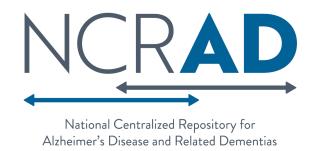
# Nicotinic Acid for the Treatment of Alzheimer's Disease: A Phase 1b/2a Study

BIOSPECIMEN COLLECTION AND SHIPMENT TRAINING



## Content

- ❖ Biospecimen Collection Schedule
- ❖Kit Request Module
- **❖**Kit Pick Up
- ❖ Specimen Labeling Instruction
- ❖ Specimen Collection and Processing
- ❖ Shipment Packaging and Forms
- Creating Airbills and Scheduling Pick Ups
- **❖** Non-Conformance Issues
- ❖ NCRAD Resources and Contact



## Nicotinic Acid Biospecimen Collection Schedule

Collection Tube	Visit	Specimen Type	Aliquot Volume	Total Number of Aliquots	Cap Color
2 x EDTA (Purple-Top) Blood Collection Tubes (10 ml)	Day 0, Day 60	Plasma	1.5 ml plasma aliquots	Up to 7	Purple
		Residual Plasma	<1.5 plasma aliquot	1	Blue
		Buffy Coat	~1.0 ml buffy coat aliquots	2	Clear
1 x CSF (Blue-Top) Conical Tube (20 ml)	Day 0, Day 60	Local Lab CSF	1.0-2.0 ml	1	Yellow
		Processed CSF	1.5 ml	11	Clear
		Residual CSF	<1.5 ml	1	Blue



# Kit Request Module

www.kits.iu.edu/NicotinicAcid

- Ordering Blood Kit Supplies
  - **Ex:** tubes, pipettes, labels, cryobox
- Ordering Frozen Shipment Supplies
  - \* Ex: styrofoam container, cardboard shipper, shipping stickers
- ❖ Allow for **three weeks** from time of order to receipt of supplies
  - ❖ Initial order should be received prior to site start date



# Kit Request Module Instruction

#### Specimen Collection Kit Number of blood collection kits needed: Each Nicotinic Acid blood collection kit contains: 02 EDTA tube 10 ml [CT001] 06 2ml Cryovial - Purple [CV027] 01 2ml Cryovial - Blue [CV034] 02 2ml Cryovial - Clear [CV014] 01 15ml Centrifuge tube [CV004] 02 Disposable Pipet (3ml) [CV015] 01 Carboard Cryobox, 25 slot [CV005] 01 Resealable Bag [ST002] 10 Preprinted Cryovial Labels [LB003] 05 Kit Number Labels [LB003] 03 Participant ID Labels [LB003] 01 2x4 Label [LB006] Number of CSF collection kits needed: Each Nicotinic Acid CSF collection kit contains 01 LP Tray 22 Gauge Sprotte w Introducer [LP006] 11 2ml Cryovial - Clear [CV014] 01 2ml Cryovial - Yellow [CV037] 01 2ml Cryovial - Blue [CV034] 02 50ml Conical Tube, Individually Wrapped [CV056] 01 Disposable Pipet (3ml) [CV015] 01 Cardboard Cryobox, 25 slot [CV005] 01 Resealable Bag [ST002] Labels 13 Preprinted Cryovial Labels [LB003] 01 Participant ID Label [LB003] 01 Kit Number Label [LB003] 01 2x4 Label [LB006]

- ➤ Verify site shipping address and contact information
- Enter amount of each kit need
  - Consider EDTA expiration roughly 3 months when ordering
- > Allow 2-3 weeks when placing order for kits to be ready for pick up



# Kit Pick Up

- ❖ You will receive a notification via e-mail when your kit contents are ready for pick up.
- ❖ Address: 351 W 10<sup>th</sup> Street Room #316
  - 1. Enter through the main doors closest to the canal.
  - 2. Turn left at the first hallway and there will be signs for elevators.
  - 3. Take the elevator to the 3<sup>rd</sup> floor.
  - 4. Pick up ordered kit supplies outside of room #316.
- ❖ Hours of Operation are Monday through Friday 8:00 am − 5:00 pm
  - ❖ Please be aware of our holiday closures found here <a href="https://ncrad.org/contact/holiday-closures">https://ncrad.org/contact/holiday-closures</a>



## **Specimen Labeling Instruction**



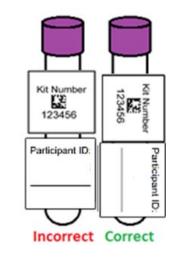
# Specimen Labels

#### **Kit Number Label** •Ties all biospecimens and kit content together for each participant Kit Number Placed on EDTA tubes, cryobox, and Blood 123456 Sample and Shipment Notification Form **Participant ID Label** Handwritten by sites according to unique Participant ID: study ID Placed on blood collection EDTA tubes **Aliquot Label** Specific to type of biospecimen Nicotinic Acid 0042563878 Contains unique Specimen# and Kit# **PLASMA** Kit #: 123456 Place on processed cryovials



# Specimen Labeling Instruction: Label Placement Details

- Write site ID and participant ID with fine-point marker prior to label placement
- ❖ Place all labels on Whole-Blood EDTA 10 ml tube and Cryovial 2 ml before blood collection, processing, or freezing
- Label collection tubes and cryovials for **one**participant at a time to avoid mix ups.
- Wrap labels horizontally and adhere completely to all tubes





**Collection Tube Label Diagram** 

Aliquot Label Diagram



## **Specimen Collection and Processing**



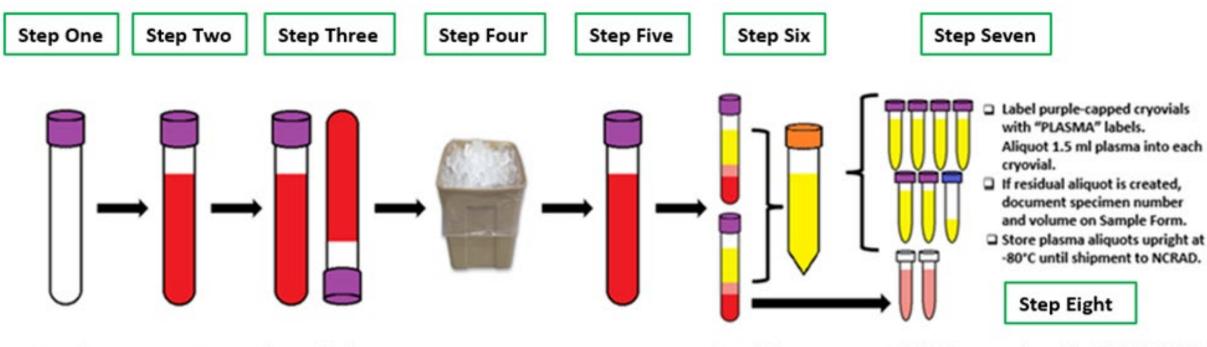
# Nicotinic Acid Biospecimen Samples

NCRAD will provide training and materials for the following biospecimens:

- **❖** Plasma
- Buffy Coat
- **\***CSF



#### PROCESSING PLASMA AND BUFFY COAT

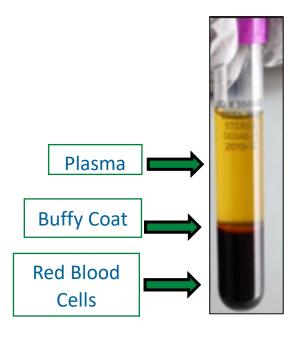


- Store tubes at room temp.
- Each tube should be labeled with Collection Tube and Site and Participant Labels.
- Collect blood into each EDTA Tube, allowing blood to flow for 10 seconds and ensuring t blood flow

has stopped.

- Immediately after blood draw, invert tubes 8-10 times to mix samples.
- Place thoroughly mixed tube on wet ice until centrifugation begins.
- ☐ Centrifuge samples at 2000 x g for 10 minutes at 4°C.
- □ Pool all plasma from the 2 EDTA tubes into a 15 ml conical tube and invert gently 3 times to mix the plasma.
- Label clear-capped cryovials with "BUFFY COAT" labels.
- Using a clean transfer pipette, collect the buffy coat (may have residual plasma and some RBCs included).
- Transfer the buffy coat from each EDTA tube into its own cryovial.
- Store buffy coat aliquots upright at -80°C until shipment to NCRAD.
- Spin, aliquot, and freeze all plasma and buffy coat aliquots within 2 hours of collection.

# Specimen Collection and Processing: Plasma and Buffy Coat Collection (Screening)





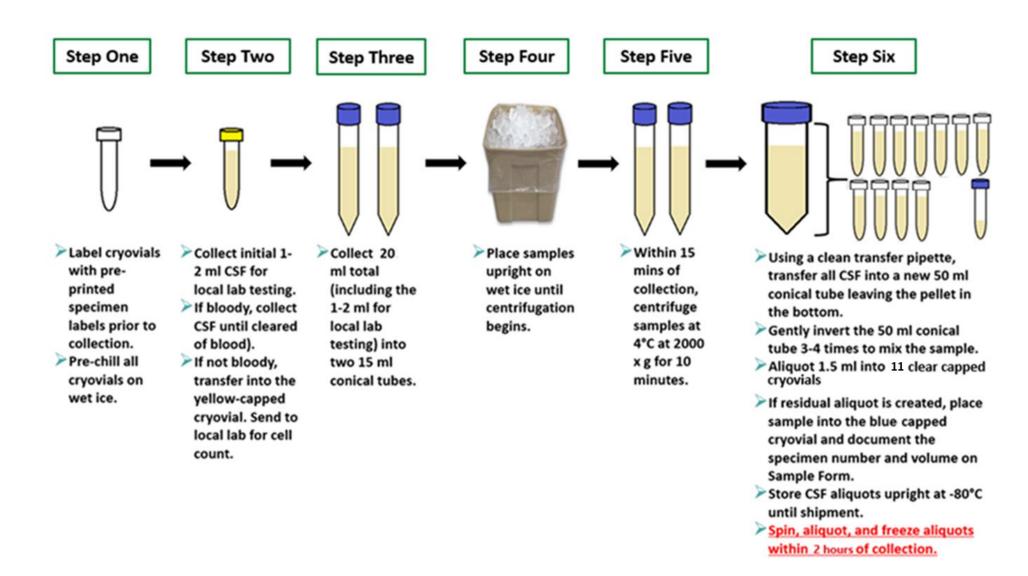
50 ml Conical with 30 ml pooled plasma after inversion



Retrieve buffy coat from each EDTA (expected to have reddish color from RBCs)



#### PROCESSING CSF



## Shipment Packaging, Labeling, & Forms



## Frozen Shipment Packaging



All samples shipped frozen to NCRAD **Monday- Wednesday ONLY** 



Hold packaged samples in a -80°C freezer until pickup



Include copy of Blood Sample and Shipment Notification Form in shipper



Batch samples together (8 cryoboxes)



Sites provide dry ice for shipments

~45 lbs. per batch shipment



# Frozen Shipment Tutorial

HTTPS://NCRAD.ORG/SHIPPING ADDRESS.HTML



# Specimen Packaging and Shipment: Frozen Specimen Packaging

Step 1. Place frozen cryobox in biohazard bag with absorbent sheet

Important: Confirm kit number label has been placed on the outside of cryobox





# Specimen Packaging and Shipment: Frozen Specimen Packaging

Step 2. Place 2-3 inches of dry ice in the bottom of the styrofoam shipping container

Step 3. Insert cryoboxes with tubes <u>upright</u>

Step 4. Fully cover all cryoboxes with 2 inches of dry ice

**Reminder:** Batch Shipper holds 8 cryoboxes





### Blood Sample and Shipment Notification Form

# Step 5.Include Blood Sample & Shipment Notification Form in Cardboard Shipper

- Fill out completely during study visit
- Include Kit Number Label on Form
- Take a copy of each form prior to shipment. E-mail or fax NCRAD for notification
  - Email: <u>alzstudy@iu.edu</u>
  - Fax: 317-321-2003

#### Appendix B: Blood Sample and Shipment Notification Form

Please email or fax the form on or prior to the date of shipment

To: Kelley Faber Email: alzstudy@iu.edu Phone: 1-800-526-2839/317-278-8413							
From: UPS tracking #:1Z976R8W84							
Phone: Email:							
Study: Nicotinic Acid Participant ID:							
Year of Birth: Sex: M F KIT BARCODE							
Visit: Day 0 Day 60							
Blood Collection:							
Date of Draw:	[MMDDYY]	Time of Draw:	_[HHMM]				
Date participant last ate:	[MMDDYY]	Time participant last ate:	[HHMM]				
Blood Processing:  Plasma & Buffy Coat (EDTA Tube)							
Original blood volume of EDTA #1:		Original blood volume of EDTA #2:	mL				
Time spin started:	[HHMM]	Duration of centrifuge:	mins				
Temp of centrifuge:	°c	Rate of centrifuge:	x g				
Time aliquoted:	[HHMM]	Number of 1.5 mL plasma aliquots created (purple cap, up to 6):					
If applicable, volume of	[	If applicable, specimen number of					
residual plasma aliquot mL		residual plasma aliquot					
(less than 1.5 mL in blue cap):	N/A	(Last four digits):	N/A				
Buffy coat #1 specimen number (Last four digits):		Buffy coat #1 volume:	mL				
Buffy coat #2 specimen number		D ff					
(Last four digits):	[[]]	Buffy coat #2 volume:	mL				
Time aliquots placed in freezer:	[HHMM]	Storage temperature of freezer:	°C				
Notes:							



# Specimen Packaging and Shipment: Cardboard Package Labeling

Step 6.







# Creating Airbills & Scheduling Pickups



# Navigating UPS ShipExec Tutorial

HTTPS://NCRAD.ORG/SHIPPING ADDRESS.HTML



# UPS ShipExec<sup>TM</sup> Thin Client Website



Log into the ShipExec Thin Client: <a href="https://kits.iu.edu/UPS">https://kits.iu.edu/UPS</a>



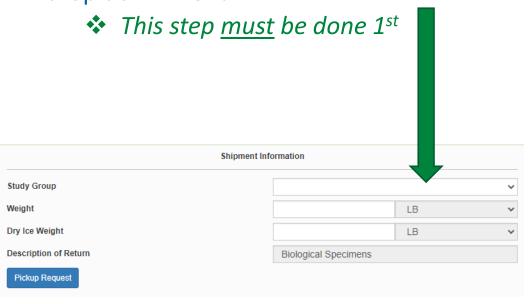
Click on the "Shipping" dropdown and click on "Shipping and Rating"



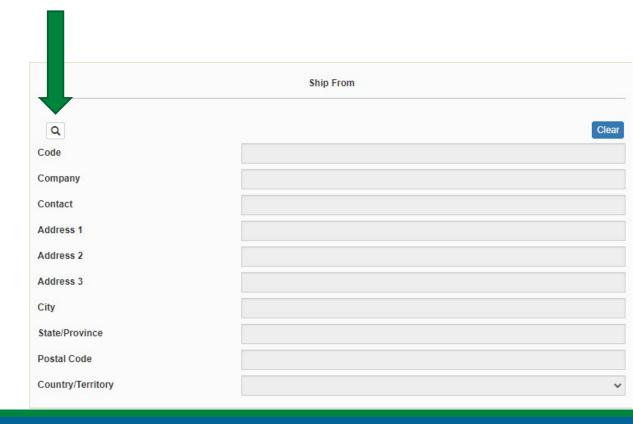


# Creating Airbills & Scheduling Pick Ups: Finding your Contact Information

On the right side of the screen, choose the name of your study from the "Study Group" drop down menu

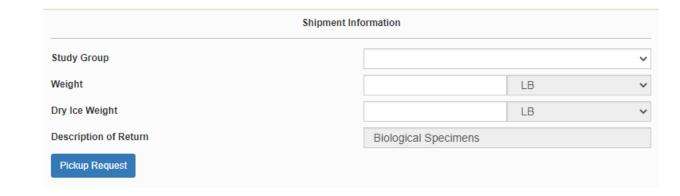


❖On the left side of the screen, Click on the magnifying glass icon



# Creating Airbills & Scheduling Pick Ups: Entering Shipment Information

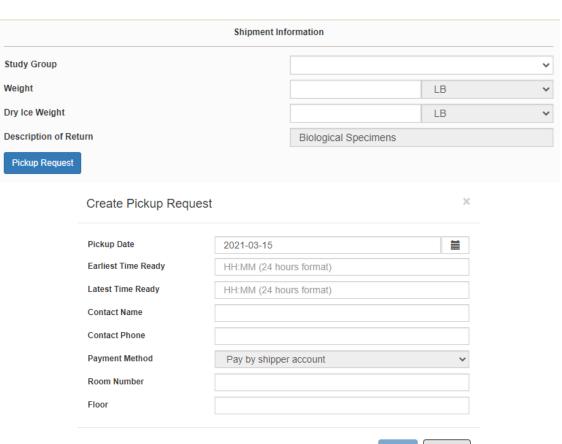
- Enter the total weight of your package in the "Weight" field
- Enter the dry ice weight in the "Dry Ice Weight" field
  - The "Dry Ice Weight" field cannot be higher than the "Weight" field (will receive an error message)





# Creating Airbills & Scheduling Pick Ups: Scheduling Pickup Request

- Click on the "Pickup Request" button
- ❖ Fill out all fields for the pickup request
- ❖ Enter in the "Earliest Time Ready" and "Latest Time Ready" in 24-hour format separated by colon.
- Choose a name and number that is the best to contact if the UPS driver has questions related to picking up your package
- ❖ Entering the Room Number and Floor will help the UPS driver locate your package
- Hit "Save" when done

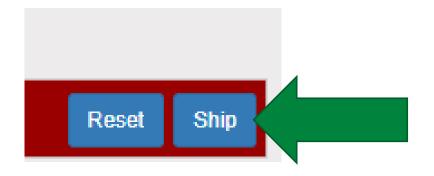




Cancel

# Creating Airbills & Scheduling Pick Ups: Shipping Packages

❖If all fields in "Ship From" and "Shipment Information" fields are completed, and pickup request is completed (if necessary) then click "Ship" in the bottom right corner of the page





## Shipment Receipt

ShipExec™ Shipment Receipt

Transaction Date: Tuesday, December 8, 2020 Pickup No: 2929602E9CP

Address Information

Ship To: Shipper: Ship From: John Smith lugb lugb

Indiana UnversityIu School Of MedicineIu School Of Medicine980 W. Walnut Street351 W 10Th St351 W 10Th StIndianapolis, IN 46202Indianapolis, IN 46202Indianapolis, IN 46202

**Shipment Information** 

Service: UPS Next Day Air (UPS Adapter)

Package Information

Pkg No Tracking No Packaging Type Actual Wt Billable Wt Insured Value 1 12976R8W8430841976 Customer Packaging 20.0 20 0.00

Check Pickup Status by going to UPS.com, click on the Shipping, select Schedule a Pickup, and look on the right side of screen to click on "Pickup Request Status". Enter in the Pickup No. listed on receipt into PRN field and submit

#### Airbill

JOHN SMITH 317-555-1234 INDIANA UNVERSITY 980 W. WALNUT STREET INDIANAPOLIS IN 46202

20 LBS

1 OF 1

RS

SHIP TO: IUGB

317-278-6158

IU SCHOOL OF MEDICINE

TK 217

351 W 10TH ST

INDIANAPOLIS IN 46202



IN 461 9-01



**UPS NEXT DAY AIR** 

TRACKING #: 1Z 976 R8W 84 3084 1976

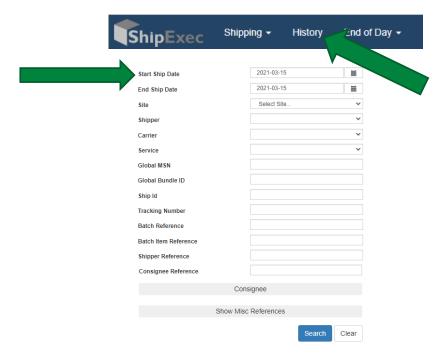


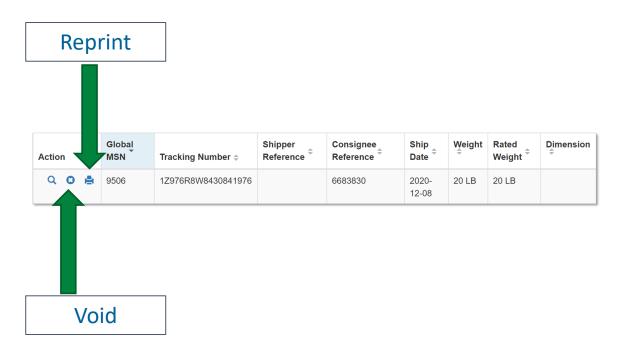
BILLING: P/P
DESC: Biological Specimens
RETURN SERVICE
UN1845, DRY ICE, CLASS 9, 1 x 4.5 KG
AUDIT REQUIRED

Reference No.1: 6683830



# Creating Airbills & Scheduling Pick Ups: Reprinting/Voiding Airbills





- •To reprint airbill or void a shipment, click "History" at the top of the ShipExec Thin Client portal
- •If your shipment doesn't automatically pop up, enter in the date of shipment and then click "Search"



## **Non-Conformance Issues**



## Non-Conformance

Aliquots are not labeled or labeled incorrectly

Blood Sample and Shipment Forms are not e-mailed or

faxed to NCRAD before shipment arrives

one shipment box

incorrect data is given

## Solution

Low volume aliquots	Put cryovials in a row, aliquoting in order until sample is
	depleted

Carefully place tubes upright in freezer and in shipper Tubes received frozen at an angle/inverted

> Refer to training or MOP for correct label placement. Save all labels until samples are packed for shipping.

All frozen samples for one participant are not sent within Keep plasma and buffy coat for individual participants

together. Use one cryobox per participant Fields on Blood Sample and Shipment Form left blank or

Complete Blood Sample and Shipment Form during

participant's study visit while samples are processed

Make copy of participants completed form after visit and save until shipment.

## **Contact Information**

#### **Questions?**

Please Contact NCRAD Coordinator at:

- Phone: 1-800-526-2839
- Nicotinic Acid Coordinator E-mail: <a href="mailto:eridelan@iu.edu">eridelan@iu.edu</a>
- ❖ NCRAD General E-mail: <u>alzstudy@iu.edu</u>
- ❖ Website: www.NCRAD.org
- Study Webpage: www.ncrad.org/coordinate-studies/nicotinic-acid

