

National Institute of Neurological Disorders and Stroke Biorepository:

BioSpecimen Exchange for Neurological Disorders, BioSEND

Biospecimen Collection, Processing, and Shipment Manual for
The Late Effects of TBI (LETBI)



Table of Contents

1.0	<u>Purp</u>	<u>ose</u> 4				
2.0	<u>Abbr</u>	eviations4				
3.0	BioSEND Information5					
	3.1	BioSEND Contacts				
	3.2	Hours of Operation				
	3.3	Holiday Schedules				
	3.4	Holiday Observations				
4.0	BioSE	BioSEND Sample Requirements				
	4.1	Protocol Schedule for Biospecimen Submission – LETBI				
5.0	Speci	Specimen Collection Kits, Shipping and Supplies9				
	5.1	Kit Supply to Study Sites				
	5.2	Specimen Collection Kit General Contents				
	5.3	Specimen Collection Kit Contents				
	5.4	Site Required Equipment				
6.0	Specimen Labels					
	6.1	Types of Labels				
	6.2	Affixing Labels				
7.0	Speci	Specimen Collection and Processing Procedures16				
	7.1	Order of Specimen Collection				
	7.2	Blood Collection Protocols				
	7.3	<u>Lumbar Puncture Protocol</u>				
	7.4	Filling Aliquot Tubes (Plasma, Serum, Buffy Coat, and CSF)				
	7.5	<u>Urine Collection Protocols</u>				
8.0	<u>Packa</u>	aging and Shipping Instructions18				
	8.1	Sample Record and Shipment Notification Form and CSF Processing Form				
	8.2	Shipping Instructions				
	8.3	Shipping Address				
9.0	<u>Data</u>	Queries and Reconciliation20				
10.0	Appe	<u>ndices</u> 21				
	Appe	ndix B: Whole Blood Collection for Isolation of Plasma				
	Appe	ndix C: Whole Blood Collection for Isolation of Buffy Coat				



Appendix I: Sample Record and Shipment Notification Form

Appendix K: Frozen Shipping Instructions

Appendix Q: UPS ShipExec™ Thin Client Instructions



1.0 PURPOSE

The purpose of this manual is to provide collection site staff (PIs, study coordinators, and the sample collection and processing teams) at various study sites with instructions for collection and submission of biological samples. It includes instructions for biospecimen submission to the BioSpecimen Exchange for Neurological Disorders (BioSEND) located at Indiana University.

This manual includes instructions for the collection, processing, aliquoting and shipping of the following samples:

- Plasma
- Buffy Coat (for DNA extraction)

These procedures are relevant to all study personnel responsible for processing blood specimens to be submitted to BioSEND.

2.0 ABBREVIATIONS

BioSEND BioSpecimen Exchange for Neurological Disorders

EDTA Ethylene Diamine Tetra-acetic Acid
IATA International Air Transport Association

RBC Red Blood Cells

RCF Relative Centrifugal Force RPM Revolutions Per Minute



3.0 BIOSEND INFORMATION

3.1 BioSEND Contacts

Tatiana Foroud, PhD, Principal Investigator

Phone: 317-274-2218 Email: tforoud@iu.edu

Claire Wegel, Project Manager

Phone: 317-278-6158 Email: cdunifon@iu.edu

General BioSEND Contact Information

Fax: 317-278-1100 Email: <u>biosend@iu.edu</u> Website: www.BioSEND.org

Sample Shipment Mailing Address

BioSEND Indiana University School of Medicine 351 W. 10th Street. TK-217 Indianapolis, IN 46202-5188

3.2 Hours of Operation

Indiana University business hours are from 8 AM to 5 PM Eastern Time, Monday through Friday.

Frozen samples must be shipped Monday- Wednesday only.

For packaging and shipment details, please refer to Appendix K (Frozen Shipping Instructions).

Check the weather reports and the courier website to make sure impending weather events (blizzards, hurricanes, etc.) will not impact the shipping or delivery of the samples. FedEx® often reports anticipated weather delays on their website.



3.3 Holiday Schedules

- Please note that courier services may observe a different set of holidays.
 Please be sure to verify shipping dates with your courier prior to any holiday.
- Weekend/holiday deliveries will not be accepted.

3.4 Holiday Observations

Date	Holiday		
January 1	New Year's Day		
3 rd Monday in January	Martin Luther King, Jr Day		
4 th Monday in May	Memorial Day		
June 19	Juneteenth (observed)		
July 4	Independence Day (observed)		
1 st Monday in September	Labor Day		
4 th Thursday in November	Thanksgiving		
4 th Friday in November	Friday after Thanksgiving		
December 25	Christmas Day		

Please note that BioSEND is open to essential operation only during the last two weeks of the year. Advance notice of this closure will be sent to all study staff and a notification will be posted on biosend.org

Please see https://www.biosend.org/holiday_closures.html for additional information.



4.0 BIOSEND SAMPLE REQUIREMENTS

NINDS approves each study for a specific biospecimen collection protocol. Studies and study sites should make every effort to meet their approved biospecimen collection requirements. The expected number of samples from each site that should be returned to BioSEND are listed in sections 4.1-4.2.

If a sample is not obtained at a particular visit, this should be recorded in the notes section of the **Sample Record and Shipment Notification Form (see Appendix I).** These forms are submitted with your sample shipment to BioSEND.



4.1 Protocol Schedule for Biospecimen Submission to BioSEND- LETBI

Visit	V0	V1	V2	V3	V4
Plasma aliquots, 1.5ml	6	6	6	6	6
Buffy Coat	2	2	2	2	2



5.0 Specimen Collection Kits, Shipping Kits and Supplies

Research specimen collection kits will be provided by BioSEND. BioSEND will provide supplies and labels only for those specimens that are to be shipped back to the BioSEND repository. Any tubes that will remain at the collection site should be labeled accordingly. Ensure that all tubes are properly labeled during processing and at the time of shipment according to Section 6.2.

5.1 Kit Supply to Study Sites

Each individual site will be responsible for ordering kits from BioSEND. We advise sites to proactively confirm kits are on hand ahead of study visits.

Within the kit request module, there is a drop down menu to request kits based on site institution. Kits and individual items can be ordered as required through the kit request module.

The link to the kit request module is shown below:

o LETBI: http://kits.iu.edu/biosend/letbi

Please allow **TWO weeks** for kit orders to be processed and delivered.



5.2 Specimen Collection Kit General Contents

Collection kits contain the following (for each subject) as designated per your protocol and/or NINDS resource development agreement. Kits provide the necessary supplies to collect samples from a given subject. Do not replace or supplement any of the tubes or kit components provided with your own supplies unless you have received approval from the NINDS/BioSEND Study team to do so. *Please store all kits at room temperature until use.* Note that "supplemental" kits will be provided should you require additional supplies from those contained in the visit specific kits.

BioSEND Supplies

Available upon request from the online kit request module (Section 5.1)

General Items
25 cell cryobox
Cryogenic Vials
Airway bill envelope
Shipping container for dry ice shipment
(shipping and Styrofoam® box)
Sterile pipettes (3ml)
Plastic biohazard bag with absorbent sheet
Shipping label packet (dry ice, fragile, and UN3373
label)
Blood Collection Items
Purple-top EDTA blood collection tube (plastic, 10 ml)

We realize there may be instances where additional supplies are needed; therefore, one supplemental kit will be provided with the initial kit shipment for new studies. Replacement supplemental kits can be requested on the kit request website. In addition, individual supplies can be requested as well.



5.3 Specimen Collection Kit Contents – LETBI

Supply	Quantity
10mL EDTA tube, plastic	2
Purple cryovial, micronic (2 ml)	6
Grey cryovial, micronic (2 ml)	2
Disposable transfer pipette (3ml)	2
48-slot micronic cryovial tray	1
Biohazard bag with absorbent sheet	1
Air waybill envelope	1
Shipping label packet	1
Dry Ice Shipper	1
Specimen/Case label set	1



5.4 Site Required Equipment

The following materials and equipment are necessary for the processing of specimens at the collection site and are to be **supplied by the local site**:

- > Personal Protective Equipment: lab coat, nitrile/latex gloves, safety glasses
- > Tourniquets
- Alcohol Prep Pads
- Gauze Pads
- > Bandages
- > Butterfly needles and hubs
- > Microcentrifuge tube rack
- > Test tube rack
- > Sharps bin and lid

In order to process samples consistently across all projects and ensure the highest quality samples possible, project sites must have access to the following equipment:

- > Centrifuge capable of ≥ 1500 rcf (1500 x g)
- > -80°C Freezer

In order to ship specimens, you must provide:

> Dry ice (approximately 10 pounds per shipment)



6.0 SPECIMEN LABELS

Labels must be affixed on all collection and aliquot tubes to ensure unique specimen identity. BioSEND provides labels for all samples being collected and returned to BioSEND. The site is responsible for providing labels for biospecimens that will be retained at the site.

6.1 Types of Labels

Each kit contains all labels required for the return of biospecimens to BioSEND.



The **Case Labels** do not indicate a specimen type, but are affixed on BioSEND forms and on specific packing materials. See Appendix K for further instructions.



The **Collection Tube Labels for Blood** are placed on all blood collection tubes. See Appendices B-C for further instructions.



Plasma and Buffy Coat Aliquot Tubes will come pre-labeled with the study abbreviation, specimen type, and ST number. The tube itself with have a unique barcode printed in both 2D format (on bottom of tube) and human readable formats (alongside of tube). The barcoded cryovials in a kit are linked to the ID on the labels

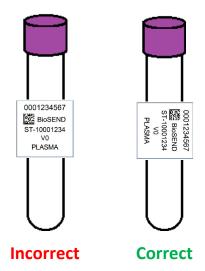
provided in that kit in the BioSEND LIMS.



6.2 Affixing Labels

In order to ensure the label adheres properly and remains on the tube, <u>follow</u> these instructions:

- Place blood collection labels on <u>ALL</u> collection tubes <u>BEFORE</u> sample collection, sample processing, or freezing. This will help to ensure the label properly adheres to the tube before exposure to moisture or different temperatures.
- The blood collection tube labels contain a 2D barcode on the left hand side of the label. When turned horizontally, the barcode should be closer to the top (cap end) of the tube.
- Place label <u>horizontally</u> on the tube (wrapped around sideways if the tube is upright); see below.



- For plasma and buffy coat labels, ensure the specimen label is placed on the correct cryovial. The purple cryovials should be labeled for plasma and the grey cryovials should be labeled for buffy coat.
- The barcoded cryovials in a kit are linked to the ID on the labels provided in that kit in the BioSEND LIMS. <u>Please do not mix the labels and cryovials from</u> different kits.



7.0 Specimen Collection and Processing Procedures

Consistency in sample collection and processing is essential for biomarker studies. All samples are drawn in the same order and then processed in a uniform fashion. Please read the instructions before collecting any specimens. Have all your supplies and equipment out and prepared prior to drawing blood.

7.1 Collection Tubes for BioSEND

1. EDTA (purple top, 10ml) x 2 for plasma and buffy coat

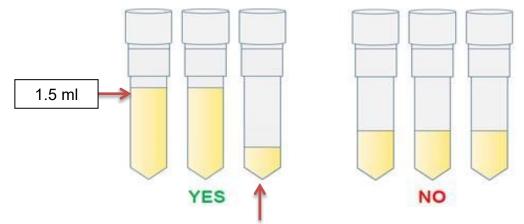
7.2 Blood Collection Protocols

- 1. EDTA (lavender top) blood collection for plasma (Appendix B)
- 2. EDTA (lavender top) blood collection for Buffy Coat (Appendix C)



7.4 Filling Aliquot Tubes (Plasma and Buffy Coat)

In order to ensure that BioSEND receives a sufficient amount of sample for processing and storage, and to avoid cracking of the tubes prior to shipment, each aliquot tube should be filled to the standard volume for that sample type. Overfilled tubes may burst once placed in the freezer, resulting in a loss of that sample. Each site is supplied with sufficient collection tubes to provide the specimen volume described in the Protocol Schedules for Biospecimen Submission (see Section 4). Specimens collected in addition to those described in Section 4 are collected at the site's discretion and are not returned to BioSEND.



Please note: Generate as many standard size aliquots (1.5ml) of plasma as possible, with any remaining sample used to generate one residual aliquot (<1.5ml).

Each aliquot cryovial will be have a color-coded cap as follows:

Cap Color	Specimen Type		
Purple	Plasma		
Grey	Buffy Coat		

Please be sure to use the appropriate colored top for the appropriate sample type.



8.0 Packaging and Shipping Instructions

ALL study personnel responsible for shipping should be certified in biospecimen shipping. If not available at your University, training and certification is available through the CITI training site (Course titled "Shipping and Transport of Regulated Biological Materials" at https://www.citiprogram.org/).

8.1 Sample Record and Shipment Notification Form

All sample shipments to BioSEND must include the BioSEND Sample Record and Shipment Notification Form. The completed forms are:

- Emailed to BioSEND@iu.edu at the time the samples are being shipped
- And the original document should be Included in the shipment with the samples

8.2 Shipping Instructions

Frozen Shipment (baseline and follow-up). Reference Appendix K for frozen shipping instructions.

- Frozen 1.5 ml aliquots of plasma
- Frozen Buffy Coat



8.3 Shipping Address

All samples are shipped to the BioSEND laboratory:

BioSEND Indiana University School of Medicine 351 W. 10th Street. TK-217 Indianapolis, IN 46202-5188



9.0 Data Queries and Reconciliation

Appendix I must be completed the day that samples are collected to capture information related to sample collection and processing. This form includes information that will be used to reconcile sample collection and receipt, as well as information essential to future analyses.

The LETBI Study team will be collaborating with BioSEND to reconcile information captured in the database compared to samples received and logged at BioSEND. Information that appears incorrect in the Clinical database will be queried through the standard system. Additional discrepancies that may be unrelated to data entry will be resolved with the Principal Investigator in a separate follow up communication. If applicable, a non-conformance report will be provided to sites.

Data discrepancies with samples shipped and received at BioSEND may result from:

- Missing samples
- Incorrect samples collected and shipped
- Damaged or incorrectly prepared samples
- Unlabeled or mislabeled samples
- Samples frozen and stored longer than three months at the site



10.0 APPENDICES

Appendix B: Whole Blood Collection for Isolation of Plasma

Appendix C: Whole Blood Collection for Isolation of Buffy Coat

Appendix I: Sample Record and Shipment Notification Form

Appendix K: Frozen Shipping Instructions

Appendix Q: UPS ShipExec™ Thin Client Instructions



Appendix B – Whole Blood Collection for Isolation of Plasma

Whole Blood Collection for Isolation of Plasma: 10 ml Purple-Top EDTA tube(s) and cryovials are provided by BioSEND for the collection of plasma.



- 1. CRITICAL STEP: Store empty purple-top EDTA tubes at room temperature 64°F 77°F (18°C to 25°C) prior to use.
- 2. Place provided "PLASMA" labels on 10 ml purple-top EDTA tube(s); the six 2 ml purple cryovial tubes will already be labeled. These six cryovials will be shipped to BioSEND. Any remaining cryovials can be retained by the site and labeled per site standards. Labels for aliquots kept by the site are not provided by BioSEND.



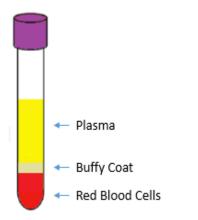
- 3. Pre-chill the cryovials on wet ice for at least 5 minutes.
- 4. Set centrifuge to room temperature before use.
- 5. Using a blood collection set and a holder, collect blood into the **purple top 10 ml EDTA tube(s)** using your institution's recommended procedure for standard venipuncture technique.

The following techniques shall be used to prevent possible backflow:

- a. Place donor's arm in a downward position.
- b. Hold tube in a vertical position, below the donor's arm during blood collection.
- c. Release tourniquet as soon as blood starts to flow into the tube.
- d. Make sure tube additives do not touch stopper or end of the needle during venipuncture.



- 6. Allow at least 10 seconds for a complete blood draw to take place in each tube. **Ensure that the blood has stopped flowing into the tube before removing the tube from the holder.** The tube vacuum is designed to draw 10 ml of blood into the tube.
- 7. CRITICAL STEP: Immediately after blood collection, gently invert/mix (180 degree turns) the purple-top EDTA tube(s) 8 10 times. Do not shake the tubes!
- 8. Within 30 minutes of blood collection, centrifuge balanced tubes for 15 minutes at 1500 RCF (x g). It is critical that the tubes be centrifuged at the appropriate speed to ensure proper plasma separation.
- Remove the plasma by tilting the tube and placing the pipette tip along the lower side of the
 wall. Use caution not to touch the buffy coat or packed red blood cells at the bottom of the
 collection tube so that the plasma is not contaminated (see below).
- 10. Using a disposable pipette, aliquot 1.5 ml into each cryovial. Send 6 x 1.5 ml aliquots to BioSEND. If you cannot obtain the requested number of aliquots, please note "low volume draw" on the Sample Record and Shipment Notification form (Appendix I) under "Notification of Problems". Each 10 ml EDTA tube should yield, on average, 4-5 ml of plasma.





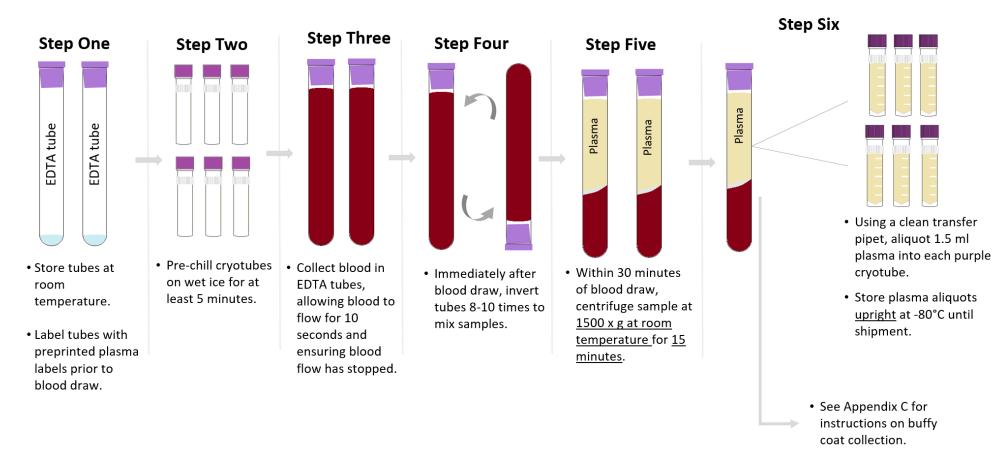


- 11. Complete the Sample Record and Shipment Notification form (Appendix I).
- 12. Place the labeled cryovials in the 25 slot cryobox. Place the cryobox UPRIGHT on dry ice. Transfer to -80°C freezer as soon as possible, within 2 hours of blood draw. Store all samples at -80°C until shipped to BioSEND on dry ice.
- 13. Ship the frozen plasma aliquots to BioSEND according to **Appendix K Frozen Shipping Instructions.**



Plasma Preparation -10 ml EDTA (Purple Top) Tube







Appendix C – Whole Blood Collection for Isolation of Buffy Coat

Whole Blood Collection for Isolation of Buffy Coat: 10 ml Purple-Top EDTA tube(s) and cryovials are provided by BioSEND for the collection of the buffy coat.



- 1. CRITICAL STEP: Store Purple-Top EDTA tubes at room temperature 64°F 77°F (18°C to 25°C) before use.
- 2. Place grey aliquots pre-labeled with "Buffy Coat" to chill on wet ice.
- 3. Set centrifuge to room temperature.
- 4. After plasma has been removed from the EDTA purple-top tube (see Appendix B), aliquot buffy coat layer (see figure below) into labeled cryovial with grey cap using a disposable graduated micropipette. All of the buffy coat from a single 10 ml purple-top EDTA tube will be placed into one cryovial. The buffy coat aliquot is expected to have a reddish color from the red blood cells.

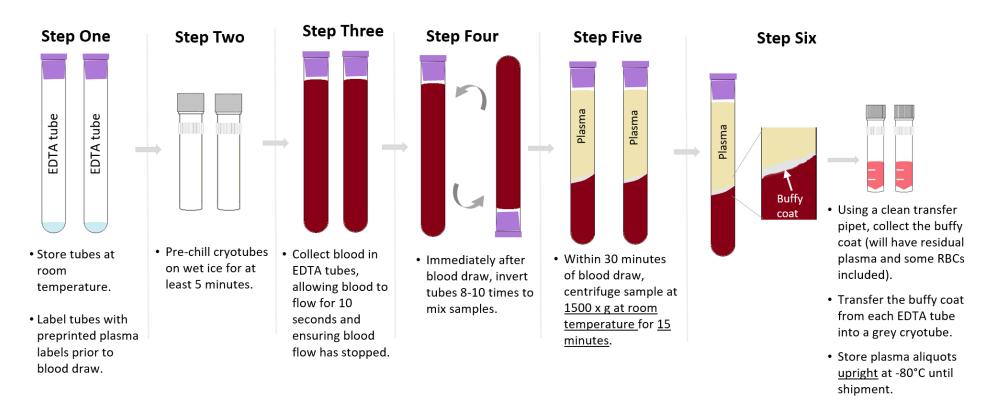


- 5. Complete the Sample Record and Shipment Notification form (Appendix I).
- 6. Freeze cryovial(s) in upright position on dry ice. Transfer to a -80°C Freezer when possible. Store all samples UPRIGHT at -80°C until shipped to BioSEND on dry ice.
- 7. Ship the frozen buffy coat aliquots to BioSEND according to **Appendix K Frozen Shipping**Instructions.



Buffy Coat Preparation –10 ml EDTA (Purple Top) Tube





Sample Record and Shipment Notification

Study:							
Site Name:			Pı	rincipal Investigator:			
Coordinator:	Coordinator:		elephone:		Email:		
Please list only ONE subject per Sample Record Summary and Shipment Notification Form							
GUID:):			Subject ID (ST# from pre-printed labels):			
Sex:				Vis	sit Type:		
Instructions: Ship Frozen Shipments Monday- Wednesday. Ambient Shipments may be shipped Monday- Thursday provided they are received at Indiana University within five days of collection. This form must be completed for shipment of all research samples. Notify Indiana University via biosend@iu.edu in advance of shipment. Please also include a physical copy in the shipment box. Ensure all frozen shipments are completely filled with dry ice.							
Date Sa	ample(s) Shipped:			Tracking Numbe	er:		
				-			
		Complete	ed by Subm	itter/Site			
Dates of Draw	Specimen Type	Number of Tubes/ Aliquots sent to BioSEND		Notati	ion of Probl	ems	
	DNA						
	RNA						
	Buffy Coat						
	Plasma						
	Serum						
	CSF						
	Whole Blood						
Contact Information: Indiana University; Email: biosend@iu.edu Ph: 317-278-0594							



Appendix K – Frozen Shipping Instructions

IMPORTANT!

Frozen samples must be shipped Monday – Wednesday only, using Next Day Air delivery

Please be aware of holidays and inclement weather and plan your shipments accordingly. Reach out to biosend@iu.edu if you have any questions

Specimens being shipped to BioSEND are Category B UN3373 specimens and as such must be triple packaged and compliant with IATA Packing Instructions. See the latest eEdition of the IATA regulations for complete documentation.

Triple packaging consists of a primary receptacle(s), a secondary packaging, and a rigid outer packaging. The primary receptacles must be packed in secondary packaging in such a way that, under normal conditions of transport, they cannot break, be punctured, or leak their contents into the secondary packaging. Secondary packaging must be secured in outer packaging with suitable cushioning material. Any leakage of the contents must not compromise the integrity of the cushioning material or of the outer packaging.

IATA Packing and Labeling Guidelines

- The primary receptacle (cryovials or blood collection tubes) must be leak proof and must not contain more than 1 L total.
- The secondary packaging (plastic canister or biohazard bag) must be leak proof and if
 multiple blood tubes are placed in a single secondary packaging, they must be either
 individually wrapped or separated to prevent direct contact with adjacent blood tubes.
- Absorbent material must be placed between the primary receptacle (cryovials or blood collection tubes) and the secondary packaging. The absorbent material must be of sufficient quantity to absorb the entire contents of the specimens being shipped. Examples of absorbent material are paper towels, absorbent pads, cotton balls, or cellulose wadding.
- A shipping manifest listing the specimens being shipped must be included between the secondary and outer packaging.
- The outer shipping container must display the following labels:
 - ✓ Sender's name and address
 - ✓ Recipient's name and address
 - ✓ Responsible persons (shipper and recipient)
 - ✓ The words "Biological Substance, Category B"
 - ✓ UN3373
 - ✓ Class 9 label including UN 1845, and net weight of dry ice contained



BioSEND Packaging and Shipment Instructions – Frozen Shipments

- 1. Generate airway bill and schedule courier pick-up, as needed.
 - ➤ For instructions on generating airway bills and scheduling using the UPS ShipExec[™] Thin Client system, see Appendix Q.
- 2. Record the tracking number onto the Sample Record and Shipment Notification form (Appendix I).
- 3. Make a copy of the Sample Record and Shipment Notification form.
- 4. Place all frozen labeled cryotubes in the cryobox. Only include specimens from one subject in each cryobox.
- 5. Place the cryobox in a clear plastic biohazard bag (do NOT remove the absorbent material found in the bag), and seal the biohazard bag according to the instructions on the bag. Affix a Case Label to the outside of the biohazard bag.





- 6. Place approximately 2-3 inches of dry ice in the bottom of the Styrofoam® shipping container.
- 7. If your protocol is collecting frozen whole blood, DNA, or RNA, place labeled tubes in bubble sleeves and seal.
- 8. Place the tubes in a clear plastic biohazard bag (do NOT remove the absorbent material found in the bag), and seal the biohazard bag according to the instructions on the bag. Affix a Case Label to the outside of the biohazard bag.
- 9. Place the biohazard bag containing the cryobox into the provided Styrofoam® shipping container on top of the dry ice. Please ensure that the cryobox is placed so that the cryovials are upright in the shipping container (as pictured).











- 10. Fully cover the cryobox with approximately 2 inches of dry ice. Do not include more than 2 subjects' worth of samples in a single shipper.
- 11. If including additional biohazard bags in package, include a layer of dry ice (approximately 2 inches) between each biohazard bag.
- 12. The inner Styrofoam® shipping container must contain approximately 10 lbs (or 4.5 kg) of dry ice. The dry ice should entirely fill the inner box to ensure the frozen state of the specimens.
- 13. Replace the lid on the Styrofoam® container. Place the completed Sample Record and Shipment Notification form in the package on top of the Styrofoam® lid for each patient specimen, and close and seal the outer cardboard shipping carton with packing tape.
- 14. Print a copy of your UPS® airway bill generated through the UPS ShipExec™ Thin Client system (see Appendix Q). Place airway bill into the provided airway bill envelope and affix envelope to package.
- 15. Complete the Class 9 UN 1845 Dry Ice Label (black and white diamond) with the following information:
 - Your name and return address
 - Net weight of dry ice in kg (this amount must match the amount recorded on the airway bill)
 - Consignee name and address:



BioSEND
IU School of Medicine
351 W. 10th Street
TK-217
Indianapolis, IN 46202



> Do not cover any part of this label with other stickers, including pre-printed address labels.

IMPORTANT!

Complete the required fields on your airway bill and Class 9 Dry Ice labels, or courier may reject or return your package.

- 16. Apply all provided warning labels (UN3373, Dry Ice Label and Fragile Label), taking care not to overlap labels with each other or with airway bill.
- 17. Hold packaged samples in -80°C freezer until time of courier pick-up/drop-off.
- 18. Specimens should be sent to the address below. Frozen shipments should be sent Monday through Wednesday only to avoid shipping delays on Thursday or Friday.

BioSEND
IU School of Medicine
351 W. 10th Street
TK-217
Indianapolis, IN 46202

- 19. Notify BioSEND by email (biosend@iu.edu) that a shipment has been sent and attach the Sample Record and Shipment Notification form to your email. Do not ship until you've contacted and notified BioSEND staff about the shipment in advance.
- 20. Use courier tracking system to ensure the delivery occurs as scheduled and is received by BioSEND.

In addition to tracking and reconciliation of samples, the condition and amount of samples received are tracked by BioSEND for each sample type. Investigators and clinical coordinators for each project are responsible for ensuring that the requested amounts of each fluid are collected to the best of their ability and that samples are packed with sufficient amounts of dry ice to avoid thawing in the shipment process.



Appendix Q - UPS ShipExec™ Thin Client Instructions

- 1) Log in to the UPS ShipExec[™] Thin Client website: https://kits.iu.edu/UPS or https://kits.iu.edu/UPS or https://kits.iu.edu/UPS or https://kits.iu.edu/UPS or https://kits.iu.edu/UPS.
 - To request an account, complete the following survey: https://redcap.uits.iu.edu/surveys/?s=88TTWY3KAF
- 2) Find the "Shipping" dropdown menu in the top left corner of the screen and click on "Shipping and Rating".
- 3) Once the Indiana University page loads, look for the "Study Group" dropdown menu under "Shipment Information" on the right side of the screen. Choose your study from the dropdown menu.
- 4) After selecting your study, click on the magnifying glass icon on the left side of the screen under "Ship From".
- 5) An address book and filters will populate the screen. On the right side of the screen, a list of all the site addresses within the study you selected should populate.
 - a. Filter the list down more by looking to the left side of the screen and searching for their address by filling in the "Company", "Contact", or "Address 1" fields. Click on the Search button when ready.
 - b. Once you have found your site address, click on the "Select" button to the left of the address.
- 6) Make sure your address populated in the fields under "Ship From" on the main page.
 - a. If you accidentally selected the wrong address, click on the "Reset" button on the bottom right of the screen. After the page reloads and clears the information, select your study again from the "Study Group" menu and click on the magnifying glass icon again to search for your correct address.
 - b. To change the address for your site and study group, please complete the following survey: https://redcap.uits.iu.edu/surveys/?s=88TTWY3KAF
- 7) Enter the total weight of your package in the "Weight" field on the right side of screen under the name of your study.
 - a. Leave the "Dry Ice Weight" field empty or enter "0" if shipping an ambient sample.
- 8) Enter the weight of the dry ice for frozen shipments in the "Dry Ice Weight" field.
 - a. The "Dry Ice Weight" field can never be higher than the "Weight" field.
 - b. (Steps 9-10 can be skipped if you do not need to schedule a pickup)
- 9) After entering the weights, click on the blue "Pickup Request" button.
- 10) When the Create Pickup Request box pops up, enter information into all the fields provided.
 - a. Enter the "Earliest Time Ready" and "Latest Time Ready" in 24-hour format.
 - i. Scheulde pickup at a minimum 1 hour <u>before</u> the "Earliest Time Ready"
 - b. Choose a name and phone number that is the best contact if the UPS driver has question related to picking up your package
 - c. Entering the "Room Number" and "Floor" will help the UPS driver locate your package
 - i. The "Floor" field only allows numerical characters while the "Room Number" field is free text.
 - d. Click "Save" when done.
- 11) Once you are certain that all the correct information has been entered, click the "Ship" button in the bottom right corner of the screen.
- 12) If no red error messages pop up at the top of your screen after clicking on "Ship", then you should have 2 downloaded PDF files: Shipment Receipt & UPS Package Label



- a. Shipment Receipt will list a "Pickup No." that references your specific package if there is ever an issue with UPS picking up your package
- 13) Print out the UPS airway bill to any printer at your location.
 - a. Fold the UPS airway bill and slide it inside the plastic UPS sleeve.
 - b. Peel the back off the plastic UPS sleeve and stick the sleeve to your package, making sure it is laying as flat as possible along the surface of the package.
- 14) Place your package in the spot designated in your pickup request, or wherever your daily UPS pickups occur.
- 15) If you need to reprint your airway bill or void your shipment, click on "History" at the top of the main screen.
 - a. If your shipment does not automatically pop up, enter the date of shipment and then click "Search".
 - b. To reprint your airway bill, click on the printer icon to the far left under "Action"
 - c. To void your shipment, click on the "X" icon to the far left under "Action"
 - i. If you created an airway bill that you no longer need, you must void the shipment to ensure your study will not be charged for the shipment.