the message ANOTHER TERMINAL IS EDITING THIS ENTRY!
Controlling field or routine		ED+16 ^LRBLJLG	REST~LRBLJD CK^LRU
	Option(s)	Log-in regular (invoices) [LRBLILR]	Disposition-not transfused [LRBLIDN]
	Design Safeguard	For autologous and directed units entered, requires the entry of a patient name in the RESTRICTED FOR field. (#65,8).	Locks unit record during data entry to prevent simultaneous access via a different terminal/user.
	<b>MM</b> #	WMI3	WMI4

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WM #	Design Safeguard	Option(s)	Controlling field or routine	Algorithm	Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Trace
WMI5	Locks unit record during data entry to prevent simultaneous access via a different terminal/user.	Edit unit log-in [LRBLSEL]	LRBLJED CK^LRU	Routine LRBLJED calls CK^LRU which attempts to lock the record. If lock is not established after one second, it is because the record is locked by another user. If this is the case, the routine returns the message ANOTHER TERMINAL IS EDITING THIS ENTRY!	LI Edit unit log-in Select BLOOD INVENTORY UNIT ID: DON555 OPOS CPDA-1 RED BLOOD CELLS ANOTHER TERMINAL IS EDITING THIS ENTRY! Select BLOOD INVENTORY UNIT ID:	IU# 15 SCR# 13 SRS# 111 TC# NONE
WMIG	Locks unit record during data entry to prevent simultaneous access via a different terminal/user.	Edit unit- patient fields [LRBLSEC]	LRBLJED CK^LRU	Routine LRBLJED calls CK^LRU which attempts to lock the record. If lock is not established after one second, it is because the record is locked by another user. If this is the case, the routine returns the message ANOTHER TERMINAL IS EDITING THIS ENTRY!	PI Edit unit - patient fields  Select BLOOD INVENTORY UNIT ID: DON555 OPOS CPDA-1 RED BLOOD CELLS  ANOTHER TERMINAL IS EDITING THIS ENTRY:  Select BLOOD INVENTORY UNIT ID:	1U# 15 SCR# 13 SRS# 111 TC# 253
WMI7	Locks unit record during data entry to prevent simultaneous access via a different terminal/user.	Edit unit disposition fields [LRBLSED]	LRBLJED CK^LRU	Routine LRBLJED calls CK^LRU which attempts to lock the record. If lock is not established after one second, it is because the record is locked by another user. If this is the case, the routine returns the message ANOTHER TERMINAL IS EDITING THIS ENTRY!	DI Edit unit disposition fields Select BLOOD INVENTORY UNIT ID: DON555 OPOS CPDA-1 RED BLOOD CELLS ANOTHER TERMINAL IS EDITING THIS ENTRY! Select BLOOD INVENTORY UNIT ID:	1U# 15 SCR# 13 SRS# 111 TC# 255
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Trace	IIac	10 # 124	SCR #   13	SRS#	128	TC#	IP3	IU# I25	Ę	SCK#   I3	\$ 0 0 0	130	TC#	1P5				# OI	071	SCR#	13	SRS# I30	TC# NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	generated messages are DOLDED)	LR Log-in regular (invoices) Select BLOOD COMPONENT:	ACD-A KED BLOOD CELLS	Must have at least one supplier for this component	Please have appropriate person enter sunnier(s) in BLOOD PRODICT FILE (#66)		Invoice number: XXX Select BLOOD COMPONENT:	Log-in regular (invoices)	Select BLOOD COMPONENT: <u>CPDA-1 RED</u>	BLOOD CELLS	UNIT ID: DON444	EXPIRATION DATE/TIME: <u>T+36</u> (AUG 29, 1998)	Expiration date exceeds allowable limit! EXPIRATION DATE/TIME: T+35 (AUG 28, 1998)		UNIT ID:			PP Edit pooled blood product	Select POOLED UNIT: DON555 ??			Select POOLED UNIT:	
Algorithm	Augustania.	For each component type entered, the BLOOD PRODUCT file (#66) is	searched for the presence of a valid SUPPLIER. If	there are no suppliers entered in the field	SUPPLIER (#66.01) a warning message is given	and the user is prompted	again to enter a valid supplier.	For the product being entered, the field	MAXIMUM STORAGE	DAYS (#66,.135) 1s evaluated. From this, the	maximum date for product	calculated date is then	compared with the input expiration date/time. If the	input date/time exceeds the	calculated date/time, the	user is given a warning message and is prompted	again to enter an expiration date/time.	For the product type of the	check is made to the field	POOLED PRODUCT	(#66,.27). It this field is not set to YES, then FileMan	does not allow the edit and responds with "??".	
Controlling field or routine		C+3^LRBLJLG						$^{ ext{ED+2}}_{ ext{LRBLJLG}}$										$REST^{\wedge}LRBLJM$					
Option(s)	Cputuis)	Log-in regular (invoices) [LRBLILR]						Log-in regular (invoices)	[LRBLILR]									Edit pooled	product [LRBLJM]				
Design Safeguard	Design Saleguaiu	Restricts selection of blood components to those in the BLOOD	PRODUCT File (#66) with entries in the	SUPPLIER field (#66.01).				Evaluates validity of expiration date based on	the entry in the	MAXIMUM STORAGE DAYS	field (#66,.135) for that	biood Component.						When editing data on	a poored product, minus access to units for which	the component is	defined as a pooled product based on the	entry in the POOLED PRODUCT field in the	BLOOD PRODUCT file (#66).
# MM	# TAT AA	WMI8						6IMM										WMI10					

Trace	IU# 19 SCR# 13 SRS# 113 TC# NONE	IU# 19 SCR# 13 SRS# 113 TC# NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Enter blood inventory typing charges  BBDONOR INSTITUTION  Select BLOOD INVENTORY UNIT ID: DON001?  Select BLOOD INVENTORY UNIT ID:  ENTER BLOod inventory typing charges  REGION 7 ISC,TX (CHL)  Select BLOOD INVENTORY UNIT ID: DON001  APOS CPDA-1 RED BLOOD CELLS  TYPING CHARGE: 12.00//	Edit unit log-in  You are logged in to BBDONOR INSTITUTION Select BLOOD INVENTORY UNIT ID: DON001 ?? Select BLOOD INVENTORY UNIT ID: Edit unit log-in  You are logged in to REGION 7 ISC,TX (CHL) Select BLOOD INVENTORY UNIT ID: DON001 APOS CPDA-1 RED BLOOD CELLS DON001//
Algorithm	Software compares the division of the current user with the division of unit being edited based on the entry in the DIVISION field (#65,.16). If they do not match, the user is not allowed to edit this record.	Software compares the division of the current user with the division of unit being edited based on the entry in the DIVISION field (#65,16). If they do not match, the user is not allowed to edit this record.
Controlling field or routine	SET^LRBLJA	G+3^LRBLJED
Option(s)	Enter blood inventory typing charges [LRBLIL.S]	Edit unit log-in [LRBLSEL]
Design Safeguard	Limits access to those units assigned to the same division as the user.	Limits access to those units assigned to the same division as the user.
# MM	WMI11	WMI12

Trace IIU # I9 SCR # I3 SRS # I13 TC # IP67	IU # 19 SCR # 13 SRS # 113 TC # NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)  Edit unit - patient fields  You are logged in to BBDONOR INSTITUTION Select BLOOD INVENTORY UNIT ID: DONOO! ??  Select BLOOD INVENTORY UNIT ID:  Edit unit - patient fields  You are logged in to REGION 7 ISC, TX (CHL) Select BLOOD INVENTORY UNIT ID: DONOO!  APOS CPDA-1 RED BLOOD CELLS Select PATIENT XMATCHED/ASSIGNED:  Select PATIENT XMATCHED/ASSIGNED:	Edit unit disposition fields  You are logged in to BBDONOR INSTITUTION Select BLOOD INVENTORY UNIT ID: DONOO1 ?? Select BLOOD INVENTORY UNIT ID: Edit unit disposition fields  You are logged in to REGION 7 ISC,TX (CHL) Select BLOOD INVENTORY UNIT ID: DONOO1 APOS CPDA-1 RED BLOOD CELLS DISPOSITION: TRANSFUSE//
Algorithm Software searches the BLOOD INVENTORY File (#65) and compares the division of the current user with the division of unit being edited based on the entry in the DIVISION field (#65,.16). If they do not match, the user is not allowed to edit this record.	Software searches the BLOOD INVENTORY File (#65) and compares the division of the current user with the division of unit being edited based on the entry in the DIVISION field (#65,16). If they do not match, the user is not allowed to edit this record.
Controlling field or routine G+3^LRBLJED	G+3^LRBLJED
Option(s)  Edit Unit-patient fields [LRBLSEC]	Edit unit disposition fields [LRBLSED]
Design Safeguard Limits access to those units in the BLOOD INVENTORY File (#65) assigned to the same division as the user.	Limits access to those units in the BLOOD INVENTORY File (#65) assigned to the same division as the user.
WM # WMI13	WMI14

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Trace   IU #   I31     SCR #     I31     TC#     IP34     IP39     IP39	IU# 113 SRS# G7 G8 117 SCR# 16 TC# IP1
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)  DN Disposition not transfused  Select UNIT ID FOR DISPOSITION: DON333  DISPOSITION: DISCARD  DISPOSITION DATE: NOW// T+1 (JUL 28, 1998)??  Examples of Valid Dates: JAN 20 1957 or 20 JAN 57 or 1/20/57 or 012057  T (for TODAY), T+1 (for TOMORROW), T+2, T+7, etc.  T-1 (for YESTERDAY), T-3W (for 3 WEEKS AGO), etc.  If the year is omitted, the computer uses CURRENT YEAR. Two-digit year assumes no more than 20 years in the future, or 80 years in the past. If only the time is entered, the current date is assumed. Follow the date with a time, such as JAN 20@10, T@10AM, 10:30, etc. You may enter a time, such as NOON, MIDNIGHT or NOW.  Enter only past or present Date/time  DISPOSITION DATE: NOW//	Log-in regular (invoices)  Enter INVOICE (or order) NUMBER: TIMING DATE/TIME RECEIVED: NOW// T (AUG 25, 1998) Must enter a TIME. Future DATE/TIME not allowed.  DATE/TIME RECEIVED: NOW// T-1 (AUG 24, 1998) Must enter a TIME. Future DATE/TIME not allowed.  DATE/TIME RECEIVED: NOW//
Algorithm Input transform of the DISPOSITION DATE field (# 65,4.2) is defined to prevent entry of a future date/time.	At the prompt "DATE/TIME RECEIVED: NOW//", software evaluates the format of the input. If the input does not contain a time element, then the user is given a warning message and prompted again for entry of the data.
Controlling field or routine Input transform of the DISPOSITION DATE field (# 65,4.2)	D^LRBLJLG
Option(s)  Disposition not transfused [LRBLIDN] Edit unit disposition fields [LRBLSED]	Log-in regular (invoices) [LRBLILR]
Design Safeguard Prevents entry of future disposition dates.	Requires both a date and a time to log in an Invoice from an outside supplier.
<b>WM</b> # WMI15	WMI16

Trace	SCR# 113 SRS# 141 TC# 1P28 IP30	IU# I38 SCR # I3 SRS# I42 TC# IP24
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	UC Unit ABO/Rh confirmation  UNIT ID: DON222 ABO: O Rh: POS ABO INTERPRETATION: B B B not the ABO group on record Present testing OK? YES!/ N (NO) ABO INTERPRETATION: OOO RH INTERPRETATION: NEG NEG not the Rh type on record Present testing OK? YES!/ N (NO) RH INTERPRETATION: POSITIVE	Unit ABO/Rh confirmation  Division: BBDONOR INSTITUTION  UNIT ID: DON100 (NOT IN INVENTORY FILE)
Algorithm	When a unit is logged into the BLOOD INVENTORY file the fields ABO GROUP (#65,07) and RH TYPE (#65,08) are set. During the option Unit ABO/Rh confirmation [LRBLIUC] the input template compares the entries made in the fields ABO INTERPRETATION (#65,10) and RH INTERPRETATION (#65,11) with the respective ABO GROUP or RH TYPE. If they do not match, the user is given a warning message and asked to confirm.	Software compares the division of the current user with the division of unit being edited based on the entry in the DIVISION field (#65,.16). If they do not match, the user is not allowed to edit this record.
Controlling field or routine	Input template for the BLOOD PRODUCT file (#65) LRBLIABRH.	E+3^LRBLJCK
Option(s)	Unit ABO/Rh confirmation [LRBLIUC]	Unit ABO/Rh confirmation [LRBLIUC]
Design Safeguard	Compares confirmatory ABO/Rh recheck test results to unit log in information.	Limits access to those units assigned to the same division as the user if data entry is done by unit (not if done by batch)
# MM	WMI17	WMI18

Trace	IU# 149 SCR# 116 SRS# 151 TC# IP49 IP51 IP270	IU# 120 SCR# 110 SRS# TC# TC# IP16
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	DON101	Log-in regular (invoices)       IU #         Log-in regular (invoices)       IV #         DATE/TIME RECEIVED: NOW// (AUG 25, 1998@06:58)       SCH         Invoice number: PLATELETS       SCH         Select BLOOD COMPONENT: PLATELETS.20-24 C, 5 DAY       SRS         Select SUPPLIER: SELF//       I24         Select SUPPLIER: SELF//       TC †         UNIT ID: DON102       TC †         ABO/Rh: O POS       EXPIRATION DATE/TIME: T@1600 (AUG 25, 1998@16:00)         Unit expired or expires today.       UNIT ID:
Algorithm	For the unit being modified, a check is made for an entry in the BLOOD INVENTORY file (#65) field POS/INCOMPLETE SCREENING TESTS (#65,8.1). Another check made to the target BLOOD PRODUCT file (#66) field AUTOLOGOUS/DIRECTE D COMPONENT (#66,25). If the POS/INCOMPLETE SCREENING TESTS (#65,8.1)= YES then the AUTOLOGOUS/DIRECTE D COMPONENT (#66,25) MUST be Autologous or a warning message is given and the user is prevented from modifying the unit.	The date entered at this prompt is compared with the current date. If the dates are the same or the input date is previous to the current date, the user is given a warning message that the unit expires today.
Controlling field or routine	REST+9^ LRBLJD	Input Transform of field EXPIRATION DATE/TIME (#65,.06)
Option(s)	Disposition - not transfused [LRBLIDN]	Log-in regular (invoices) [LRBLILR]
Design Safeguard	Prevents modification of autologous components to non-autologous component if the entry in the field POS/INCOMPL SCREENING TESTS (#65,8.1) = YES.	Alerts user of short dated units
# MM	WMI19	WMI20

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ce	# # # 66	# # # # # # 233	# # * * * * * * * * * * * * * * * * * *
Trace	-	IU# I51 SCR# I3 SRS# I54 IC# IP283	IU# 153 SCR# 13 RS# 156 TC# IP48
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Disposition -not transfused  Select UNIT ID FOR DISPOSITION: DON222 OPOS CPDA-1 RED BLOOD CELLS DISPOSITION: MODIFY DISPOSITION DATE: NOW// (JUL 27, 1998@12:53) Select MODIFY TO: PLAT ?? Select MODIFY TO: 2 Answer with MODIFY TO, or NUMBER Choose from: 47 CPDA-1 RED BLOOD CELLS, DIVIDED UNIT 53 RED BLOOD CELLS, WASHED Select MODIFY TO:	PEDiatric unit preparation  Blood component for pediatric prep: CPDA-1 RED  BLOOD CELLS 04060  PEDIATRIC PRODUCT must be entered for this component and pediatric product selection must be an entry in the Blood Product file.  Blood component for pediatric prep:	Disposition -not transfused Select UNIT ID FOR DISPOSITION: DONOR01 ?? Select UNIT ID FOR DISPOSITION:
Algorithm	The BLOOD PRODUCT file (#66) field MODIFY TO (#66.03) is a "Pointer field". The option uses the VA FileMan call ^DIC to restrict choices to those entries in the MODIFY TO field (#66.03) for the product being modified.	For the product type selected for modification, a check is made for an entry in the field PEDIATRIC PRODUCT (#66,.22). If no entry in this field, a warning message is displayed to the user.	Routine checks for the presence of an entry in the field DISPOSITION (#65,4.1) for the unit being modified. If a disposition is present, the user is not allowed to edit the record using this option.
Controlling field or routine	REST+6 ^LRBLJD VA FileMan	P+3^LRBLPED	REST^LRBLJD
Option(s)	Disposition - not transfused [LRBLIDN]	Pediatric unit preparation [LRBLPED]	Disposition - not transfused [LRBLIDN]
Design Safeguard	Restricts selection of component choices to those defined in the MODIFY TO field (66.03) for the specific component of the unit being modified.	Restricts selection of component choices to those defined in the PEDIATRIC PRODUCT field (66,.22) for the specific component of the unit being modified.	Prevents multiple modifications to the same unit by excluding selection of units which already have a disposition entered.
WM#	WMI21	WMI22	WMI23

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Trace	IU # I54	SCR # 13	SRS # 157	TC # IP60			1U # 155	SCE#	I3	SRS#	159	TC#	NONE						
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Disposition –not transfused	Select UNIT ID FOR DISPOSITION: DON103 DISPOSITION: MODIFY Select MODIFY TO: POOLED PLATELETS 19091 PP 1	Selection 1 (unit ID to pool): DON103 O POS Selection 2 (Unit ID to pool): DON104 OPOS	Selection 3 (Unit ID to pool): DON 105 Selection 4 (Unit ID to pool): DON 106 Selection 5 (Unit ID to pool):	Select UNIT ID number for POOL: < <u>CR&gt;</u> UNITS selected were NOT pooled!	Select UNIT ID FOR DISPOSITION:	Disposition –not transfused	Select UNIT ID FOR DISPOSITION: DON107 OPOS CPDA-1 WHOLE BLOOD	DISPOSITION: MODIFY	VOLUME (ml): 450// Select MODIFY TO: CPDA-1 RED BLOOD CELLS	04060 Select MODIFY TO: FFP FRESH FROZEN	PLASMA, CPDA-1	Select MODIFY TO: <u>CRYOPRECIPITATE</u> , <u>CPDA-1</u>	Select MODIFY TO: <a href="mailto:scients">CCR&gt;</a>	You have selected the following component(s): CRYOPRECIPITATE, CPDA-1 vol(ml): 25 CPDA-1 RED BLOOD CELLS	PDA-1	Total vol(ml): 500	Total volume of components greater than unit. SELECTIONS DELETED TRY AGAIN!	Select MODIFY TO:
Algorithm	Prompts for new unit ID for a pooled product. If	none entered, the new-pooled unit is deleted along with the associated	unit s disposition data.				For each component selected at the MODIFY	TO: prompt, the volume as entered in the VOLUME	(ml) field (66,1) is used to	calculate the total volume of all of the components	combined. This value is	the VOLUME (ml) field	(66,.1) for the original	If greater, a warning	message is given, the modifications are deleted,	and the user is prompted again for data entry.			
Controlling field or routine	ID^LRBLJD1						C^LRBLJDM												
Option(s)	Disposition - not transfused	[LRBLIDN]					Disposition -	[LRBLIDN]											
Design Safeguard	Requires entry of a new unit ID for units	being created, deleting the entire new entry in the BLOOD	in very true (#702) if new unit ID is NOT entered.				If a unit is divided/split into other components.	evaluates the sum of the new unit volumes to	make sure the sum does	not exceed the volume of the original unit.									
# MM	WMI24						WMI25												

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Trace	IU# I57 SCR# I3 SRS# I61 TC# IP47 IP212	IU# I58 SCR# I3 SRS# I62 TC# IP45
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Disposition -not transfused Select UNIT ID FOR DISPOSITION: DON100 OPOS CPDA-1 RED BLOOD CELLS DISPOSITION: MODIFY DISPOSITION DATE: NOW// <cr> (JUL 28, 1998@07:16) Select MODIFY TO: FROZEN RBCS RED BLOOD CELLS New ID #: DON100 RED BLOOD CELLS, FROZEN DATE/TIME RECEIVED: NOW// (JUL 28, 1998@07:17) EXPIRATION DATE/TIME: Jul 28, 2005// (JUL 28, 2005) Expiration date exceeds original unit expiration date Aug 31, 1998 OK? NO// Y (YES)</cr>	Disposition -not transfused  Select UNIT ID FOR DISPOSITION: DON107  DISPOSITION: MODIFY  DISPOSITION DATE: NOW// T+1 (JUL 29, 1998)??  Examples of Valid Dates: JAN 20 1957 or 20 JAN 57 or 1/20/57 or 012057  T (for TODAY), T+1 (for TOMORROW), T+2,  T+7, etc.  T-1 (for YESTERDAY), T-3W (for 3 WEEKS AGO), etc.  If the year is omitted, the computer uses CURRENT YEAR. Two-digit year assumes no more than 20 years in the future, or 80 years in the past.  If only the time is entered, the current date is assumed.  Follow the date with a time, such as JAN 20@10, T@10AM, 10:30, etc.  You may enter a time, such as NOON,  MIDNIGHT or NOW.
Algorithm	Routine calculates a tentative calculation date based on the field DAYS LEFT (#66,.11) for the new product being created. Then this new expiration date is compared with the expiration date of the original product. If the new is later than the original, a warning message is given and the user is asked to confirm.	Input parameter S %DT(0)="-N" prevents the utility %DT from selecting a future date.
Controlling field or routine	LRBLJDA+6	Input transform for field DISPOSITION DATE (#65,4.2) VA FileMan Utility %DT
Option(s)	Disposition - not transfused [LRBLIDN]	Disposition not transfused [LRBLIDN]
Design Safeguard	Evaluates the calculated expiration date of new unit created against the expiration date of unit being modified. Displays alert message if calculated expiration date of new unit exceeds the original expiration date, or in the case of a pooled product, exceed any of the units in the pool.	Prevents entry of future disposition dates.
WM#	WMI26	WMI27

Trace	IU# I59 SCR# I3 SRS# I63 TC# IP283	IU# I65 SCR# I8 SRS# I69 TC# IP264 IP275
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED) Enter only past or present Date/time DISPOSITION DATE: NOW// T@1000 (JUL 28, 1998@10:00)?? Examples of Valid Dates: (Same examples as in previous page) DISPOSITION DATE: NOW// <cr>(JUL 28, 1998@07:38)</cr>	PEDiatric unit preparation  Blood component for pediatric prep: CPDA-1 RED  BLOOD CELLS  Select UNIT: DON108 DON108 (user exited and prompted for new UNIT:)  Select UNIT: DON444 DON444  BON444 O POS 08/28/98 5 DAYS OLD 250 ml  DON444 O POS 08/28/98 Vol(ml): 250  Wt(gm): 270  VOL ('W' to edit weight, 'V' to edit volume): 250ml/	Disposition -relocation Select Patient Name: BBPATIENT,THREE 05-05-55 000000103 Units restricted for BBPATIENT,THREE DON101 FRESH FROZEN PLASMA, CPDA-1
Algorithm	The maximum outdate allowed for a Pediatric Unit is calculated based on the entry in the field MAX AGE FOR PEDIATRIC USE (#66,21) for the product being used. Once the actual Unit ID is entered, the outdate of that unit is compared to the maximum outdate allowed. If the Unit ID has a longer outdate than allowed, the user is prompted for a new Unit ID.	Once the patient name is selected, the BLOOD INVENTORY file (#65) is searched for any entries which have that patient name entered in the RESTRICTED FOR field (#65,8).
Controlling field or routine	OK+2^LRBLPE D	EN^LRBLPUS
Option(s)	Pediatric unit preparation [LRBLPED]	Disposition - relocation [LRBLIDR]
Design Safeguard	If pediatric component is being created, restricts unit selection to those of appropriate age based on the entry in the MAX AGE FOR PEDIATRIC USE field (#66,.21) field for the component of the unit being modified.	Displays alert message for any patients selected who have autologous and/or directed components in inventory.
WW #	WM128	WMI29

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Design Safeguard Displays warning message if unit sele is double cross mate and still assigned to another patient at t time the unit is beir time the unit is beir issued for transfusic issued for transfusic for any patients sele who have an entry i either the ANTIBODIES IDENTIFIED field (#63.075) or BLOOI BANK COMMENTS field (#63.076) For patients with an entry in the ANTIBODIES				(User input is Underlined. Computer	
Displays warning message if unit selected is double cross matched and still assigned to another patient at the time the unit is being issued for transfusion.  Displays alert message for any patients selected who have an entry in either the ANTIBODIES IDENTIFIED field (#63.075) or BLOOD BANK COMMENTS field (#63.076)	Option(s)		Algorithm	generated messages are BOLDED)	Trace
	Disposition - cted relocation ched [LRBLIDR]	W+1^LRBLJL1	All units with a status of "assigned" are stored in the ^LRD(65,"AP", PATIENT,U NIT IEN) cross-reference.	Disposition –relocation Select Patient Name: BBPATIENT.FOUR 01-01-50 000000104	IU# I66 SCR#
	the ng		When a unit is displayed as being assigned for a	Unit assigned/xmatched: Exp date Location  1) FDA0001 CPDA-1 RED BLOOD CE O POS	I18
	011.		patient, it the same unit is also assigned to a different natient a warning message	08/28/1998 Blood Bank *** Also assigned/xmatched to BBPATIENT, FIVE	I70
			is displayed.	DATE/TIME UNIT RELOCATION: NOW//	TC# IP190
	age Disposition -	LRDPA+6	During patient lookup for a Blood Bank accession area.	Disposition –relocation	1U # 167
			software searches for	Select Patient Name: BBPATIENT, TWO 05-02-55	i c
IDENTIFIED field (#63.075) or BLOO BANK COMMENT field (#63.076)  WMI32 For patients with sentry in the ANTIBODIES			entries in the ANTIBODIES	000-00-0102 NO N PATIENT LOCATION: ???// <u>3E</u> 3 EAST	SCK # I19
			IDENTIFIED field	Antibody present: ANTI E	# DQD
			multiple field are		I71
,			arsprayea.	Units restricted for BBPATIENT, TWO SELF10	TC#
- ,					IP173
ANTIBODIES	n Disposition - relocation	C^LRBLJL	During relocation episode for each unit, when the	Disposition -relocation	# NI 169
INPARTETED GALA	[LRBLIDR]		patient has an entry in the	Select Patient Name: BBPATIENT, TWO 05-02-55	# d\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
(#63.075) prevents issue	issue		IDENTIFIED field		SCn.# I19
of units not appropriately			(#63.075) a check is made in the RBC ANTIGEN	Unit assigned/xmatched: Exp date Location 1) DON109 CPDA-1 RED BLOOD CE O POS	SRS#
phenotyped.			ABSENT field (65.05) for		173
			presence or tne corresponding antigen	2) DON108 CFDA-1 RED BLOOD CE O FOS 08/13/1998	TC#
			phenotyping. If the	Select (1-2): <u>1</u> 1) DON109 CPDA-1 BED BLOOD CE O POS	IP73
			not entered in this field, a		
			warning message is given and the relocation episode is not allowed.	ERBC ANTIGEN Above antigen(s) not entered in RBC ANTIGEN ABSENT field for DON109 *** UNIT NOT RELOCATED *** Select Patient Name:	

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# MM	Design Safeguard	Ontion(s)	Controlling field or routine	Algorithm	Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Trace
WMI33	Prevents issue if no ABO recheck results are entered for components with the entry in the CONTAINS RED CELLS field (#66,.19)	Disposition - relocation [LRBLIDR]	D+1^LRBLJL	For the product type being relocated, a check is made to the entry in the field CONTAINS RED CELLS (#66, 19). If yes, then the Unit record in the BLOOD INVENTORY file (#65) field ABO INTERPRETATION (#65,10) is checked for an entry. If there is no entry, the user is given a warning message and the relocation episode is not allowed.	Disposition -relocation         Select Patient Name: BBPATIENT.TWO       05-02-55         000000102         Unit assigned/xmatched: Exp date Location         L) DON109       CPDA-1 RED BLOOD CE O POS         08/08/1998         3) DON110       CPDA-1 RED BLOOD CE O POS         09/03/1998         Select (1-3): 3/2         3) DON110         CPDA-1 RED BLOOD CE O POS         09/03/1998         ABO not rechecked for DON110 *** UNIT NOT         RELOCATED ****	IU# I71 SCR# 120 SRS# I75 TC# IP174
WMI34	Prevents issue if no Rh recheck results are entered for Rh negative components with the entry in the CONTAINS RED CELLS field (#66,.19)	Disposition - relocation [LRBLIDR]	D+2^LRBLJL	For the product type being relocated, a check is made to the entry in the field CONTAINS RED CELLS (#66,19). If yes, and the Unit record in the BLOOD INVENTORY file (#65, RH Type field (#65,08) = "NEG", then the field RH INTERPRETATION (#65,11) is checked for an entry. If there is no entry, the user is given a warning message and the relocation episode is not allowed.	Select Patient Name: BBPATIENT, FIVE 05-02-33 000000105 YES SC Unit assigned/xmatched: Exp date Location 1) DON444 CPDA-1 RED BLOOD CE O POS 08/28/1998 2) DON111 CPDA-1 RED BLOOD CE O NEG 09/03/1998 Select (1-2): 2/2 DON111 CPDA-1 RED BLOOD CE O NEG 09/03/1998 Select (1-2): 4/2 Select (1-2): 4/2 Select Patient Name:	IU# IT1 SCR# I20 SRS# I75 TC# IP174

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Trace	IU# I72 SCR # I21 I21 I76 I76 TC# IP244	1U# 172 172 SCR# 121 SRS# 177 TC# IP194
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Disposition -relocation  Select Patient Name: BBPATIENT.TWO 05-02-55 000-00-0102  DATE/TIME UNIT RELOCATION: NOW// (JUL. 30 1998@08:46)  INSPECTION: U UNSATISFACTORY  Are you sure? NO// Y (YES)  No units with incomplete answers or units to be sent from the blood bank with unsatisfactory inspections can be relocated. Relocation entry <deleted></deleted>	Disposition —relocation  Select Patient Name: BBPATIENT, FIVE 05-02-33  Unit assigned/xmatched: Exp date Location 1) #DON109 CPDA-1 RED BLOOD CE 0 POS 08/08/1998  2) #DON444 CPDA-1 RED BLOOD CE 0 POS 08/28/1998  *** Also assigned/xmatched to BBPATIENT, FOUR 000000104  3) DON111 CPDA-1 RED BLOOD CE 0 NEG 09/03/1998  (# unsatisfactory unit) Select (1-3): 1  1) #FDA0003 CPDA-1 RED BLOOD CE 0 POS 08/08/1998  Unit unsatisfactory cannot release.  Select Patient Name:
Algorithm	If UNSATISFACTORY is entered at the INSPECTION: prompt during data input, the user is prompted to confirm. If the UNSATISFACTORY input is confirmed, the user is displayed a warning message and the relocation episode is not allowed.	For the unit being relocated, all previous relocation episodes are checked for the presence of an UNSATISFACTORY entry to the INSPECTION field (#65.03,.02). If present, the user is given a warning message and the unit cannot be relocated.
Controlling field or routine	T+4-6^LRBLJL	L+5-6 ^LRBLJL1 T+7 ^LRBLJL
Option(s)	Disposition - relocation [LRBLIDR]	Disposition - relocation [LRBLIDR]
Design Safeguard	Prevents issue of unit if the inspection is entered as Unsatisfactory for that specific relocation.	Prevents issue of unit if the inspection from any previous relocation of that unit is unsatisfactory.
#WM	WMI35	WMI36

Trace	IU# I73 SCR # I22 SRS # I78 TC # IP205	IU# I74 SCR# I23 SRS# I7 TC# NONE	IU# I75 SCR# I3 SRS# I80 TC# IP186
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Disposition -relocation  Select Patient Name: BBPATIENT,FIVE 05-02-33 000000105 YES SC  Unit assigned/xmatched: Exp date Location 1) DON111 CPDA-1 RED BLOOD CE O NEG 07/29/1998*  (*Expired unit)  DATE/TIME UNIT RELOCATION: NOW//	Disposition -relocation Select Patient Name: BBPATIENT,SIX 05-02-75 Units restricted BBPATIENT,SIX DON112 FRESH FROZEN PLASMA O POS 11/17/1998 Blood Bank This unit needs to be modified before release!	Disposition -relocation  Select Patient Name: BBPATIENT,SIX 05-02-75  Unit assigned/xmatched: Exp date Location 1) DON013 FRESH FROZEN PLASMA B NEG 08/19/1998@07:18 Blood Bank  DATE/TIME UNIT RELOCATION: NOW// T@0600 (AUG 18, 1998@06:00)  Relocation time must be after DATE/TIME unit assigned (08/18/98 07:17)  Select Patient Name:
Algorithm	For each unit assigned to a patient, the EXPIRATION DATE/TIME field (#6506) is evaluated against the current time. If less, the unit is marked with an "*". If any of the units are deemed outdated by the above algorithm, a warning message explaining the "*" is displayed.	For the product type being relocated, a check is made to the BLOOD PRODUCT File (#66) entry for the field MODIFIED BEFORE RELEASE (#66,.14). If the field is YES, then a warning message is given and the user cannot relocate that unit.	The date/time entered at the prompt DATE/TIME UNIT RELOCATION: NOW// is compared with the entry in the field DATE/TIME UNIT ASSIGNED (#65.01,.02) for the unit. If the relocation time is earlier than the assigned time, a warning message is given and the user is exited from the record.
Controlling field or routine	L+9^LRBLJL1	L+10^LRBLJL1	T+2^LRBLJL
Option(s)	Disposition - relocation [LRBLIDR]	Disposition - relocation [LRBLIDR]	Disposition - relocation [LRBLIDR]
Design Safeguard	Evaluates the expiration date of unit and displays warning message if unit is expired when ompared to the current time.	Prevents issue of unit if the component definition in the BLOOD PRODUCT file (#66) has A "YES" in the field MODIFIED BEFORE RELEASE (#66,.14)	Prevents entry of a relocation date/time, which is prior to the date/time the unit was assigned to the patient.
WM #	WMI37	WMI38	WMI39

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Trace	1U# 177 SCR# 13 SRS# 182 TC# IP188	1U# 15 SCR# 13 SRS# 111 TC# IP223
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Disposition -relocation  Select Patient Name: BBPATIENT.SIX 05-02-75  Unit assigned/xmatched: Exp date Location 1) DON013 FRESH FROZEN PLASMA B NEG 08/19/1998@07:18 Blood Bank DATE/TIME UNIT RELOCATION: NOW// (AUG 18, 1998@07:25) INSPECTION: SE  NON-STANDARD LOCATION ! OK ? NO// Y (YES) ISSUED TO/REC'D FROM: DON013 relocated Select Patient Name:	Unit phenotyping  Select BLOOD INVENTORY UNIT ID: DON013 B NEG CPDA-1 RED BLOOD CELLS  ANOTHER TERMINAL IS EDITING THIS ENTRY:  Select BLOOD INVENTORY UNIT ID:
Algorithm	Routine LRUC searches the HOSPITAL LOCATION File (#44) for a match for the input value. If one does not exist, the user is given a chance to accept a non-standard location and is prompted for override.	Routine LRBLJA calls CK^LRU which attempts to lock the record. If lock is not established after one second, it is because the record is locked by another user. If this is the case, the routine returns the message ANOTHER TERMINAL IS EDITING THIS ENTRY!
Controlling field or routine	Input transform to field LOCATION (#65.03,.04) calls routine LRUC.	A^LRBLJA calls up CK^LRU
Option(s)	Disposition - relocation [LRBLIDR]	Unit phenotyping [LRBLIUP]
Design Safeguard	Restricts relocation of units to standard locations within the same associated division, UNLESS user enters a nonstandard location and overrides the check.	Locks unit record during data entry to prevent simultaneous access via a different terminal/user.
WM #	WMI40	WMI41

J-45	
Appendix	

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Trace	IU# 183 SCR# 13 SRS# 187 TC# 1P182	IU# 185 SCR# 126 SRS# 189 TC# 1P273	IU# 186 SCR# 13 SRS# 190 TC# NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Unit phenotyping  Select BLOOD INVENTORY UNIT ID: DON013  B NEG CPDA-1 RED BLOOD CELLS  Select RBC ANTIGEN PRESENT: e// E  E antigen cannot be present & absent??  Select RBC ANTIGEN PRESENT:	Select BLOOD INVENTORY UNIT ID: DON014 O POS AUTOLOGOUS RED BLOOD CELLS One or more screening tests from donation are positive. DELETION NOT ALLOWED! Select BLOOD INVENTORY UNIT ID:	Units release to stock (cancel) by patient Select Patient Name: BBPATIENT,SIX 05-02-75 # Unit ID ABO/Rh Component Exp date Xmatch date Location 1) DON013 B NEG FRESH FROZEN PLASMA, 08/19 07:18 08/18 07:17 8 E  Date/time work completed: NOW// (AUG 18, 1998@08:48)  DON013 not returned to BLOOD BANK.  Cannot release.  Select Patient Name:
Algorithm	During data entry for the field RBC ANTIGEN PRESENT, a check is made to the corresponding field RBC ANTIGEN ABSENT. The same entry cannot be in both fields. Again, during data entry for the field RBC ANTIGEN ABSENT, the same check is made to the corresponding field RBC ANTIGEN PRESENT. If a conflict, a warning message is given.	A check is made to the field POS/INCOMPLETE SCREENING TESTS (#65, 8.1). If YES, a warning message is given and the unit cannot be freed from the autologous donor.	A check is made to the current location of the unit to be released from the patient. If the location does not contain the words "BLOOD BANK", a warning message is given and the user is exited from the record.
Controlling field or routine	Input template LRBLIAG evaluates each RBC ANTIGEN PRESENT and RBC ANTIGEN ABSENT fields for conflicts.	A+2^LRBLJED	REL+1^LRBLJ R
Option(s)	Unit phenotyping [LRBLIUP]	Free autologous/dire cted donor units [LRBLSEE]	Units release to stock (cancel) by patient [LRBLIUR]
Design Safeguard	Prevents entry of the same antigen in the RBC ANTIGEN PRESENT field (#65.04) and the RBC ANTIGEN ABSENT field (#65.05) for the unit being phenotyped.	Prevents release of autologous or directed donor units for allogeneic use for units with a "YES" in the POS/INCOMP. SCREENING TESTS field (#65,8.1).	Prevents release of units from locations other than BLOOD BANK.
WM #	WMI42	WMI45	WMI46

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## Patient Functions

d Trace	IU# P28 SCR# P3 SRS# P28 TC# IP65	IU# P36 SCR# P25 SRS# P36 P36 P37 TC# IP71 IP89	March 1999
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Previous records  Select Patient Name: BBPATIENT, SIX 05-02-75  Select TRANSFUSION RECORD TRANSFUSION DATE/TIME: T-10@0800 AUG 08, 1998@08:00  TRANSFUSION RECORD COMPONENT: CPDA-1  RED BLOOD CELLS  TRANSFUSION RECORD COMPONENT ID:  DON 113  UNIT IN INVENTORY - EDIT TRANSFUSION DATA THERE !?? ANSWER MUST BE 2-12  CHARACTERS IN LENGTH  TRANSFUSION RECORD COMPONENT ID:	Select Patient Name: BBPATIENT.SIX 05-02-75 Select Patient Name: BBPATIENT.SIX 05-02-75 You have just selected the following tests for BBPATIENT.SIX 000-00-0106 entry no. Test Sample 1 TRANSFUSION REQUEST BLOOD All satisfactory? Yes// <cr> (Yes)  LAB Order number: 544  -For Test: TRANSFUSION REQUEST BLOOD Specimen(s) received within past 72 hrs: 08/19/98 06:28 BB 0819 1</cr>	
Algorithm	When this option is used, the input transform of the field COMPONENT ID calls routine EN^LRBLU to search the existing entries in the BLOOD INVENTORY File (#65) for any possible matches. If the same product exists and the same unit ID, the user is given a warning message and exited from the record.	The software calculates the date/time for 72 hrs previous to 'NOW'. The LAB DATA File (#63) entry for the patient is then searched for any/all blood bank specimens which have an entry in the DATE/TIME SPECIMEN TAKEN field (#63.01,.01) after the date/time calculated above. All valid specimens are then displayed to the user.	Laboratory V. 5.2
Controlling field or routine	Input transform for field COMPONENT ID (#63.017,.03) calls EN^LRBLU	VA FileMan date/time utility %DTC EN2^LRBLU	
Option(s)	Previous records [LRBLPER]	Specimen log-in [LRBL/PLOGIN] Blood component requests [LRBL/PCS]	
Design Safeguard	Prevents entry of historical unit information if unit is already in the BLOOD INVENTORY file (#65).	Checks for previous specimens within 72 hrs, regardless of division. Based on a search of the DATE/TIME SPECIMEN TAKEN field (#63.01,.01) for specimens = BLOOD.	J-44
WM #	WMP1	WMP2	Appendix J-44

Laboratory V. 5.2 Blood Bank User Manual

	Trace	IU# P38	P39		SCR#	P17	SRS#	P38	P39		TC#	IP82	IP83														
Alert or Warning message (User input is Underlined. Computer generated	messages are BOLDED)	Specimen log-in	Select Patient Name: BBPATIENT, SEVEN 05-02-55	000000107		You have just selected the following tests for BRPATTENT SEVEN 000-00-0107 entry no	Test Sample	1. TRANSFUSION REQUEST BLOOD		All satisfactory? Yes// (Yes)	Is patient Pre-op? $\underline{Y}$ (YES)		Operation scheduled: Aug 20, 1998	19140	CPT file number: 19140	MASTECTOMY FOR GYNECOMASTIA		Select BLOOD COMPONENT REQUEST: POOLED	PLATELETS// AS-1 RED BLOOD CELLS	REQUESTING PERSON: ME	REQUEST DATE/TIME: $\overline{N}$ (AUG 19, 1998@06:48)	NUMBER OF UNITS: $\overline{5}$		Number exceeds maximum surgical blood	order number (1) for this component	(NO)	70.23
	Algorithm	If "YES" is entered at the	?', and a Surgery is	requested via the Surgery	package, the following are	checked:	The OPERATION	(MSBOS) file (#66.5) is	checked for an entry	matching the CPT code of	the Surgery Requested for	the patient.		If an entry exists, the entry	in field NUMBER OF	UNITS (#66.51,.02) for the	specific component	compared is compared with	current request. It the	current request exceeds the	NUMBER OF UNITS field	entry, a warning message	with override is displayed	to the user.			
Controlling field or	routine	EN^LRBLPCS	Ω																								
	Option(s)	Specimen log-in	Blood component	requests	[LRBLPCS]																						
	Design Safeguard	Evaluates pre-	requests against	audit criteria as	defined in the	OPERATIONS (MSBOS) File (#66.5)																					
	MM #	WMP3																									

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Trace	IU# P40 P41 SCR# P17 SRS# P40 P41 TC# IP75	IU# P22 SCR# P18 SRS# P22 TC# IP84 IP257 IP260
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select Patient Name: BBPATIENT, EIGHT 05-02-55  Select BLOOD COMPONENT REQUEST: FRESH FROZEN PLASMA, CPDA-1// <cr> No PT results No PT results Request still OK? NO// Y (YES) REQUESTING PERSON: ME REQUESTING PERSON: ME REQUEST DATE/TIME: N (AUG 19, 1998@08:57) NUMBER OF UNITS: 3 DATE/TIME UNITS WANTED: N (AUG 19, 1998@08:57) COMPONENT REQUEST REASON: TESTING (TESTING) APPROVED BY: THE MEDICAL DIRECTOR TREATING SPECIALITY: MEDICAL ICU Select BLOOD COMPONENT REQUEST:</cr>	Select Patient Name: BBPATIENT, THREE 05-05-55 BBPATIENT, THREE 1111 A POS Units restricted for BBPATIENT, THREE DON101 FRESH FROZEN PLASMA, CPDA-1
Algorithm	For each component type requested, the BLOOD PRODUCT File (#66) is searched for entries in the fields TESTS TO CHECK (#66.04) or PRE-OP TESTS TO CHECK (#66.08), depending on the user's answer to the prompt Is patient Pre-op?. For each entry in the above appropriate multiple field, the patient's record in the LAB DATA File (#63) is searched for the most recent result. If the result is outside of the criteria defined in the above fields, the user is flagged with an alert message and override. If the order is accepted via override, the input template is also modified to prompt for additional fields for QA data entry.	Autologous/Directed units MUST be associated with a valid patient upon entry into the system. These are then stored in the ^LED(65,"AU",PATIENT, UNIT ID) global. For each patient accessed, this global is searched for possible entries. All entries for the patient are then displayed.
Controlling field or routine	EN3^LRBLPC S	EN^LRBLPUS
Option(s)	Blood component requests [LRBLPCS] Specimen log-in [LRBLPLOGIN]	Blood component requests [LRBLPCS] Specimen log-in [LRBLPLOGIN] Select units for patient [LRBLPIC]
Design Safeguard	Evaluates request against facility defined audit criteria. Flags requests which may be potential inappropriate and allows input of justification	Displays alert message for patients who have autologous and/or directed units in inventory, regardless of division.
WM #	WMP4	WMP5

Trace	IU# P23 SCR# P19 SRS# P23 TC# IP77	IU# P43 SCR # P3 SRS # P43 TC # NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select Patient Name: BBPATIENT,NINE Select BLOOD COMPONENT REQUEST: CPDA-1 RED BLOOD CELLS// CPD RED ??	REMOVE AN accession  Select Accession or UID: BLOOD BANK Accession Date: TODAY//T-1 (AUG 19, 1998) Number part of Accession: \$\frac{7}{2}\$ BBPATIENT,NINE 000-00-0109  BLOOD TRANSFUSION REQUEST ROUTINE Test Complete 08/20/1998@08:26 BB 0819 7 For accession BB 0819 7 Is this the one? NO// \(\frac{YES}{YES}\) For this specimen, remove all associated accessions? NO// \(\frac{YES}{YES}\) CAN'T DO IT. The data has been verified for that log number.
Algorithm	The input transform screens all entries for this field and only allows entries for which the BLOOD PRODUCT File (#66) entries for the fields CAN BE REQUESTED (#66,.15) = YES and the ASSOCIATED DIVISION multiple (#66.1) contains an entry equal to the division of the user.	Before an accession can be removed, a check is made to the field DATE REPORT COMPLETED  (#63AREA_,.03)
Controlling field or routine	Input transform for the field BLOOD COMPONENT REQUEST (#63.084,	DUOUT+6^ LRTSTJAN
Option(s)	Blood component requests [LRBLPCS] Specimen log-in [LRBLPLOGIN]	Remove an accession [LRDELOG]
Design Safeguard	Limits component selection to those for which the CAN BE REQUESTED field in the BLOOD PRODUCT File (#66)=YES and which are assigned to the appropriate division.	Prevents deletion of accession if there is verified data entered for that accession.
WM #	WMP6	WMP7

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Trace	IU# P46 SCR # P1 SRS # P46 TC # IP103 IP106 IP234	IU# P47 SCR# P1 SRS# P47 TC# IP101 IP114 IP117
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Enter test data  Select Accession Number: 8 for Aug 19, 1998 BBPATIENT,NINE ID: 000-00-00109 ABO: O Rh: POS  Specimen: BLOOD  Patient record ABO: O Rh: POS  ABO INTERPRETATION: B B  B not the ABO group on record Is present testing OK? NOV/(NO)  ABO INTERPRETATION: O RH INTERPRETATION: NEG NEG  NEG not the Rh type on record Is present testing OK? NOV/(NO)  RH INTERPRETATION: POS POS  ANTIBODY SCREEN INTERPRETATION: NEG  NEG	Enter test data  Select Accession Number: 1 for Aug 20, 1998 BBPATIENT, TWENTY ID: 000-00-0020 ABO: Rh: Patient record ABO: Rh:  ABO &/or Rh not on file CAUTION!! No checking can be done.  ABO INTERPRETATION: Q O Are you sure? NOW Y (YES) RH INTERPRETATION: POS POS Are you sure? NOW Y (YES) ANTIBODY SCREEN INTERPRETATION: NEG  NEG
Algorithm	The historical record for ABO and Rh testing is stored separately from the current record/accession. When the current specimen record is having the ABO and Rh testing entered, immediately after data entry a check is made to the historical record for the corresponding ABO or Rh. If the two do not match, a warning message is given with a chance to override. The historical record is not updated until someone with the LRBLSUPER key uses a different option to change the historical record.	The historical record for ABO and Rh testing is stored separately from the current record/accession. When the current specimen record is having the ABO and Rh testing entered, immediately after data entry a check is made to the historical record for the corresponding ABO or Rh. If there is no historical record, a warning message is given with a chance to override.
Controlling field or routine	Input template to the LAB DATA File (#63) LRBLSCREEN	Input template to the LAB DATA File (#63) LRBLSCREEN
Option(s)	Enter Test Data	Enter Test Data [LRBLPET]
Design Safeguard	Compares current ABO/Rh interpretations to patient history and displays a warning message if a discrepancy exists.	Displays warning message for patients who have no previous ABO/Rh history.
WM #	WMP8	WMP9

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Trace	IU# P51 SCR# P4 P17 TC# IP104 IP107	IU# P20 SCR # P14 P29 SRS # P20 TC# IP112 IP148
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Enter test data  Select Accession Number: 2 for Aug 25, 1998 BBPATIENT1, ONE ID: 000-00-0111 ABO: O Rh: NEG  Patient record ABO: O Rh: NEG  ABO INTERPRETATION: O// B B not the ABO group on record Is present testing OK? NO// Y (YES)  B not the ABO group of present specimen Is present testing OK? NO// (NO)  ABO INTERPRETATION: O// RH INTERPRETATION: NEG// P POS POS not the Rh type on record Is present testing OK? NO// Y (YES) POS not the Rh type on present specimen Is present testing OK? NO// (NO)  Rp on present specimen Is present testing OK? NO// (NO)	Select Patient Name: BBPATIENT, TWO 05-02-55 1 000-00-0102 Antibody present: ANTI E TRANSFUSION REACTIONS WITHOUT UNIT IDENTIFIED: Jan 15, 1997 ALERGIC
Algorithm	During data entry, if a change is made to an ABO or Rh entry from a previous data entry session, the user is prompted with a warning message and request to confirm the new result.	When a patient's record is accessed, the LAB DATA field ANTIBODIES IDENTIFIED (#63.075) for that patient is searched. Any entries to this field are displayed to the user.
Controlling field or routine	Input template to the LAB DATA File (#63) LRBLSCREEN	LRDPA2+6
Option(s)	Enter Test Data [LRBLPET]	Specimen log-in [LRBLPLOGIN] Blood component requests [LRBLPCS] Select units for patients [LRBLPIC] Enter Test Data [LRBLPET]
Design Safeguard	Compares current ABO/Rh interpretations to current specimen results if previously entered and displays a warning message if a discrepancy exists.	Displays alert message for any patients with a previous antibody history based on the entry in the ANTIBODIES IDENTIFIED field (#63.075).
WM #	WMP10	WMP11

Trace	IU# P10 SCR# P3 SRS# P10 TC# IP105	IU# P65 SCR # P20 P23 P24 SRS # P69 TC# IP207
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Enter test data Select Accession Number: 2 for Aug 20, 1998 BBPATIENT,TWO ID: 00-00-0102 Test: TRANSFUSION REQUEST ANOTHER TERMINAL IS EDITING THIS ENTRY! Select Accession Number:	Select units for patients  Select Patient Name: BBPATIENT1,TWO 01-01-60 000-00-0112  ABO group: Rh type: AGE: 38 DATE OF BIRTH: JAN 1,1960 PATIENT LOCATION: 3E// 3 EAST  No Patient ABO &/or Rh!  Select Patient Name:
Algorithm	Routine LRBLPE attempts to lock the record. If lock is not established after one second, it is because the record is locked by another user. If this is the case, the routine returns the message ANOTHER TERMINAL IS EDITING THIS ENTRY!	For the patient being accessed by the option, a check is made for entries in the current specimen for ABO/Rh typing results. If none are present, the user is given a warning message and is exited from the record.
Controlling field or routine	TEST+3 ^LRBLPE	LRBLPA+4
Option(s)	Enter Test Data [LRBLPET]	Select units for patient [LRBLPIC]
Design Safeguard	Locks the patient record during data entry to prevent simultaneous access via a different terminal/user.	Compares unit ABO/Rh to patient history & prevents unit selection if there is no entry.
WM #	WMP12	WMP13

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Appendix	

Trace	IU # P36 SCR # P16 P25 SRS # P36 P37 TC # NONE	IU# P64 SCR# P25 P22 SRS# P66 TC# IP167
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select units for patients  Select Patient Name: BBPATIENT1,THREE 04-10-30 000-00-0113  Blood component for unit selection: CPDA-1 RED BLOOD CELLS 04060  No patient blood sample within required time Obtain a new sample from the patient for compatibility testing  Blood component for unit selection:	Enter crossmatch results  Select Patient Name: BBPATIENT1,FOUR 10-25-62 000000114  Unit for XMATCHING Exp date Loc 1) DON115 AS-1 RED BLOOD CELLS O NEG 09/25/98 Blood Bank  ABO not rechecked Rh NEG unit not rechecked
Algorithm	For the blood product being requested, if the PATIENT/PRODUCT REQUIREMENT field (#6609) is set for crossmatch, the field PATIENT SPECIMEN AGE ALLOWED is searched for an entry. If no entry, then the entry is assumed to be 72 hrs. The date/time assigned to the PATIENT SPECIMEN AGE ALLOWED field previous to the current time is calculated using VA FileMan utility %DTC. Then, the patient record in the LAB DATA File (#63) the BLOOD BANK subscript field DATE/TIME SPECIMEN TAKEN (#63.01,.01) is searched for any date/time entries after the time determined above. If there are no valid specimens, the user is given a warning message and not allowed to proceed.	For each unit selected for crossmatch, the BLOOD INVENTORY File entries for entries in the ABO INTERPRETATION field (#65,10) and RH INTERPRETATION field (#65,11) if the entry for RH TYPE (#65,08) is NEGATIVE. If either or both of the results are not complete, a warning message is given.
Controlling field or routine	^LRBLPCS1 +10	EN^LRBLPX1
Option(s)	Select units for patient [LRBLPIC]	Enter crossmatch results [LRBLPX]
Design Safeguard	Checks for valid patient specimen based on entry in PATIENT SPECIMEN AGE ALLOWED field (# 66,16) of the BLOOD PRODUCT file (#66) for the specific component requested and which division the specimen is accessioned.	Checks for appropriate confirmatory unit testing. Displays warning message if testing not complete.
WM #	WMP14	WMP15

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Trace	IU# P64 P72 SCR # P25 P31 SRS # P66 P74 TC # IP166	IU# P61 SCR# P25 SRS# P63 TC# NONE
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Enter crossmatch results  Select PATIENT NAME: BBPATIENT1, FOUR  10-25-62 000000114  Unit for XMATCHING Exp date Loc  1) DON115 AS-1 RED BLOOD CELLS O NEG  09/25/98 Blood Bank  ERBC ANTIGEN Above antigen(s) not entered in RBC ANTIGEN  ABSENT field	Select units for patients  Select Patient Name: BBPATIENT, TEN 01-01-99 000000110  Blood component for unit selection: CPDA-1 RED BLOOD CELLS  Select UNIT: DON222 DON222  DON222 DON222 DON222  UNIT OK for BBPATIENT, TEN 000-00-0110?  YES!/ (YES)
Algorithm	If the patient has any entry(ies) in the LAB DATA File (#63) field ANTIBODIES IDENTIFIED (#63.075), a check is made for the unit being crossmatched in the BLOOD INVENTORY File (#65) field RBC ANTIGEN ABSENT Field (#65.05) for presence of the corresponding antigen. If not entered, a warning message is given.	For the product type selected, the value of the VOLUME (ml) field (#66,1) is evaluated against the BLOOD INVENTORY field VOLUME (ml) (#65,11). If the individual unit volume is less than the product average volume, then this volume is displayed to the user.
Controlling field or routine	C^LRBLPX1	^LRBLPUS1
Option(s)	Enter crossmatch results [LRBLPX]	Select units for patient [LRBLPIC]
Design Safeguard	For allogeneic units, checks for appropriate confirmatory unit testing. Displays warning message if testing not complete.	Displays warning message if current volume is less than the average volume for the component.
WM#	WMP16	WMP17

Trace	1U# P71 SCR# P31 SRS# P6 P73 TC# IP225	IU# P68 SCR# P20 P23 P24 SRS# P70 TC# IP238
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Select units for patients  Select Patient Name: BBPATIENT1,FOUR  10-25-62  Component  Units Request date Date wanted Requestor  Blood component for unit selection: AS-1 RED  BLOOD CELLS  Select UNIT: DON115  DON115  Select UNIT:	Enter crossmatch results  Select Patient Name: BBPATIENT1,FIVE 05-02-22 000000115  Unit for XMATCHING Exp date Loc 1) DON116 CPDA-1 RED BLOOD CELLS 0 POS 08/31/98 Blood Bank No patient ABO & /or Rh results (spec date:08/24/98 07:08 acc#:1)  Sorry, must have ABO/Rh results to enter XMATCH results  Select Patient Name:
Algorithm	The patient's record in the LAB DATA File (#63) field ANTIBODIES IDENTIFIED (#63.075) is checked for any entries. Entries are checked for corresponding antigens based on the field CORRESPONDING ANTIGEN/ANTIBODY (#61.3,.04). If there is an entry in this field, and this entry is in the BLOOD INVENTORY File entry for the unit being selected (#65.04), the unit id is only echoed back to the user and cannot be selected.	For the current patient specimen, a check is made for a valid entry in the fields ABO INTERPRETATION (#63.01,10) and RH INTERPRETATION (#63.01,11). If there are no entries in these fields, the user is given a warning message and is exited from the record.
Controlling field or routine	CK+2 ^LRBLPUS1 ALL+3 ^LRBLPUS1	EN+10 ^LRBLPX1 E+2^LRBLPX
Option(s)	Select units for patient [LRBLPIC]	Enter crossmatch results [LRBLPX]
Design Safeguard	For allogeneic units, evaluates unit phenotyping against clinically significant patient antibodies. Prevents selection if corresponding antigen is present in the unit.	Prevents entry of crossmatch interpretation if no ABO/RH results entered on the current specimen.
WM #	WMP18	WMP19

Trace	IU# P69 SCR# P26 SRS# P71 TC# IP243	IU# P82 SCR# P3 SRS# P84 TC# IP215
Alert or Warning message (User input is Underlined. Computer generated messages are BOLDED)	Enter crossmatch results  Select Patient Name: BBPATIENTI, FIVE 05-02-22 000000115  Unit for XMATCHING Exp date Loc  1) DON116 CPDA-1 RED BLOOD CELLS O POS 08/31/98 Blood Bank  No antibody screen results (spec date:08/24/98 07:08 acc#:1)  Antibody screen results not entered. OK to continue? NOI/ (NO)  Select Patient Name:	Blood transfusion results  Select Patient Name: BBPATIENT1,FIVE 05-02-22 000000115  Unit assigned/xmatched: Exp date Loc 1) DON116 CPDA-1 RED BLOOD CELLS 0 POS 08/31/98 3 EAST  DON116 CPDA-1 RED BLOOD CELLS 0 POS 08/31/98 3 EAST  Is this the unit? YES// (YES) DATE/TIME TRANSFUSION COMPLETED: T@1500 (AUG 24, 1998@07:50) DATE/TIME TRANSFUSION COMPLETED: MATE/TIME TRANSFUSION COMPLETED: Aug 24, 1998 07:50? YES// (YES) Select Patient Name:
Algorithm	For the current patient specimen, a check is made for a valid entry in the field ANTIBODY SCREEN INTERPRETATION (#63.01,6). If no entry, the user is given a warning message and opportunity for override.	VA FileMan input variable %DT(0)= ".N". When this occurs, a future date cannot be entered at this prompt.
Controlling field or routine	EN+11 ^LRBLPX1 E+3^LRBLPX	Input transform to field TRANSFUSIO N DATE/TIME (#63.017,.01) prevents the entry of a future date in this field. Uses VA FileMan %DT to enforce.
Option(s)	Enter crossmatch results [LRBLPX]	Blood transfusion results [LRBLPT]
Design Safeguard	Displays warning message if no results entered for the antibody screening on the current specimen.	Prevents entry of future transfusion dates.
WM #	WMP20	WMP21

$BEPAIIENII, ONE 06-29-38 G$ $ABO\ group:\ Rh\ type:$ AGE: 60 DATE OF BIRTH: JIIN 29 1938
; ;
1 ou have just selected the following tests for BBPATIENT1,ONE. 000000111 entry no. Test Sample 1 TRANSFUSION REQUEST
All satisfactory? Yes// <u>(Yes)</u>
LAB Order number: 185242
~For Test: TRANSFUSION REQUEST BLOOD No Patient ABO &/or Rh!
PATIENT ABO/Rh edit
Select Patient Name: BBPATIENT,THREE 05-05-55 000-00-0103
ABO GROUP: A// @
Any component requests, unit's assigned/
present or absent, antibodies identified or blood bank comments must be removed before deletion allowed.
ABO GROUP: A// RH TYPE: POS// @
Any component requests, units assigned/ crossmatched, transfusion records, RBC antigens present or absent, antibodies identified or blood bank comments must be removed before deletion allowed.
RH TYPE: POS//

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Alert or Warning message (User input is Underlined. Computer generated	messages are DOLDED)	Selection of units for a patient		Select Patient Name: BBPATIENT1,ONE	06-29-38 000000111		Blood component for unit selection: <u>CPDA-1 RED</u>	BLOOD CELLS 04060		Results on BB 0825 2 do not match the Patient's	previous ABO/Rh history		Resolve the discrepancy before proceeding		Blood component for unit selection:	
Algomithm	Algorithm	The current specimen entry	for field ABO	INTERPRETATION	(#63.01,10) and ABO	INTERPRETATION	(#63.01,11) are compared to	the patient's historical	record fields ABO GROUP	(#63,.05) and RH TYPE	(#63,.06). If there is a	discrepancy, the user is	given a warning message	and is exited from the	record.	
Controlling field or	routine	R^LRBLPUS														
Ontion(s)	Option(s)	Select units for	patients	[LRBLPIC]												
	Design Saleguard	Prevents selection of	units when ABO/Rh	of current specimen	does not agree with	ABO/Rh of historical	record.									
# M/XX	W IVI #	WMP24														