

Reducing Falls with Varenicline in Hypocholinergic Parkinson Disease

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
- 4. Contact Information

Specimen Uniformity and Quality

GENERAL REMINDERS

Specimen Standardization and Quality

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

- Standardization of processing across sites is key
- 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
- Sharps bin and lid

- -80°C Freezer
- Dry ice

Procedures

MAINTAINING SPECIMEN UNIFORMITY AND QUALITY

Biospecimen Collection Protocol

Sample Type & Volume	BL
Whole Blood, 6ml	2

Kit Contents and Ordering

- All sites will be sent a Supplemental Kit with their first kit shipment
 - Contains extra blood collection tubes
 - 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

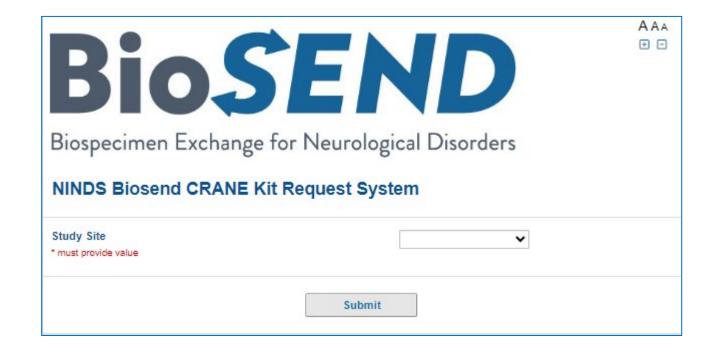
Kit Contents and Ordering – REDCap Survey

https://redcap.link/CRANEKits

Order kits online through the Kit Request Module for:

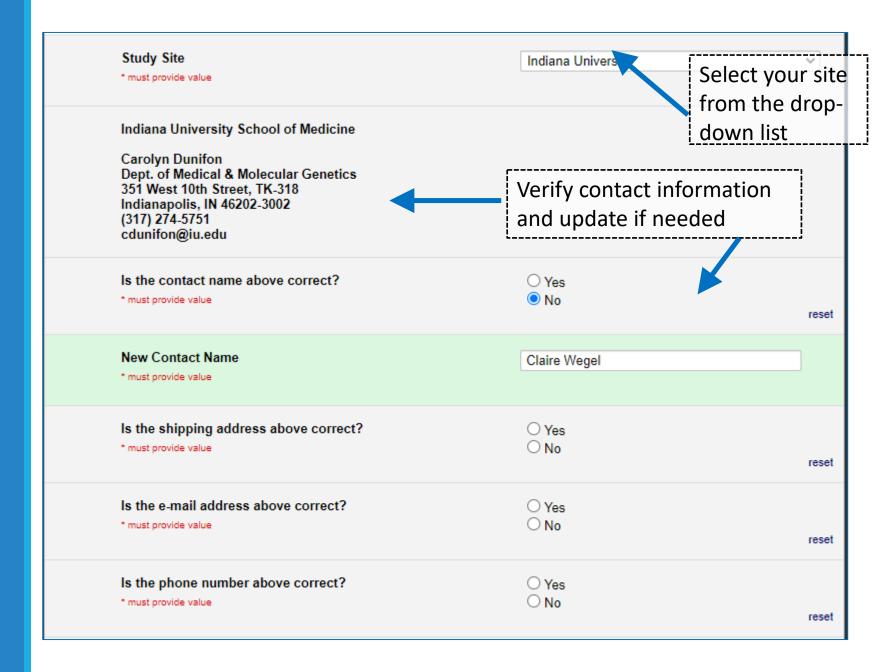
- Blood kits
- Shipping kits
- Extra Supplies

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



Kit Contents and Ordering: Confirm Site Info

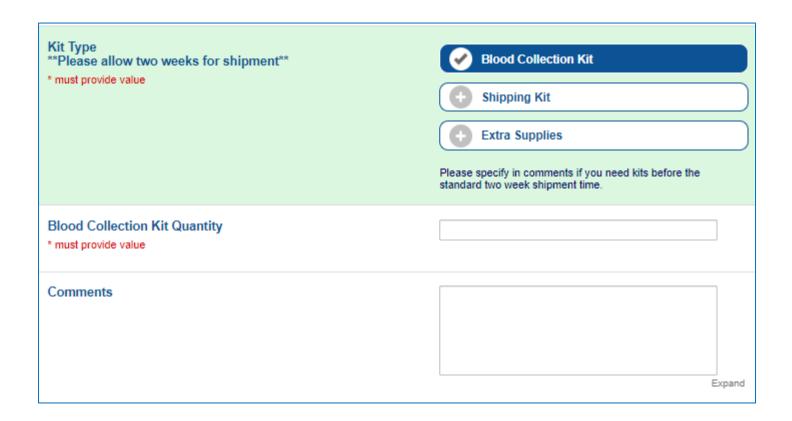
CRANE Kit Request Module



Kit Contents and Ordering: Kit Types

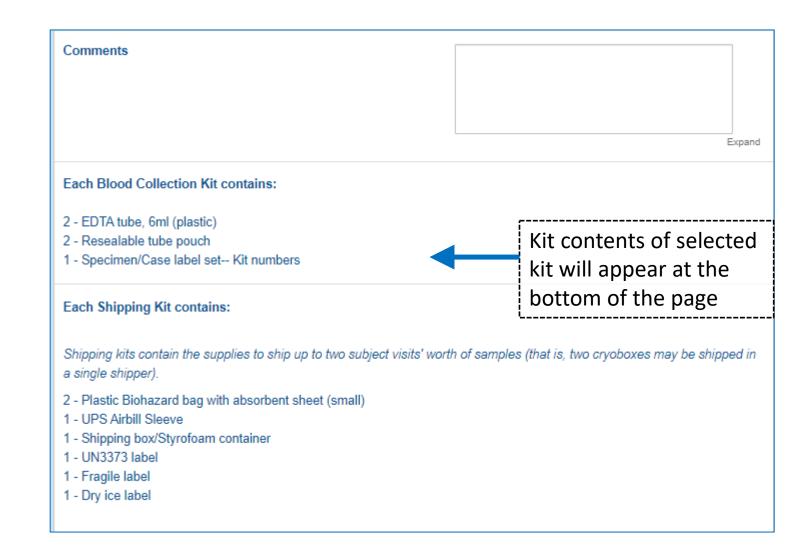
CRANE Kit Request Module

 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

CRANE Kit Request Module



Kit Contents and Ordering: Kits

Blood Kit (frozen):



Shipping Kit:



Collection Volumes

Total blood volumes

Sample Type	Amount
Whole Blood for DNA	6 ml
Whole Blood for Banking	6 ml

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



0005482315 BioSEND

Kit: 302326

PLASMA

Sample Labelling: Label Placement

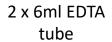
Please...

- Label all collection tubes before collecting or freezing 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





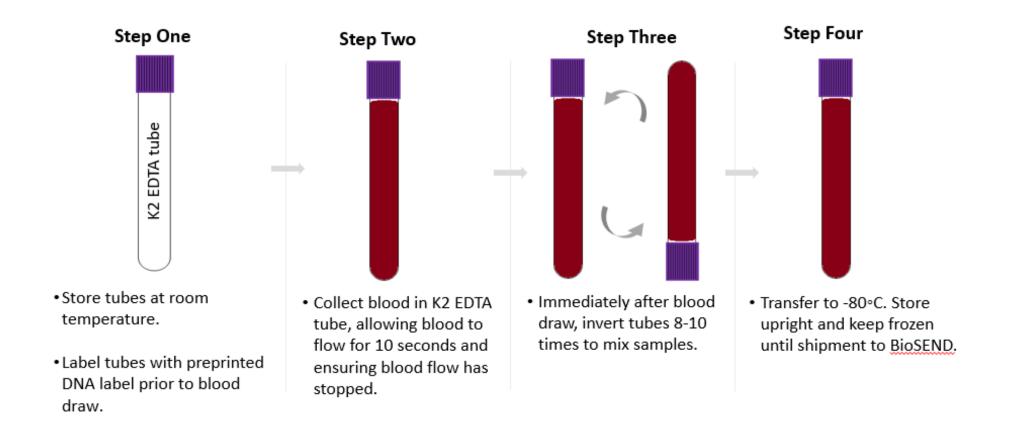
Blood Tube Draw Order





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Sample Collection and Processing: Whole Blood



Sample Collection and Processing: Timeline

Timeline for blood processing

Blood Collection Invert all tubes 8x to mix

90-120 Minutes Freeze whole blood tubes

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.

Specimen Collection and Processing Form

Direct Link:

<u>https://redcap.link/CRANESampleFo</u>rm

First part captures basic subject and visit information



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C' Returning?

Biospecimen Exchange for Neurological Disorders

Please complete the Specimen Collection and Processing Form, below, to ship samples to BioSEND for Reducing Falls with Varenicline in Hypocholinergic Parkinson Disease (CRANE).

Copies of the completed forms will be automatically emailed to you after submission.

BioSEND CRANE 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.	
CRANE Study ID *	
Kit Number	
Sex (used for DNA quality control) *	~
Visit *	•
Date of venipuncture blood collection *	Today M-D-Y
Time of venipuncture blood collection *	Use 24 Hour clock
WHOLE BLOOD EDTA	
Number of WBLD tubes shipped:	Two 6ml EDTA tubes expected

Second page captures collection and shipping information

WHOLE BLOOD EDTA		
Number of WBLD tubes shipped:	Two 6ml EDTA tubes expected	
NOTES		
Please record any issues with collection/processing:	Expand	d
Shipping Information - Please complete.		
Frozen shipments should be sent Monday-Wednesday only. Please check for holiday closures and weather issues prior to shipping. Contact us at biosend@iu.edu if you are unsure whether or not it is safe to ship.		
Date of shipment:	Today D-M-Y	
Did/will you use the IU UPS interface (ShipExec©) to generate the shipping label?	No reset)
Which shipping service did you use?	•	
What is the shipment tracking number?		
Save & Return I	Later	

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

Confidential

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CRANE Sample Record and Shipment Notification Form

Please complete the Specimen Collection and Processing Form, below, to ship samples to BioSEND for Reducing Falls with Varenicline in Hypocholinergic Parkinson Disease (CRANE). Copies of the completed forms will be automatically emailed to you after submission.

BioSEND CRANE Study	
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.	
CRANE Study ID	
Kit Number	
Sex (used for DNA quality control)	○ Male○ Female○ Other
Visit	○ BL
Date of venipuncture blood collection	
Time of venipuncture blood collection	
	(Use 24 Hour clock)
WHOLE BLOOD EDTA	
Number of WBLD tubes shipped:	
	(Two 6ml EDTA tubes expected)
NOTES	
Please record any issues with collection/processing:	

Submission of the Shipping Manifest portion of the form serves as shipment notification to BioSEND

- Must be completed prior to shipment
- If samples are shipped and not received, BioSEND will followup with courier. It is recommended that sites also track shipment to ensure safe delivery

Shipping Frozen Samples: Tips

Packing and Shipping Frozen Samples

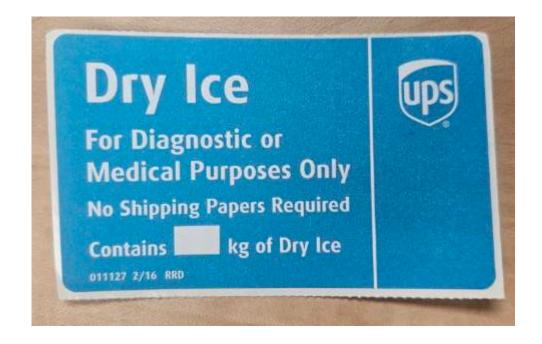
- Whole blood all ship frozen
- Ship frozen samples on dry ice
- Frozen samples should be shipped only Monday through Wednesday
- Always fill carton to top with dry ice
- Do not pack shipment until the day of pickup



Shipping Samples

Packing and Shipping Frozen Samples

UPS Dry Ice label should not be covered with other stickers and must be completed, or UPS will reject/return your package!



Shipping Samples: Frozen

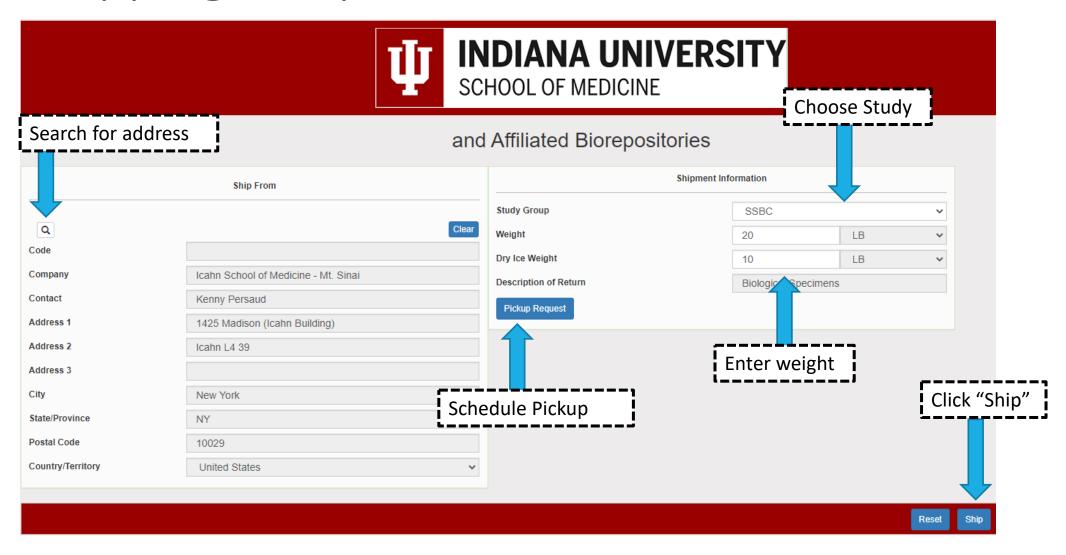
Do not ship more than 6 biohazard bags in a single shipper* (equivalent to six subject-visits).

- Allows room for dry ice to keep samples frozen in transit
- Minimizes loss in the rare but unfortunate event of courier issues





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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Shipping Samples: Closures

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

Please also consider weather when shipping. UPS will post service updates on their webpage. Reach out to BioSEND if you an unsure if it is safe to ship.

Non-Conformance Reporting

Most common non-conformance issues:

- Shipment notification not sent
- Samples shipped for weekend/holiday delivery
- Sample form incomplete/inaccurate
- Low volume
- Unlabeled or mislabeled tube(s)



Non-Conformance and Inventory Reporting

Most common non-conformance issues:

- BioSEND will notify sites directly of any issues upon receipt
- BioSEND will email sites a monthly inventory report of all samples received from that site to date
- If you are experiencing issues, please reach out to us for help! It is much easier to prevent an issue before sample collection & shipment than trying to fix it after the fact

Contacts

Indiana University

General Questions/Shipment Notifications:

biosend@iu.edu

317-278-6158

Request kits:

https://redcap.link/CRANEKits