

NINDS Udall Centers of Excellence for Parkinson's Disease Research: University of Michigan

BIOSPECIMEN COLLECTION & PROCESSING

Overview

- 1. Specimen uniformity and quality
- 2. Site Equipment
- 3. Procedures
 - Kit Contents and Ordering
 - Sample Labelling
 - Sample Collection and Processing
 - Shipping Samples
 - Non-Conformance
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Specimen Uniformity and Quality

GENERAL REMINDERS

Specimen Standardization and Quality

Most biomarkers are sensitive to *time* and *temperature*

- Standardization of processing is key
- Specimens must be processed within 2 hours of collection
- Reference the BioSEND Biomarker Specimen Collection, Processing, and Shipment Manual as needed
- Do not replace or supplement any kit components without first receiving approval from BioSEND/NINDS

Questions? Email biosend@iu.edu

Site Consumables and Equipment

Sites will need to supply the following items:

- Gloves
- Alcohol wipes
- Butterfly needles
- Tourniquet
- Gauze pads
- Bandages
- Microcentrifuge tube rack
- Sharps bin and lid

Pipettes and pipette tips

Procedures

MAINTAINING SPECIMEN UNIFORMITY AND QUALITY

Biospecimen Collection Protocol

	BL
DNA	X
(2 x 6ml)	

Kit Contents and Ordering

- All sites will be sent a Supplemental Kit with their first kit shipment
 - Contains extra blood collection tubes and processing supplies
 - May be used to replace items in study visit kits
- Study Visit Kits should be ordered as soon as visits are planned
 - Contains collection, processing, and shipping supplies specific to each visit
 - Includes barcoded labels
 - The supplies/labels in each study visit kit are intended for that visit only

Kit Contents and Ordering – REDCap Survey

http://kits.iu.edu/biosend/udall

Order kits online through the Kit Request Module for:

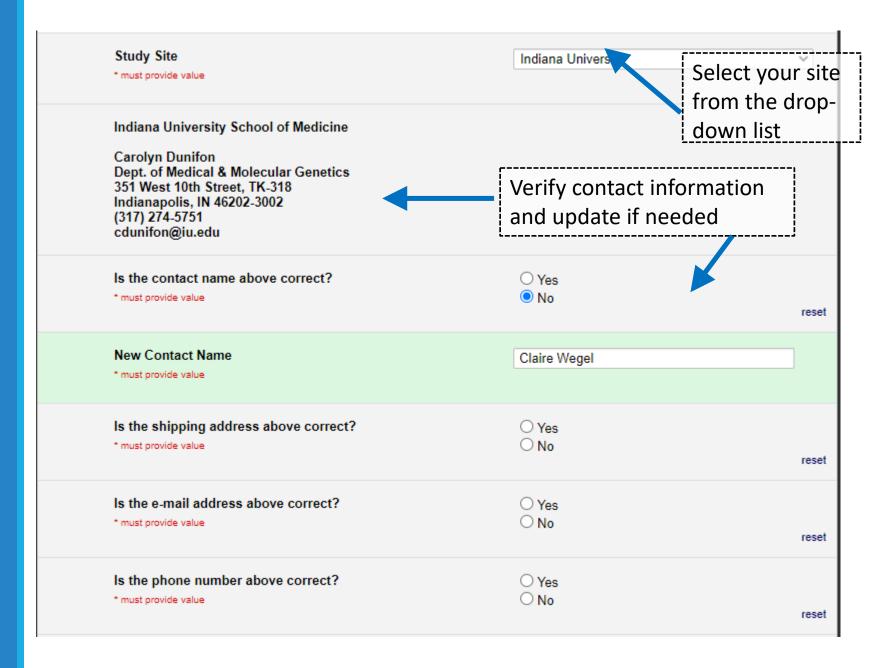
- Blood Kits
- Extra Supplies

Please provide as much notice as possible when ordering kits and/or supplies.



Kit Contents and Ordering: Confirm Site Info

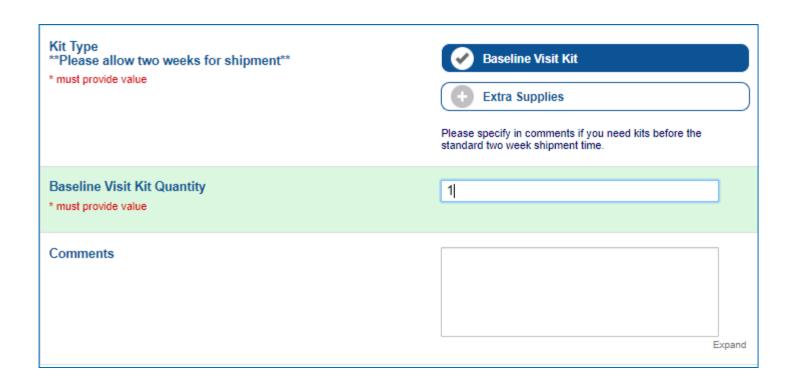
UDALL Kit Request Module



Kit Contents and Ordering: Kit Types

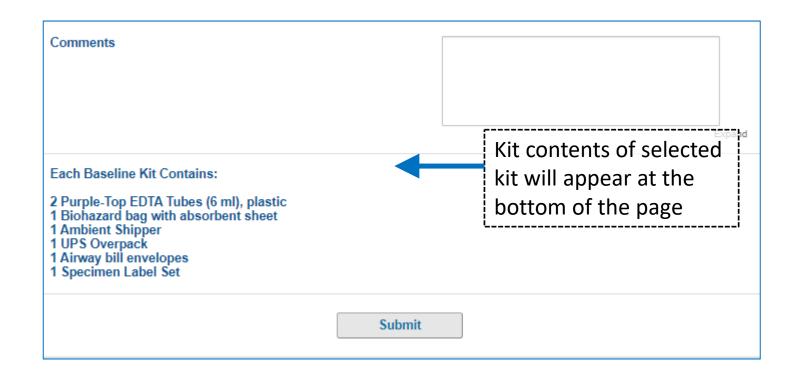
UDALL Kit Request Module

 Kits are not specific to a subject or time point. After collection, sites will indicate the subject and time point to which BioSEND should link the samples.



Kit Contents and Ordering: Kit Breakdown

UDALL Kit Request Module



Kit Contents and Ordering: Blood Kit



Kit and Supply Ordering

- Click "Submit" to send order to BioSEND; staff will confirm receipt of your order
- Please allow two week turn-around time for kit shipments
- If urgent request needed, please note date needed by in comments and email BioSEND. We cannot guarantee urgent orders, but we will do our best to accommodate.
- BioSEND will send confirmation of shipment and tracking number when supplies ship

Sample Labelling: Example Labels

Labels are provided by Indiana University

- Please check that all samples are properly labelled to ensure correct identification by IU
- If do not have enough labels to complete a visit, please contact IU immediately
- Labelling the tubes during processing prevents sample mix-ups





Sample Labelling: Label Placement

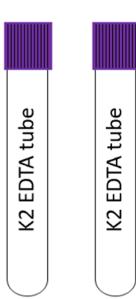
Please...

- Label all collection tubes before collecting samples
- Label only 1 subject's tubes at a time to avoid mix-ups
- Wrap the label around the tube horizontally label position is important for all tube types
- Make sure the label is completely adhered by rolling between your fingers

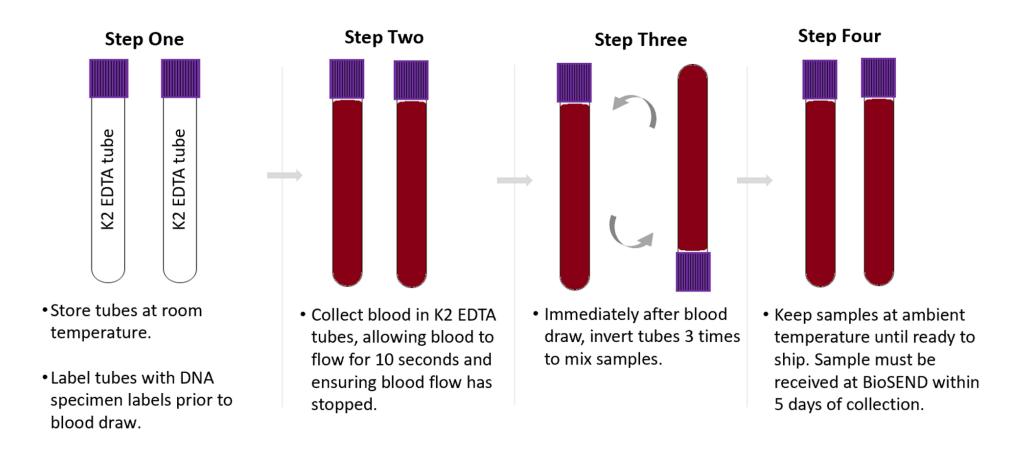




Sample Collection and Processing



Sample Collection and Processing: DNA



Sample Collection and Processing: Issue #1

Troubleshooting Blood Collection

Issue #1: Tube with little/no vacuum

- Always check expiration date on the tube before beginning blood draw and discard expired tubes
- Store tubes at "room temperature" extreme temperature can affect vacuum
- Keep extra vacutainer tubes from supplemental kit nearby during blood draw to replace "bad" tubes
- If this is a frequent occurrence, report tube type and lot number to IU.

Sample Collection and Processing Form

Direct link:

https://redcap.link/UDALLMichiganSampleForm

First part captures basic subject and visit information

BioSEND

C Returning?

AAA



Biospecimen Exchange for Neurological Disorders

Please verify/update the information below. When you click the "Submit" button below, a PDF copy of the Sample Record and Shipment Notification Form will be emailed to you.

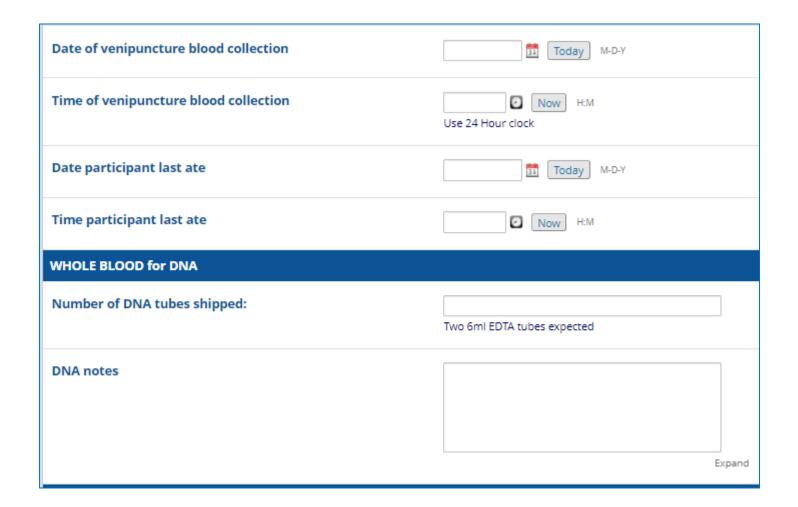
Please print a copy of that document and include it in the shipping container.

BioSEND UDALL Michigan Study	
Study Site	•
Email address of staff member completing this form	
Note: A copy of the completed sample form and the shipping manifest will be sent to this address.	
GUID:	
Sex (used for DNA quality control)	•
Visit	•
IU Kit Number	

Sample Collection and Processing Form

Direct link: https://redcap.link/UDALLMichganSampleForm

Second part captures collection information



age 1

Sample Collection and Processing Form

Direct link: https://redcap.link/UDALLMichiganSampleForm

PDF form of responses will be emailed to you. Print a copy of the Shipping Manifest and include with shipment.

UDALL Michigan Sample Record and Shipment Notification Form

Protocol: UDALL Michigan

Please verify/update the information below. When you click the "Submit" button below, a PDF copy of the Sample Record and Shipment Notification Form will be emailed to you.

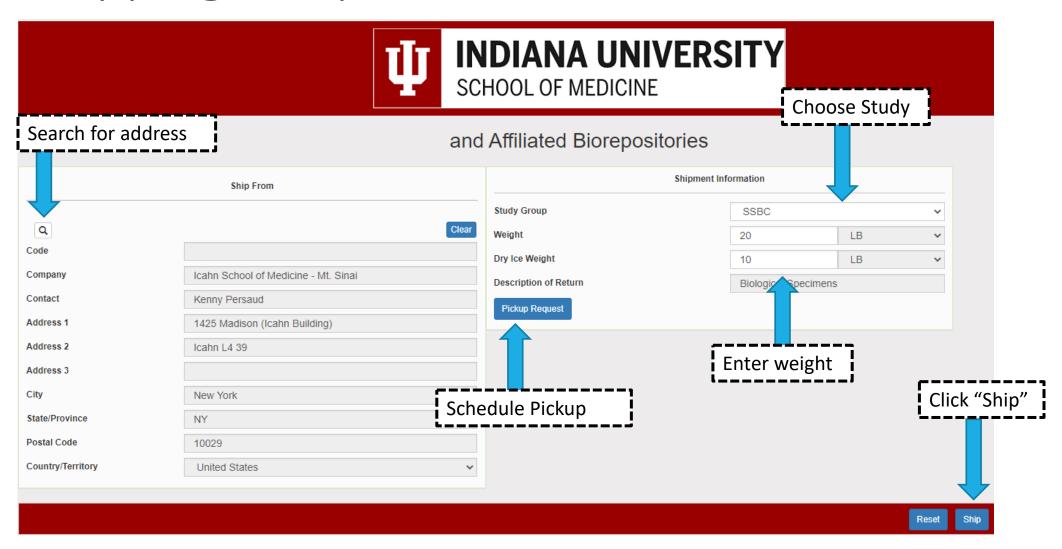
Please print a copy of that document and include it in the shipping container.

Study Site	O University of Michigan
Email address of staff member completing this form	
Note: A copy of the completed sample form and the shipping manifest will be sent to this address.	
GUID:	
Sex (used for DNA quality control)	○ Male○ Female○ Other
Visit	○ BL
ST Number/ Kit Number	
Date of venipuncture blood collection	
Time of venipuncture blood collection	
	(Use 24 Hour clock)
Date participant last ate	
Time participant last ate	
WHOLE BLOOD for DNA	
Number of whole blood tubes shipped:	
	(Two 6ml EDTA tubes expected)
Blood collection/shipping notes	

Shipping Samples: Ambient

- Ambient samples should be shipped Monday-Thursday only
- If collected on a Friday, hold sample at room temperature and ship to BioSEND the following Monday
- Sample(s) must be received at BioSEND within 5 days of collection

Shipping Samples – UPS: https://kits.iu.edu/UPS



Shipping Samples via UPS

IU UPS ShipExec Shipping Portal

- Print out UPS air waybill
- Ensure all elements
 (barcode, return address, etc.) printed clearly
- Fold and insert UPS air waybill into clear plastic sleeve on package

JOHN SMITH INDIANA UNIVERSITY 410 WEST 10TH STREET INDIANAPOLIS IN 46202 2 LBS

1 OF 1

RS

SHIP TO:

SCHOOL OF MEDICINE 317-278-2694 INDIANA UNIVERSITY TK 217 351 W 10TH ST

INDIANAPOLIS IN 46202



IN 461 9-01



UPS NEXT DAY AIR

TRACKING #: 1Z 976 R8W 84 3985 8595

1



BILLING:

DESC: Biological Specimens RETURN SERVICE

Reference No.1: 4087277

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Non-Conformance Reporting

Most common non-conformance issues:

- Samples shipped for weekend/holiday delivery
- Sample form incomplete/inaccurate
- Unlabeled or mislabeled tube(s)



Contacts

Indiana University

General Questions/Shipment Notifications:

biosend@iu.edu

317-278-6158

Request kits:

http://kits.iu.edu/biosend/UDALL