

Longitudinal Early-onset Alzheimer's Disease Study

in collaboration with

The National Centralized Repository for Alzheimer's Disease and Related Dementias (NCRAD)

#### **Biofluids Collection Training Slides**

### **Contact Information**

• Questions?

Please contact NCRAD Coordinators at:

- Phone: 1-800-526-2839 or 317-274-7546
- E-mail: <u>alzstudy@iu.edu</u> or <u>wilmesk@iu.edu</u>
- Website: <u>www.ncrad.org</u>



#### Training Overview:

- Specimen Collection Schedule
- Kit Request Module
- Specimen Labels
- Handling/Processing Study Specimens
- Sample Shipping
- NCRAD Website
- Questions?

# Biofluids Collection Schedule for CI (Cognitively Impaired) Participants:

| CI Participants       |               |  |   |                  |   |
|-----------------------|---------------|--|---|------------------|---|
| # Collection<br>Tubes | Draw<br>Order | Visit<br>Collected   | <b>Collection Container</b>                                 | Specimen<br>Type | Container Received  |
| 1                     | 1st           | Baseline, 12-<br>Month, 24-<br>Month, 36-<br>Month, 48-<br>Month | 2.5ml PAXgene™<br>Blood Collection Tube                     | RNA              | 2.5ml PAXgene™ Blood<br>Collection Tube                     |
| 1                     | 2nd           |  | 10ml Plain (Red-Top)<br>Serum Blood<br>Collection Tube      | Serum            | 2ml cryovials   |
| 2                     | 3rd           |  | 10ml Sodium Heparin<br>(Green Top) Blood<br>Collection Tube | PBMC             | 10ml Sodium Heparin<br>(Green Top) Blood<br>Collection Tube |
| 1                     | 4th           |  | 10ml EDTA<br>(Lavender-Top) Blood                           | Plasma           | 2ml cryovials   |
|                       |               |  | Collection Tube   | Buffy Coat       | 2ml cryovial  |
| 1                     | 5th           | Baseline<br>Only   | 6ml EDTA (Lavender-<br>Top) Blood Collection<br>Tube        | Whole<br>Blood   | 6ml EDTA (Lavender-<br>Top) Blood Collection<br>Tube        |
| 1                     | N/A           | Baseline, 12-  | Sterile Container   | CSF              | 2ml cryovials   |
|                       |               | Month, 24-   |   |                  | 2ml cryovials   |
|                       |               | Month, 36-   |   |                  | 2ml cryovials   |

#### **Biofluids Collection Schedule for CN** (Cognitively Normal) Participants

**CN** Participants **#** Collection Visit Specimen Container Draw **Collection Container Tubes** Collected Order Received Type 2.5ml PAXgene™ 2.5ml PAXgene™ Blood 1 **Blood Collection RNA** 1st **Collection Tube** Tube 10ml Plain (Red-Top) 1 Serum Blood Collection 2nd Serum 2ml cryovials Baseline, Tube 12-Month, 10ml Sodium 24-Month **10ml Sodium Heparin** Heparin (Green 2 3rd (Green Top) Blood **PBMC** Top) Blood **Collection Tube Collection Tube** 10ml EDTA (Lavender-4th Plasma 2ml cryovials 1 Top) Blood Collection Buffy Coat 2ml cryovial Tube Baseline, 2ml cryovials 24-Month N/A 1 CSF Sterile Container 2ml cryovials (\*can be drawn at M12 if not drawn at 2ml cryovials

Baseline)

# Kit Request Module

http://kits.iu.edu/leads



## Kit Request Module

- An initial stock of kits will be delivered prior to the designated site specific start date.
- Kits and individual supplies are available to order:
  - CI Baseline Blood-Based Kit
  - CI Month 12, Month 24, Month 36, Month 48 Blood-Based Kits
  - CN Baseline, Month 12, Month 24 Blood-Based Kits
  - Blood Supplemental Supply Kit
  - Frozen Blood Shipping Kit
  - Ambient Blood Shipping Kit
  - LEADS 22G LP Kit
  - LEADS 24G LP Kit
  - LEADS CSF Kit
  - CSF Supplemental Supply Kit
  - CSF Shipping Supply Kit

### NCRAD Kit Request Module



LEADS Kit Request System

- 1. Choose your site from the drop down list
- 2. The coordinator name and contact information will appear
- 3. Verify that this information is accurate, correct if necessary

| LEADS Site * must provide value   | Northwestern University                            |
|---|--|
| 067: Northwestern University<br>Cognitive Neurology and Alzheimer's Disease Center (CNADC)<br>Northwestern University<br>Feinberg School of Medicine<br>% Kristine Lipowski<br>320 East Superior Street, Searle 12-541<br>Chicago, IL 60611<br>Phone: 312-503-2486<br>k-lipowski@northwestern.edu |  |
| Is the contact name above correct? * must provide value   | <ul><li>○ Yes</li><li>○ No</li><li>reset</li></ul> |
| Is the shipping address above correct? * must provide value   | <ul><li>○ Yes</li><li>○ No reset</li></ul>         |
| Is the e-mail address above correct? * must provide value   | <ul><li>○ Yes</li><li>○ No</li><li>reset</li></ul> |

Resize tont:

### Study Visit Kits

| CI Baseline Blood-Based Kit Qty  | 1                 |  |
|--|-------------------|--|
| CI M12, M24, M36, M48 Blood-Based Kit Qty  | V                 |  |
| CN Baseline Blood-Based Kit Qty  |                   |  |
| CN M12 Blood-Based Kit Qty   |                   |  |
| CN M24 Blood-Based Kit Qty   |                   |  |
| LEADS Blood Supplemental Supply Kit Qty (usually need 1 at start-up)   |                   |  |
| LEADS Frozen Blood Shipping Supply Kit Qty (usually need 1 per 4-5 subjects)   |                   |  |
| LEADS Ambient Shipping Supply Kit Qty (need 1 per subject)   |                   |  |
| LEADS 22G LP Kit Qty   |                   |  |
| LEADS 24G LP Kit Qty   |                   |  |
| LEADS CSF Kit Qty (please provide arm and visit for each CSF kit in the "Comments" section)  |                   |  |
| LEADS CSF Supplemental Supply Kit Qty (usually need 1 at start-up)   |                   |  |
| LEADS CSF Shipping Supply Kit Qty (only needed when<br>planning on shipping CSF separate from blood - rarely<br>needed)  |                   |  |
| Do you need Extra Supplies?<br>* must provide value  | ○Yes<br>○No reset |  |
| Comments   |                   |  |
|  |                   |  |
|  | Expand            |  |
| Each CI Baseline Blood-Based Kit Contains:<br>1 PAXgene <sup>TM</sup> Blood Collection Tube (2.5 ml)<br>1 Plain Red Top Serum (Red-Top) Blood Collection Tube (10 ml)<br>2 Sodium Heparin (Green-Top) Blood Collection Tube (10 ml)<br>3 EDTA (Lavender-Top) Blood Collection Tube (6 ml)<br>1 EDTA (Lavender-Top) Blood Collection Tube (6 ml)<br>3 Cyrovial tube (2.0 ml) with bloed ccap<br>3 Cyrovial tube (2.0 ml) with bloe cpa<br>3 Cyrovial tube (2.0 ml) with bloe cpa<br>3 Cyrovial tube (2.0 ml) with bloe cpa<br>3 Cyrovial tube (2.0 ml) with clear cap<br>4 Disposable graduated transfer pipette<br>1 Soml conical<br>6 Bubble wrap tube sleeve for frozen blood tubes<br>25 Pre-printed Kit Number Label<br>4 Pre-printed Kit Number Label<br>10 Labels for handwritten Site and LEADS ID<br>1 8t-cell cryobox<br>1 Resealable bag |                   |  |
| Submit   |                   |  |

- Indicate the quantity needed of each kit
- Once selected, kit components of the chosen kit will appear at the bottom of the screen (Pictured)
- Click "Submit" to turn in your request.
- The IU staff will notify you that your request has been received and address any issues.
- \*\*Note: You can order more than one type of kit in a single kit request\*\*

#### Hints When Ordering Kits...

- For every set of CN or CI blood kits that are ordered, please indicate # of CSF kits needed. For example, if you need 20 blood kits and 10 CSF kits, how will those 10 be divided between study arms? 5 CI and 5 CN?
- Will need an LP tray in addition to CSF kit.
- Will need 1 ambient shipping kit per blood kit.
- Will need 1 frozen shipping kit per every 4-5 subjects.
- Should only need CSF shipping kit on rare occasions.
- Will need CSF Supplemental and Blood Supplemental with 1<sup>st</sup> order.

### NCRAD Kit Request Module: When It Must be Used

- Each site will be responsible for ordering kits (labels included) and maintaining supplies on site for scheduled participants.
- To order, sites will use the Indiana University online kit ordering module: <u>https://kits.iu.edu/leads</u>
- Allow a minimum of 2 weeks for your order to be processed and delivered.

# **Specimen Labels**



## Label Type Summary

- 1. Kit Number Labels
- 2. Site and LEADS ID Labels
- 3. Collection and Aliquot Tube Labels
  - Differ by specimen type

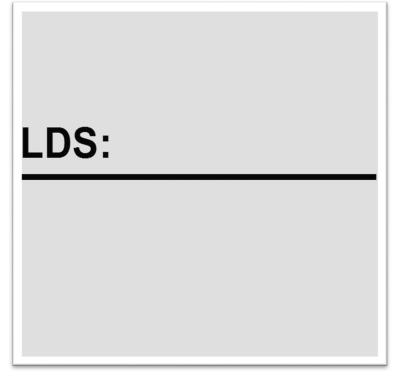
## Kit Number Labels



#### Provided by NCRAD in the kits

- Used to track patient samples and provide quality assurance
- Will be placed on the following locations:
  - Biological Sample and Shipment Notification Form
  - 2. Outside cryobox that houses aliquot tubes during storage and shipment
  - 3. CSF Sample and Shipment Notification Form (IF COLLECTED)
    - CSF samples will have a different kit number than the blood collection specimens

## Site and LEADS ID Label



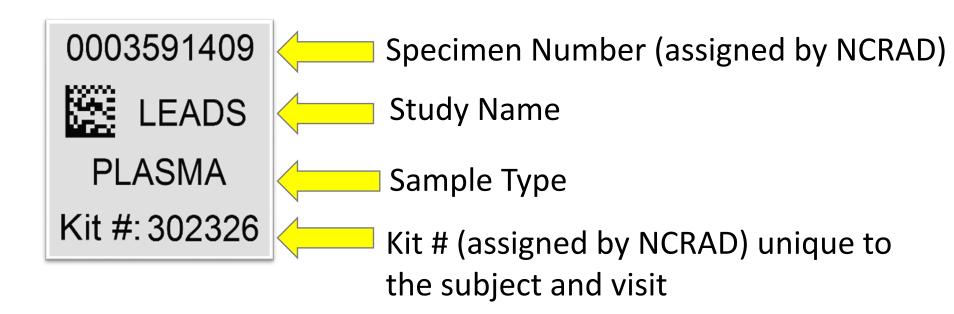
- Subjects will be identified by their site ID and LEADS ID
- The LEADS ID may only be available shortly before the visit
- Sites will be responsible for handwriting this onto the provided labels
  - Must use fine point permanent marker
  - Each site will receive 4 markers in initial kit supply

### Site and LEADS ID Label Cont.

LDS:

- Write information on label prior to adhering to tube
- Label will be placed on all collection tubes
  - PAXgene<sup>™</sup> Blood Collection Tube (2.5 ml) for RNA
  - Plain Red Top Serum Blood Collection Tube (10 ml) for Serum
  - Sodium Heparin (Green-Top) Blood Collection Tube (10 ml) x 2
  - EDTA (Lavender-Top) Blood Collection Tube (10 ml) for DNA and Plasma x 3
  - EDTA (Lavender-Top) Blood Collection Tube (6 ml) for CLIA lab testing \*\*CI Baseline ONLY\*\*
- Kits will include one extra label

### **Collection and Aliquot Tube Labels**



#### Aliquot Tube Labels – Serum, Plasma, Buffy Coat, and CSF



- Collection and Aliquot tube label only
- Please place barcode near cap

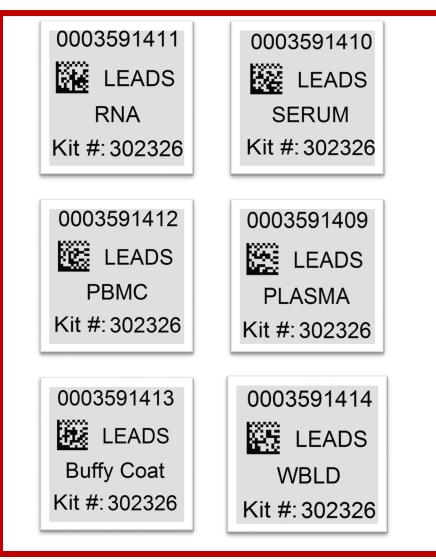
#### **Collection and Aliquot Tube Labels**

| 0003591411    | 0003591410    | • Lab         |
|---------------|---------------|---------------|
| LEADS         | LEADS         | aliq          |
| RNA           | SERUM         | 1             |
| Kit #: 302326 | Kit #: 302326 |               |
|               |               | 2             |
| 0003591412    | 0003591409    |               |
| LEADS         | LEADS         |               |
| PBMC          | PLASMA        | 3             |
| Kit #: 302326 | Kit #: 302326 | 4             |
| 0003591413    | 0003591414    | 0003844295    |
| LEADS         |               |               |
|               |               | 612802        |
| Buffy Coat    | WBLD          | CSF           |
| Kit #: 302326 | Kit #: 302326 | Kit #: 308493 |

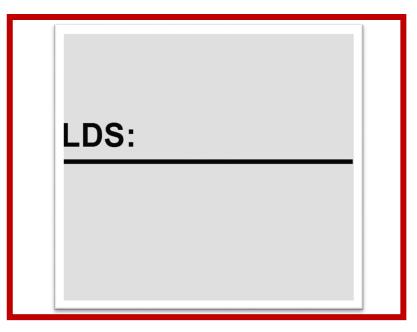
- Labels to be placed on ALL collection and aliquot tubes
  - PAXgene<sup>™</sup> Blood Collection Tube (2.5 ml) for RNA
  - 2. Plain Red-Top Serum Blood Collection Tube (10 ml) for Serum
    - Serum aliquots
  - 3. Sodium Heparin (Green-Top) Blood Collection Tube (10 ml) for PBMC x 2
  - EDTA (Lavender-Top) Blood Collection Tube x 3
    - Plasma aliquots
    - Buffy coat aliquot
    - EDTA (Lavender-Top) Blood Collection Tube (6 ml) for CLIA lab testing
       \*CI Baseline ONLY
    - CSF Only place labels on aliquot tubes

#### **Collection Tubes - Blood**

#### Label 1: Collection Tube Label

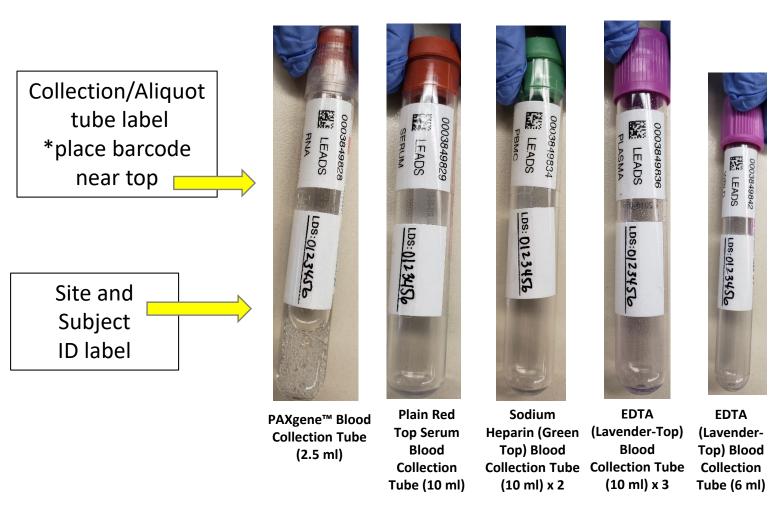


#### Label 2: Site and LEADS ID Label



- All collection tubes will have two labels
  - The Collection Tube Labels
  - The handwritten Site and LEADS ID Label

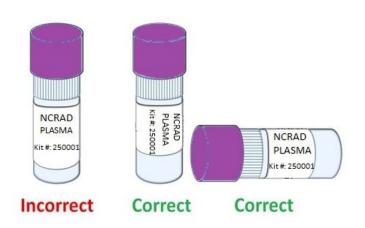
#### **Collection Tubes – Blood**



### Labeling Biologic Samples

#### Please...

- Label all collection and aliquot tubes <u>before</u> cooling, collecting, processing or freezing samples.
- Label only <u>1</u> subject's tubes at a time to avoid mix-ups.
- Wrap the label around the tube <u>horizontally</u>. Label position is important for <u>all</u> tube types.
- Make sure the label is completely adhered by rolling between your fingers.



# Handling/Processing Study Specimens



## Site Required Equipment

#### Blood Collection/Safety Equipment

- 1. Personal Protective Equipment (PPE)
  - Lab Coat, Safety Glasses
- 2. Tourniquet
- 3. Alcohol Prep Pad
- 4. Gauze Pad
- 5. Butterfly Needles
- 6. Bandage
- 7. Sharps Bin and Lid

#### Processing/Storage Equipment

- 1. Centrifuge capable of  $\geq$ 2000 rcf with refrigeration to 4°C
- 2. -80°C Freezer
- 3. Wet Ice Bucket

#### **Blood Draw Order**

#### \*\*\*Important Note\*\*\*

In order to ensure the highest quality samples are collected, processed, and stored, it is essential to follow the specific collection, processing, and shipment procedures detailed in the following pages. Collection of biomarkers and CSF should be collected after a minimum 6-hour fast, preferably in the morning. Please read the following instructions first before collecting any specimens. Have all your supplies and equipment out and prepared prior to drawing blood. Please note that the centrifuge may take 30 minutes to cool, so please plan accordingly. Draw blood in the following order:

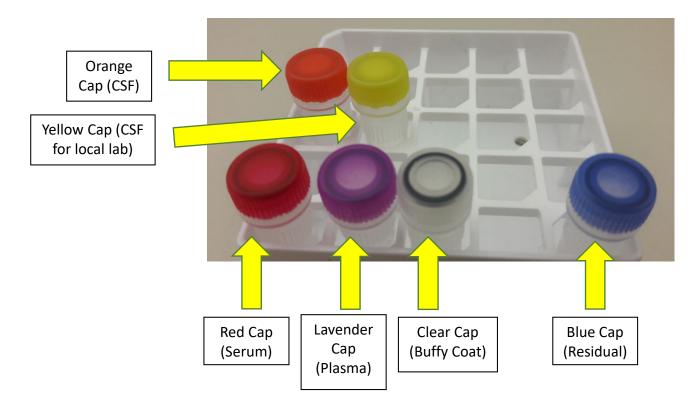
- 1. PAXgene<sup>™</sup> Blood Collection Tube (2.5 ml) for RNA
- 2. Plain Red Top Serum Blood Collection Tube (10 ml) for Serum
- 3. Sodium Heparin (Green-Top) Blood Collection Tube (10 ml) x 2
- 4. EDTA (Lavender-Top) Blood Collection Tube (10 ml) for DNA and Plasma x 3
- 5. EDTA (Lavender-Top) Blood Collection Tube (6 ml) for CLIA lab testing \*\*CI Baseline ONLY\*\*

### Sample Collection - Blood

| Tube Type   | Number of<br>Tubes Drawn | Tube Image   |
|---|--------------------------|--|
| 1. PAXgene™ Blood Collection<br>Tube (2.5 ml) for RNA   | x1                       |  |
| 2. Plain Red-Top Serum Blood<br>Collection Tube (10 ml) for Serum   | x1                       |  |
| 3. Sodium Heparin (Green-Top)<br>Blood Collection Tube (10 ml) for<br>PBMC                                | x2                       |  |
| 4. EDTA (Lavender-Top) Blood<br>Collection Tube (10 ml) for Plasma  | X3                       | INCOME IN |
| 5. EDTA (Lavender-Top) Blood<br>Collection Tube (6ml) for CLIA lab<br>testing <b>**CI Baseline ONLY**</b> | x1                       |  |

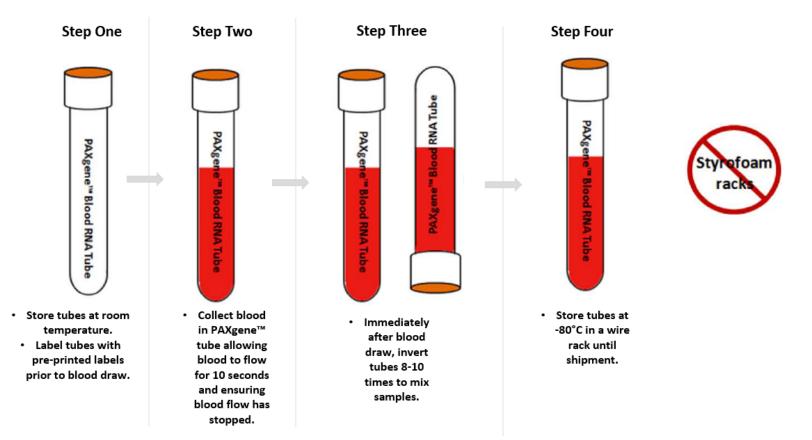
### **Aliquot Cap Colors**

| Cap Color    | Sample Type       |
|--------------|-------------------|
| Red Cap      | Serum             |
| Lavender Cap | Plasma            |
| Clear Cap    | Buffy Coat        |
| Blue Cap     | Residual          |
| Orange Cap   | CSF               |
| Yellow Cap   | CSF for local lab |



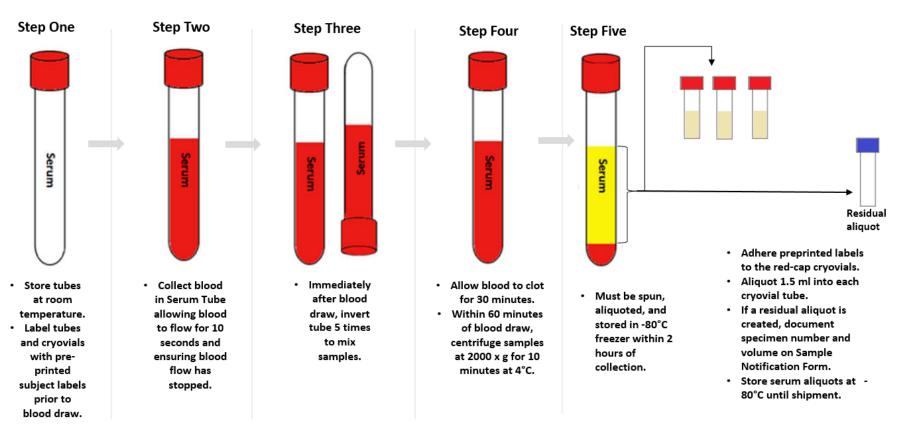
#### RNA Preparation (2.5ml PAXgene<sup>™</sup> Tube)



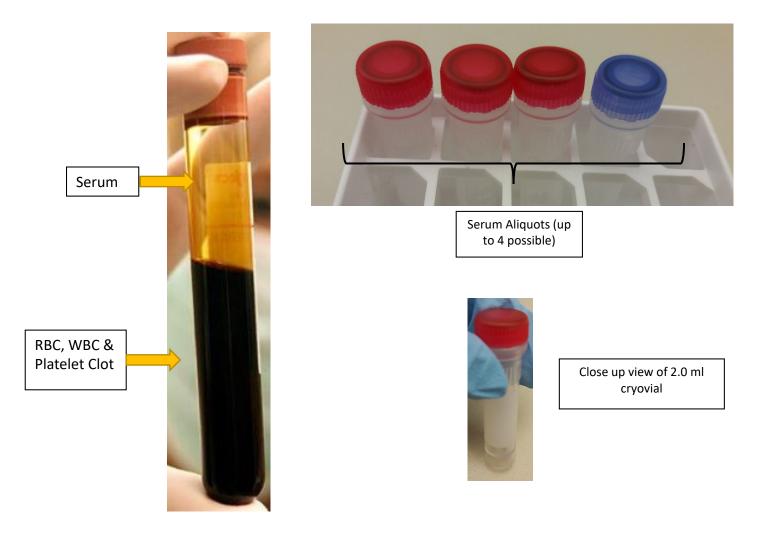


#### Serum Preparation (10ml Red Top Tube)



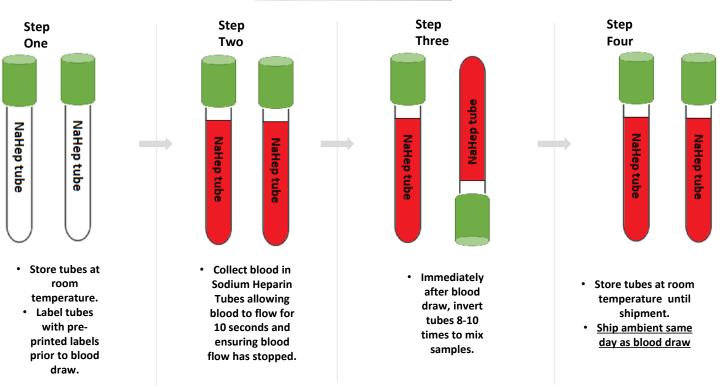


#### Plain Red-Top Serum Tube (Serum Collection)



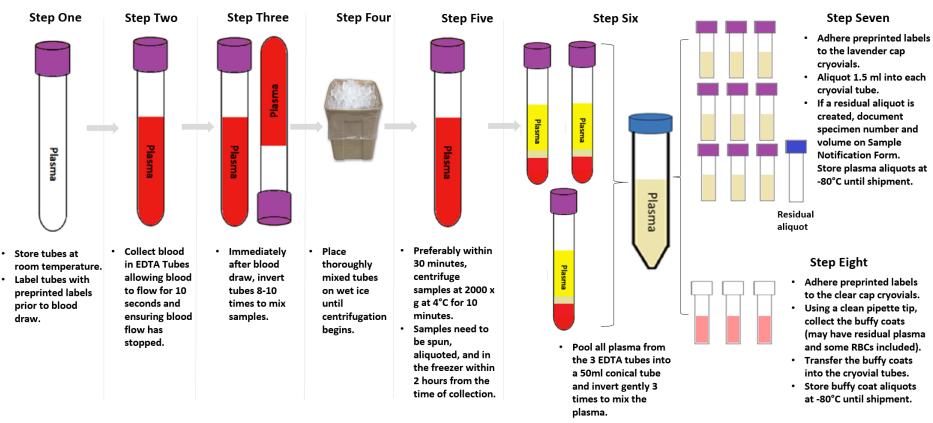
#### PBMC Preparation (10ml Sodium Heparin Tube) x 2



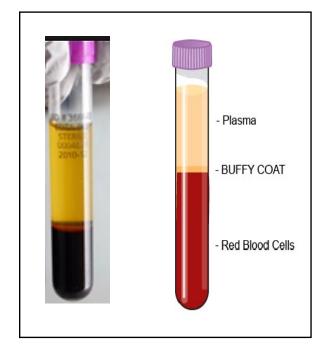


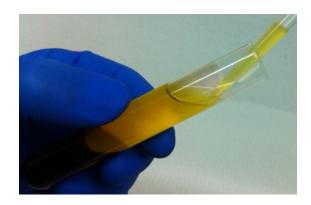
#### Plasma and Buffy Coat Preparation (10ml Lavender-Top Tube x 3)

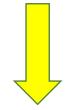




### EDTA Tube (Plasma Collection)







Plasma Aliquots (10 possible)





Close up view of 2.0 ml cryovial

## EDTA Tube (Buffy Coat Collection)

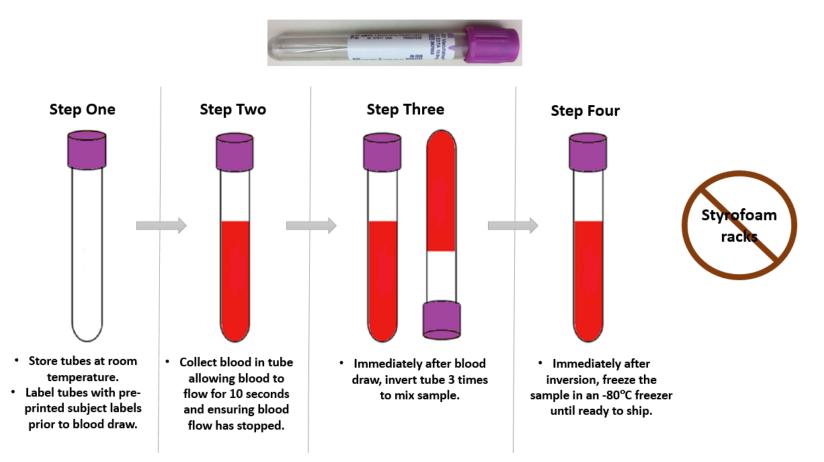






Buffy Coat Aliquot (Please use CLEAR CAP cryovial)  Important Note:
 Buffy Coat aliquots will be distinguished from the plasma aliquots through a clear cap.

#### Whole Blood Preparation (6 mL Lavender-Top Tube)

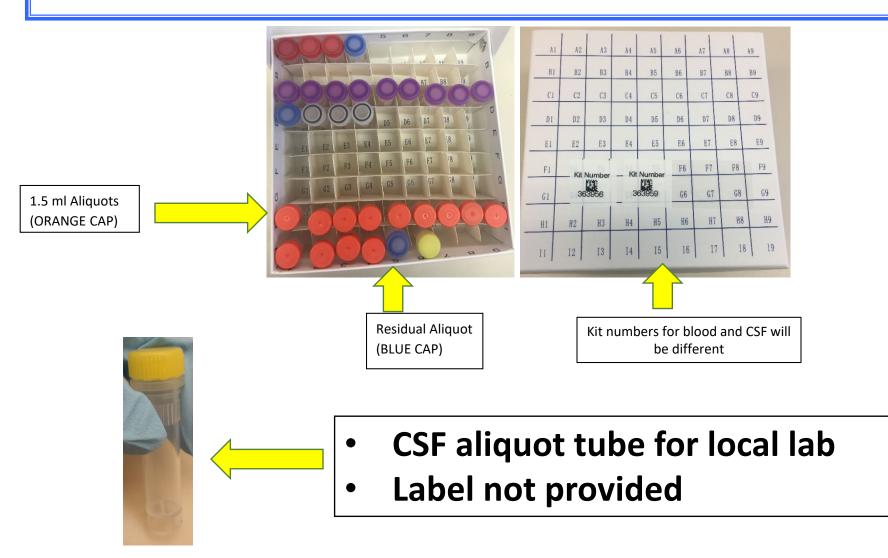


#### **CI** Subjects at Baseline Only

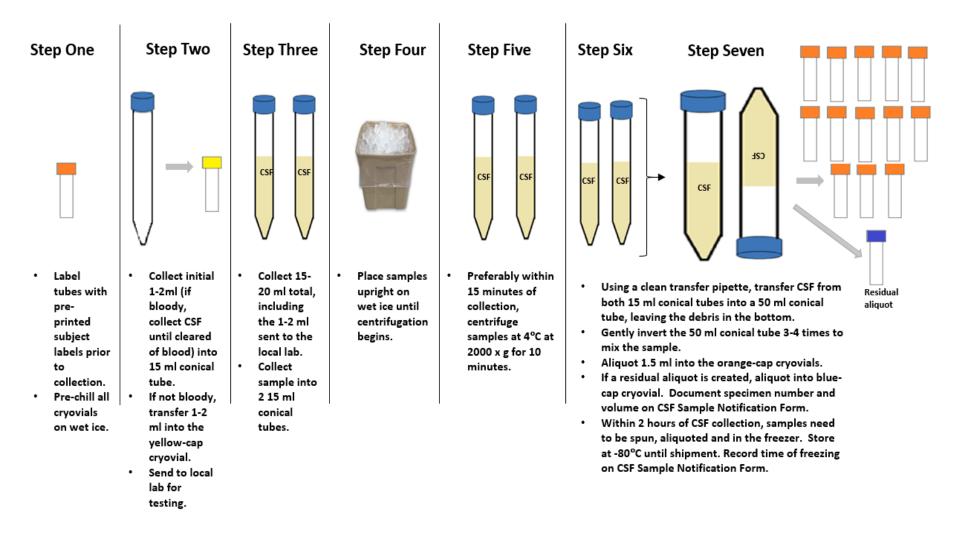
# **CSF Collection and Processing**

### \*\*\*Important Note\*\*\*

CSF samples should be collected in the morning before breakfast and after an overnight fast. Collection of biomarker fluids and CSF should be collected after a minimum 6-hour fast. Only water is permitted until blood draws and the lumbar puncture are completed. Please remember to record "Last time eaten" on CSF Biological Sample and Shipment Notification Form.



### CSF Preparation (15-20 ml total)



# Sample Shipping



# Sample Shipment Summary

| Sample Type   | Processing/ Aliquoting   | Tubes to<br>NCRAD | Ship                 | Days to Ship         |
|---|--|-------------------|----------------------|----------------------|
| Whole blood for RNA<br>extraction                                   | N/A  | 1                 | Frozen               | Monday-<br>Wednesday |
| Whole blood (Plain<br>Red-Top Serum Tube)<br>for isolation of serum | <ul><li>1.5 ml serum aliquots per 2.0 ml cryovial<br/>(red cap) ; residual volume placed in 2.0<br/>ml cryovial with blue cap</li></ul>  | Up to 4           | Frozen               | Monday-<br>Wednesday |
| Whole blood for<br>PBMC   | N/A  | 2                 | Ambient/<br>same day | Monday -<br>Thursday |
| Whole blood<br>(Lavender-Top EDTA)<br>for isolation of plasma       | 1.5 ml plasma aliquots per 2.0 ml<br>cryovial (lavender cap) ; residual volume<br>placed in 2.0 ml cryovial with blue cap  | Up to 10          | Frozen               | Monday-<br>Wednesday |
| & buffy coat (for DNA<br>extraction)                                | 1 ml buffy coat aliquot per 2.0 ml<br>cryovial (clear cap)   | 3                 | Frozen               | Monday-<br>Wednesday |
| Whole blood<br>(Lavender-Top EDTA)<br>for CLIA lab testing          | N/A  | 1                 | Frozen               | Monday-<br>Wednesday |
| CSF Collection  | <ul><li>1.5 ml CSF aliquots per 2.0 ml cryovial<br/>(orange cap); residual volume placed in</li><li>2.0 ml cryovial with blue cap; 1-2 ml for<br/>local lab placed in 2.0 ml cryovial with<br/>yellow cap.</li></ul> | Up to 14          | Frozen               | Monday-<br>Wednesday |

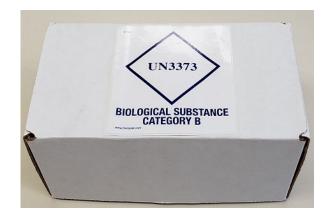
# **Ambient Sample**

- Sodium Heparin/PBMC
- Only Monday-Thursday collection and same day shipping. Plan ahead to schedule FedEx.
- Samples must be received at IU one day after collection.
- Do NOT draw or ship ambient samples on Friday
- Include copy of Biological Sample Shipment and Notification Form

# **Ambient Sample Shipping**







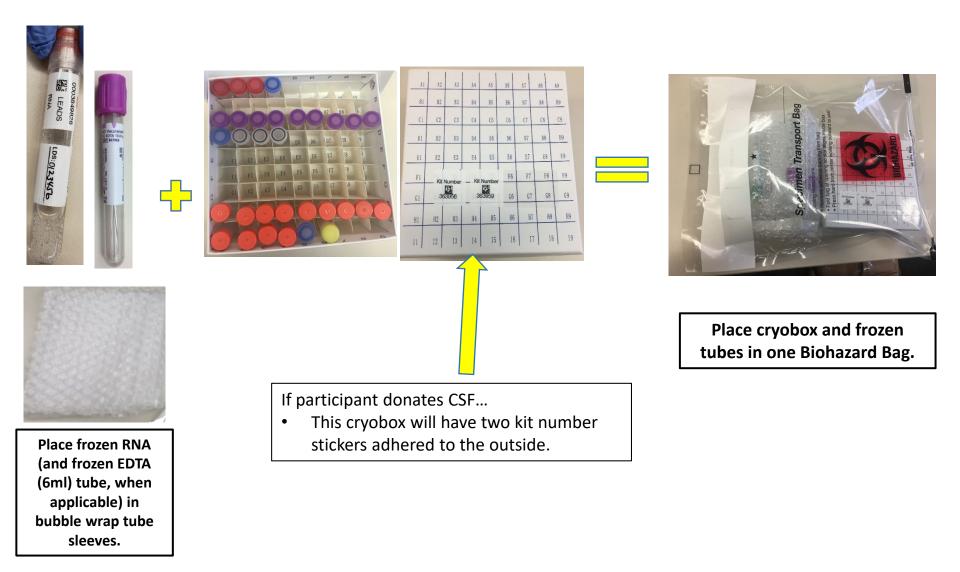
- Place refrigerant pack in the freezer 24 hours prior to shipment.
- Place filled and labeled Sodium Heparin tubes within the slots in the absorbent pad and place in biohazard bag.
- Place the kit number label on biohazard bag.
- Place the refrigerant pack into the cooler on top of the filled biohazard bag. Place lid on cooler.
- Place the cooler in the small IATA Shipping Box.
- Place an extra copy of the "Biological Sample and Shipment Notification Form" within the shipping box along with a list of contents form.
- Close shipping box and ensure labeled with UN3373 label.
- Place box within a provided FedEx ClinPak, seal, and place FedEx label on outside of package.

# **Frozen Sample Shipping**

## • Ship Monday-Wednesday Only

- RNA, Serum, Plasma, Buffy Coat, and CSF (\*\*and whole blood for CI Baseline visit\*\*)
- Hold packaged samples in a -80°C freezer until pickup.
- Batch Samples together
  - 5 Cryoboxes
  - Batch shipping should be performed every 3 months or as a full shipment of specimens accumulates, whichever is sooner.

# Frozen Shipping - Cryoboxes



## **Frozen Shipping – Dry Ice Requirements**



- Fully cover the cryoboxes with about 2 inches of dry ice in the provided shipper.
- Each Styrofoam shipper must contain about 45 lbs (20 kg) of dry ice.

## **Frozen Shipping – Dry Ice Requirements**

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



# Shipping Frozen Samples

- Schedule FedEx
- Send Biological Sample and Shipment
   Notification Form to IU <u>ahead of shipment</u>
  - *Email: alzstudy@iu.edu* or
  - Fax: 317-321-2003

# Shipping Regulations and Training

PLEASE NOTE:

- All study personnel responsible for shipping should be certified in biospecimen shipping.
- It is the responsibility of each site to ensure that the appropriate training has been provided and conducted in regards to IATA shipping.

Please see following slides for resources.

# **Federal Regulations/Training**

- Sites are responsible for ensuring proper training is obtained.
- Current federal and international regulations require anyone directly involved with the shipment of potentially infectious materials and other regulated biological materials (including biological specimens and cultures) <u>be properly trained on</u> <u>pertinent shipping requirements.</u>
  - International Air Transport Association (IATA) Training

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

# UN3373 Biological Substance, Category B Training

- Biological Substance, Category B are specimens being transported for "investigational purposes"
- Recommend: investigator sites document training of category B/dangerous goods
- We recommend establishing a record of your staff's training and date of instruction
- The training records must be made available upon request by the appropriate national authority
  - Additional information from the Department of Transportation (DOT) can be found on their website <u>http://hazmat.dot.gov</u>

# Biological Sample and Shipment Notification Forms

- A copy of the sample form *must* be emailed or faxed to NCRAD prior to the date of sample arrival.
- Please include sample forms in all shipments of frozen and ambient samples.
- Email: <u>alzstudy@iu.edu</u>
- Fax: 317-321-2003



## **Biological Sample Notification Form- Blood**





|   |            |                   | oment Notification<br>r prior to the date of s        |                      |            |                 |
|---|------------|-------------------|---|----------------------|------------|-----------------|
| <u>To: Kelley Faber</u> Email: alz  | study@i    | u.edu F           | AX: 317-321-2003                                      | Phone: 1-800-52      | 6-2839     |                 |
| General Information:  |            |                   |   |                      |            |                 |
| From:   |            | Date              | <b>.</b>  |                      |            |                 |
| Diama a   |            |                   |   |                      |            |                 |
| Phone:  |            | Ema               | il:   |                      |            |                 |
| Study: LEADS: CI Participant CN   | Participan | Kit #             | #:  |                      |            |                 |
| Visit (circle one): BASELINE M12 M24 M36  | M48        |                   | K   | IT BARCODE           |            |                 |
| Sex: M F Year of Birth:   | Ļ          |                   | l   |                      |            | j               |
| Tracking #:   |            |                   | CSF Collect   | ted? Yes             | No         |                 |
| Blood Collection:   |            |                   |   |                      |            |                 |
| 1. Date Drawn:  | 2. Tir     | ne of Draw:       | 24 hour clock:  | [HHMM]               |            |                 |
| 3. Last time subject ate: Date:   | 4. La      | st time subj      | ect ate: 24 hour clock:                               | [HHMM                | 1          |                 |
| Blood Processing:   | ·          |                   |   |                      |            |                 |
|   |            |                   | (gene Tube)   |                      |            |                 |
| Total volume of blood drawn into a 1 x 2.5<br>mL PAXgene RNA tube:                    |            |                   | ime PAXgene RNA tube<br>reezer (24 hour clock):       | placed in            |            | _ [HHMM]        |
| Serum (Red Top Tube)  | )          |                   | Plasma  | (Lavender Top Tul    | be - 10m   | L)              |
| Time spin started: 24 hour clock:   |            | [HHMM]            | Time spin started: 24 h                               | our clock:           |            | [HHMM]          |
| Duration of centrifuge:   |            | minutes           | Duration of centrifuge:                               | :                    |            | minutes         |
| Temp of centrifuge:°C Rate of ce  | entrifuge: | x g               | Temp of centrifuge:                                   |                      | entrifuge: | x g             |
| Original volume drawn (1x10 mL Serum tube):   |            | mL                | Original volume drawn<br>(3x10 mL EDTA tube):         |                      | EDTA #3:   | mL              |
| Time aliquoted:   |            | [HHMM]            | Time aliquoted:                                       |                      |            | [HHMM]          |
| Number of 1.5 mL serum aliquots created:  |            | x 1.5 mL          | Number of 1.5 mL plas                                 | ma aliquots created: |            | x 1.5 mL        |
| If applicable, volume of residual<br>serum aliquot (less than 1.5 mL) (Blue cap):     |            | mL                | If applicable, volume of<br>plasma aliquot (less than |                      |            | mL              |
| If applicable, specimen number of residual  |            |                   | If applicable,specimen                                | number of            |            |                 |
| serum aliquot (Last four digits):<br>Time aliquots placed in freezer (24 hour clock): |            | [HHMM]            | residual plasma aliquo<br>Time aliquots placed in     |                      |            | [HHMM]          |
| Storage temperature of freezer:   | -          | _[HHIVIIVI]<br>°C | Storage temperature o                                 |                      |            | [HHIVIIVI]<br>C |
| PBMC (NaHep Green Top T   | ube)       | ~~~               | Buffy coat aliquot #1 (la                             |                      | <u> -</u>  | U               |
|   | ubej       |                   | Buffy coat volume #1:                                 |                      |            |                 |
| Original volume drawn (2x10mL PBMC tube):   |            | mL                | Buffy coat aliquot #2 (I                              | ast four digits):    | _          |                 |
| EDTA (Lavender Top Tube -   | 6mL)       |                   | Buffy coat volume #2:<br>Buffy coat aliquot #3 (la    | ast four digits):    | _          |                 |
| Original volume drawn (1x6mL EDTA tube):  |            | mL                | Buffy coat volume #3:                                 |                      |            |                 |

### Blood collected for:

- RNA
- Serum
- PBMC x 2
- Plasma x 3
- DNA
- CLIA testing

Ver: 09.2020

Send by E-mail or Fax prior to shipment, and include a copy in each shipment

## **Biological Sample Notification Form-CSF**



Alzheimer's Disease Study



CSF Sample and Shipment Notification Form

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

| <u>To: Kelley Faber</u> <u>Email: alzstudy@iu.edu</u> F                                   | AX: 317-321-2003 Phone: 1-800-526-2839 |
|---|--|
| General Information:  |  |
| From: Date  | ə:                                     |
| Phone: Ema  | il                                     |
| Study: LEADS CI Participant CN Participant Kit  |  |
|   | KIT BARCODE                            |
| Visit (circle one): BASELINE M12 M24 M36 M48  |  |
| Sex: M F Year of Birth:   | CSF Collected? Yes No                  |
|   | auge needle used for LP: 22G 24G       |
| CSF Collection:   |  |
| 1. Date of Collection: 2. Time of Colle   | ection: 24 hour clock: [HHMM]          |
| 3. Last time subject ate: Date: 4. Last time sub  | pject ate: 24 hour clock:[HHMM]        |
| 5. Collection process: Gravity Method OR  | Aspiration                             |
| CSF Processing:   |  |
| Time spin started: 24 hour clock:   | [HHMM]                                 |
| Duration of centrifuge:   | minutes                                |
| Temp of centrifuge:°C   | Rate of centrifuge:x g                 |
| Total amount of CSF collected (mL):   | mL                                     |
| Time aliquoted:   | [HHMM]                                 |
| Number of 1.5 mL aliquots created (up to 14 total):<br>(Orange cap cryovials):            | x 1.5 mL                               |
| If applicable, volume of CSF residual aliquot (less than 1.5 mL):<br>(Blue cap cryovial): | mL                                     |
| If applicable, specimen number of residual aliquot tube:<br>(Last four digits):           |  |
| Time frozen:  | [HHMM]                                 |
| Storage temperature of freezer:   | °C                                     |
| Notes:  |  |

Ver: 09.2020

Send by E-mail or Fax prior to shipment, and include a copy in each shipment

## NCRAD Website Helpful Pages



- <u>https://ncrad.org/holiday\_closures.html</u>
- <u>https://ncrad.org/friday\_blood\_draws.html</u>

### **Mat to do for Friday Blood Draws**

NCRAD is not open for business on Saturday or Sunday; therefore, we ask that no samples be shipped on a Friday. We cannot guarantee the conditions in which the samples will be held by the shipping courier over the weekend. It is important to have plans in place for each type of sample to be held over the weekend prior to shipping. Please refer to the table below for how to handle samples drawn on a Friday.

When possible, please only ship frozen samples on Monday-Wednesday. There is always the potential for an unexpected shipping courier delay and by shipping Monday through Wednesday there should be enough time to receive the samples before the weekend.

| Sample<br>Type | Tube Type         | Product  | Shipment<br>Method | Friday Draw Instructions   |
|----------------|-------------------|----------|--------------------|--|
| Whole<br>Blood | Sodium<br>Heparin | PBMC     | Ambient            | DO NOT DRAW ON FRIDAY. Must be drawn on Monday - Thursday.   |
| Whole<br>Blood | EDTA Tube         | DNA Only | Ambient            | Do NOT refrigerate. Please keep sample at room temperature until the<br>specimen can be shipped via next day delivery methods the following<br>Monday. |

### Holiday Closures

| Date                                 | Holiday                     |
|--------------------------------------|-----------------------------|
| January 1                            | New Year's Day              |
| 3 <sup>rd</sup> Monday in January    | Martin Luther King, Jr Day  |
| 4 <sup>th</sup> Monday in May        | Memorial Day                |
| July 4                               | Independence Day (observed) |
| 1 <sup>st</sup> Monday in September  | Labor Day                   |
| 4 <sup>th</sup> Thursday in November | Thanksgiving                |
| 4 <sup>th</sup> Friday in November   | Friday after Thanksgiving   |
| December 25                          | Christmas                   |

## **LEADS Active Study Page**

### min LEADS Active Study Page



Welcome LEADS Study staff, coordinators, and PI's.

This section encompasses study specific tools and videos for your reference. If you have any questions, comments, or new ideas please contact NCRAD by email or phone (800) 526-2839 or directly at (317) 278-1170.

#### CI (Cognitively Impaired) Participants

|                               | Baseline  | M12                  | M24 | M36 | M48 |
|-------------------------------|---|----------------------|-----|-----|-----|
| RNA                           | ~   | ~                    | ×   | ~   | ~   |
| Serum                         | ~   | ~                    | ~   | ~   | ~   |
| Plasma                        | ~   | ~                    | ×   | ×   | ~   |
| DNA                           | ~   | ×                    | ~   | ~   | ~   |
| PBMC                          | ~   | ~                    | ×   | ×   | ~   |
| EDTA for<br>CLIA<br>testing** | ~   |                      |     |     |     |
| CSF                           | <ul> <li>Image: A set of the set of the</li></ul> | <ul> <li></li> </ul> | ~   | ~   |     |

\*Please note that this EDTA tube is used for the purpose of confirmation testing and is only drawn during the Baseline visit for CI participants.

### **CN (Cognitively Normal) Participants**

|        | Baseline | M12 | M24 |
|--------|----------|-----|-----|
| RNA    | ~        | ×   | ~   |
| Serum  | ~        | ~   | ~   |
| Plasma | <b>~</b> | ~   | ~   |
| DNA    | ~        | ~   | ~   |
| PBMC   | ×        | ×   | ~   |
| CSF**  | ~        |     | ~   |

drawn at M12 if not drawn at Baseline.





#### **Download Documents**

Blood Sample Form CSF Sample Form Manual of Procedures Master Transfer Agreement (MTA) Appendix C Appendix F Appendix G

Appendix I

**Training Slides** 

#### Additional Resources

Kit Request System Web-based Blood Sample Form Web-based CSF Sample Form Shipping Address Holiday Closures

#### Questions/Comments

Email: alzstudy@iu.edu Phone: 800-526-2839

### **Study Resources**

# **Contact Information**

• Questions?

Please contact NCRAD Coordinators at:

- Phone: 1-800-526-2839 or 317-274-7546
- E-mail: <u>alzstudy@iu.edu</u> or <u>wilmesk@iu.edu</u>
- Website: <u>www.ncrad.org</u>

