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**TITLE: TESTING, DEFERRAL & REENTRY REQUIREMENTS**

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**PURPOSE:** To outline the required testing on human donor blood, the deferral protocol associated with reactive test results and the requirements for re-entry. All testing will be performed at a CLIA certified, FDA registered laboratory. No testing is performed on therapeutic donors not for transfusion.

**FORMS:** Donor Lookback/Positive Test Result form  
Recall/Market Withdrawal form  
Autologous Reactive Result Notification form  
Lookback Binder  
Test Requisition  
**Donor Testing Test Request Form**  
Blood Product Recall/Withdrawal Log ITxM Clinical Services.

**PROCEDURE:**

**A. TESTING REQUIREMENTS: To be performed at external testing laboratory**

Samples will be prepared and stored according to manufacturer package inserts.

- **Allogeneic and Autologous**

1. ABO and Rh
2. Antibody Screen (ABS)
3. Syphilis Testing (STS)

VIRAL MARKERS

4. Anti-HTLV I/II
5. HBsAg
6. Anti-HCV
7. Anti-HBc
8. Anti-HIV 1/2., Group O
9. MPX 2.0 NAT : reported as HIVN, HBVN, HCVN
10. WNV NAT (see WNV Testing/Deferral & Reentry Requirements SOP)
11. CHAGAS: (see Chagas Testing/Deferral & Reentry Requirements SOP)
12. ZIKA: (See ZIKA Testing/Deferral and Reentry SOP)

- **Allogeneic**

13. CMV (as required)
14. HLA (as required)
15. DAT (as needed)

- **Supplemental/Further Testing (Allogeneic and Autologous)**

1. HIVN: HIV NAT: from MPX 2.0
2. HCVN: HCV NAT: from MPX 2.0
3. HBVN: HBV NAT: from MPX 2.0
4. HBSN: HBsAg Neutralization
5. HBC2: Anti HBc by 2<sup>nd</sup> manufacturer
6. HCV2: anti-HCV by 2<sup>nd</sup> manufacturer
7. HIV2: Anti-HIV 2
8. WB2: HTLV WB
9. WNV: WNV NAT: ID
10. CRIP: Chagas RIPA
11. STS2: Captia T. Pallidum -G EIA

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**B. DEFERRAL REQUIREMENTS**

Any donor of human blood and blood components who tests reactive/positive to FDA required donor screening tests must be deferred from future donation except as follows:

1. Donor testing Reactive for anti-HTLV I/II or anti-HBc only one time is permitted to donate again without being deferred unless there is further testing using an approved supplemental test.
2. May serve as an autologous donor.
3. Donor has been re-entered into the donor pool under an FDA approved algorithm. (See separate Re-entry schemes.)

**DONOR DEFERRAL ACTIONS:**

1. Positive/Reactive Test results
  - a. Technologist committing test results will generate a donor lookback/positive test result form when final testing is complete.
    - i. Complete unit #, donor ID #
    - ii. Date testing was completed
    - iii. Check reactive/positive test result that applies
    - iv. When QA is not available, perform lookback for in-date components.
      - =LA
      - DL, tab, Reactive Unit Number
      - Print Screen or Shift F1 to print the screen
      - Contact any facility for final disposition of in-date components.
        1. If the in-date component is in CBB's inventory or the contacted facility return the component and discard.
        2. Any components consigned to ITXM (or UPSH, UPGR)
          - a. Complete Blood Product Recall/Withdrawal Log ITxM Clinical Services.
            - Product ID#
            - Product Blood Type, Product Outdate
            - Date/Time of Initial Notification
            - Notified By
            - Reason for Recall/Withdrawal
          - b. Fax form to ITxM's Central Transfusion Service (CTS) at:
            - 412-209-7482 or 412-209-7494
          - c. Call CTS at 412-209-7460, ask for a manager and let them know the form has been faxed.
      - Complete Market Withdrawal, Lookback form
        1. attach screen shots
    - v. Give documents to QA Department

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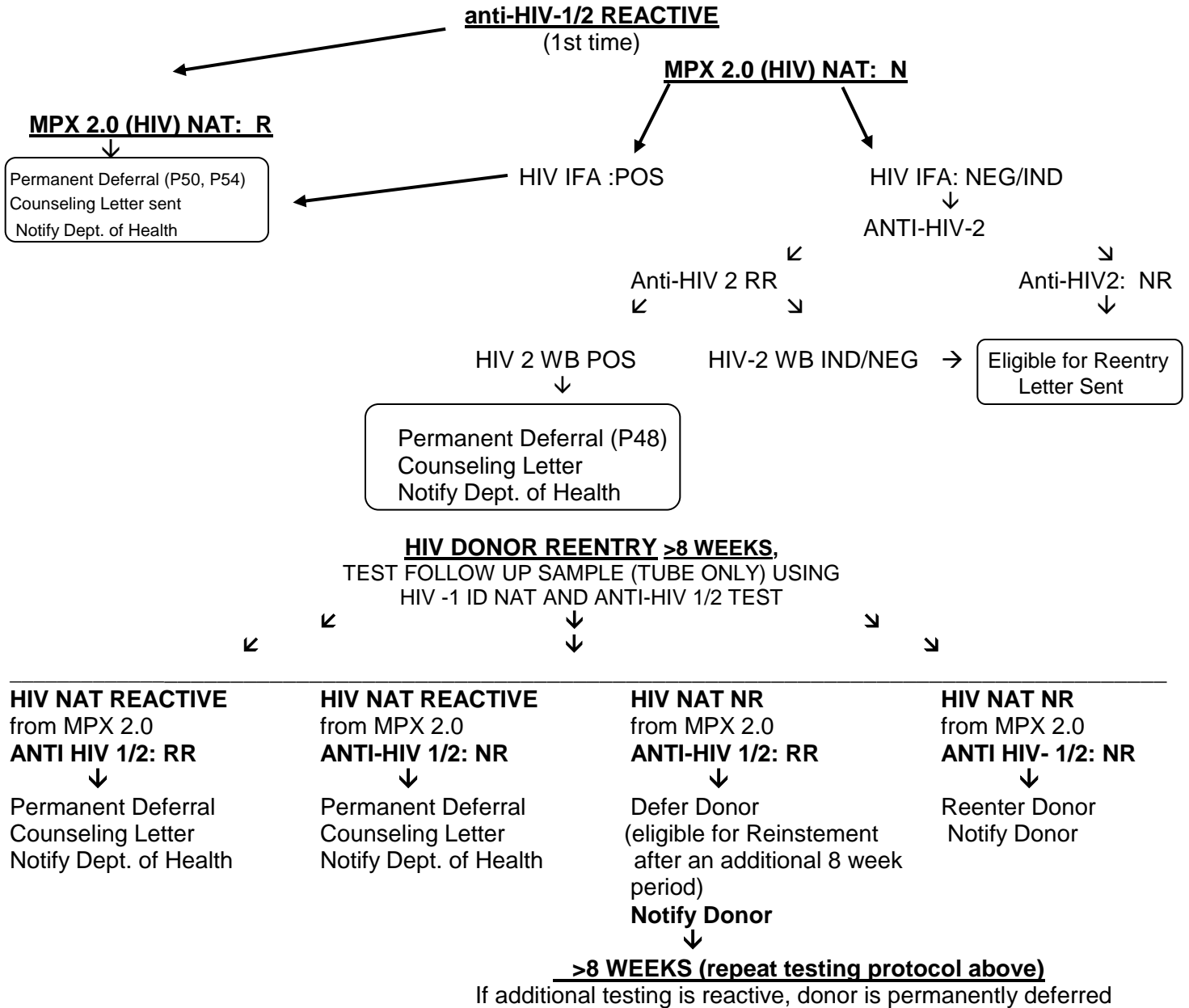
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2. QA Department
  - a. Report results electronically to plasma vendor and/or regulatory agencies as required.
  - b. QA/designee will perform record review using the DV and/or DL screen to determine further action.
    - i. Print screen and attach to Donor Lookback/Positive Test Result form if required
    - ii. Any components consigned to ITXM (or UPSH, UPGR)
      1. Complete Blood Product Recall/Withdrawal Log ITxM Clinical Services.
        - Product ID#
        - Product Blood Type, Product Outdate
        - Date/Time of Initial Notification
        - Notified By
        - Reason for Recall/Withdrawal
      2. Fax form to ITxM's Central Transfusion Service (CTS) at:
        - 412-209-7482 or 412-209-7494
    - iii. Call CTS at 412-209-7460, ask for a manager and let them know the form has been faxed
  - c. If needed, QA or designee will complete a donor notification form and send donor deferral notification letters (see Donor Notifications SOP).

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3. The following indicates actions to be taken with computer records, donor notification and reentry protocol:



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**anti-HTLV-I/II**

(1st Time) Repeat Reactive



Supplemental/Further test (Not performed on Autologous units)

Licensed HTLV I/II Confirmatory

**NEGATIVE/INDETERMINATE**

Donor eligible to donate  
Comments in Computer

**POSITIVE**

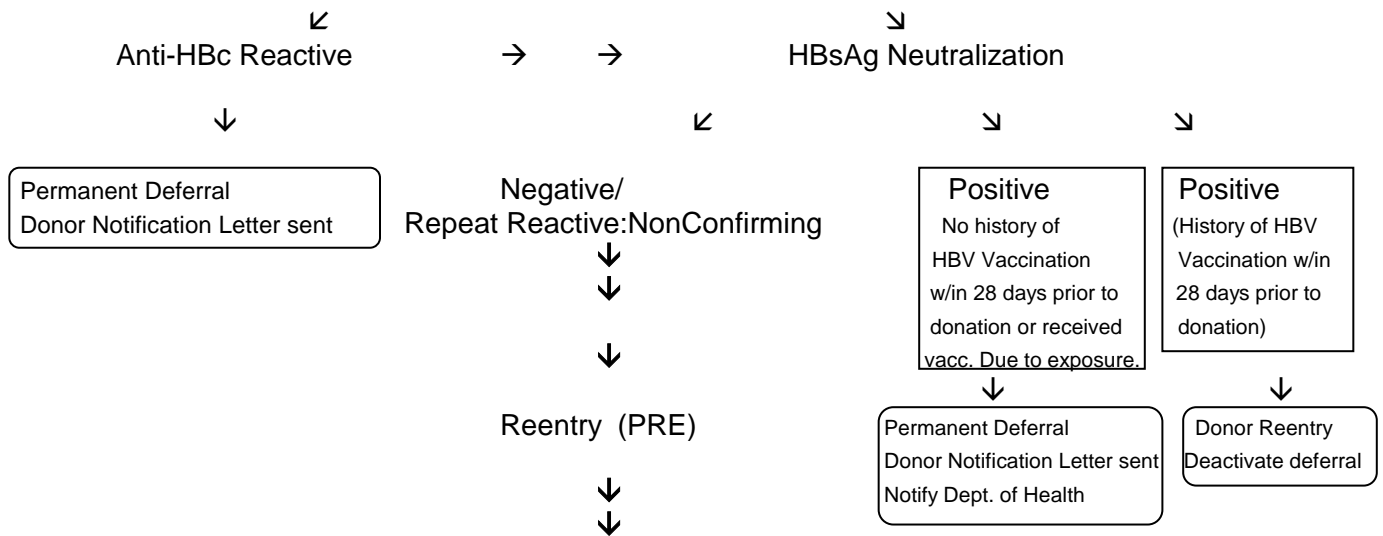
Permanent Deferral (P44)  
Deferral Letter

REPEAT REACTIVE 2ND TIME →

Permanent Deferral (P44), No Re-entry  
Deferral Letter

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**HBsAg (1<sup>st</sup> Time) Reactive (consult HBV NAT algorithm)**



**HbsAg DONOR REENTRY >8 WEEKS,**

**HBsAg NEGATIVE**

Donor Reentry

**HBsAg POSITIVE**

Permanent Deferral (P09)  
Deferral Letter

Note: When Hepatitis B Vaccination is given as prophylaxis following a specific incident of potential exposure: Donor Reentry may occur after

1. It is determined that the donor received the vaccine w/in 28 days of the donation
  2. 12 months after the potential exposure, draw tubes for reentry testing (HBsAg, anti-HBc, and individual donor HBV NAT- all must be negative for reentry.
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**anti-HCV /HCV NAT**



**HCV NAT: R (Discriminatory)**  
**ANTI-HCV: RR**

**HCVNAT: R (Discriminatory)**  
**ANTI-HCV-NR**

**HCVNAT : NR/NOT DONE**  
**ANTI-HCV: RR**  
**RIBA: INDETERMINATE, NEGATIVE**  
**OR NOT DONE**  
**2<sup>nd</sup> ANTI-HCV (different manufacturer): NR**



Permanent Deferral (P45 & P53)  
Deferral Letter  
Notify Dept. of Health

Notify Donor  
Eligible for Reentry (**PRT**)



**>6 MONTHS**

**TEST FOLLOW UP SAMPLE (TUBE ONLY) USING  
HCV ID-NAT AND TWO DIFFERENT, LICENSED ANTI-HCV SCREENING TESTS**



**ID-HCV NAT: R**  
**Regardless of**  
**Anti-HCV Test Results**

**ID-HCV NAT: NR**  
**Both Anti-HCV**  
**Tests RR**

**ID-HCV NAT: NR/**  
**One Anti-HCV test RR**  
**and One Anti-HCV Test NR**

**ID-HCV NAT: NR**  
**Both Anti-HCV**  
**Tests NR**



Permanent Deferral  
(P45 & P53)  
Deferral Letter  
Notify Dept. of Health

Permanent Deferral  
(P45 & P53)  
Deferral Letter

Defer Donor (P45 & PRT)  
Notify Donor (eligible for  
Reinstatement after an  
additional 6 months)

Reenter Donor  
Notify Donor



**> 6 MONTHS (follow protocol above)**

If additional testing is  
Reactive donor is  
permanently deferred (P45/P53)

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**HBV NAT**

HBVN RESULT	HBsAg RESULT <sup>1</sup>	ANTI-HBC RESULT	DONOR AND UNIT
Positive	Reactive/ Confirmed Positive	NR	Discard Unit Donor: Permanent Deferral Donor Not Eligible For Reentry Notify Department of Health
Positive	Reactive/ Confirmed Positive	REACTIVE	
Positive	Reactive/ Not Confirmed	REACTIVE	
Positive	NR	REACTIVE	Discard Unit Donor: Indefinite Deferral Donor May Be Eligible For Reentry
Positive	NR	NR	
Positive	Reactive/ Not Confirmed	NR	

<sup>1</sup>HBsAg Neutralization used for confirmatory

**HBVNAT REENTRY: >6 MONTHS FROM INITIAL REACTIVE SPECIMEN,**

**COLLECT TUBES**



**TEST FOR HBVNAT (from MPX 2.0), HBSAG AND ANTI-HBC**

HBV NAT	HBSAG AND ANTI-HBC RESULT	DONOR
Positive	Any test result	Permanently defer and notify
Negative	Non-reactive	Donor may be reentered
Negative	Repeat reactive	Follow reentry protocol for HBsAg and anti-HBc

**ANTI-HBc (1<sup>st</sup> Time)**

(consult HBV NAT algorithm also)

**N**  
↙  
No Action

**R**  
↘  
Permanent Deferral (P21), Comments  
↙

**ANTI-HBc (by 2<sup>ND</sup> Mfg)**

**R**  
↙  
Permanent Deferral (P21)  
Eligible for Reentry (PRT)  
Deferral Letter  
↓

**N**  
↘  
No Action

**REENTRY VISIT (≥8 WEEKS AFTER SECOND POSITIVE ANTI-HBc)**

**DRAW TUBES ONLY AND TEST FOR ANTI-HBC, HBSAG, AND ID HBVNAT**

**N(ANTI-HBC, HBSAG AND HBVN)**

↙  
Reentry  
Donor Letter

**R (ANTI-HBC, HBSAG AND/OR HBVN)**

↘  
Permanent Deferral (P21)—No Reentry  
Deferral Letter

**Any time the anti-HBc is reactive in conjunction with the HBsAg, the donor will be permanently deferred.**

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**HOSPITAL REPORT OF DAT**



Positive

Permanent Deferral (P57/PRT)

Deferral Letter

Eligible for Reentry



**> 6 Months**

**Test Follow Up Sample (Tube Only)**



Negative

Eligible for Reentry

Donor Notification



Positive

Permanent Deferral (P57)

Deferral Letter (No Reentry)

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**SYPHILIS TESTING**

**Perform FDA-cleared Treponemal screening test (STS)**



Reactive/Positive

Defer Donor (P41)

Discard Donation



Non-Reactive

No Deferral, Release Donation



Confirmatory/Supplemental Test (STS2)

FDA cleared treponemal screening test from different manufacturer on index donation or follow up sample



**POSITIVE**

Indefinite Deferral (P41)

Donor NOT eligible for Reentry

Deferral Letter to donor

Notify Dept. of Health



**NEGATIVE**

Deactivate Deferral

Donor May be Reentered

Notify Dept. of Health

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**AUTOLOGOUS DONORS**

Autologous donors will be handled in the same manner as allogeneic donors with the following exceptions:

2. Notification will be made to referring physician as well as the donor (See Deferral Notification SOP).
3. The Transfusion Service will be notified of positive test results using the Autologous Reactive Result Notification form.
4. Units may be released for autologous use only after authorization is received from the referring physician and Transfusion service approval is on file.
5. Confirmatory test is only performed on 1st donation in a 30-day period. If confirmatory is positive, no further confirmatory testing is done.
6. First time anti-HBc and Anti-HTLVII reactive donors will not have the deferral deactivated



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**C. DONOR RE-ENTRY:**

1. Donor Collections:  
Any donor with an active permanent deferral will not be drawn without further investigation by the screener.  
  
Donors eligible for re-entry will be denoted in the computer by PRE or PRT.
  - **PRT** indicates draw tubes only per the laboratory staff instructions. A special notation on the DR screen will state “Draw tubes for testing - see “DE” for date”.
    - a. Collect tubes per “Collection of Tubes for **Additional Donor Testing**” **SOP**.
    - b. Complete Test Requisition and check appropriate Reentry Testing.
    - c. Return tubes and requisition to Laboratory.
    - d. Laboratory tech will complete test result section and give completed form to supervisor performing review.
    - e. Upon completion of review, requisition will be given/sent to QA.
    - f. QA or Technical Director will determine reentry after review of results.
    - g. DBA or QA will deactivate deferral code if required.
  - **PRE** indicates donor is eligible to be drawn for re-entry.
    - Donor re-entry may occur after all appropriate testing is completed per individual re-entry protocol.
2. Laboratory: when tubes are collected
  - a. Complete **Donor Testing Test Request Form** or order in the Surround Web Interface, as applicable. See **Surround Web Interface: Accessioning SOP**

**CONTROLS:**

1. A monthly review of the Discard Log is performed by the Technical Director to look for appropriate and complete discards.
2. The QA Director will review the same log to verify that appropriate donor action has occurred (deferral code, info comments, letters, etc.).
3. The QA Director will also review all Unit Lookback and Recall/Market Withdrawal forms for appropriate action.
4. QA Director/designee performs a daily check of previous day’s deferrals (see Daily Quality Audits).

**REPORTING & INTERPRETING RESULTS:**

1. Reactive/Positive Results will generate a Donor Lookback Form, which will be filed in the QA Office.
2. Recall/Market Withdrawal Forms will be attached to the Donor Unit Lookback form.
3. Deferral Notification, if appropriate, will take place per Donor Notification SOP.
4. Confirmatory/Supplemental Results are kept on file in the Laboratory.

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References:

FDA Guidance for Industry:

- Recommendations for Donor Screening, Deferral and Product Management to Reduce the Risk of Transfusion Transmission of Zika Virus
- Lookback<sup>®</sup> for Hepatitis C Virus (HCV): Product Quarantine, Consignee Notification, Further Testing, Product Disposition, and Notification of Transfusion Recipients Based on Donor Test Results Indicating Infection with HCV, Rev. 12/10
- Nucleic Acid Testing (NAT) for Human Immunodeficiency Virus Type 1 (HIV-1) and Hepatitis C Virus (HCV): Testing, Product Disposition, and Donor Deferral and Reentry, 12/2017
- Revised Recommendations for Reducing the Risk of Human Immunodeficiency Virus Transmission by Blood and Blood Products
- Revised Preventive Measures to Reduce the Possible Risk of Transmission of Creutzfeldt-Jakob Disease and Variant Creutzfeldt-Jakob Disease by Blood and Blood Products
- Recommendations for Assessment of Donor Suitability and Blood and Blood Product Safety in Cases of Possible Exposure to Anthrax
- Recommendations for Deferral of Donors and Quarantine and Retrieval of Blood and Blood Products in Recent Recipients of Smallpox Vaccine (Vaccinia Virus) and Certain Contacts of Smallpox Vaccine Recipients
- Recommendations for the Assessment of Donor Suitability and Blood Product Safety in Cases of Suspected Severe Acute Respiratory Syndrome (SARS) or Exposure to SARS
- Revised Recommendations for Reducing the Risk of Zika Virus Transmission by Blood and Blood Components, 8.16
- FDA Guidance for Industry: Recommendations for Screening, Testing and Management of Blood Donors and Blood and Blood Components based on Screening Tests for Syphilis, Sept.2014

SOP:

- WNV Testing/Deferral & Reentry Requirements SOP
- Chagas Testing/Deferral & Reentry Requirements SOP
- ZIKA Testing/Deferral and Reentry SOP
- Surround Web Interface: Accessioning SOP
- Collections of Tubes for Additional Donor Testing SOP
- Donor Notification SOP
- Donor Reentry SOP

21 CFR 610.46-48, 42 CFR 482.27(c)

AABB Standards for Blood Banks and Transfusion Services, 7.4.6, 7.4.6.1

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Original Effective Date	Revised by	Revision	Supersedes Revision #
9.10.01	D. Pirschel	Computer action/deferral and Reentry requirements updated for HIV, HCV, anti-HBc in accordance with FDA Guidance	1.010
	D. Pirschel	Remove BRD Union Square address Deleted CUE information	1.011
	D. Pirschel	Include HBVN per FDA Guidance: Use of NAT tests to reduce risk of HBV	1.012
	D. Pirschel	Added: 2 <sup>nd</sup> ANTI-HCV (different manufacturer): NR to HCV flowchart and list of confirmatory/supplemental tests	1.013
	D. Pirschel	Deleted: FTA/Captia G Syphilis and HTLV WB Added: RPRC: TP-PA, HT2: anti-HTLV I/II by different manufacturer	1.014
	J. Vieyra	Deleted: Reactive RPR: mark DILs Change from bi-weekly to monthly review of Discard log	1.015
	D. Pirschel	Deleted: CRIP: Chagas RIPA (unlicensed) Added: CHA2: Chagas by a different manufacturer	1.016
	D. Pirschel	Deleted RPR (alternate NAT & IgM) Technologist performing testing Added: To be performed at external testing laboratory Syphilis Testing (treponemal test) with updated flow chart Technologist committing test results Complete Market Withdrawal, Lookback form Laboratory Complete Indiana Blood Center Client Supplemental Test Request Document: Draw Date Sample ID number Place an X under the desired test. HCV- mark Prism HCV and Donor Reentry HCV HBC- mark Prism HBC, Prism HBs and Donor Reentry HBV (x3) HBsAg- mark Prism HBs and HBs Neut HIV- mark Prism HIV and Donor Reentry HIV	1.017
	T. Collier	Added: When QA is not available	1.018
	D. Pirschel	Deleted: RPRC: TP-PA Perform FDA cleared non-treponemal screening test ↙ <b>POSITIVE</b> ↘ <b>NEGATIVE</b> Added; TPHA: Treponemal Hemagglutination test (for Syphilis)	1.019
	D. Pirschel	Added donor reentry for HBsAG, HBSN due to HBV vaccination in accordance with FDA Guidance: Requalification Method for reentry of donors who test HBsAg positive following a recent vaccination against Hepatitis B Virus Infection, 11/11	1.020
	D. Pirschel	Deleted: ID and Discriminatory MPX flow chart Added: MPX 2.0 NAT : reported as HIVN, HBVN, HCVN from MPX 2.0	1.021
	D. Pirschel	Deleted; HTL2: anti-HTLV I/II by different manufacturer Anti-HTLV-I/II by a different manufacturer Added: <b>Supplemental/Further Testing</b> HBC2: Anti HBc by 2 <sup>nd</sup> manufacturer WB2: HTLV WB Licensed HTLV I/II Confirmatory <b>ANTI-HBc (by 2<sup>ND</sup> Mfg)</b> ZIKA: (See ZIKA Testing/Deferral and Reentry SOP or order in the Surround Web Interface, as applicable. See Accessioning SWI SOP	1.022
	T. Collier	Added: ZIKA: (See ZIKA Testing/Deferral and Reentry SOP CRIP: Chagas RIPA STS2: Captia T. Pallidum -G EIA (STS2) or order in the Surround Web Interface, as applicable. See Accessioning SWI SOP FDA Guidance for Industry: Recommendations for Screening, Testing and Management of Blood Donors and Blood and Blood Components based on Screening Tests for Syphilis, Sept.2014 WNV Testing/Deferral & Reentry Requirements SOP	1.023

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		Chagas Testing/Deferral & Reentry Requirements SOP ZIKA Testing/Deferral and Reentry SOP Accessioning SWI SOP	
	D. Pirschel	Added: Blood Product Recall/Withdrawal Log ITxM Clinical Services. Any components consigned to ITXM (or UPSH, UPGR) Complete Blood Product Recall/Withdrawal Log ITxM Clinical Services. Product ID# Product Blood Type, Product Outdate Date/Time of Initial Notification Notified By Reason for Recall/Withdrawal Fax form to ITxM's Central Transfusion Service (CTS) at: 412-209-7482 or 412-209-7494 Call CTS at 412-209-7460, ask for a manager and let them know the form has been faxed	1.024
9.10.01	D. Pirschel	Deleted: from MPX 2.0 ANTI HCV: RR Added: Regardless of Both Anti-HCV One Anti-HCV test RR Both Anti-HCV Anti-HCV Test Results Tests RR and One Anti-HCV Test NR Tests NR Nucleic Acid Testing (NAT) for Human Immunodeficiency Virus Type 1 (HIV-1) and Hepatitis C Virus (HCV): Testing, Product Disposition, and Donor Deferral and Reentry, 12/2017 AND Ortho	1.025
9.10.01	D. Pirschel	Deleted: Indiana Blood Center (IBC) Client Supplemental Test Request & Labeling Other Than Indiana Blood Center Client Supplemental Test Request Document: Draw Date Sample ID number Place an X under the desired test. HCV- mark Prism AND Ortho HCV and Donor Reentry HCV HBC- mark Prism HBC, Prism HBs and Donor Reentry HBV (x3) HBsAg- mark Prism HBs and HBs Neutralization HIV- mark Prism HIV and Donor Reentry HIV SWI Added: Donor Testing Test Request Form Additional SOP Donor Testing Test Request Form Surround Web Interface: Accessioning SOP Surround Web Interface Collections of Tubes for Additional Donor Testing SOP Donor Notification SOP Donor Reentry SOP	1.026

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REVIEW/APPROVAL/IMPLEMENTATION			
Department Head	Name	Signature	Date
QA Auditor	Deborah McAndrew	<i>Deborah A. McAndrew</i>	10-15-18
Collections Management	<i>Jennifer Stephany</i>	<i>Jennifer Stephany</i>	10-11-18
Technical Director	Tracy Collier	<i>Tracy Collier</i>	10/10/18
APPROVED BY:			
Position	Name	Signature	Date
QA Director	Kristin Kramer	<i>Kristin Kramer</i>	10-15-18
Medical Director	Jeffrey A. Richmond MD	<i>JAR</i>	10-22-18
IMPLEMENTATION DATE:			

REVIEW			
MEDICAL DIRECTOR	DATE	MEDICAL DIRECTOR	DATE

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