Multicultural Community Dementia Screening (MCS)

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



MCS Specimen Collection

- Samples will be collected and processed during Baseline Visit and during annual visit for 5-years.
- Plasma and Buffy Coat will be frozen and shipped to NCRAD for all visits

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



Kit Request Module

www.kits.iu.edu/MCS



MCS-R01 Kit Request System

email after completing the survey

Please enter your email address here to receive a confirmation

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.

* must provide value		
	Shipping and Contact Information	
Comprehensive Center for Brain Health Attn: Mary Lou Riccio and Mahesh Joshi 7700 West Camino Real, Suite 200 Boca Raton, FL 33433 E-mail: mxr2310@med.miami.edu Phone: 561-869-6808		
Is the address provided correct? * must provide value	⊖ Yes ○ No ret	set
Is the phone number above correct? * must provide value	⊖ Yes ○ No ret	set
Is the e-mail address above correct? * must provide value	⊖ Yes ◯ No ret	set

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

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

Specimen Collect	ion Kit
Number of MCS Blood Collection Kit(s) needed:	
Each MCS 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 [CV004] 11 Small Preprinted Cryovial labels (no clear tail) [LB003] 5 Kit Number Labels 3 Participant ID Labels 1 Cryovial box (holds up to 25 cryovials) [CV005] 3 Disposable graduated transfer pipette (3ml) [CV015] 1 Resealable plastic bag [ST002] 1 Resealable small poly bag (4"x6") [ST010]	
Frozen Shipping St	apply Kit
Number of MCS Frozen Shipping Kit(s) needed: (for up to 8 subjects)	
Each MCS Frozen Shipping Supply Kit Contains: 8 Plastic Biohazard bag with absorbent sheet (small) [SH015] 1 UPS return airbill and pouch [SH002] 1 Shipping box/Styrofoam container [SH003] 1 Warning label packet with dry ice sticker [LB016] 1 Resealable Bag [ST002]	
Supplemental	Kit
Number of MCS Blood Supplemental Supply Kit(s) needed:	
Each MCS Supplemental Supply Kit Contains: 04 EDTA tube, 10ml [CT001] 12 2ml Cryovial Tubes - PURPLE [CV027] 02 2ml Cryovial Tubes - BLUE [CV034] 04 2ml Cryovial Tubes - CLEAR [CV014] 02 50 ml Conical Tube [CV019] 05 Participant ID labels [LB003] 02 Cryovial box (holds up to 25 cryovials) [CV005] 06 Disposable graduated transfer pipette [CV015] 01 Resealable plastic bag [ST002] 06 Resealable small poly bag (4" x 6") [ST010]	



Specimen Labeling Instruction

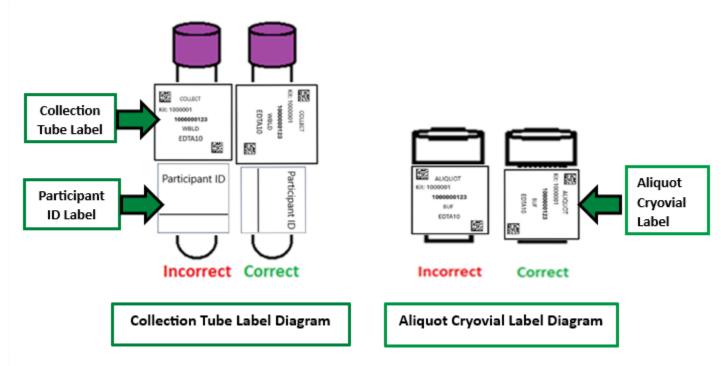
Specimen Labels

	Kit Number Label
KIT NUMBER	 Ties all biospecimens and kit content together for each participant
1000001	 Placed on each cryobox and blood sample notification form
	Participant ID Label
Participant ID	 Handwritten by sites according to unique study ID
нві	Placed on blood collection EDTA tubes
	Collection Tube Label
COLLECT Kit: 1000001 100000123	 Specific to type of specimen. Contains unique specimen ID, barcodes, and kit number.
WBLD EDTA10	Place on each collection tube
	Aliguot Cryovial Label
ALIQUOT Kit: 1000001 1000000123 PLA EDTA10	 Specific to type of specimen. Contains unique specimen ID, barcodes, and kit number. Place on each collection tube



Specimen Labeling Instruction: Label Placement Details

- Write participant ID with fine-point marker prior to label placement
- Place all labels on specimen specific collection tubes 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





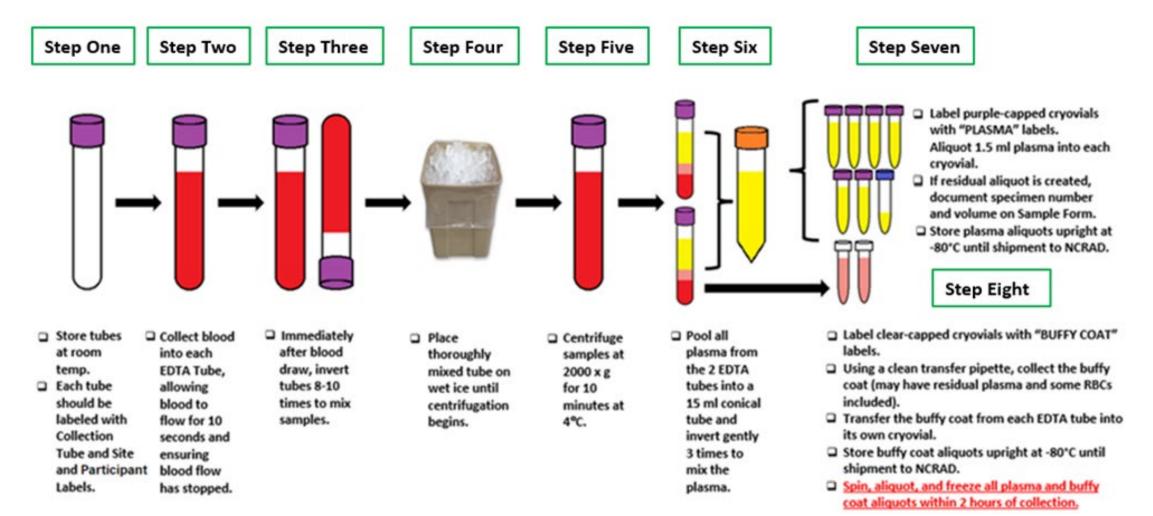
Specimen Collection and Processing

Specimen Collection and Processing: Specimen Tube Types

Туре	Cap Color	Size	Purpose	Amount
EDTA Tube	Purple	10 ml	Whole blood collection	2
Centrifuge Tube	Orange	15 ml	Pooling plasma from EDTA tubes	1
Cryovial	Lavender	2 ml	1.5 ml aliquots of plasma from Centrifuge 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





Specimen Collection and Processing: Plasma Collection



10 ml EDTA tubes after centrifuge



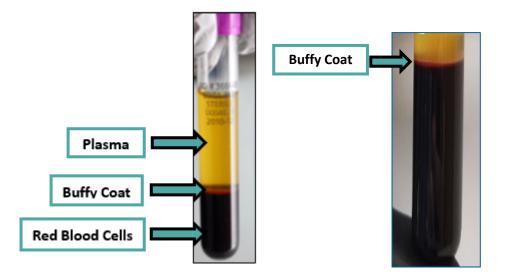
15 ml conical after inversion



- 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





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 laying upright
- Step 4. Fully cover all cryoboxes with 2 inches of dry ice
- Each Styrofoam shipper must contain 45 lbs. (20 kg) of dry ice
- Important: Fill shipper to the top with dry ice



Blood Sample and Shipment Notification Form

- 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
- ✓ Include Blood Sample and Shipment Notification Form in Large Cardboard Shipper

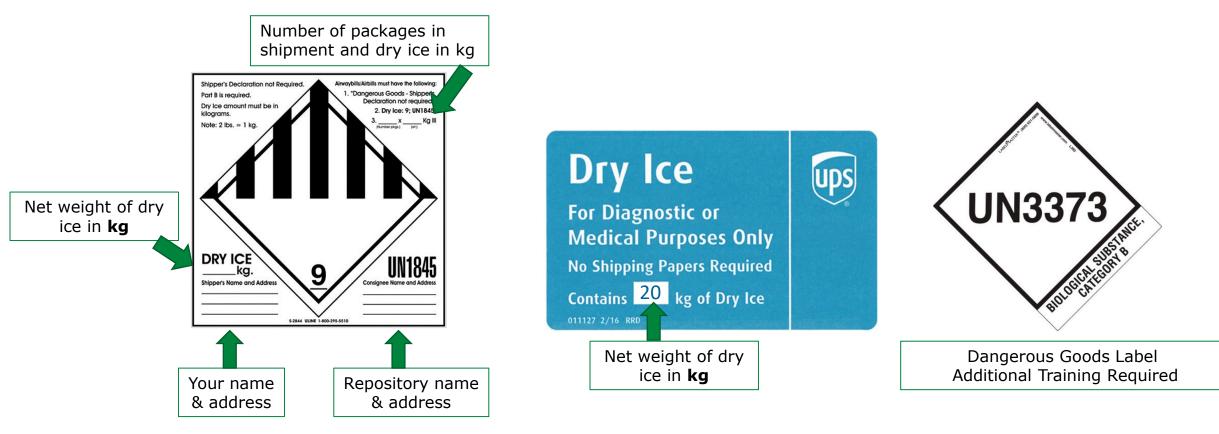


iospecimen Collection, Processing, and Shipment Manual

	Blood Sample and	Shipment Notification Form	. manaan
	ail: alzstudy@iu.edu	prior to the date of shipment. Phone: 1-800-526-2839/317-278-84	113
From: Mahesh Joshi, PhD	U	PS tracking #: <u>1Z976R8W84</u>	
Phone: 561-869-6827	Email:	maj145@med.miami.edu	
Study: Multicultural Community De	mentia Screening		
/isit: Baseline 1-Year 2-	Year 🔲 3-Year 📘	4-Year 5-Year	
Sex: M M F Year of Birth: _		KIT BARCODE	
Blood Collection:		1	
Date of Draw:	[MMDDYY]	Time of Draw:	[HHMM]
Date participant last ate:	[MMDDYY]	Time participant last ate:	[HHMM]
Original blood volume of EDTA #1:	Plasma & Buffy Co	Original blood volume of EDTA #2:	mL
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:	va
Number of 1.5 mL plasma aliquots			x g
Time a linuate de			^S
Time aliquoted: If applicable, volume of residual plasma aliquot (less than 1.5 mL in blue can):	[HHMM]	created (purple cap, up to 6): If applicable, specimen number of residual plasma aliquot	
If applicable, volume of	[HHMM]	created (purple cap, up to 6): If applicable, specimen number of	× g
If applicable, volume of residual plasma aliquot (<u>less</u> than 1.5 mL in blue cap): Buffy coat #1 specimen number		created (purple cap, up to 6): If applicable, specimen number of residual plasma aliquot (Last four digits):	N/A



Specimen Packaging and Shipment: Cardboard Package Labeling





Specimen Packaging and Shipment: Federal Shipping Regulations and Training

• <u>Important</u>: It is the sites' responsibility to ensure all study personnel responsible for shipping has received the appropriate IATA training for certification in biospecimen shipping

DGI Training Center 800-338-2291 DGItraining.com Provides IATA Certified Air Seminars and online courses	IATA Training Schools North America 1(514)390-6726 Europe, Africa & Middle East 41 (22) 799 2751 Asia, Australia & the Pacific 65 239 7232 <u>www.iata.org</u> Training schools located in 30 countries
Saf-T Pak Inc. <u>www.saftpak.com</u> Provides dangerous goods training via CD or on-site instruction for North America and Europe	Aiconsult Email: <u>Airconsult@wanadoo.fr</u> <u>www.airconsult-bf.com</u>
Bureau of Dangerous Goods LTD., TIANJIN Addr.: No.3 Yingshui road, Nankai district, Tianjin Tel: 022-23495890 83326960 83326854 / Fax: 0 Email: <u>cdmin@bdg-china.com.cn</u> <u>www.bdg-china.com.cn</u>	

International Air Transport Association (IATA) Training



Specimen Packaging and Shipment: UN3373 Biological Substance-Category B Training Resources

Training for UN3373 Biological Substance-Category B being transported for investigational purposes is recommended for study personnel

Find training information and further resources on the Department of Transportation website <u>http://hasmat.dot.gov</u>



Creating Airbills & Scheduling Pickups

UPS ShipExecTM Thin Client Website



Log into the ShipExec Thin Client: https://kits.iu.edu/UPS



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

This step <u>must</u> be done 1st

	Shipment Inf	ormation		
Study Group				~
Weight			LB	~
Dry Ice Weight			LB	~
Description of Return		Biological Specimens		
Pickup Request				

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

Ship From				
٩	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
- Click "Search" when ready.
- Once you have found your site address, click on the "Select" button to the left of the address
- If any information needs to be updated, please reach out to the NCRAD Coordinator of your study

Contact Select address book Action Code 😄 Company \$ Address Book Туре ADCFB Barrow ADCFB Angelica ARIZONA Garcia RETURNS Company BARROW ADCFB Arizona Dr. Geidv ARIZONA Alzheimer's Serrano BSHRI Center: BSHRI Group ADCFB (NCRAD) Boston University ADCFB Eric Code BOSTON ADRC Steinberg Company Contact ADCFB John Hopkins Carol JOHNS ADRC Gogel Address 1 HOPKINS Address 2 ADCFB University of Kayla Address 3 KANSAS Kansas Meyer City State/Province ADCFB MGH Massachusetts Rava Postal Code General Hospital Kumar Country/Territory v Email Phone Fax Account / Tax ADCFB University Of Matthew MICHIGAN Michigan Perkins Email **X**Clear QSearch ADCFB NYU NYU Langone Ashley Medical Center Claytor

Creating Airbills & Scheduling Pick Ups: Verify your Contact Information

Please verify that both the shipping information AND study reference are correct for this shipment

Ship From		Shipment Information			
		Study Group	ADCFB (NCRAD)		~
	Clear	Weight		LB	~
Code AD	DCFB NYU	Dry Ice Weight		LB	~
Company NY	YU Langone Medical Center	Description of Return	Biological Specimens		
Contact Ast	shley Clayton	Pickup Request			
Address 1 145	5 East 32nd Street-2nd floor	Pickup Kequest			
Address 2					
Address 3					
City	EW YORK				
State/Province NY	(
Postal Code 100	016				
Country/Territory Un	nited States 🗸				



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)

Shipment Information				
Study Group			~	
Weight		LB	~	
Dry Ice Weight		LB	~	
Description of Return	Biological Specimens			
Pickup Request				



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

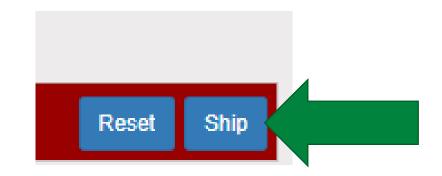
Hit "Save" when done

		Shipment Info	ormation		
udy Group					~
eight				LB	~
y Ice Weight				LB	~
escription of Retu	um		Biological Specimens		
Pickup Request					
	Create Pickup Request			×	
	Pickup Date	2021-03-15			
	Earliest Time Ready	HH:MM (24 hou	ırs format)		
	Latest Time Ready	HH:MM (24 hou	ırs format)		
	Contact Name				
	Contact Phone				
	Payment Method	Pay by shipper	account	*	
	Room Number				
	Floor				



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 R	eceipt							
Transaction Date: Tuesday, D	ecember 8, 2020	Pickup I	Pickup No: 2929602E9CP					
Address Information								
Ship To:	Shipper:	Ship Fro	Ship From:					
John Smith	lugb	lugb	lugb					
Indiana Unversity	lu School Of Medicine	lu Scho	lu School Of Medicine					
980 W. Walnut Street	351 W 10Th St	351 W 1	351 W 10Th St					
Indianapolis, IN 46202	Indianapolis, IN 46202	Indianap						
Shipment Information								
Service:	UPS Next Day Air (UPS Ada	pter)						
Package Information								
Pkg No Tracking No	Packaging Type	Actual Wt	Billable Wt	Insured Value				
1 1Z976R8W843084	1976 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



Creating Airbills & Scheduling Pick Ups: Reprinting/Voiding Airbills

ShipExec	Shipping - History	i find of Day →			Rej	orint							
Start Ship Date End Ship Date Site Shipper	2021-03-15 2021-03-15 Select Site		7										
Carrier Service		~			Action	Global MSN	Tracking Number 🗢	Shipper Reference [≑]	Consignee ¢	Ship Date [≑]	Weight ≑	Rated Weight [≑]	Dimension ≑
Global MSN Global Bundle ID Ship Id					Q 🙂	9506	1Z976R8W8430841976		6683830	2020- 12-08	20 LB	20 LB	
Tracking Number Batch Reference													
Batch Item Reference Shipper Reference													
Consignee Reference	Consignee												
Sh	ow Misc References				V	oid							
	Search	Clear		L]						

- 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"



Creating Airbills & Scheduling Pick Ups: Shipping Packages

- 1. 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.





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
Blood Sample and Shipment Forms are not e-mailed or faxed to NCRAD before shipment arrives	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
- Study Coordinator E-mail: <u>eridelan@iu.edu</u>
- NCRAD General E-mail: <u>alzstudy@iu.edu</u>
- Website: www.NCRAD.org
- Study webpage: <u>ncrad.iu.edu/coordinate-studies/mcs</u>

