# Preventing Alzheimer's Disease with Cognitive Training: The PACT Trial

Biospecimen Collection and Shipment training



National Centralized Repository for Alzheimer's Disease and Related Dementias

## **Training Overview**

- Study Specimen Collection Overview
- ❖ NCRAD Kit Request Module
- ❖ Specimen Labeling Instruction
- Specimen Collection and Processing
- ❖ Specimen Packaging and Shipment Instruction
- Creating Airbills and Scheduling Pickups
- Non-Conformance Issues
- Contact Information



### PACT Specimen Collection

Samples will be collected and processed during Baseline Visit and Final Clinical Evaluation.

Plasma and Buffy Coat will be frozen and shipped to NCRAD for both visits

Specimen Type	All Visits
Plasma	X
Buffy Coat (DNA)	X



## Kit Request Module

#### kits.iu.edu/PACT

+ -





#### PACT Kit Request System

Please verify or edit the contact name, shipping address, phone number, and e-mail address. Then, enter the desired number of kits or extra supplies in the text fields to the right of each option. A comprehensive list of each kit is listed at the bottom of the screen. Please click submit at the bottom of the screen when you are finished to place your order.

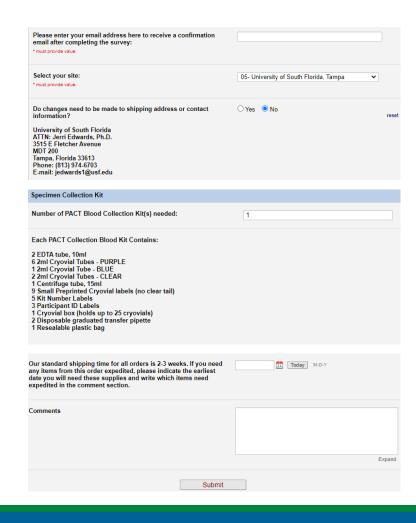
Due to ongoing supply limitations, we ask that you please only order as many kits and extra supplies that you will be able to use in the next 30 days. Doing so allows us to fulfill as many kit requests as possible without depleting stock for other kit requests in our queue. If we are not able to fulfill any part of your request due to supplies being out of stock, we will reach out about those individually.

of stock, we will reach out about those individually.		
Please enter your email address here to receive a confirmation email after completing the survey:  *must provide value		
Select your site: * must provide value	v	
Specimen Collection Kit		
Number of PACT Blood Collection Kit(s) needed:		
Each PACT Collection Blood Kit Contains:  2 EDTA tube, 10ml (CT001) 6 2ml Cryovial Tubes - PURPLE [CV027] 1 2ml Cryovial Tubes - BLUE [CV034] 2 2ml Cryovial Tubes - CLEAR [CV014] 1 Centrifuge tube, 15ml (unwrapped) [CV004] 9 5 mall Preprinted Cryovial labels (no clear tail) [LB003] 5 Kit Number Labels 3 Participant ID Labels 1 Cryovial box (holds up to 25 cryovials) [CV005] 2 Disposable graduated transfer pipette (3 ml) [CV015] 1 Resealable plastic bag [ST002]		

- Ordering blood kit supplies
- Ordering frozen specimen
  - shipment supplies
- Please allow two to three weeks for orders to be processed and delivered to your site



## Kit Request Module Instruction



- 1. Verify site shipping address and contact information
- 2. Choose kit order amount
  - Specimen Collection Kit
  - Frozen Shipping Supply Kit
  - Supplemental Kit
  - Extra Supplies
- 3. Rush order or special comments

\*Reminder: allow **two to three weeks** for orders to be processed and delivered to your site



## Specimen Labeling Instruction

## Specimen Labeling Instructions: Label Type and Placement

#### **Kit Number Label**



Ties all visit samples and packaging together.

Must be placed on:

- 1. Blood Sample and Shipment Notification Form
- 2. Each Cryobox

#### **Participant ID Label**



Unique PACT Participant ID written by site and initials of blood processing staff

Must be placed on:

1. Whole-Blood 10 ml EDTA Tube (Purple-Top)

#### **Collection Tube Label**



Contains Specimen Number, Specimen Type, and Kit Number. Must be placed on:

Whole-Blood 10 ml EDTA Tube (Purple-Top)

#### **Aliquot Cryovial Label**





Contains Specimen Number, Specimen Type, and Kit Number. Must be placed on:

1. Aliquoted 2 ml cryovial with corresponding aliquot type



#### Specimen Labeling Instruction: Label Placement Details

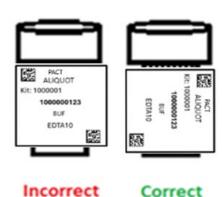
- Write participant ID and initials with finepoint marker prior to label placement
- Place all labels on Whole-Blood EDTA 10 ml tube and Cryovial 2 ml before blood collection, processing, or freezing
- Label collection tubes and cryovials for one subject at a time in order to avoid mix ups.
- Wrap labels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

Collection Tube
Labeling

PACT
COLLECT
KIE: 1000001
1000000123
WBLD
EDTA10
EDTA10

Incorrect Correct

Cryovial Labeling





## **Specimen Collection and Processing**

### Specimen Collection and Processing: Specimen Tube Types

Type	Cap Color	Size	Purpose	Amount
EDTA Tube	Purple	10 ml	Whole blood collection	2
<b>Conical Tube</b>	Orange	15 ml	Pooling plasma from EDTA tubes	1
Cryovial	Lavender	2 ml	1.5 ml aliquots of plasma from conical tube	Up to 7
Cryovial	Blue	2 ml	Aliquot residual plasma <1.5 ml after filling lavender top cryovials	1
Cryovial	Clear	2 ml	~1.0 ml aliquots of buffy coat from EDTA tubes	2



#### Specimen Collection and Processing: Blood Collection and Specimen Processing

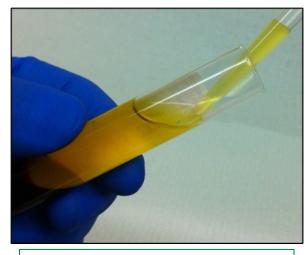
Step One Step Two Step Three Step Five Step Four Step Six Step Seven Label purple-capped cryovials with "PLASMA" labels. Aliquot 1.5 ml plasma into each cryovial. If residual aliquot is created, document specimen number and volume on Sample Form. Store plasma aliquots upright at -80°C until shipment to NCRAD. Step Eight □ Label clear-capped cryovials with "BUFFY COAT" □ Pool all Store tubes Collect blood ☐ Immediately □ Place □ Centrifuge after blood plasma from labels. into each at room samples at thoroughly Using a clean transfer pipette, collect the buffy draw, invert the 2 EDTA temp. EDTA Tube, mixed tube on 2000 x g coat (may have residual plasma and some RBCs Each tube allowing tubes 8-10 tubes into a wet ice until for 10 included). should be times to mix 15 ml conical blood to centrifugation minutes at ☐ Transfer the buffy coat from each EDTA tube into labeled with flow for 10 samples. begins. 4°C. tube and Collection invert gently its own cryovial. seconds and Store buffy coat aliquots upright at -80°C until 3 times to Tube and Site ensuring mix the shipment to NCRAD. and Participant blood flow Spin, aliquot, and freeze all plasma and buffy Labels. plasma. has stopped. coat aliquots within 2 hours of collection.



## Specimen Collection and Processing: Plasma Collection



10 ml EDTA tubes after centrifuge



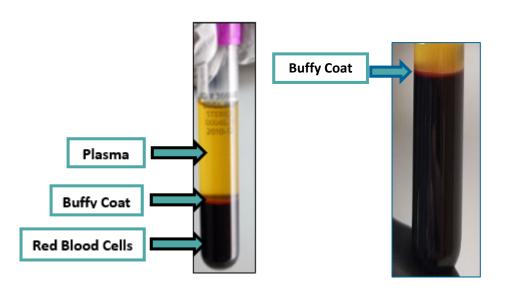
15 ml conical after inversion

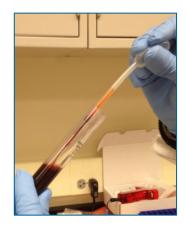


- Processed plasma creates up to seven
   1.5 ml aliquots in lavender-top cryovials
- Residual plasma is placed in blue-top cryovial



# Specimen Collection and Processing: Buffy Coat Collection







- Aliquot ~1.0 buffy coat into two clear-capped cryovials
- ❖ The buffy coat aliquot is expected to have a reddish color from the RBCs



#### Specimen 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 Shipment and Notification Form



Batch samples together (8 cryoboxes)



## 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
- Each Styrofoam shipper can contain up to 8 cryoboxes





# 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 up to 8 cryoboxes with tubes laying upright
- Step 4. Fully cover all cryoboxes with
   2 inches of dry ice
- Step 5. Place Styrofoam shipping container into cardboard shipping container



#### Blood Sample and Shipment Notification Form

## Step 6.Include Blood Sample & Shipment Notification Form in Large 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: alzstudy@iu.edu
  - Fax: 317-321-2003

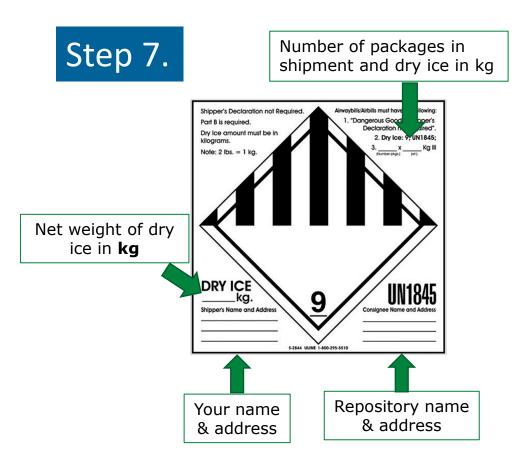
#### Appendix B: Blood Sample and Shipment Notification Form

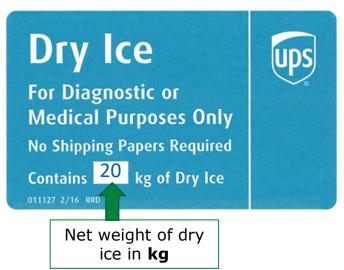
Please email or fax the form on or prior to the date of shipment.

To: Kelley Fabe	r Email: alzstudy@	iu.edu	Phone: 1-800-526-2839		
From:UPS tracking #: <u>1Z976R8W</u>					
Phone:	En	nail:			
Study: PACT Baseline Visit	3-Year Visit				
Participant ID:			KIT BARCOI	DE	
Sex: M F Year of Birth:	Training Level:				
Blood Collection:					
Date of Draw:	[MMDDYY]	Time of	Draw:	[HHMM]	7
Date subject last ate:	[MMDDYY]	Time sul	oject last ate:	[HHMM]	
5/ /5					
Blood Processing:	Plasma & Buffy Co	at (EDTA	Tube)		
Original blood volume of EDTA #1:	mL	Origina	l blood volume of EDTA #2:	n	mL
Time spin started:	[HHMM]		Duration of centrifuge:	n	nins
Temp of centrifuge:	°c		Rate of centrifuge:	;	хg
Time aliquoted:	[HHMM]	1	r of 1.5 mL plasma aliquots ted (lavender cap, up to 6):		
If applicable, volume of residual	[		cable, specimen number of		
plasma aliquot (less than 1.5 mL in blue cap):	mL □N/A		residual plasma aliquot (Last four digits):		■N/A
Buffy coat #1 specimen number			(Last lour digits).		=11/1/
(Last four digits):			Buffy coat #1 volume:	n	nL
Buffy coat #2 specimen number (Last four digits):			Buffy coat #2 volume:	n	nL
Time aliquots placed in freezer:	[HHMM]	Stora	ge temperature of freezer:	0	С
Notes:					



# Specimen Packaging and Shipment: Cardboard Package Labeling









#### **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>



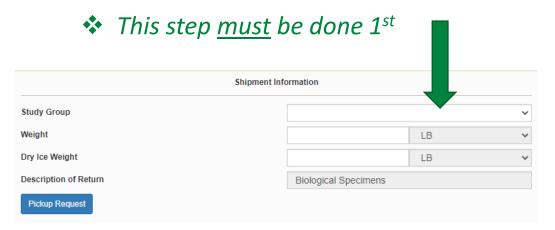
Click on the "Shipping" dropdown and click on "Shipping and Rating"





# 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

	Ship From
Q	Clear
Code	
Company	
Contact	
Address 1	
Address 2	
Address 3	
City	
State/Province	
Postal Code	
Country/Territory	·

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

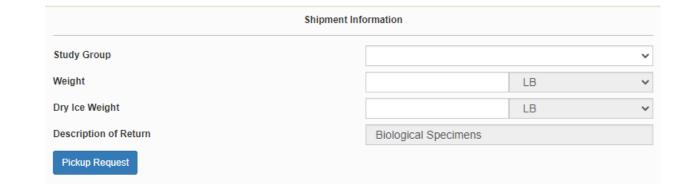
Search Address

- On the right side of the screen, a list of all the site addresses within the study you selected should populate
- ❖ User can filter the search for their address further by filling in the "Company", "Contact", or "Address 1" fields
- Please verify that both the shipping information AND study reference are correct for this shipment
- ❖ If any information needs to be updated, please reach out to the NCRAD Coordinator of your study

Contact Select address book Code : Address Book Type ADCFB Barrow ADCFB Angelica ARIZONA RETURNS BARROW ADCFB Dr. Geidy Arizona ARIZONA Alzheimer's Serrano Center: BSHRI BSHRI ADCFB (NCRAD) ADCFB Code BOSTON Steinberg Company Contact **ADCFB** John Hopkins JOHNS Gogel Address HOPKINS Address 2 ADCFB University of Kayla Address 3 KANSAS Kansas Meyer State/Province ADCFB MGH Rava Postal Code General Hospital Kumar Country/Territory Account / Tax University Of Matthew MICHIGAN Michigan **≭**Clear Q.Search NYU Langone

### Creating Airbills & Scheduling Pick Ups: Entering Shipment Information

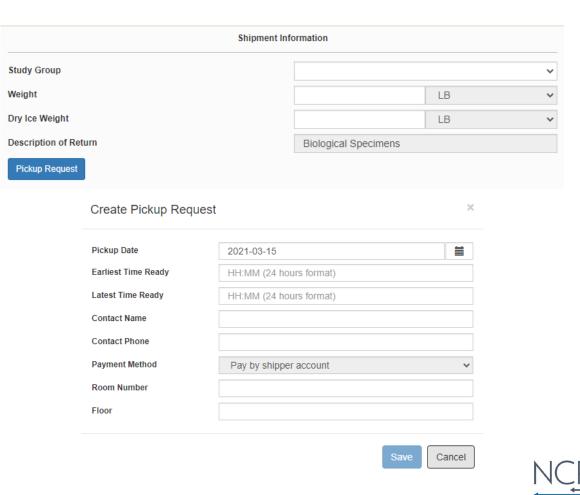
- Enter the total weight of your package in the "Weight" field
- Enter the dry ice weight in the "Dry Ice Weight" field
  - The "Dry Ice Weight" field cannot be higher than the "Weight" field (will receive an error message)





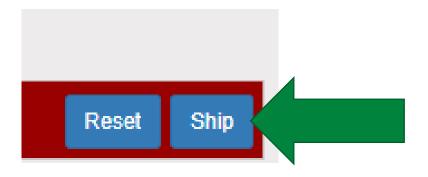
# Creating Airbills & Scheduling Pick Ups: Scheduling Pickup Request

- 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
- 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



## 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 St

Indianapolis, IN 46202 Indianapolis, IN 46202 Indianapolis, 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 1Z976R8W8430841976 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

RS

1 OF 1

'

SHIP TO: IUGB 317-278-6158 IU SCHOOL OF MEDICINE TK 217 351 W 10TH ST

INDIANAPOLIS IN 46202



**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

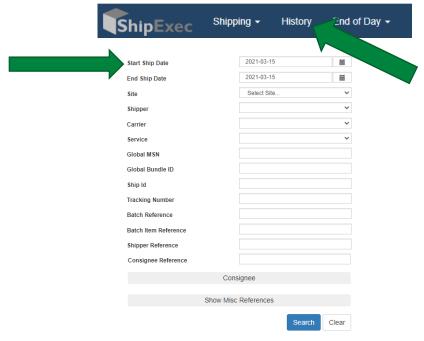
## Creating Airbills & Scheduling Pick Ups: Shipping Packages

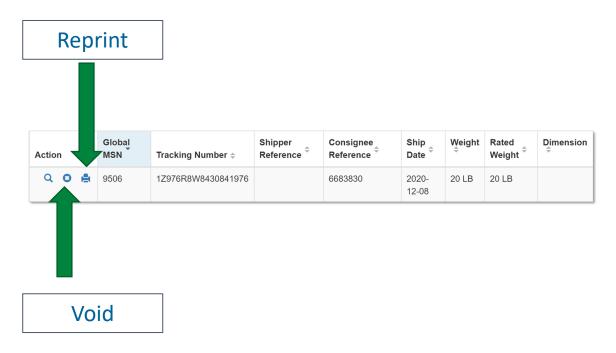
- Print out the UPS air waybill
- 2. Fold the UPS Air Waybill and slide it inside the plastic UPS Sleeve (Provided by NCRAD)
- 3. Peel the back off the plastic UPS sleeve and stick the sleeve to cardboard package
  - Make sure it is laying as flat as possible along the surface of the package.





## 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**

#### Solution

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

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

Aliquots are not labeled or labeled incorrectly

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 one shipment box

Keep plasma and buffy coat for individual subjects

together. Use one cryobox per subject

Fields on Blood Sample and Shipment Form left blank or incorrect data is given

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.

Blood Sample and Shipment Forms are not e-mailed or faxed to NCRAD before shipment arrives

#### **Contact Information**

#### • Questions?

- Please Contact NCRAD Coordinator at:
  - Phone: 1-800-526-2839
  - ❖ PACT Coordinator E-mail: eridelan@iu.edu
  - NCRAD General E-mail: <a href="mailto:alzstudy@iu.edu">alzstudy@iu.edu</a>
  - Website: www.NCRAD.org
  - \*PACT Webpage: <a href="https://ncrad.org/coordinate-studies/pact">https://ncrad.org/coordinate-studies/pact</a>

