Molecular Surveillance

Operations Manual Version 2: September 2007

Blood Center Participants:

- The Blood Center of Wisconsin, Milwaukee, WI
- Blood Centers of the Pacific- University of California- San Francisco, CA
- Hoxworth Blood Center and the University of Cincinnati Medical Center, Cincinnati, OH
- Institute for Transfusion Medicine and LifeSource Blood Services, Pittsburgh, PA
- American Red Cross Biomedical Services, Scientific Support Office
- New York Blood Center
- United Blood Services

Coordinating Center:

Westat, Rockville, MD

Central Repository:

SeraCare BioServices, Gaithersburg, MD <u>Central Laboratory:</u>

Blood Systems Research Institute (BSRI), San Francisco, CA Blood Systems Laboratory (BSL), Tempe, AZ

Sponsored by: The National Heart, Lung, and Blood Institute (NHLBI) National Institutes of Health (NIH)

MEMORANDUM



TO: List*

October 4, 2007

FROM: Danielle Carrick Deborah Todd Tesa Kochie

SUBJECT: MS Manual of Operations - Version 2

Attached please find Version 2 of the REDS-II Molecular Surveillance (MS) Manual of Operations (MOP). This version replaces MOP Version 1, September 2006 that you received. This MOP is also available for download in PDF format on the REDS-II website under Documents/MOP.

A brief summary of the major changes to MS MOP Version 1 is listed below. Please consult the appropriate chapters and its accompanying exhibits for more detailed explanations and directions.

> Specimen Processing

BSRI has developed aliquoting and specimen labeling procedures. See section 2.3 and Appendix, Exhibits G and H.

➤ STS Users Guide

The STS Users Guide has been added. See Appendix, Exhibit F.

If an import .csv file is used to enter data into the STS instead of scanning the aliquots individually into the system, <u>run a test import</u> of all of the files on the Beta/training STS site to identify possible errors in the files. <u>https://sts-beta.reds-ii.org</u>

Specimens to send to BSRI

We are no longer requesting that you send BSRI specimens from donations that were First Time-Prevalent HCV or First Time-Prevalent HBV positive.

As specified in the protocol, we are asking that you continue to save and send BSRI specimens from donations that were HIV positive (FT or Repeat), Incident HBV positive (FT or Repeat), and Incident HCV positive (FT or Repeat).

Please see Appendix, Exhibit B for the updated Schedule of Deliverables.

Data to send to Westat

As in the past, we are requesting that you send us demographic data via the MS P&I Data Form on ALL donations that are considered to be HIV, HBV, and/or HCV positive (regardless of incident/prevalent or FT/Repeat donation status or whether specimens were sent to BSRI). <u>Prior</u> to specimens being sent to BSRI, the MS P&I Data Form (see Chapter 4) should be sent to Westat. The annual summary data should be sent to Westat according to the timetable in Appendix, Exhibit B for the Schedule of Deliverables.

➤ Shipping Schedule

A revised shipping schedule has been developed for shipping 2007 donations. See Appendix, Exhibit B for the Schedule of Deliverables.

> BSRI Supply Request Form

See Appendix, Exhibit I for a template BSRI supply request form.

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<u>Exhibit</u>

- A. MS Study Flow Chart
- B. Schedule of Deliverables
- C. BSRI Shipment Notification Fax Form
- D. MS P & I Data Form
- E. Recording Specimens in the STS (overview)
- F. STS Users Guide for MS (instructions for Blood Centers)
- G. Instructions for Aliquoting and Labeling Specimens
- H. Aliquoting Job Aids (instructions for BSRI)
- I. BSRI Supply Request Form
- J. MS Testing Flow Chart (for BSRI)

Protocol

1. INTRODUCTION

1.1 **REDS-II Overview**

The Retrovirus Epidemiology Donor Study- II (REDS-II) is a National Heart, Lung, and Blood Institute (NHLBI) multicenter study. The purpose of REDS-II is to conduct laboratory and epidemiological research to aid in improving blood safety and availability in the U.S. To this end, multiple protocols will be performed under the REDS-II umbrella. The Molecular Surveillance (MS) study is one such protocol being implemented.

Six blood centers, a coordinating center, a central laboratory, and a central repository participate in the REDS-II program. Below is a list of participating sites and their role:

- Blood Centers:
 - The Blood Center of Wisconsin, Milwaukee, WI;
 - Blood Centers of the Pacific- University of California- San Francisco, CA;
 - Southern Region American Red Cross and Emory University, Atlanta, GA;
 - Hoxworth Blood Center and the University of Cincinnati Medical Center, Cincinnati, OH;
 - New England Region American Red Cross, Dedham, MA; and
 - Institute for Transfusion Medicine and LifeSource Blood Services, Pittsburgh, PA..

To increase yield to obtain adequate sample size for the purposes of this study, additional blood centers have been asked to participate. These blood centers are:

- American Red Cross Biomedical Services, Scientific Support Office
- New York Blood Center
- United Blood Services
- Coordinating Center:
 - Westat, Rockville, MD
- Central Laboratory:
 - Blood Systems Research Institute (BSRI), San Francisco, CA

- Central Repository:
 - SeraCare BioServices, Gaithersburg, MD

1.2 MS Study Background and Overview

All blood donations in the U.S. are screened for HIV, HCV, HBV, and other infectious disease viruses to help ensure the safety of transfusion with regards to the transmission of these viruses. There are several strains of each virus and they are not all indigenous to the U.S. For example, HIV-1 group M subtype B is the most common in North America whereas world-wide, it is subtype C (http://hiv-web.lan1.gov). While other subtypes are relatively infrequent in the U.S., there is some evidence to show that the variety and numbers of these being detected is increasing.^{1,2,3} With the globalization of the world economy, it is important to monitor the spread of these other strains in the U.S.

In addition, the sensitivity of screening assays that detect and quantify HIV, HCV, and HBV viruses can be reduced by certain strains of those viruses. Thus, molecular surveillance of the phylogenetic clade and subtype distribution of HIV, HCV, and HBV infections in blood donors is critical to ensuring that blood screening and related assays are sensitive to the current strains of blood-borne viruses. Certain viral strains may also alter the efficacy of anti-viral treatments, and monitoring the distribution of these actively transmitted viral strains will be an important guide to future anti-viral treatment and vaccine research in the United States⁴.

Current blood donation screening in the U.S. includes nucleic acid testing (NAT) which can identify infectious blood donations prior to the development of anti-viral antibodies. This testing strategy not only decreases transfusion-transmitted risks for these viruses ⁵⁻⁸, but in terms of this study, presents a unique opportunity to examine the viral subtypes that have been recently acquired (incident infections) and compare them to more remotely acquired (prevalent infections) strains. The MS study will capitalize on this by evaluating the phylogenetic clade and subtype distribution of incident and prevalent HIV, HCV, and HBV infections in U.S. blood donors. Further, monitoring the viral subtypes in incident and prevalent infections over time will allow the molecular epidemiology of these viruses to be tracked.

The main objectives of the MS study are to:

 measure the frequency of distinct viral lineages in incident and prevalent blood donor infections;

- measure the frequency of anti-viral drug resistance mutations in HIV and HBV in incident and prevalent blood donor infections; and
- using residual volume from the characterized specimens, create a linked repository for future HIV, HBV, and/or HCV studies.

The secondary objectives are intended to further contribute to the public health surveillance goals of this study by evaluating whether the distributions of viral variants 1) vary by demographics and geographic location (the US Census geographic areas [Regions]commonly referenced by the CDC); 2) change over time; and 3) are different in infected donors than in other populations as reported in the literature.

To meet these secondary objectives, laboratory data will be merged with donor demographics such as age, gender, and race/ethnicity. Additionally, the US Census Regions associated with the donors' place of residence will be included. All REDS-II blood centers routinely provide this information to the coordinating center. For the additional participating sites, this information will be provided along with summary statistics on all annual blood donations. Summary statistics will include the total number of donations by donations status (first-time versus repeat), gender, age, race/ethnicity, and US Census region. The US Census region will be derived using the state of residency and age will be derived from DOB and date of donation. Upon completion of these derivations, state of residency and age.

The MS study involves testing blood specimens from volunteer blood donors identified as positive for HIV, HCV, and HBV during routine infectious disease testing by participating blood centers between January 2006 and June 2009. In addition to the six REDS-II blood centers, New York Blood Center (NYBC), United Blood Services (UBS), and all American Red Cross (ARC) centers have agreed to participate. Note that two of the REDS-II centers are part of ARC (Emory University and ARC Southern Region; ARC New England Region) and one is part of UBS (UCSF/Blood Centers of the Pacific). Participation by the additional non-REDS-II blood programs (NYBC, UBS, and all of ARC) provides a broader catchment area, enabling a nationally representative study with a larger sample size and more diverse donor population to evaluate the frequency of viral clades and subtypes. This is critical for monitoring the spread of viral types in the U.S.

Specimens will be obtained from surplus blood collected at the time of routine blood donation. As previously mentioned, donated blood is routinely tested by the blood centers for HIV, HCV, and HBV. Thus, blood centers will send blood samples from HIV, HCV, and HBV incident and prevalent

positive donors to the REDS-II central laboratory, Blood Systems Research Institute (BSRI), for evaluation of the phylogenetic clade and subtypes of these viruses. Westat will coordinate the transfer of data and specimens, and analyze resulting data from BSRI.

We will retain residual volume for these characterized samples in a small linked repository. From past REDS-I experience, we have found that small repositories of this nature are very valuable, and would allow for additional studies of HIV, HBV, and HCV. Such repository studies, if conducted in the future, could be either anonymized or not, and would necessitate separate OSMB and IRB approvals.

References

- Bennett, D. (2005). HIV genetic diversity surveillance in the United States. J Infect Dis 192(1), 4-9.
- 2. Delwart, E. L., Orton, S., Parekh, B., Dobbs, T., Clark, K., and Busch, M. P. (2003). Two percent of HIV-positive U.S. blood donors are infected with non-subtype B strains. *AIDS Res Hum Retroviruses* **19**(12), 1065-70.
- 3. Sides, T. L., Akinsete, O., Henry, K., Wotton, J. T., Carr, P. W., and Bartkus, J. (2005). HIV-1 subtype diversity in Minnesota. *J Infect Dis* **192**(1), 37-45.
- 4. Delwart, E., Kuhns, M.C., and Busch, M.P. (2006). Surveillance of the genetic variation in incident HIV, HCV, and HBV infections in blood and plasma donor: Implications for blood safety, diagnostics, treatment, and molecular epidemiology. *J of Medical Virology* **78**, S30-S35.
- 5. Offergeld, R., Faensen, D., Ritter, S., and Hamouda, O. (2005). Human immunodeficiency virus, hepatitis C and hepatitis B infections among blood donors in Germany 2000-2002: risk of virus transmission and the impact of nucleic acid amplification testing. *Euro Surveill* **10**, 2.
- 6. Stramer, S. L., Glynn, S. A., Kleinman, S. H., Strong, D. M., Sally, C., Wright, D. J., Dodd, R. Y., and Busch, M. P. (2004). Detection of HIV-1 and HCV infections among antibody-negative blood donors by nucleic acid-amplification testing. *N Engl J Med* **351**(8), 760-8.
- 7. Yoshikawa, A., Gotanda, Y., Itabashi, M., Minegishi, K., Kanemitsu, K., and Nishioka, K. (2005). HBV NAT positive blood donors in the early and late stages of HBV infection: analyses of the window period and kinetics of HBV DNA. *Vox Sang* **88**(2), 77-86.
- Busch, M. P., Glynn, S. A., Stramer, S. L., Strong, D. M., Caglioti, S., Wright, D. J., Pappalardo, B., and Kleinman, S. H. (2005). A new strategy for estimating risks of transfusion-transmitted viral infections based on rates of detection of recently infected donors. *Transfusion* 45(2), 254-64.

1.3 Specimen Tracking System (STS)

The STS is a web based specimen tracking system developed by Westat and customized for REDS-II studies. It is designed to track specimen storage and shipping activities. All specimens sent to BSRI from the centers should be entered and the shipment information will be recorded in the STS prior to shipping; details of how specimens and shipments will be entered into the STS are found in Appendix Exhibit F. The Central Laboratory will receipt the specimens into the STS and record when they have been shipped to the Central Repository for long term storage.

1.4 Study Timeline

This study is scheduled to run from 2006 through August 2009. The timeline in Table 1.4 indicates approximate dates (month/year) when certain activities are expected to be completed by the Blood Centers, Central Laboratory, and Coordinating Center.

Table 1.4

Molecular Surveillance Timeline

				2006 은 눈 눈 눈 드 드 약 운 단 농 왕															2	008					2009						2010															
Item	Task	Jan	Feb.	Anr	May	Jun	Jul	Sep	Oct	Nov Dec	Jan	Feb	Apr	May	Jun	Jul	Sep	Oct	Nov	Dec	Feb	Mar	Apr	Jun	Jul	Aug	Sep Oct	Nov	Dec	Jan	Mar	Apr	May	Jul	Aug	Sep	Oct	Nov	Dec	Jan Feh	Mar	Apr	May	Jun	lul.	Aug
1	All HIV positive donations (Incident &																																													
	Prevalent) collected for the study																																													
2	Prevalent HBV cases collected for the study																																													
3	Prevalent HCV cases collected for the study																																													
4	Incident HBV cases collected for the study																																													
5	Incident HCV cases collected for the study																																													
6	All HIV positive cases (Incident & Prevalent) shipped to BSRI																																													
7	HBV <u>prevalent</u> donations Jan to Jun 2006 shipped to BSRI								\square		Π																																			
8	HCV <u>prevalent</u> donations Jan to Jun 2006 shipped to BSRI																																													
9	All Incident HBV donations shipped to BSRI													\square																																
10	All Incident HCV donations shipped to BSRI																																													
11	BSRI transfer of Repository Specimens to SeraCare													\square								П																								
12	MS PIData Form to Westat: all prevalent																								Π																					
	and incident donations detected and demographics sent to Westat																																													
13	Specimen selection lists (for release for testing) sent to BSRI by Westat																																													
14	Testing conducted at BSRI - including detuned testing																																													
15	Semi-Monthly Test Result Database sent from BSRI to Westat																																													
16	Westat compiles testing results into database																																													
17	Yearly summary statistics report sent to Westat																																													
18	Data analysis and interpretation																																													
		BC	= Bla	od (Cente	er/lat	o tasl	κ.]	$\mathbf{B} = \mathbf{B}$	SRI ta	ask		W =	= We	estat	task																													

2. SPECIMENS

2.1 Qualified Donations

Donations that are considered eligible for the MS study include all **allogeneic** donations from donors over the age of 17 and identified via confirmatory testing at the individual Blood Centers to be **HIV**, **HCV**, **and/or HBV positive between January 2006 and June 2009**. Specifically, all allogeneic donations identified between January 2006 and June 2009 that fall into the following categories should be considered "qualified" for the MS study:

	Box 2A Qualified Donations for the MS study													
		Descri	ptive categories											
HIV, HCV I= Incident	, or HBV ; P= Prevalent	Testii	ng Results	Allogeneic Donations										
		HIV NAT	HIV antibody	First time or Repeat*										
HIV	I/P	negative	positive	first-time and repeat										
HIV	Ι	positive	negative	first-time and repeat										
HIV	I or P	positive	positive	first-time and repeat										
		HCV NAT	HCV antibody											
HCV	Ι	positive	negative	first-time and repeat										
HCV	Р	positive	positive	first-time and repeat										
		HBsAg	anti-HBc											
HBV	Ι	positive	non-reactive	first-time and repeat										
HBV	Р	positive	reactive	first-time and repeat										

*First time donations – First donation given by the donor at a given center since June 1996.

2.2 Data to be recorded for <u>all</u> qualified donations listed in Box 2A

All eligible donations should be kept track of by each Blood Center. Specific information that should be recorded for each donation is described more fully in Chapter 4. Briefly, the following information should be recorded in the appropriate spreadsheet (see Chapter 4 for details) for ALL qualified donations at each Blood Center (see Box 2A for "qualified" donation). *Please note that regardless of whether specimens from donations that are qualified for the MS study (Section 2.1) are sent to BSRI for testing/placement in the repository, the following information should be recorded for all qualified donations:*



2.3 Specimens for the MS study

Specimens will consist of residual volume obtained from index donation tubes that were originally collected for NAT screening, HBsAg testing, or for serological testing.

2.3.1 Specimen Type: Plasma is preferable, while serum could also be sent, if available.

2.3.2 Specimen Volume: The plasma (or serum) specimen's minimal acceptable volume will be 1.0ml.

2.3.3 Specimen Storage at the Centers: All specimens should be stored at 4°C within 24 to 72 hours post donation. Specimens should then be aliquoted (see Appendix, Exhibit G) and stored at -20°C, but preferably at -80°C. Thawing and refreezing of the specimens should be avoided. Supplies have been provided by the Central Laboratory to store specimens in 1.0, 2.0, or 4.0mL cryovials. If specimens are stored in larger tubes, they should be re-aliquoted to small vials prior to shipping. **See Appendix, Exhibit G for aliquoting details**

2.3.4 Specimen Labeling: Specimens should be labeled with the appropriate BUI/WBN; a barcoded BUI/WBN label is preferable. All tubes should be labeled with an appropriate sequence number. **See Appendix, Exhibits G and H for labeling details**

2.3.5 Specimens to send to BSRI: While data should be recorded for <u>all</u> qualified donations (Section 2.2), only specimens from donations in specific categories should be stored and sent to BSRI. Specifically, all specimens from the following donation "descriptive categories" should be saved and sent to BSRI:

- <u>All</u> confirmed HIV allogeneic donations
- Confirmed HCV, incident allogeneic donations
- Confirmed HCV, first-time, prevalent allogeneic donations (identified between January and July 2006)
- Confirmed HBV, incident allogeneic donations
- Confirmed HBV, first-time, prevalent allogeneic donations (identified between January and July 2006)

Box 2D	Specim	ens to be sen	t to BSRI	for the MS Stu	ıdy	
	Descriptiv	ve Categories	5	HIV, HCV, or HBV I = Incident; P = Prevalent	2006 donations: Specimens saved, then sent to BSRI*	2006 – 2009 donations: Continue to collect and ship July 1, 2006 to June 30, 2009
HIV-EIA Positive	NAT- HIV Negative	Western Blot Positive	First time & Repeat & Repeat	I/P	Yes ¥	لا Yes
HIV-EIA Positive	NAT-HIV Positive	Western Blot Positive,	First time & Repeat	I or P	Yes	Yes
HIV-EIA Negative	NAT-HIV Positive	Negative, Indeterminate or Not Tested	First time & Repeat	Ι	Yes Yes	Yes Yes
HCV-EIA Positive	NAT-HCV Negative	RIBA Positive	First time & Repeat		🖗 No	🖓 No
HCV-EIA Positive	NAT-HCV Positive	RIBA Positive or Not Tested	First time & Repeat	Р	Yes (First-time)	ARC Yes
HCV-EIA Negative	NAT-HCV Positive	RIBA Negative or Not Tested	First time & Repeat	Ι	Yes Yes	Yes Yes
	1	I				
Anti-HBc non- reactive	HBsAg- EIA Positive	HBsAg neutralization Positive	First time & Repeat	Ι	Yes Yes	Yes Yes
Anti-HBc Positive	HBsAg- EIA Positive	HBsAg neutralization Positive	First time & Repeat	Р	Yes (First-time)	🗟 No

* Specimens should be stored according to the specifications in Section 2.3. Specimens should be sent to BSRI approximately every 5-6 months, following the shipping schedule and instructions outlined in Chapter 3 and Exhibit B Schedule of Deliverables. When specimens are sent to BSRI, the MS Prevalence and Incidence Data Form (see Chapter 4) should be sent to Westat.

** Specimens from HCV FT (first time) prevalent and HBV FT prevalent donations should only be saved between January and July of 2006; all of these specimens will be sent to BSRI in the first shipment (see section 3.2). Data for all HCV FT prevalent and HBV FT prevalent donations at the centers should be recorded throughout the length of the study (see section 2.2 and Chapter 4).

*** Although specimens from HCV repeat prevalent and HBV repeat prevalent donations will not be sent to BSRI for testing, data for these donations should be recorded throughout the length of the study (see section 2.2 and Chapter 4).

2.4 Using the STS to record storage of the specimens

You may use the STS to record details about storage of the specimens at your Blood Center. For instance, you can record that a tube with 1.5ml plasma from a donation with BUI number 0912300 is currently stored in Row B, Column 5 of a box labeled "REDSII MS August 2006". You can then use the STS to see what other MS specimens are stored in that box, as well as in other boxes at your center. See Appendix Exhibit F for instructions on how to use the STS.

If you choose not to enter specimens into the STS individually at this point, you can enter the specimens into the STS all at once prior to shipping them by creating a shipment list csv file and importing the file into the STS. See Appendix Exhibit F for instructions on how to use the STS.

> Tab = Specimens Sub Tab = Import The Study must specify "Molecular Surveillance" Site = Your Organization or location



Use the "Browse button" to locate the file to be imported	
-----------------------------------------------------------	--

Retrovir	us pidemio Don	logy ior Stud	dy -	s Se	Site: A tudy: M arc <u>h</u> :	merican Red Iolecular Surv	Cross /eillance		۷	Go	<u>Log Off</u>	todd_d@F 09/2 Cont	REDS_STS_BETA 4/2007 11:19:05 act Help Desk	
Home Vis	its Spec	imens	Shipn	nents	Rosters	Reports	Study S	Setup	Pro	j Admin				
Specimens>	Browse	Process	:/Edit	Boxes	Specir	nen Location:	s Lists	Imp	ort	002 Select				
Import spe	cimens o	r updat	tes to	speci	mens (e.g., volur	ne, mo	veme	nt)					
Study:	Molecular S	Surveillan	се		6	6								
Site:	American F	Red Cros:	5		0	Required to	create i	tems v	wher	the locatio	on code is no	ot in the in	nport file	
Select File:	C:\Docume	nts and S	ettings\	TODD_	D\Desktoj	o\REDS II 2nd	i qurt HE	Brows	e 5			Import	Preview	

Press the "Import" button to upload your file.

3. SPECIMEN SHIPPING

3.1 Overview

Residual plasma volume from nucleic acid testing (NAT) or similar retention tubes will be the primary source of samples saved from donations meeting the testing parameters detailed in Chapter 2. Blood centers that are able to obtain additional plasma volume from FFP units can also be added for long term storage as will any available residual serum samples. Specimens for the MS Study will be collected following standard operating procedures at each blood center.

On a semi-annual basis, beginning in October 2006, the participating centers will enter information on specimens collected for the study into the Westat Specimen Tracking System (STS). The specimens will then be transferred to the REDS-II Central Laboratory BSRI for testing and temporary storage. Following completion of testing per the MS protocol, BSRI will send the remaining specimen volume to the NHLBI Central Repository SeraCare BioServices for long-term storage.

The MS STS Users Guide (Appendix Exhibit F) details the process for uploading files of information on the specimens being transferred to the Central Laboratory, preparing shipments and adding and removing any specimens and validating the contents of each freezer box and each shipment. Through the use of the STS shipping functions, the facility where the shipments are prepared as well as the facility where the shipments are received, it is possible to monitor the status of each shipment in real-time. When the shipment reaches its destination and is "Receipted" in the STS the facility from which the shipment was sent will also be able to see the notation that the specimens were received in good order or if any problems were encountered.

3.2 Shipping Schedules

A shipping schedule has been set up to cover the entire lifespan of the study from October 2006 through October 2009. Events that could cause an alteration to the following schedule are: if there are problems with weather or transportation events that are out of the control of study personnel, or staffing or other logistical problems that are unforeseen at this time. When alternate scheduling is required it will be devised on an ad hoc basis. All changes to scheduling should first be discussed with the Coordinating Center contact, Debbie Todd, to ensure that all parties are notified and are in agreement for the modified course of action.

The first shipments from the blood centers to BSRI are to take place the week of October 9, 2006. Dates for individual blood centers to send shipments to the REDS-II Central Laboratory, BSRI, are seen below in Table 3.1 and as Appendix Exhibit B. This first shipment will include <u>all</u> HIV positive (both incident and prevalent) allogeneic donations collected since January 2006. Subsequent shipments to take place in November 2006 are all incident and first-time prevalent HBV allogeneic donations and then in December 2006 HCV incident and first-time prevalent allogeneic donations that have been collected between January and July 1, 2006 (see Section 2.3.5, Box 2D for specimen requirement details).

Shipment	Marker	Blood Center	Blood Centers to BSRI
1	All HIV through July 1, 2006	ARC	Monday October 9, 2006
1	All HIV through	BCW, ITxM	Tuesday
	July 1, 2006	HBC	October 10, 2006
1	All HIV through	BSL	Wednesday
	July 1, 2006	NYBC	October 11, 2006
2	All HBV through July 1, 2006	ARC	Monday November 13, 2006
2	All HBV through	BCW, ITxM	Tuesday
	July 1, 2006	HBC	November 14, 2006
2	All HBV through	BSL	Wednesday
	July 1, 2006	NYBC	November 15, 2006
3	All HCV through July 1, 2006	ARC	Monday December 4, 2006
3	All HCV through	BCW, ITxM	Tuesday
	July 1, 2006	HBC	December 5, 2006
3	All HCV through	BSL	Wednesday
	July 1, 2006	NYBC	December 6, 2006

 Table 3.1 Blood Center shipping schedule for the first sets of samples.

See Appendix Exhibit B for 2007, 2008, and 2009 shipment schedule.

2007, 2008, and 2009 shipments will consist of <u>all</u> HIV positive (both incident and prevalent) donations collected, but only HBV and HCV <u>incident</u> donations, since all prevalent donations required for the study will already have been obtained and transferred to the Central Laboratory. With the smaller number of specimens collected after 2006, it will not be necessary to break shipments down over multiple days. As long as specimens are separated into distinct boxes by marker and testing versus storage purpose, all specimens for a 6 month period may be shipped in a single shipment. See Appendix, Exhibit B.

The Central Laboratory will be shipping residual volumes from tested samples as well as those samples volumes retained for future repository use to the NHLBI Central Repository, SeraCare.

3.3 Shipping Supplies

All supplies and costs related to the storage and shipping of specimens for the MS Study, except for the dry ice, will be borne by the recipient of the shipment. At the request of the Blood Centers, the Central Lab, BSRI, will supply each of the Blood Centers with aliquot storage tubes, freezer boxes, labels for the freezer boxes, shipping containers, any related supplies and shipping labels prior to the first shipment of specimens to the facility as well as any time that the demand for supplies dictates this. See Figure 3-1 for an example of the shipping containers provided. Exhibit I is the order form from BSRI for supplies related to the storage materials for the study.

3.4 Instructions for Shipping to the REDS-II Central Laboratory (BSRI)

3.4.1 Record Details of the Shipment in the STS

When preparing to ship frozen samples to BSRI, record the details of the shipment and its contents in the STS (see Appendix Exhibits E and F). This will allow you to prepare an electronic shipment manifest and track whether the specimens were received in good order of if any problems were encountered. This will also allow BSRI and Westat to monitor the status of each shipment in real-time.

3.4.2 Shipping of Frozen Samples to BSRI

BSRI Contact Information

Blood Systems Research Institute ATTN: Simon Ng 270 Masonic Ave. San Francisco CA 94118 (415) 901-0751 Fax: (415) 775-3859 Email: <u>ltobler@bloodsystems.org</u> and <u>sng@bloodsystems.org</u>

Schedule: Shipments may be made Monday through Wednesday Only



Figure 3-1. Example of the items provided with Saf-T-Pak STP 320 (Diagnostic Specimens).

The STP 320 will arrive at the Blood Center with the following items:

- Dry ice label (Class 9 label). There is space on this label for the amount of dry ice contained in the shipment, the shipper's name and address and the consignee's name and address
- A STP 111 Inner box
- Two STP 710 white secondary containers (envelope system)
- Two 250 mL absorbent strips
- Rubber bands (at least ¹/₄" thick)

Procedures Using the Saf-T-Pak STP 320

The Saf-T-Pak STP 320 shipping containers will be shipped to the Blood Center by FedEx ground and will be covered with brown paper. The empty shipping container will contain the labels listed above.

Preparing Shipment:

- 1. Remove polystyrene lid from polystyrene inner cooler.
- 2. Place White Absorbent Strip around Freezer box.
- 3. Place Rubber bands (at least ¹/₄" thick) around Freezer Box.

- 4. Place Freezer box(es) in Clear Biohazard bag and seal according to instructions on the bag.
- 5. Place Clear Biohazard bag in White Envelope and seal envelope according to the instructions on the envelope.
- 6. Place White Envelope(s) in inner brown box (this inner box can hold 3-2" Freezer boxes or 2-3" Freezer Boxes) and tape the inner container shut.
- 7. Place inner box in reusable outer box containing polystyrene cooler.
- 8. Add dry ice to bring total amount to the same level as the top of the inner box. Note that the total amount of dry ice used will be ~16 lbs or 9 kg. The STP 320 shipping container will maintain a temperature of between 0^0 C and minus 44^0 C for 83 hours when using 7.8 kg of dry ice.
- 9. Place the Styrofoam lid onto the inner polystyrene container (do not tape the Styrofoam lid.
- 10. A paper copy of the Shipping Manifest must be included in the shipment; it can be downloaded from the STS or you may generate your own spreadsheet. You may also attach this to the email or fax notifications.
- 11. Seal the cardboard box with shipping tape.
- 12. Complete the FedEx Airbill with your shipping address and the amount of Dry Ice placed in box:
 - a. Section 2 The Internal Billing Reference Section must have the following information "REDS-II, Diagnostic Specimens UN 3373"
 - b. Section 4a Check the "FedEx Priority Overnight" box
 - c. Section 5 Check the "other" box
 - d. Section 6 Check the box that says, "Yes Shipper's Declaration not required". Check the "Dry Ice box" and write "1" in the first blank line and the "kg" of dry ice used on the second line; i.e., 1 x 9 kg
 - e. Section 7 Check Recipient. The account number is pre-printed on the FedEx airbill provided by BSRI.
- 13. Fill in the Dry Ice Label on box with the amount of dry ice used, the sender's and consignee's name and address.
- 14. Please complete and fax a copy of the REDS-II MS Study Shipping Notification (Appendix Exhibit C) **prior to the shipment** to Simon Ng at (415) 775-3859 at Blood Systems Research Institute. You may do this either by using a traditional hard copy fax or electronically through the STS (see Appendix Exhibit F, the STS User's Guide attachments such as the shipping manifest can also be included with this method).

- 15. Send an e-mail **prior to the shipment** to <u>REDSIICC@westat.com</u>. You may do this either electronically formatted through the STS (see Appendix Exhibit F the STS User's Guide) or by using your own email system.
- 16. Include the following information in your e-mail.
 - a. Subject Line of E-mail should read: REDS-II (Blood Center Name), MS Study, FedEx, "insert tracking number", "insert date of shipment":
 - b. Shipper's Name:
 - c. Shipper's Address:
 - d. Shipper's Phone:
 - e. Shipment Date:
 - f. Courier:
 - g. Tracking Number (no spaces):

If you should have any questions regarding these instructions please contact BSRI or Westat using the contact information above.

4. BLOOD CENTER DATA SUBMISSIONS

4.1 Data and Demographics

Qualified donations meeting the protocol criteria are described in detail in Chapter 2 Section 2.1. At the time specimens are shipped to BSRI, data files detailing the viral marker test results and the donation demographics must also be sent to the Coordinating Center (Westat) from each of the participating organizations on <u>all</u> incident and prevalent cases irregardless of whether a specimen was submitted for the molecular surveillance study. This data includes the following information on each donation for viral marker test results and demographics: a blood unit identifier (BUI), date of donation, first time and repeat status, results of HIV, HCV and HBV nucleic acid & antibody tests, date of birth, race/ethnicity if available, gender, state of residence (this has been modified from the protocol which specified a 3-digit zip code) and a "flag" that indicates if this donation is represented by a specimen that was shipped to BSRI.

On an annual basis, in the second quarter of each year, additional files will also be transmitted to the REDS-II Coordinating Center for the yearly summary statistics on the total number of allogeneic donations screened at each blood center as well as demographic breakdowns on: number of donations by year of birth, gender, race/ethnicity if available, first time and repeat status, and the state of residence of blood donors.

4.2 Data Files Detailing Prevalent and Incident Donations

The initial MS Prevalence and Incidence Data Form (MS P and I Data Form) file from each center must contain information on all HIV positive donations: incident and prevalent, first time and repeat cases that were donated January 1, 2006 through July 1, 2006. Westat will compile and use the files to generate specimen selection lists for those donations requiring HIV LS-EIA testing at the Central Laboratory. This HIV LS-EIA (or detuning step) will assist in separating newly infected or incident donations from prevalent cases. The specimen selection list provided to the Central Lab identifies the viral marker type(s) reported as positive, BUI, organization, and sequence number as generated by the STS. It will not include demographic nor detailed viral marker test data. Westat will provide the specimen selection list to BSRI within 2 weeks of submission of the specimens and MS P and I Data Forms by the Blood Centers.

As the files are compiled by the Coordinating Center, the potentially identifying details for each donation will be converted from the date of birth to age at time of donation and the donor's state of residence converted to US Census Bureau geographic region division (9 divisions spread among the four regions of the US). The original MS P and I data files will then be deleted and the only link to this information will be the copy of the file maintained by the participating blood center that submitted the data.

Subsequent shipments and their related data files provided by the blood centers will similarly detail other HIV, HBV and HCV positive donations. Please see the Appendix, Exhibit B for the 2007-2009 schedule for delivering the MS P & I Data forms to Westat for all qualified donations.

4.3 Instructions for Completion of the Molecular Surveillance Prevalence and Incidence Data Form

Materials and methods for blood center data reporting are described in this section. Two format options are allowed which will facilitate easy, rapid, standardized and accurate transfer of information into a compiled dataset once they are received at the Coordinating Center. The first option is submission of a study specific Excel template (see Figure 4.1 A & B and Appendix Exhibit D) which has pull down and quick fill fields. An electronic version of this file has been provided to you. The second option is utilizing indirect database reporting as described in Section 4.4. Table 4.1, the Data Layout Table, seen in Section 4.4 exactly corresponds with the options and characteristics found in the Excel spreadsheet seen below and can be used to create standardized comma delimited files for submission. Both of these options will be sent to Westat in a password protected .zip file (see Section 4.5).

	A	B	0	D	E	F	G	н	1	J	к	L	м	N	0	P	Q	R	s
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2	Max. 20 characterr	See pull down lirt in the cell below	нн	DD	****	FT ar RPT	Tas/Ha	HAT Result	Ab Basult	HAT Result	EIA / RIBA Razult	ElA or Hautralizati on Razult	EIA Rosult	нн	DD	****	2 lattar abbr.	Pravido if available	(H, F =r V)
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Figure 4.1 A MS P & I Data Form

A	в	c	D	E	F	G	н	1	J	ĸ	L	м	N	0	p.	Q	R	8	т
Semple 550 ID	NGWTING	Organization	Date of donation	Date of donation	Date of domation	Pret Tme_Repeat	FLAG if Speciment sent	HIV MAT	er vh	HCV MAT	HCV Ab	Çên Açi	⊳8⊦_]nA	Date of birdh	Date of birdh	Date of birth	biske of Residence	Pason_Elimicity	Sex
	Max. 20 characters	See pull down list in the cell below	мм	DD	YYYY	FT or RPT	YesiNo	NAT Result	Ab Result	NAT Result	EIA / RIBA Result	EIA or Neutralization Result	EIA Result	мм	DD	****	2 letter abbr.	Provide if available	(M, ForU)

Figure 4.1 B MS P & I Data Form for ARC

Open the file (this is provided to you electronically):

MS_Prev&Incid_DataCollectionTemplate_091206.xls.

Rename and save a copy of the file with a new name 1) to preserve a blank template for future use and 2) to have a clean file prepped for data entry for submission to the Coordinating Center.

To facilitate the automated file processes at Westat you <u>must</u> use a <u>standardized</u> naming convention, as shown below, for the files to be submitted.

Example: MS_HIVPIDATA_SITENUMBER_SITENAME_YYYYMMDD.xls (i.e. MS_HIVPIDATA_270_ARC_20060925.xls) This file name indicates this file is for the Molecular Surveillance study; it contains data on HIV prevalent and incident donations from the American Red Cross which has been assigned site number 270; and the file was prepared on Sept. 25, 2006. All gaps or spaces between words or abbreviations should be replaced with an underscore.

*Retain a copy of all data files submitted to the Coordinating Center.

4.3.1 How to use the Excel Template

Step 1

Open the Excel spreadsheet and rename the file as suggested above.

Step 2

Row 1 is shaded in	blue.
The titles a	re the variable names for columns A – S.

Row 2 is shaded vellow.

These fields are more descriptive information about the variables or the reporting format for the variables.

Row(s) 3 and beyond

This is the row where data will be entered for the reporting period.

Place your cursor over the data cell where you wish to enter data, and then left click once with the mouse. This will highlight the cell.

Some cells will display a gray downward pointing arrow along with a pop-up window on the right side of the cell. The pop-up window contains instructions specific to each cell and can be easily dragged around by holding the left button of your mouse if it appears in an inconvenient place.

If there is an arrow, by left clicking on the arrow you will see appearing below the cell, a pulldown list that is in a **standardized** format. You can scroll through the list with your mouse or use the down arrow on your keyboard to locate the appropriate response from which you can make your selection. Left click again on the response you wish to choose. TAB to the next column cell or you may highlight the cell in the next column by one click of the left mouse button.

If there is no downward pointing arrow, the pop-up window contains instructions that ask you to enter information in a standardized format such as the number of digits or characters.

Use your mouse to click on cell A3.

Column A:

Blood Unit Identifier

Enter the BUI or WBN (10 characters preferred minimum, 20 characters maximum) for this donation. If you use a region code along with the 7 character donation ID please include this so that we do not get repetitive BUIs across blood centers/organizations.

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	A3 🗸	· fs	e			-	_	_			-	
	A			В	C	D	E	F	G	Н		<u> </u>
1	BUI_W	/BN	Orga	nnization	Date of donation	Date of donation	Date of donation	First Time_Repeat Donor	FLAG if Specimen sent to BSRI	HIV NAT	HIV Ab	н
2	Max. 20 ch	aracters	See pull down I	list in the cell below	мм	DD	YYYY	FT or RPT	Yes/No	NAT Result	Ab Result	NA
3		BUI Enter t	he BUI/WBN (Blood									
4		Numbe	ntirier/whole blood r).									
5		TAB to cell.	the next column									
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Rea	ly vittee										NUM	- 11

TAB to next column cell.

Cell **B3** should now be highlighted.

Column B:

Organization

In this pull down list there are sites listed with assigned Site Number and Abbreviated Organization Names.

Enter the assigned organization number and name (see below).

Left click the arrow in each row to display the pull down list of participating sites. Please select your site, left click once or use the "ENTER" key.



The assigned site numbers and names are:

210_BCW	for The BloodCenter of Wisconsin
220_BCP	for the Blood Centers of the Pacific
240_HBC	for University of Cincinnati/Hoxworth Blood Center
250_ITxM	for the Institute for Transfusion Medicine
270_ARC	for all American Red Cross Blood Services
280_NYBC	for the New York Blood Center
290_UBS	for the United Blood Services centers

TAB to next column cell.

Cell C3 should now be highlighted.

Columns C, D and E:

Date of Donation

MM is the two digit month format and has a pull down list from which to select 01-12. **DD** is the two digit date format and has a pull down list from which to select 01-31. **YYYY** is the four digit year format and has a pull down list from which to select 2006 or other current year.

TAB to each of the next columns to complete the donation date cells.

Cell **F3** should now be highlighted.

Column F:

First Time or Repeat Donor

Donors are considered First time (FT) if the blood center database does not have a donation since June 1996. If there is more than one donation after July 1, 1996 then select RPT for Repeat donor status.

TAB to the next column cell.

Cell G3 should now be highlighted.

Column G:

FLAG if specimen sent to BSRI

Select "Yes" if specimen was shipped to BSRI or "No" if a specimen was not available for shipment and testing; data on the donation must be included for analytic purposes even if no specimen is shipped to BSRI.

TAB to the next column cell.

Cell **H3** should now be highlighted.

Column H:

HIV NAT

From the pull down menu choose result for the HIV NAT assay, NR if non-reactive and R if reactive. Choose NT of the specimen was Not Tested i.e. QNS.

TAB to the next column cell.

Cell **I3** should now be highlighted.

Column I:

HIV Ab

From the pull down menu choose result for the HIV1/2 EIA or if the EIA was reactive provide the WB result per manufacturer's package insert. Choose NT if Not Tested or QNS.

TAB to the next column cell.

Cell **J3** should now be highlighted.

Column J:

HCV NAT

From the pull down menu choose result for the HCV NAT assay, NR if non-reactive and R if reactive. Choose NT if the specimen was Not Tested i.e. QNS.

TAB to the next column cell.

Column K:

HCV Ab

From the pull down menu choose result for the HCV EIA or if the EIA was reactive provide the RIBA result per manufacturer's package insert. Choose NT if Not Tested or QNS.

TAB to the next column cell.

Column L:

HBsAg

From the pull down menu choose result for the HBsAg EIA or if the EIA was reactive provide the HBsAg Neutralization result per manufacturer's package insert. Choose NT if Not Tested or QNS.

TAB to the next column cell.

Column M:

Anti-HBc

From the pull down menu choose result for the Anti-HBc EIA test result. NR for Non-Reactive test results or R for Reactive per manufacturer's package inserts. Choose NT if Not Tested or QNS.

TAB to the next column cell.

Columns N, O and P:

Date of Birth

MM is the two digit month format and has a pull down list from which to select 01-12. **DD** is the two digit date format and has a pull down list from which to select 01-31. **YYYY** is the four digit year format and has a pull down list from which to select <1917 to >2000.

We have grouped donors who may be over the age of 89 to insure confidentiality. Donors must be 17 or older to be included in this study protocol.

If you are unable to provide the specific date of birth;

use month 01 and day 01 as a default, providing only the actual birth <u>year</u> of the donor. Example 01/01/1967.

TAB to the next column cell.

Column Q:

State of Residence

Donor's State of Residence

Use the pull down menu to enter the state in which the donor resides at the time of donation. If the donor resides outside the 50 states or the District of Columbia chose the final option "Other."

TAB to the next column cell.

Column R:

Race/Ethnicity

Please provide using the following options if this information is available.

Select:

W = White Non-Hispanic B = Black Non-Hispanic A = Asian H = Hispanic I = Native American M = More Than One Race O=Other Non-Hispanic 7 = Refused 8 = Not Sure 9 = Not Available

TAB to the next column cell.

Column S:

Sex

Donor Gender

Enter from the pull down menu either "M" for Male or "F" for Female or "9" if the gender is Unknown or Missing.

Go to Column A on the next row and repeat entries for each blood donation.

4.3.2 Additional Information

The Excel spreadsheet template is formatted for up to 1000 rows of data. If you require more than 1000 records we can assist you with formatting additional rows or you may find it more appropriate to prepare a comma delimited (.csv) file by utilizing the indirect database reporting methodology described in the next section.

The "Print Area" is currently set to print only the first page. Thus, if more printed pages are desired those parameters will need to be adjusted to suit your needs.

The spreadsheet should now be saved with a file name as described earlier on page 4-2.

4.4 Data Layout for Indirect Database Reporting

Some organizations may find it more expeditious to utilize the indirect database reporting approach to extract and report data on the donations for the Molecular Surveillance Study. This method is equally as acceptable as submitting the information in the Excel file format as long as the criteria match <u>exactly</u> the items in the table below. Table 4.1 below is a table displaying the variable names and characteristics that are also found in the Excel template and are required file specifications if using this method of data reporting. Files are then to be submitted in a comma delimited format (.csv) following the instructions in Section 4.5.

					Values			
Column	Variable Name	Variable Description	Туре	Length	* Values that are			
					missing or unknown = 9			
А	BUI_WBN	BLOOD UNIT IDENTIFIER / WHOLE BLOOD NUMBER	А	20				
В	ORGANIZATION	SITE NUMBER AND SITE NAME	A	8	210_BCW 220_BCP 240_HBC 250_ITxM 270_ARC 280_NYBC 290_UBS			
C	MM	MONTH OF DONATION	A	2	01-12			
D	DD	DAY OF DONATION	A	2	01-31			
E	YYYY	YEAR OF DONATION	А	4	2006-2008			
F	FT OR RPT	FIRST TIME OR REPEAT	А	3	FT, RPT			
G	FLAG	WAS A SPECIMEN SENT TO BSRI	А	3	YES, NO			
Н	HIV_NAT	DISCRIMINATORY HIV NAT	А	2	NR,NT,R			
I	HIV_Ab	HIV 1/2 ANTIBODY EIA/WB TEST RESULT	А	10	NR,NT,R, POS,NEG,IND, INVALID, UNREADABLE			
J	HCV_NAT	DISCRIMINATORY HCV NAT	А	2	NR,NT,R			
к	HCV_Ab	HCV ANTIBODY EIA/RIBA TEST RESULT	А	10	NR,NT,R, POS,NEG,IND, INVALID, UNREADABLE			
L	HBSAG	HEPATITIS B SURFACE ANTIGEN TEST RESULT	А	10	NR,NT,R, POS,NEG,IND, INVALID, UNREADABLE			
М	ANTI_HBc	HEPATITIS B CORE ANTIBODY TEST RESULT	А	2	NR,NT,R			
N	MM	MONTH OF BIRTH	А	2	01-12			
0	DD	DAY OF BIRTH	А	2	01-31			
Р	YYYY	YEAR OF BIRTH	А	5	<1917 - (current year - 16)			
Q	STATE	2 LETTER ABBR. STATE OF RESIDENCE OF DONOR	А	2				
R	RACE_ETHNICI TY	RACE/ETHNICITY OF DONOR (FROM BLOOD CENTER DONOR REGISTRATION FORM)	A	1	A,B,H,I,O,W,M,7,8,9			
S	SEX	SEX OF DONOR	A	1	M,F,9			

Table 4.1Data Layout Table

4.5 Submission of Data Files to the Coordinating Center

The key element to the smooth transfer of data is that the naming convention conforms to the following format:

MS_HIVPIDATA_SITENUMBER_SITENAME_YYYYMMDD.xls MS_HIVPIDATA_SITENUMBER_SITENAME_YYYYMMDD.csv

MS_HBVPIDATA_SITENUMBER_SITENAME_YYYMMDD.xls MS_HBVPIDATA_SITENUMBER_SITENAME_YYYMMDD.csv

MS_HCVPIDATA_SITENUMBER_SITENAME_YYYMMDD.xls MS_HCVPIDATA_SITENUMBER_SITENAME_YYYMMDD.csv

• The file(s) should be placed in a password protected .Zip file with the name:

MS_HIVPIDATA_SITENUMBER_SITENAME_YYYYMMDD.Z

- Sending the file with the extension .Z rather than .ZIP allows it to pass through our email system.
- Include in the email the number of records and columns contained in each file.
- A separate second email should be sent that contains the name of this file as well as the .zip file password. You may establish one password that can be used for each submission or provide a new password with each file. Whichever method is chosen, it must be communicated with the Coordinating Center.
- Submit files to: <u>REDSIICC@WESTAT.COM</u>

4.6 Yearly Summary Statistics

The participating organizations, the American Red Cross Blood Services, the New York Blood Center and the United Blood Services will also need to provide Westat with *yearly* summary statistical files that will include the total number of allogeneic donations screened from donors age 17 and older during the corresponding year (2006-2009) and the demographic distribution of allogeneic donations (age, gender, race/ethnicity if available, first time and repeat status, and geographic area). While the REDS-II centers/laboratories (The Blood Center of Wisconsin, the Blood Centers of the Pacific, Hoxworth Blood Center and the Institute for Transfusion Medicine) will need to provide Westat with a file containing information on center, donation date, BUI, and HIV, HCV and HBV overall test result interpretation for all qualified donations (see Chapter 2), the case-specific demographic information for the 4 REDS-II centers may be directly extracted by Westat from the REDS-II donation database if it is not provided on the MS P and I Data Forms. The yearly summary statistics information for the 4 REDS-II centers will be directly extracted by Westat from the REDS-II donation database.

The yearly summary statistics Excel files should be provided in second quarter of 2007, 2008 and 2009 and will be broken down by first time, repeat and unknown donation type into the following demographic categories: age, state of residence, race/ethnicity, and gender. Please see the Appendix, Exhibit B for the 2007-2009 schedule for delivering the yearly summary statistics file to Westat.

Worksheet 1: Labeled Total_allogeneic_donations - Total Allogeneic donations by donation type

Column A:

<u>Type of Successful Allogeneic Donation -</u> Use FT for First Time donor RPT for Repeat Donor Unknown if it is unknown whether the donor is a first time or repeat donor

Column B:

<u>Donation Count -</u> Number of Donations

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	Allogeneic														
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3	RPT	97684													
4	UNKNOWN	7983													
5															
7		i													+
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Worksheet 2: Labeled **FT_ Freq_by_age – First time donations by age**

Column A:

<u>Age -</u>

Age at the time of the donation. "999" is used if the age can not be calculated.

Column B:

M (🛛 Microsoft Excel - MS_2006SUMMARY_999_DUMMY_20070707.xls														
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Worksheet 3: Labeled FT_Freq_by_state_of_residence – First time donations by state of residence

Column A:

<u>State -</u>

State of residence (if state of residence is not know, use the state of the donation blood center)

Column B:

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3 /	٩R	1												
4,	ΑZ	3												
5	CA	1927												
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12		2												
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Worksheet 4: Labeled FT_ Freq_by_Race_Ethnicity – First time donations by race and ethnicity

Column A:

Column B:



Worksheet 5: Labeled FT_ Freq_by_Gender – First time donations by gender

Column A:

<u>Gender -</u> Gender values are: 9 – Unknown F – Female M – Male

Column B:



Worksheet 6: Labeled RPT_ Freq_by_age – Repeat donations by age

Column A:

Age -

Age at the time of the donation. "999" is used if the age can not be calculated.

Column B:

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3		18	1851													
4		19	1225													
5		20	996													
6		21	907													
/		22	958													
0		23	1103													
10		24	1313												-	
11		25	1166													+
12		27	1175													+
13		28	1159													
14		29	1162													<u> </u>
15		30	1235													
16		31	1213													
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18		33	1271													
19		34	1258													
20		35	1499													
21		36	1669													
22		37	1569													
23		20	1626													
24		39	1004													+
25		40	1921													+
27		42	2077													+
28		43	2244													
14 4	▶ н /	FT_Fr	eq_by_Race_Ethni	city / FT.	Freq_by_Ge	ender \ RP1	T_Freq_by	_year_of_	age / RPT						1	H
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Worksheet 7: Labeled **RPT_ Freq_by_state_of_residence – Repeat donations by state of residence**

Column A:

<u>State -</u>

State of residence (if state of residence is not know, use the state of the donation blood center)

Column B:

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6	SnagIt 📑	Window	• •												
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1	State	Donation Count													
2	AK	1													
3	AR	1													
4	AZ	14													
5	CA	10000													
6	CO	12													
7	CI	2													
8	DC	1													
9	FL	9													
10	GA LII	10510													
12		10519													
12		2													
14	IU II	9													
15	IN	1													
16	KS	4													
17	KY	10001													
18	LA	4													
19	MA	10													
20	MD	2													
21	ME	1													
22	MI	4													
23	MN	10002													
24	MO	6													
25	MT	4													
26	NC	10008													
27	NE	2													
28	NH	9502													
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Worksheet 8: Labeled RPT_ Freq_by_Race_Ethnicity – Repeat donations by Race and Ethnicity

Column A:

Column B:



Worksheet 9: Labeled RPT_ Freq_by_Gender – Repeat donations by gender

Column A:

<u>Gender -</u> Gender values are: 9 – Unknown F – Female M – Male

Column B:

🛚 Microsoft Excel - MS_2006SUMMARY_999_DUMMY_20070503.xls															
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2	9 13														
3 F	43699														
4 M	53972														
5															
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The naming convention for annual summary statistics Excel file should conform to the following format:

MS_2006SUMMARY_SITENUMBER_SITENAME_YYYYMMDD.xls MS_2007SUMMARY_SITENUMBER_SITENAME_YYYYMMDD.xls MS_2008SUMMARY_SITENUMBER_SITENAME_YYYYMMDD.xls

• The file(s) should be placed in a password protected .Zip file with the name:

MS_YYYYSUMMARY_SITENUMBER_SITENAME_YYYYMMDD.Z

- Sending the file with the extension .Z rather than .ZIP allows it to pass through our email system.
- A separate second email should be sent that contains the name of this file as well as the .zip file password. You may establish one password that can be used for each submission or provide a new password with each file. Whichever method is chosen, it must be communicated with the Coordinating Center.
- Please be sure that the donation totals within the demographic tabs match the totals on the first tab, total donations by donation type. For example, the total of column B on FT_ Freq_by_Race_Ethnicity tab should match the donation count for first time donations (cell B2) on Total_allogeneic_donations.
- Submit files to: <u>REDSIICC@WESTAT.COM</u>



Exhibit A General Overview of the MS Study

Exhibit B

Please confer with the Coordinating Center approximately 2 weeks prior to any shipments so that the necessary resources are informed and are in place on the exact dates negotiated by all parties.

REDS-II Molecular Surveillance Delivery: <u>Schedule I</u>

American Red Cross and New York Blood Center

Donations Collected	MS P&I Form (Demographic Data) Delivered to Westat All markers	Specimens Shipped to BSRI All markers	Annual Summary Data Delivered to Westat
January – June 2007	September 2007	September 2007	June 2008
July – December 2007	February 2008	February 2008	June 2008
January – June 2008	September 2008	September 2008	June 2009
July – December 2008	February 2009	February 2009	June 2009
January – June 2009 ¹	September 2009	September 2009	June 2010

REDS-II Molecular Surveillance Delivery: <u>Schedule II</u>

Blood Center of Wisconsin, Hoxworth Blood Center, Institute for Transfusion Medicine and United Blood Centers

Donations Collected	MS P&I Form (Demographic Data) Delivered to Westat	Specimens Shipped to BSRI All markers	Annual Summary Data Delivered to Westat
Concerca			1
January – June 2007	October 2007	October 2007	June 2008
July – December 2007	March 2008	March 2008	June 2008
January – June 2008	October 2008	October 2008	June 2009
July – December 2008	March 2009	March 2009	June 2009
January – June 2009 ¹	October 2009	October 2009	June 2010

¹ These dates coincide with the NHLBI REDS-II extension but are pending approval of participants and all IRBs.

Please fax this form to:

(No cover sheet required)

Simon Ng, BSRI Fax #: 1 (415) 775-3859 Page: _____ of _____

Date of Shipment: _____

Exhibit C: REDS-II Molecular Surveillance Study - Shipping Notification

- 1. Fax this form to Simon Ng (BSRI- 1.415.775.3859) the <u>same day</u> the specimens are <u>sent</u> to BSRI, this alerts our lab staff of sample's arrival the following day.
- 2. Include this form with shipment, fold and place inside box.

FedEx Tracking # 1:	
0	

FedEx Tracking # 2:

•

Comments:	shippers containing	boxes
-----------	---------------------	-------

Scheduled Pick-Up Date:

Scheduled Delivery Date:

Blood Center:

Blood Center Contact: _____

Contact Phone:

E-mail:_____

Exhibit C BSRI Shipment Notification.doc

Exhibit D

Data Reporting Form for REDS-II Molecular Surveillance Prevalent and Incident Donations

	A	В	С	D	Е	F	G	Н		J	К	L	М	Ν	0	Р	Q	R	S
1	BUI_WBN	Organization	Date of donation	Date of donation	Date of donation	First Time_Repeat Donor	FLAG if Specimen sent to BSRI	HIV NAT	HIV Ab	HCV NAT	HCV Ab	HBsAg	Anti_HBc	Date of birth	Date of birth	Date of birth	State of Residence	Race	
2	Max. 20 characters	See pull down list in the cell below	мм	DD	YYYY	FT or RPT	Yes/No	NAT Result	Ab Result	NAT Result	EIA / RIBA Result	EIA or Neutralization Result	EIA Result	мм	DD	YYYY	2 letter abbr.	Provide if available	(M, F or U)
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5																			
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Exhibit D

Data Reporting Form for REDS-II Molecular Surveillance Prevalent and Incident Donations SUPPORT SERVICES OFFICE AMERICAN RED CROSS / THE BLOOD CENTER OF WISCONSIN - VERSION 2

1		P	6	D	E	F	0	н		-	L L	-	M	N	0	D	0	P	6	т
⊢	A	В	U U		E	F	G	H #	1	J	r.	L	M	N	0	Р	ų	ĸ	5	1
1	Sample SSO ID	BULWBN	Organization	Date of donation	Date of donation	Date of donation	First Time_Repeat Donor	FLAG if Speciment ser to BSRI	HIV NAT	HIV Ab	HCV NAT	HCV Ab	HBsAg	Anti_HBc	Date of birth	Date of birth	Date of birth	State of Residence	Race_Ethnicity	Sex
2		Max. 20 characters	See pull down list in the cell below	мм	DD	үүүү	FT or RPT	Yes/No	NAT Result	Ab Result	NAT Result	EIA / RIBA Result	EIA or Neutralization Result	EIA Result	мм	DD	үүүү	2 letter abbr.	Provide if available	(M, F or U)
3																				
4																				
5																				
6																				
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28																				

Exhibit E



Department of Health and Human Services (DHHS) National Institutes of Health (NIH) National Heart, Lung, and Blood Institute (NHLBI)

The Retrovirus Epidemiology Donor Study – II (REDS-II)

A Study on the Safety and Availability of the Nation's Blood Supply

Molecular Surveillance (MS) Study

SPECIMEN TRACKING SYSTEM (STS)

USER'S GUIDE



Westat, September 2007

Molecular Surveillance (MS) Study

The following procedures for the MS study are to be used in conjunction with the Manual of Operations and Procedures (MOP) for the MS study.

*Please note that text in red denotes changes from previously distributed versions of this users guide.

*Text in green denotes ARC specific instructions.

Please contact the STS Help Desk, Danielle Carrick (<u>DanielleCarrick@westat.com</u> or 240-314-5896), Debbie Todd (<u>DeborahTodd@westat.com</u> or 301-738-8315) or Tesa Kochie (<u>TesaKochie@westat.com</u> or 240-314-2540 if you have any questions about using the STS.

The STS and the MS Study

The STS was developed by Westat and customized for REDS-II. A full users guide for the STS can be opened and downloaded from the Home page on the STS website. The following flow charts provide an overview of how the STS will be used to track specimens for the MS study. Please feel free to explore the STS on your own. You will find that there is more than one way to conduct the necessary steps for the MS. However, the procedures detailed in this section are what we recommend.

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A. STS Flow Charts





Step 1: Recording Specimens in the STS Option 1B: Record specimens in the STS all at once



Step 2: Recording Shipments in STS



B. Logging On to the REDS-II STS Website

Overview

- Two separate STS websites are available for you to use.
- The first site is a beta site (<u>https://sts-beta.reds-ii.org</u>), which you can use to test and train on.
- The second site is the true STS site (<u>https://sts.reds-ii.org</u>) for all REDS-II studies. All data that is entered in this site is retained in association with REDS-II.

Procedure

a. For testing and training, use the STS Beta site at:

https://sts-beta.reds-ii.org.

- b. Otherwise, use the "real" STS site for entering study data: <u>https://sts.reds-ii.org</u>.
- c. Enter your login name and password.

Authenticate					
User Name:					
Password:					
Login					
Forgot your password? Contact Help Desk					
Version 1.0.9.8S - 09/11/2006 @09:46					

Figure 1: Login dialog box

d. Once you are logged in, select **Molecular Surveillance** from the **Study** drop down list at the top of the screen.

Retrovirus	Site:	American Red Cross	~		Select the
Epidemiology	Study:	Molecular Surveillance			study here.
Study - I	Searc <u>h</u> :			Go	

Figure F.2: Study drop down list

e. Select the name of the site for which you are recording information about specimens from the **Site** drop down list at the top of the screen.

specimens from the site drop		
etrovirus Epidemiology	Site: American Red Cross	
Study - 1	Search: Go	

Figure F.3: Site drop down list

C. Step 1: Adding specimens to the STS

Overview

 You can add specimens to the STS using two methods: Option A: Add specimens individually Option B: Add specimens all at once (by importing a ..csv file)

** Please note that there are additional instructions for ARC denoted in boldedgreen text below. This is in order to accommodate the need to record the SSO# on the specimen vials, but the BUI/WBN on the MS P&I Data Form.

Procedures

Option A: Add specimens individually

1) Place the cursor on the **Specimens** and select the **Accession** subtab.

Home	Visits	Specimens	Shipments	
About	STS	M Browse	Password	EMail Fax
Welcom	e to the	Accession	n Trackin	g System

Figure F.4: Specimens and accession tabs

2) Click New

Scan or enter ite	em or o	container	code	to pr
New Clear	e			
Process Action: 🗸				<u>G</u> 0

Figure F.5: Click New

3) Select the appropriate **Specimen type** (default is plasma).

Study: Molecular Surveillance	🔍 Current Site:	Blood Center of Wisconsin	e,
Specimen ID:	Next Site:		0
Specimen Type: Plasma Tube (MS)	V 🔍 🛛 Item Status	EXPECTED	
Collection Site: Blood Center of Wisconsin	Reasor	1:	
BUI:	Status Source	e:	
Sequence: 001	Num Thaws	s: 0	
Donation Date:	Num Tests	s: 0	
Volume/Units: 1 ML 💌	Container	r:	
(Modifier:)	In Shipmen	t:	*
	Commen	t:	~

Figure F.6: Specimen details

4) Enter the **BUI*** (or WBN).

10 characters is the preferred minimum, while 20 characters is the maximum. If you use a region code along with the 7 character donation ID, please include this so that we do not get repetitive BUIs across blood centers/organizations.

5) Enter the **sequence** number (default is 001)*.

Three digit sequence numbers (see the MS MOP, Amendment) should be used in association with each tube entered into the STS.

###

For example: 001

Each tube entered into the STS needs to have a sequence number associated with it.

* The STS will combine the BUI ID with the sequence number to generate a **Specimen ID** (unless the **Additional instructions for ARC** are followed below).

Study:	Molecular Surveillance	🔍 Current Site:
Specimen ID:	J	Next Site:

** Additional instructions for ARC:

SpecimenID

Enter the Specimen ID into the Specimen ID field (see Figure F.7).

The Specimen ID is actually the SSO# plus the sequence#.

Therefore you should enter the following in the Specimen ID field for each vial:

SSO# + 3 digit sequence number

Ex.: 095x12345 001

(Please note that the space does not need to be included between the SSO# and the sequence number.)

6) Enter the **donation date** $^{\Omega}$.

 $^{\Omega}$ If more than 1 specimen is entered for a single BUI ID, you do not need to keep entering the donation date.

7) Enter the **volume** of the specimen (in mL; default is 1.0mL).

Figure F.7: Specimen ID field

- 8) If the specimen was hemolyzed, note this in the material **modifiers** field by keying in one of the following: pink or slightly pink
- 9) Click Save.



Figure F.8: Click Save

10) Select a **default container** for you to store the specimen in. Do this by clicking **Select** at the top of the screen. *If you need to create a box in the STS, proceed to step 13*.

Specimens>	Browse	Accession	Boxes	Lists	Import	002 Select	Destroyed	
Collection (does not	have a prir	nary ke	y				
Save Cance) e	Re <u>f</u> resh R	eturn 🛛 🛛	efault (Containe	T: AUTO SE	LECT	Select
								/h

Figure F.9: Click Select

11) Then, click the purple arrow next to the box in which you want to store the specimens.

[Choos	e		🔽 🦊 Re	set 🗏 Sele	ct Record			
C	Selec	:t][None	Search			4 R	ecords	
							Blood Ce	ente 💌	ALL
	Pick	Edit	View	Box ID	Туре	Desc	Site Co	ode	То
1	$(\Rightarrow$)0	0	BOX10BS	9×9		210		BSRI

Figure F.10: Purple selection arrow

12) Select **STORE COMPLETE** from the Action drop down menu next to the item status field that appears. After creating a record for the specimen if the tube is misplaced select **"lost"** or other action as appropriate.

Item Status: EXPECTED	-Select Action-
Reason:	-Select Action-
tatus Source:	STORE.DESTROYED
	LOSI ————

Figure F.11: Drop down menu in the Action History table

After selecting **STORE COMPLETE**, you will see that the **STORE** result is **COMPLETE** and the specimen status is changed to **READY** (i.e. "ready" for shipping to BSRI).

Specimens> Browse Accession Boxes Lists	Import 002 Select Destroyed
895X01608013 STORE result is COMPLETE;	Container BOX10BS; Slot#Row A; Col 7; Status is now PROCESSING
Save New Clear Delete E	Retresh Return Default Container: BOX10BS Select
Process Action: V	llext Slot: Row A; Col 8 🛛 😽 8 out of 80 slots filled
Study: Molecular Surveillance	Current Site: Blood Center of Wisconsin
Specimen ID: 095X01608013	Next Site: Blood Systems Research Institute
Specimen Type: Plasma Tube (MS)	Kem Status: READY
Collection Charles and a start of the	

Figure F.12: Completion message and updated specimen status

- 13) If you need to **create a box**, click the **Boxes** subtab under the **Specimens** main tab.
- 14) Click New.

Home Visits Specimens Shipments								
Specimens> Browse Accession Boxes Lists Import 002 Select Destroyed								
Choose 😪 🗸 Reset New 🦳 Active Boxes for this Study at this Site								
Search 7 Records								
Figure F.13: Boxes Subtab								

pecimens>	Browse	Accession	Boxes
hoose	×	↓ Reset N	<u>ew</u> =
Search		-	F
			0

15) Select the **container type** from the drop down menu.

Project/Study:	Molecular Surveillance	0	Current Site:	Blood Center of Wisc	onsin	•
Container Type:	9x9 💌	e,	Destination:			v 9,
Box ID:	10x10		Other ID:			
Status:	6x5FOAM 7x7		#Slots Filled:	0 of 0		
Description / Content:	8x8 9x9 OTHER		Is In Container: Is In Shipment#		Move	e,
	SHIPMENT	×				*

Figure F.14: Container type drop down menu

Descriptions of the boxes:

7x7 (has 49 slots; holds 48 specimens*)

8x8 (has 64 slots; holds 63 specimens*)

9x9 (has 81 slots; holds 80 specimens*)

10x10 (has 100 slots; holds 99 specimens*)

6X5 FOAM (has 30 slots for 50ml cryovials; holds 29 specimens*)

Other

*All containers should have the bottom right slot left empty

	Col 1	2	3	4	5	6	7	8	9
Row A	1	2	3	4	5	6	7	8	9
В	10	11	12	13	14	15	16	17	18
С	19	20	21	22	23	24	25	26	27
D	28	29	30	31	32	33	34	35	36
E	37	37	39	40	41	42	43	43 44	
F	46	47	48	49	50	51	52	53	54
G	55	56	57	58	59	60	61	62	63
н	64	65	66	67	68	69	70	71	72
I	73	74	75	76	77	78	79	80	0

Figure F.15: Example layout of a 9x9 box type.

The other box types follow a similar layout.

C, 9 = Slot Num 27 F, 7 = Slot Num 52

♦ The lower right corner is always to be left empty.

Project/Study:	Molecular Surveillance	
Container Type:	9x9 🔽 🔍	
Box ID:		
Status:	NEW	
Description / Content:		<

Figure F.16: Enter a unique Box ID

The Box ID should be unique to each container/box. BSRI has provided each center with Box ID labels. Please use those labels for the specimen boxes.

Both the bottom and top of the box should be labeled with the Box ID on the lower right corner:



17) Select **BSRI** as the **Destination** in the drop down menu at the right of the screen.

Project/Study:	Molecular Surveillance	e,	Current Site:	Blood Center of Wisconsin	e,
Container Type:	9x9	▼ €	Destination:	>	~
Box ID:			Other ID:	Blood Systems Research Institute	
Status:	NEW		#Slots Filled:	SeraCare	
		~	Is In Container:	Move	
Description / Content:			Is In Shipment#		
		~			¥

Figure F.17: Destination drop down menu

18) Click Save.

	ilear Delete 🗐	Browse	Re <u>f</u> resh [<u>R</u> eturn	Default (Container:	BOX1	0BS	(Select	
Find/E	·	<u>G</u> o			Next Slo	t: Row A; (Col 9		v 9	out of	80 slo
Project/Study:	Molecular Surveillanc	e	.	Curre	ent Site:	Blood Cent	er of W	isconsin	n		0
Container Type:	9×9	~		Dest	tination:	Blood Sys	tems Re	esearch	Institute		v 🔍
Box ID:	HIVBOX33-10-01-200	17		c	Other ID:						
Status:	NEW	-Select Action	1- 💙	#Slot	s Filled:	0	of 80)			
F	Figure F.18:	Click Sav	'e								

19) After creating a new box, return to the **Specimens**, **Browse** subtab.

Home Visit	s Specir	nens	Ship	ments		
Specimens>	Browse	sion	Boxes	Lists	Import	
Choose	120	Rese	t Ne	we s	specir	nens fo
Search	00			Add To	List	DE DA

Figure F.19: Specimens > Browse subtab

20) Click on the hyperlink for the **Specimen ID** that you need to save in a box. Alternatively, you can enter the BUI into field above the BUI column to filter the list, hit enter, then you can click on the hyperlink for the Specimen ID that you need to save in a box.

Choose 🛛 🔽 🦊 Reset New 🗏 Specimens f								
0.7	Search	1			Add To L	ist 1 Recor		
					009FY09403			
		Edit	View	Specimen ID	BUI	Study Item Code		
		1		095X05121112	009FY09403	MS-PLASMA		

Figure F.20: Hyperlink for the Specimen ID

- 21) Proceed with steps 10 through 12 in this section.
- 22) To enter another specimen in the STS and record in which box it is stored, follow steps 2 through 12 in this section.

Option B: Add specimens all at once (by importing a .csv file)

- 1) Create a ..csv file according to the specifications (see section E, on Pg 28).
- 2) Log into the STS (see section B)
- 3) Select the **Specimens** tab and the **Import** subtab.



Figure F.21: Specimens > Import subtab

4) Click the **Browse** button and select your .csv file.

Study:	Molecular Surveillance	Θ.
Site:	Blood Center of Wisconsin	Required to create items when the lo
Select File:		Browse
		2 mj

Figure F.22: Browse button to select .csv file

5) Click Import.

Study:	Molecular Surveillance	Θ	
Site:	Blood Center of Wisconsin	🔧 Required to create items when the location code	is not in the import file
Select File:	C:\Documents and Settings\kochie_t\D	sktop\BCW tst import3.csv Browse	Import Preview
			23



- 6) At the message prompt, click **OK**.
- 7) Once the import is complete, you will see a new screen that provides you with a log of whether the records were imported/updated in the STS.

10001]: Column [4] StudyltemCode: Maps to StudyltemCode 10001]: Column [5] Volume: Maps to Volume 10001]: Column [6] Modifier: Maps to Modifier 10001]: Column [7] DonationDate: Maps to SubjectCollection.CollectionDate 10001]: Column [8] BoxID: Maps to Batch.BatchCode 10001]: Column [9] BoxType: Maps to Batch.BatchTypeCode,Slot.BatchTypeCode 10001]: Column [10] Slot: Maps to Slot.SlotDesc 10001]: Column [11] ShipDate: Maps to BatchShipment.ScheduledPickUpDate 00011: ------000011: 10002]: 009FY09403> WF:UPDATE: Status=PROCESSING; Updated Root ID; 009FY09 10002]: 009FY09403001> New record inserted 10002]: 009FY09403001> WF:CREATE: Status=EXPECTED; Created; 1 10002]: 009FY09403001> WF:STORE: Status=READY; Storing in HIVB0X33-10-01-; 10002]: 009FY09403001:STORE> Action executed; result=COMPLETE 10002]: 009FY09403001> Item added to container HIVB0X33-10-01-2007 10003]: 009FY09403002> New record inserted 00003]: 009FY09403002> WF:CREATE: Status=EXPECTED; Created; 1.5 10003]: 009FY09403002> WF:STORE: Status=READY; Storing in HIVB0X33-10-01-; 00003]: 009FY09403002:STORE> Action executed; result=COMPLETE 10003]: 009FY09403002> Item added to container HIVBOX33-10-01-2008 10004]: 009FY09403003> New record inserted 10004]: 009FY09403003> WF:CREATE: Status=EXPECTED; Created; 1 10004]: 009FY09403003> WF:STORE: Status=READY; Storing in HIVBOX33-10-01-4 10004]: 009FY09403003:STORE> Action executed; result=COMPLETE 10004]: 009FY09403003> Item added to container HIVB0X33-10-01-2009 100041: 0004]: ______ _____ 10004]: Processing Summary for BCW tst import3.csv 10004]: Processing COMPLETE 10004]: > NUMBER OF LINES 10004]: > NUMBER OF RECORDS: 3 10004]: NO ERRORS encountered 10004]: -------10004]: End of process 10004]: Closed log for session 0bg1b5ujgrjpp555mdwrke55: D:\Websites\reds RK000860002> ERROR: List/Group DuplicateEnrollces_BSR1_Destroy_20072908 was not found RK000909002> ERROR: List/Group DuplicateEnrollees_BSR1_Destroy_20072908 was not found 1: 1: 1: Processing Summary for D:\Websites\sts=reds=II\Docs\tmp\DuplicateEnrollees_BSRI_Destroy. Processing COMPLETE, but with(2 ERRORS) NUMBER OF LINES : 3 NUMBER OF RECORDS: 2 NUMBER OF ERRORS : 2 errors during the import process call : End of process the Coordinating

- Figure F.24: Import process log
- 8) If you included the **Ship Date** field in the import file, then a shipment will automatically be created for all of the specimens/boxes in the import file. The pending shipment is listed in the **pending shipments** table.

Center for assistance

before processing.

	🛿 Choose 🛛 🖌 Reset 🗏 Pending Shipment(s)										
						ALL 💙	ALL 💌	Blood Cente 🔽	ALL 🔽		
	Action	v	liew	STS Shipment ID	3rd Party Shipment #	Status	Status Date	From Site	To Site		
1	-Select-	v (€	SHP000081-210-BSRI		TRANSIT	01/15/2007 10:09:41	210	BSRI		
2	-Select-	v (€	SHP000088-210-BSRI		TRANSIT	05/08/2007 13:17:35	210	BSRI		
3	-Select-	¥ (€,	SHP000121-210-BSRI	30496867776	TRANSIT	09/07/2007 16:36:59	210	BSRI		
<	-Select-	¥ (e,	SHP000125-210-BSRI	2039485767	BEGIN	09/17/2007 11:12:06	210	BSRI		

Figure F.25: Pending Shipments table

 To make sure that the specimens were added to the STS, click the STS Shipment ID hyperlink. Then scroll to the bottom of the page to see the boxes and contents of the boxes.

3	-Select-	*	•	SHP000121-210-BSRI	30496867776	
1	-Select-	*		SHP000125-210-BSRI	2039485767	

Figure F.26: STS Shipment ID hyperlink

10) Alternatively, to make sure that the specimens were added to the STS, go to the Specimens > Browse page and search for one of the BUI IDs that you just imported. You can do this by entering the BUI ID into the field above the BUI column and pressing enter. Adjustments may need to be done to remove spaced in the ID's that are not captured in the STS.

Home Visits Specimens Shipments												
sp	Specimens> Browse Accession Boxes Lists Import 002 Select Destroyed											
Ch	Dhoose 🗸 🗸 Reset New 🖴 Specimens for selected study and site											
Se	Search Add Totist 4 Records											
						009FY0940)3					
J		Edit	View	Specir	men ID	BUI	Stu	idy item Code	Extensi	Ma ion T	terial ype	Vo
[1		095X05 ⁻	121112	009FY0940	3 MS-PI	ASMA	112	PLAS	MA	1 ML

Figure F.27: BUI search field under Specimens>Browse

D. Step 2: Recording Shipments in the STS

Overview

- Depending on which manner you entered specimens into the STS, there are two different ways to record a shipment in the STS:
 - Option A. Shipping to BSRI after entering specimens into the STS individually
 - Option B. Shipping after entering specimens into the STS all at once (i.e. by importing a .csv file)

Option A. Shipping to BSRI after entering specimens into the STS individually

*Please follow the instructions in the MS MOP for details about how to prepare the physical shipment package to BSRI.

- 1) Click Shipments tab and the Process/Edit subtab.
- 2) Click New

Home Visits Specimens Sh	ipments
Shipments> Browse Process/	Edit Outgoing Incoming Boxes Specimens Ready Site Roster
Shipment Record Details	
New Clear 🚍	Re <u>f</u> resh <u>R</u> eturn
Find Sait 🗸	Go

Figure F.28: Shipments > Process/Edit and click New

- 3) Enter the shipment information.
 - a. Leave the **STS Shipment ID** field blank. It will be automatically populated by the STS.
 - b. Enter the FedEx courier shipment number in the **3rd Party Shipment** # field. If another courier will be used, select the appropriate one from the Shipment Type drop down menu.
 - c. Enter the scheduled pick up and scheduled delivery dates.
 - d. Select **BSRI** from the drop down menu in the **Ship To** field.
 - e. Enter the approximate weight of the entire package in the bottom right field, **Weight**.

(See next page for figure)

STS Shipment ID:	Ship From: Blood Center of Wisconsin
Shipment Type FEDEX Y Other:	Ship Too
Transaction of the second seco	Comment:
Shipment Status: BEGIN	Shipping Address
Scheduled Date: 16:00	Simon Ng
Scheduled Delivery: 10:30	Blood Systems Research Institute 270 Masonic Avenue
Sent Date:	San Francisco, CALIFORNIA 94118
Sent Comment:	Instructions:
Receipt Date:	Weight/Units:
Receipt Comment:	Temp Monitor: Yes V DRY-ICE V
	Validate

Figure F.29: Enter the shipment information

4) Click Save.

Create a new	shipn	nent. A shipment
Save Cancel	e	Re <u>f</u> resh <u>R</u> eturn
\bigcirc		

Figure F.30: Click Save

5) A green box at the bottom right of the screen now appears. Scan or key in the **Box ID** for the Box that you wish to add to the shipping container. Then, click **Go** next to the **Add box or item field**.

Box or Item Batch ID: CNT000125-210-BSRI	•	Assign	Add box or item:	Go Select
Figure F	31:	Add box	or item field	

6) Alternatively, you can click the **SELECT** button to bring up a table of all of the boxes at your site (Note: this table also includes the shipment "box").

	Add box or item:	G
nt		

Figure F.32: Select button to choose a box
Then, click the **purple arrow** next to the box that you want to include in the shipment.

Choose VReset E Select Record											
Select None Search 6 Records											
				ALL 🗸	ALL 🔽						
Row Pick	Box ID	Туре	Desc	Site Code	To Site						
Row Pick	Box ID HIVBOX24_10_01_2006	Туре 8x8	Desc	Site Code 240	To Site BSRI						

Figure F.33: Purple selection arrow

7) Then, click **Go** next to the **Add box or item field** by scanning or keying in box or Specimen ID.

Box or Item Batch ID: CNT000127-210-BSRI	🔍 Assign	Add box or item: RK-01-0001-BS	Go/ Select
			U

Figure F.33.a: Click Go.

- 8) To add more boxes to the shipment, follow steps 5-6.
- 9) Scroll to the bottom of the screen to see a table of the boxes in the shipment as well as the content of each box.

Rece	ipt Comment:			~	Ten	np Monitor: Ye	es 🔽 DRN	/-ICE 🔽		
	Validate									
	Container or item RK-01-0001-BS was not found at site									
Box or h	tem Batch ID:	CNT000127-21	D-BSRI	Res Assi	gn	Add box or iter	n:		Go Select	
Chc	ose	🔽 🦊 Rese	t New 🛱 B	oxes in Sh	ipment	6				
	Action	Edit	Box ID 🔪	Туре	Name	Slots Filled	Status	Site Code	Modified Date	
1 -Sele	ect- 💌		3-10-01-2007	9×9	TESTMOP	1	NEW	210	09/21/2007 10:13:03	
Ch/	oose	V 🕹 Res	et New 🗏 🌘	ontent of l	ніувохзз-	10-01-2007				
						ALL 🗸		ALL	*	
Edit	Specimen ID	BUI	Extension	Material	Volume	ltem Status	Slot	Site Code		
1 🖉	009FY0940300	1 009FY09403	001	PLASMA	1 ML	READY	Row A; Col 5	210		

Figure F.33: Tables showing shipment contents

10) Confirm that the Specimens are in the proper location in the box by spot checking the actual location of the vials in the box against the location in the STS.

11) Print a shipment manifest to include in the actual shipping container by clicking the **printer icon** at the top right of the screen.



Figure F.34: Printer icon

Ship From:	Blood Center of Wisconsin	Θ,
Ship To:	Blood Systems Research Institute	EZNotify
Comment:		

Figure F.35: *EZ Notify button used to automatically generate an email message with the shipment manifest attached*

12) Click the **EZ Notify** button to generate an email message. Delete "IWalsh" from the "Email To" line, and add "REDSIICC" & Deborah Bunch to the "Select To" line of the email message. Send the email to <u>REDSIICC@westat.com</u> & <u>dbunch@bloodsystems.org</u> to notify the Coordinating Center and the Central Lab of

the impending shipment.

From: STS

Clear

Clear

Select To:	REDS-II-cc, Westat	
Email To:	WALSH@BLOODSYSTEMS.ORG <mark>;REDSIICC@westat.com</mark>	Send Email
Select To:	REDS-II-cc, Westat	
Email To:	dbunch@bloodsystems.org;REDSIICC@westat.com	Send Email

13) On the day of shipment, click the **Ship** button.

Scheduled Date:	09/21/2007	16:00	
Scheduled Delivery:	09/22/2007	10:30	
Sent Date:	09/21/2007	III Ship	
Sent Comment:		2	~

Figure F.36: Ship button

14) The shipment is now in **TRANSIT** and the **Ship Date** has been filled in. The status of the specimens and boxes are also now in **TRANSIT**.

You can no longer make changes to the specimens, boxes or shipments as they now "belong" to the recipient of the shipment.

STS Shipment ID:	SHP000127-210-BSRI						
Shipment Type:	FEDEX 🔽 0	ther:					
3rd Party Shipment#	TAXCAB		Track				
Shipment Statu		-Select Action	- *				
Scheduled Date:	09/21/2007	16:00					
Scheduled Delivery:	09/22/2007	10:30					
Sent Date	09/21/2007						
Sent Comment:							
Receipt Date:							
Receipt Comment:			× ×				

Figure F.37: Updated Shipment Status and Sent Date

15) Send a fax to Simon Ng at BSRI to notify him of the shipment. You can do this through the STS by going to the **Home** tab and the **Fax** subtab or you can use your own fax machine. You do not need to use both. Fill in all of the pertinent information and attach a completed fax notification form (Exhibit C).

Option B. Shipping after entering specimens into the STS all at once (i.e. by importing a .csv file)

*Please follow the instructions in the MS MOP for details about how to prepare the physical shipment package to BSRI.

- 1) If your imported file contained a **Ship Date** for each specimen, then the shipment has already been started and you should continue to step B.2 below. If your imported file did not contain a Ship Date for each specimen, then you need to follow the Shipping instructions for Option A.
- The shipment is listed in the Pending Shipments table that appears on the Specimens > Import subtab.

	Choose	~	🕹 Reset 🗏 Pend	ing Shipment(s)						
					ALL	*	ALL 🔽	Blood Cente 💌	ALL 🔽	ALL 🗸
	Action	View	STS Shipment ID	3rd Party Shipment #	Status		Status Date	From Site	To Site	Sent Date
1	-Select-	×4	SHP000081-210-BSRI		TRANSIT		01/15/2007 10:09:41	210	BSRI	01/15/2007

Figure F.38: Shipment created from the import file

3) Click the hyperlink for the STS Shipment ID.

- 4) Enter the shipment information.
 - a. The **STS Shipment ID** field has already been populated by the STS.
 - b. Enter the FedEx courier shipment number in the **3rd Party Shipment #** field. If another courier will be used, select the appropriate one from the Shipment Type drop down menu.
 - c. Enter the scheduled pick up and scheduled delivery dates.
 - d. Select **BSRI** from the drop down menu in the **Ship To** field.
 - e. Enter the approximate weight of the entire package in the bottom right field, **Weight**.

STS Shipment ID:			Ship From:	Blood Center of Wisconsin		e,
Shipment Type:	FEDEX 🔽 0	ther:	Ship To:		~ 🔍	EZNotify
rd Party Shipment#		Track	Comment:			~ ~
Shipment Status:	BEGIN		Shipping Address			
Scheduled Date:		16:00	Simon Ng			
Scheduled Delivery:		10:30	Blood Systems Resea 270 Masonic Avenue	rch Institute		
Sent Date:			San Francisco, CALIF	ORNIA 94118		
Sent Comment:		< ×	Instructions:			
Receipt Date:			Weight/Units:	¥		
Receipt Comment:		~	Temp Monitor:	Yes 💟 DRY-ICE 💌		
	L		Validate			

Figure F.39: Enter the shipment information

5) Click Save.

Create a new	shipn	nent.	A sł	ipment
Save Cancel	8	Re <u>f</u> r	esh	<u>R</u> eturn
0				

Figure F.40: Click Save

6) Scroll to the bottom of the screen to see a table of the boxes in the shipment as well as the content of each box.

Receipt Comment: Image: Second Se									
Box or Item Batc	h ID: CN	T000127-210	-BSRI	Resi	ign	Add box or iter	n:		Go Select
Choose		💙 🦊 Reset	New 🛱 🛛	oxes in Shi	ipment	h.			
Action	Ed	it	Box ID	Туре	Hame	Slots Filled	Status	Site Code	Modified Date
1 -Select-	~ /		-10-01-2007	9×9	TESTMOP	1	NEVV	210	09/21/2007 10:13:03
Choose		✓ ↓ Rese	t New 🖴 🌘	Content of I	ніувохзз-	10-01-2007)		
	ALL V								
Edit Specim	en ID	BUI	Extension	Material	Volume	Item Status	Slot	Site Code	
1 🖉 009FY094	03001 0	J9FY09403	001	PLASMA	1 ML	READY	ROW A; COLS	210	

Figure F.41: Shipment content tables

- 7) Confirm that the Specimens are in the proper location in the box by spot checking the actual location of the vials in the box against the location in the STS.
- 8) Print a shipment manifest to include in the actual shipping container by clicking the **printer icon** at the top right of the screen.

Home	Visits	Speci	imens	Shipme	ents	
Shipme	nts> Br	owse	Proce	ss/Edit	Outgoin	ng Incoming
No act	ion pe	forme	d; Cor	ntainer	or item	n RK-01-000
Save	New	<u>C</u> ancel	Delete	<u>A</u> AG)	Re <u>f</u> resh
Find/Edit	t	*			120	Go
					00	

Figure F.42: Printer icon

9) Click the EZ Notify button to generate an email message. Delete "IWalsh" from the "Email To" line, and add "REDSIICC" & Deborah Bunch to the "Select To" line of the email message. Send the email to <u>REDSIICC@westat.com</u> & <u>dbunch@bloodsystems.org</u> to notify the Coordinating Center and the Central Lab of the impending shipment.

Ship From:	Blood Center of Wisconsin	Θ,
Ship To:	Blood Systems Research Institute	EZNotify
Comment:		

Figure F.35: *EZ Notify button used to automatically generate an email message with the shipment manifest attached*

10) On the day of shipment, click the **Ship** button.

Scheduled Date:	09/21/2007	16:00	
Scheduled Delivery:	09/22/2007	10:30	
Sent Date:	09/21/2007	Ship	
Sent Comment:		13	× ×

Figure F.36: Ship button

11) The shipment is now in **TRANSIT** and the **Ship Date** has been filled in. The status of the specimens and boxes are also now in **TRANSIT**.

STS Shipment ID:	рнрооо127-210-е	BSRI	
Shipment Type:	FEDEX 🔽	Other:	
3rd Party Shipment#	TAXCAB		Track
Shipment Statu		-Select Action	- •
Scheduled Date:	09/21/2007	16:00	
Scheduled Delivery:	09/22/2007	10:30	
Sent Date	09/21/2007		
Sent Comment:			~ ~
Receipt Date:			
Receipt Comment:			< <

Figure F.37: Updated Shipment Status and Sent Date

12) Send a fax to Simon Ng at BSRI to notify him of the shipment. You can do this through the STS by going to the **Home** tab and the **Fax** subtab or you can use your own fax machine. You do not need to use both. Fill in all of the pertinent information and attach a completed fax notification form (Exhibit C).

E. Instructions for Completion of the Specimens Import File (for Step 1, Option B)

Overview:

- Create a .csv file listing all of the specimens to be included in the shipment to BSRI.
- You can do this by creating an Excel file that has the variables listed in Table F.1 (at the end of this section) and saving it as a .csv file (Note: just renaming the file as a .csv file type will <u>not</u> work, it must be saved as a .csv file).
- Be sure to enter all of the numerical values as "text" values in order to maintain the leading zeroes.
- The columns must be named exactly as specified in Table F.1. However, the order in which the columns are placed is not essential.
- Instructions for importing the file into the STS are found in Section C.

** Please note that there are additional instructions for ARC denoted in boldedgreen text below. This is in order to accommodate the need to record the SSO# on the specimen vials, but the BUI/WBN on the MS P&I Data Form.

Example .xls and ..csv files: Note: Test import of ..csv files on Beta site.

All centers except ARC

	A	B	С	D	E	F	G	Н		J
1	BUI	SSO#	StudyltemCode	Volume	Modifier (if needed)	DonationDate	BoxID	BoxType	Slot	ShipDate (optional)
2	303TK25299	095X 12345 013	ms-plasma	2	pink	04/28/2007	BC-06-HBV-RS	9X9	1	101/02/2007
3	303DT25101	095X 54321 013	ms-plasma	4		05/22/2007	BC-06-HBV-RS	9X9	2	101/02/2007
А										

💁 TextPad -	 SecE_nonARC _ImportFile.csv 	
📔 File Edit	it Search View Tools Macros Configure Window Help	
0 📽 🖬	- 目 曇 Q, 図 炎 喩 亀 ユ ☆ 毒 末 幸 ¶ ⊗ ♡ ᢢ Q, 夜 ¢ № →	№ ?
BUI.Segu	guence.StudvItemCode.Volume.Modifier (if needed).DonationDate.BoxID.BoxType.S	lot.ShipDate (optional)

BUI, Sequence, StudyItemCode, Volume, Modifier (if needed), DonationDate, BoxID, BoxType, Slot, ShipDate (optional) 303TK25299,013,ms-plasma,2,pink,04/28/2007,BC-06-HBV-RS,9X9,1,101/02/2007 303DT25101,013,ms-plasma,4,,05/22/2007,BC-06-HBV-RS,9X9,2,101/02/2007

ARC file:

	A	В	С	D	E	F	G	Н		J
1	BUI	Sequence	StudyltemCode	Volume	Modifier (if needed)	DonationDate	BoxID	BoxType	Slot	ShipDate (optional)
2	303TK25299	13	ms-plasma	2	pink	4/28/2007	BC-06-HBV-RS	9X9	1	101/02/2007
3	303DT25101	13	ms-plasma	4		5/22/2007	BC-06-HBV-RS	9X9	2	101/02/2007

	TextPad	. S	SecE_	ARC	:_Imp	ortFile_	Examp	le.csv											
	File Edit	Search	View	Tools	Macros	Configure	e Window	/ Help											
]] ĭ) 🖻 🗌	1 🛛 🖉	5 🗟		X 🖻	6 9	요 🖷		¶	🏈 🂝	₽↓ 🛃		¢ 强	• 110	•	\?			
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- 3	303TK25	299,09	5X 12	345	013,ms	s-plasm/	a,2,pir	ık,04∕2	8/200)7,BC-	-06-HB	V-RS, 9	X9,1,	101/02	/2007				
- 3	303DT25	101.09	5X 54	321	013.ms	s-plasm/	a.405	5/22/20	07.BC	C-06-H	HBV-RS	.9X9.2	.101/	02/200	7				

Variable descriptions:

** Instructions for ARC:

<u>BUI</u>

Enter the BUI or WBN (10 characters preferred minimum, 20 characters maximum) for this donation. If you use a region code along with the 7 character donation ID, please include this so that we do not get repetitive BUIs across blood centers/organizations.

<u>SpecimenID</u> Add a column to the .csv file for the Specimen ID.

The title of the column should be: SpecimenID

The Specimen ID is actually the SSO# plus the sequence#.

Therefore you should enter the following in the Specimen ID column for each vial:

SSO# + 3 digit sequence number

Ex.: 095x12345 001

(Please note that the space does not need to be included between the SSO# and the sequence number.)

Sequence

Three digit sequence numbers (see the MS MOP, Amendment) should be used in association with each tube entered into the STS.

Each tube entered into the STS needs to have a sequence number associated with it. The sequence number must be in the following format in the .csv file (please note that if you are entering this in Excel, which will then be saved as a .csv file, you should enter the sequence number as a "text" field so that the leading zeroes are not cut off):

###

For example: 001

StudyI temCode

This is the material type of the specimen. For MS, the only options are plasma and serum. Enter one of the following into this column for each specimen:

MS-Plasma MS-Serum

<u>Volume</u>

The volume in the tube should be recorded in the STS. The default volume is 1.0 mL. If the volume in your tube is 1.0 mL, then you can leave the Volume variable out of the .csv file. However, if the volume in your tube is less than or greater than 1.0 mL, you need to indicate the approximate volume (in mL) in the tube.

For example: 1.5

Modifier

If the specimen is hemolyzed, note that in this field. Do this by entering one of the following for the Modifier variable field:

Pink Slightly pink

DonationDate

Enter the donation date from which the specimen was obtained from the donor. The format of the date needs to be:

MM/DD/YYYY

For example: 01/01/2006

<u>BoxID</u>

Each specimen entered into the STS must be stored in a container/box. Therefore, each specimen in the .csv file must have a Box ID associated with it. BSRI has prepared and sent each center Box ID labels. Please use those Box ID labels.

Both the bottom and top of the box should be labeled with the Box ID on the lower right corner:



<u>BoxType</u>

Each specimen entered into the STS must be stored in a container/box. Unless the particular container/box in which you will store the specimens already exists within the STS, you need to designate the Box Type along with the Box ID. Enter one of the following for the Box Type:

7x7 8x8 9x9 10x10 6X5 FOAM Other Descriptions of the boxes:

7x7 (has 49 slots; holds 48 specimens*)

8x8 (has 64 slots; holds 63 specimens*)

9x9 (has 81 slots; holds 80 specimens*)

10x10 (has 100 slots; holds 99 specimens*)

6X5 FOAM (has 30 slots for 50ml cryovials; holds 29 specimens*) Other

*All containers should have the bottom right slot left empty

<u>Slot</u>

Each specimen entered into the STS must be stored in a container/box. The exact location (i.e. slot) in the box in which the specimen is stored should be recorded. The slot located in the lower right corner should always be left empty; it is used to help orient the direction of the box.

You can do this by recording the Slot in the .csv file as either a Row and Column*:

Ex. Row A; Col 1 Row A; Col 2 Row A; Col 3 Row A; Col 4

* The Row and Column designations must be in this exact format (Row X; Col #) for the STS to recognize it as a valid slot.

Or, you can do this by recording the Slot in the .csv file as a number**:

** Please note that the slot number corresponds to a particular Row and Column:

1 = Row A; Col 1 2 = Row A; Col 2 3 = Row A; Col 3 4 = Row A; Col

	Col 1	2	3	4	5	6	7	8	9
Row A	1	2	3	4	5	6	7	8	9
В	10	11	12	13	14	15	16	17	18
С	19	20	21	22	23	24	25	26	27
D	28	29	30	31	32	33	34	35	36
E	37	37	39	40	41	42	43	44	45
F	46	47	48	49	50	51	52	53	54
G	55	56	57	58	59	60	61	62	63
Н	64	65	66	67	68	69	70	71	72
Ι	73	74	75	76	77	78	79	80	0

Figure F.38. Example layout of a **9x9** box. The other box types follow a similar layout.

♦ The lower right corner is always to be left empty.

C, 9 = Slot Num 27
F, 7 = Slot Num 52

ShipDate

This is the scheduled date for the shipment. A ship date does not need to be specified in the .csv file. However, if a ship date is specified, a shipment will automatically be created and the item will be put into the shipment. The format of the ship date should be:

MM/DD/YYYY

For example: 01/02/2006

Table F.1. Specimens Import File Specifications

*The order of the columns is not essential for the .csv file. However, the names of the variables should be kept exactly as specified in the variable column below.

Column				
А	BUI	Blood Unit Identifier / Whole Blood Number	Up to 20	
В	Sequence	Three digit sequence numbers for specimen tubes from the same BUI	3	001 (up to 999)
С	StudyItemCode	Material Type (either serum or plasma)	9	MS-Serum MS-Plasma
D	Volume	Specimen volume in the tube (if it is less than or greater than 1.0mL)	3	
E	Modifier	Indicate whether the specimen was hemolyzed		Pink Slightly Pink
F	DonationDate	Date the donor donated blood	8	MM/DD/YYYY
G	BoxID	Id label on the box that stores the specimen		
Н	ВохТуре	Type of box used to store the specimen	7	7x7 8x8 9x9
		7x7 (has 49 slots; holds 48 specimens*)		10x10 6X5 FOAM
		8x8 (has 64 slots; holds 63 specimens*)		OTHER
		9x9 (has 81 slots; holds 80 specimens*)		
		10x10 (has 100 slots; holds 99 specimens*)		
		6X5 FOAM (has 30 slots for 50ml cryovials; holds 29 specimens*)		
		OTHER		
		*All containers should have the bottom right slot left empty		
Ι	Slot	The slot in the box in which the specimen is stored You can either record the slot as:		1, 2, 3, (and so on until the slots in the box are filled)
		Row A; Col 1 Row A; Col 2		OR
		OR		Row A; Col 1 Row B: Col 2
		1 2 3		(and so on until the slots in the box are filled)
		(in the latter case, the STS will associate slot "1" with Row A; Col 1)		
J	ShipDate	Scheduled date for the shipment.	8	MM/DD/YYYY
		If a date is specified, a shipment will be created and the item will be put into the shipment.		
К	Specimen I D	SSO# + Sequence number (ARC)	Up to 20	SSO# + Sequence#
		Example: 095x12345 001		BUI + Sequence # (non ARC)

Exhibit G

Instructions for Aliquoting and Labeling Specimens

- The aliquoting and labeling procedures have been revised by the Central Laboratory, BSRI, to address samples collected which may have more than the minimum volume of 1.0-mL described in the original protocol.
- The intent for the study is to receive adequate volume for designated testing and whenever possible to also save volume for long term storage and future testing capability. The original protocol stated to save 1.0-ml; however, when feasible the total optimal sample volume is 10mL (or more) to be aliquoted into 2 to 9 (or more) cryovials.
- It is not necessary to re-aliquot specimens for the first wave of shipments to the Central Laboratory but if at all possible, all subsequent shipments are to follow these guidelines.

G.1. Confirmed HIV Donations:

Aliquoting of confirmed HIV donations includes the use of 3 different types/sizes of cryovials as displayed in Table 1 below. The source material for these vial types can be either plasma or serum or both. In the event that there is not enough volume for all of the aliquots to be made, the priority is specified in the far left column in Table 1 shown below.

Cryovial	Vial	Material type	Volume	Purpose
Priority	Sequence			
1	-001 or	Plasma or	0.1mL	LS-EIA
	-101	Serum		
2	-002 or	Plasma or	0.5 to 1.0 mL*	Gen. Seq.
	-102	Serum		
3	-003 or	Plasma or	Up to 4.5mL**	Repository
	-103	Serum		
4 etc.***	-004 etc. or	Plasma or	Up to 4.5 mL	Repository
	-104 etc.	Serum		

Table 1: Confirmed HIV donations

* Since collection has already been performed, less volume is expected from the retrospective donors (January through June 2006) as opposed to the prospective donors in the following 2.5 years for which additional volume for aliquots may be available. The minimum volume for testing is 0.5mL, although 1.0mL is optimal when enough plasma or serum is available for the -002 or -102 series of cryovials. If only 1mL of source material is available, then place 0.5mL into a 2mL cryovial for testing and any residual volume into a 5mL cryovial for the repository.

** Sequence numbers -003 and -004 represent source material that will be placed in a HIV repository. The 5mL cryovials are for the repository; therefore, as much source material as possible should be collected. Aliquot residual volume between two or more 5.0mL cryovials, when more than 4.5mL¹ for one vial is available per source material.

*** If a large volume of material is available from the plasma unit for aliquoting, then a maximum of 7 cryovials, i.e. sequence numbers 003, 004, 005, 006, 007, 008 and 009, should be made.

1. Do not place more than 4.5mL into a 5mL cryovial, because the source material will expand during the freezing process.

Note: Knowledge of source material, designated by cap color, is important to track, but either source material is acceptable.

G.1.1. Processing Aliquots

Since only the BUI/WBN will be on the labels, sequence/suffix numbers will be determined by the color cap on the cryovial as well as recorded numerically in the STS. The sequence numbers are very important for specimen tracking and data analysis. The subsequent color scheme should be followed when placing the color caps on the cryovials:

	Cryovial Color Scheme		
Purple cap =	Plasma 0.1mL	Sequence -001	
Green cap =	Serum 0.1mL	Sequence -101	
Yellow cap=	Plasma 0.5 – 1.0mL	Sequence -002	
Blue cap =	Serum 0.5 – 1.0mL	Sequence -102	11
Clear cap =	Plasma 0.4 – 4.5mL	Sequence -003	
Amber cap =	Serum 0.4 – 4.5mL	Sequence -103	J

Exhibit G

Specimens Chapter 2

G.1.2. Application of Labels to Aliquots

BUI/WBN labels with barcodes should be placed on cryovials with barcode lines running horizontally to top and bottom of cryovial, as shown below:







See instructions given in section 3.4.2

Specimens Chapter 2 G.2. Confirmed HBV and HCV Donations:

Since there is no additional testing for confirmed HBV and HCV donations as there is for HIV (LS-EIA), this requires only 2 different types of cryovials as opposed to the 3 for HIV, as displayed in Tables 2 and 3 below. Once again, the source material for these vials can be either plasma or serum or both. In the event that there is not enough volume for all of the aliquots to be made, the priority is specified in the far left column in the two tables shown below.

 Table 2: Confirmed HBV donations

Cryovial	Vial Sequence	Material	Volume	Purpose
Priority		type		
1	-012 or	Plasma or	0.5 to 1.0 mL*	Gen. Seq.
	-112	Serum		
2	-013 or	Plasma or	Up to 4.5 mL* *	Repository
	-113	Serum		
3 etc.***	-014 etc. or	Plasma or	Up to 4.5mL	Repository
	-114 etc.	Serum		

Table 3: Confirmed HCV donations

Cryovial	Vial Sequence	Material	Volume	Purpose
Priority		type		
1	-022 or	Plasma or	0.5 to 1.0 mL*	Gen. Seq.
	-122	Serum		
2	-023 or	Plasma or	Up to 4.5 mL* *	Repository
	-123	Serum		
3 etc.***	-024 etc. or	Plasma or	Up to 4.5mL	Repository
	-124 etc.	Serum		

* Since collection has already been performed, less volume is expected from the retrospective donors (January through June 2006) as opposed to the prospective donors in the following 2.5 years for which additional volume and aliquots may be available. The minimum volume for testing is 0.5mL, although 1.0mL is optimal when enough plasma or serum is available for the -012 / -112 or -022/-122 series of cryovials. If only 1mL of source material is available, then place 0.5mL into a 2mL cryovial for testing and any residual volume into a 5mL cryovial for repository storage.

** Sequence numbers 013/023 and 014/024 represent source material that will be placed in a HBV/HCV repository. The 5mL cryovials are for the repository; therefore, as much source material as possible should be collected. Aliquot residual volume between two or more 5.0mL cryovials, when more than 4.5mL² for one vial is available per source material.

*** If a large volume of material is available from the plasma unit for aliquoting, then a maximum of 7 cryovials, i.e. sequence numbers 013, 014, 015, 016, 016, 018 and 019, should be made. (The same sequence numbering should be followed for HCV except second digit should be a 2 as shown in Table 3).

2. Do not place more than 4.5mL into a 5mL cryovial, because the source material will expand during the freezing process.

G.2.1. Processing Aliquots

Since only the BUI/WBN will be on the labels, sequence/suffix numbers will be determined by the color cap on the cryovial as well as recorded numerically in the STS. The sequence numbers are very important for specimen tracking and data analysis. The subsequent color scheme should be followed when placing the color caps on the cryovials (shown for both confirmed HBV and HCV donations respectively):

Cryovial Color Scheme				
Yellow cap=	Plasma 0.5 – 1.0mL	Sequence -012/-022	Ŧ	
Blue cap =	Serum 0.5 – 1.0mL	Sequence -112/-122	1.8	
Clear cap =	Plasma 0.4 – 4.5mL	Sequence -013/-023	M N	
Amber cap =	Serum 0.4 – 4.5mL	Sequence -113/-123		



Figure 2: HBV Aliquoting Flowchart

See instructions given in section 3.4.2

Figure 3: HCV Aliquoting Flowchart



See instructions given in section 3.4.2

Exhibit H

Aliquoting Job Aids

H.1. HIV Aliquots for Molecular Surveillance Study

Cryovial Priority	Volume	Purpose
1	0.1mL	LS-EIA
2	0.5 to 1.0 mL	Gen. Seq.
3	Up to 4.5mL	Repository
4 etc.	Up to 4.5mL	Repository

Cryovial Color Scheme

	LS-EIA	Gen. Seq.	Repository	Repository	Repository
Color Cap	Purple – Plasma	Yellow – Plasma	Clear – Plasma	Clear – Plasma	Clear – Plasma
Required	Green - Serum	Blue – Serum	Amber - Serum	Amber - Serum	Amber - Serum
Volume	0.1mL	0.5 - 1.0 mL	0.4 - 4.5 mL	0.4 - 4.5 mL	0.4 - 4.5 mL
Required					
Sequence	001 – Plasma	002 – Plasma	003 – Plasma	0 0 4 – Plasma	0 0 5 – Plasma
Number	1 0 1 - Serum	1 0 2 - Serum	1 0 3 - Serum	1 0 4 - Serum	1 0 5 – Serum
Boxing	2" Freezer Box	2" Freezer Box	3"Freezer Box	3"Freezer Box	3"Freezer Box
Requireme	HIV-LS-EIA	HIV-GEN-S	HIV-RS	HIV-RS	HIV-RS
nts					

Note: Continue Repository up to 7 aliquots if volume is available. The sequence number will end in 09.

Exhibit H

Aliquoting Job Aids H.2. HBV Aliquots for Molecular Surveillance Study

Cryovial Priority	Volume	Purpose
1	0.5 to 1.0 mL	Gen. Seq.
2	Up to 4.5mL	Repository
3	Up to 4.5mL	Repository
4 etc.	Up to 4.5mL	Repository

Cryovial Color Scheme

	Gen. Seq.	Repository	Repository	Repository
Color Cap	Yellow – Plasma	Clear – Plasma	Clear – Plasma	Clear – Plasma
Required	Blue – Serum	Amber - Serum	Amber - Serum	Amber - Serum
Volume	0.5 – 1.0mL	0.4 - 4.5 mL	0.4 - 4.5 mL	0.4 – 4.5mL
Required				
Sequence	012 – Plasma	0 1 3 – Plasma	0 1 4 – Plasma	0 1 5 – Plasma
Number	1 1 2 - Serum	1 1 3 - Serum	1 1 4 - Serum	1 1 5 – Serum
Boxing	2" Freezer Box	3"Freezer Box	3"Freezer Box	3"Freezer Box
Requirements	HBV-GEN-S	HBV-RS	HBV-RS	HBV-RS

Note: Continue Repository up to 7 aliquots if volume is available. The sequence number will end in 19.

H.3. HCV Aliquots for Molecular Surveillance Study

Cryovial Priority	Volume	Purpose
1	0.5 to 1.0 mL	Gen. Seq.
2	Up to 4.5mL	Repository
3	Up to 4.5mL	Repository
4 etc.	Up to 4.5mL	Repository

Cryovial Color Scheme

	Gen. Seq.	Repository	Repository	Repository
Color Cap		Clear – Plasma	Clear – Plasma	Clear – Plasma
Required	Blue – Serum	Amber - Serum	Amber - Serum	Amber - Serum
Volume	0.5 - 1.0 mL	0.4 - 4.5 mL	0.4 - 4.5 mL	0.4 - 4.5 mL
Required				
Sequence	0 2 2 – Plasma	0 2 3 – Plasma	024 - Plasma	0 2 5 – Plasma
Number	1 2 2 - Serum	1 2 3 - Serum	1 2 4 - Serum	1 2 5 – Serum
Boxing	2" Freezer Box	3"Freezer Box	3"Freezer Box	3"Freezer Box
Requirements	HCV-GEN-S	HCV-RS	HCV-RS	HCV-RS

Note: Continue Repository up to 7 aliquots if volume is available. The sequence number will end in 29.

Exhibit I

BSRI Supply Request Form REDS-II Molecular Surveillance Materials

Version: 9/20/2007

Email request to: <u>dbunch@bloodsystems.org</u>

Item	Company	Catalog #	Amount			
Molecular Surveillance						
0.5 mL cryovial	Sarstedt	72.730.711				
2.0 mL cryovial	Sarstedt	72.664.711				
5.0 mL cryovial	Sarstedt	60.557				
Yellow caps	Sarstedt	65.716.002				
Green caps	Sarstedt	65.716.005				
Violet caps	Sarstedt	65.716.008				
Blue caps	Sarstedt	65.716.001				
Amber caps	Sarstedt	65.1121.008				
Clear caps	Sarstedt	Included with 0.5 mL cryovials	NA			
BloodBlocs*	Fisher	06-670-35				
2" Freezer box	Sarstedt	95.064.981				
3" Freezer box	VWR	14230-204				
Freezer Box Labels	BSRI	HBV	Start # Stop #			
Freezer Box Labels	BSRI	HCV	Start # Stop #			
Freezer Box Labels	BSRI	HIV	Start # Stop #			
Transfer pipets	Sarstedt	86.1171.020				

Transfer pipets	Sarstedt	86.1171.020	

Ship	supplies	to
-	· · F F · · ·	

Name: Email: Address: City: State: Zip Code: Phone: Date requested: Estimated date supplies are required:

Comments:

