

SpHincterotomy in Acute Recurrent Pancreatitis with Pancreas Divisum  
(THE SHARP trial)

Biospecimen Standard Operating Procedures (SOPs)

Version 7 Date: 10-17-2018 edited for urine on 02-18-2019

Serum

Plasma

Buffy Coat

Urine

Tutorials By:

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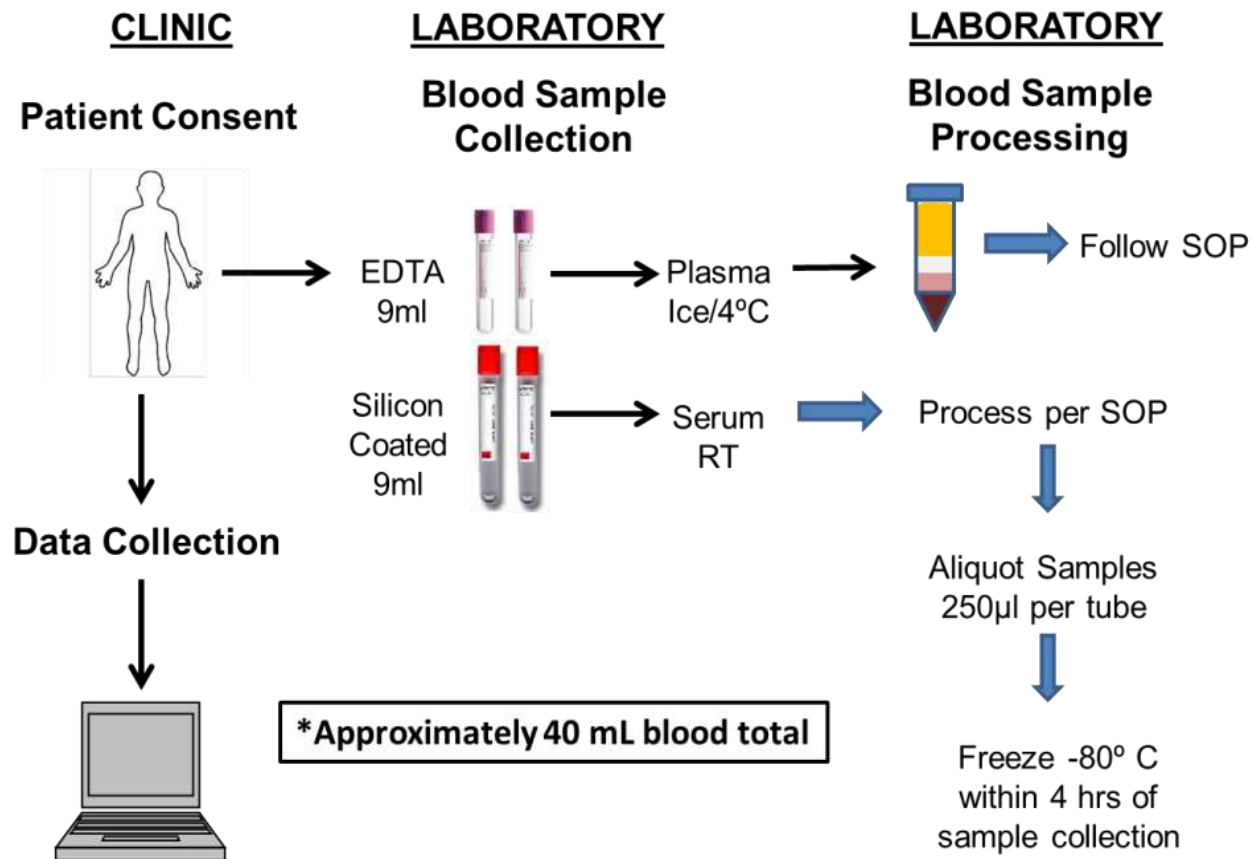
Niharika Badi MS

*All samples should be processed and placed in  
-80°C within 4 hours of collection*

Kit provided by UPMC

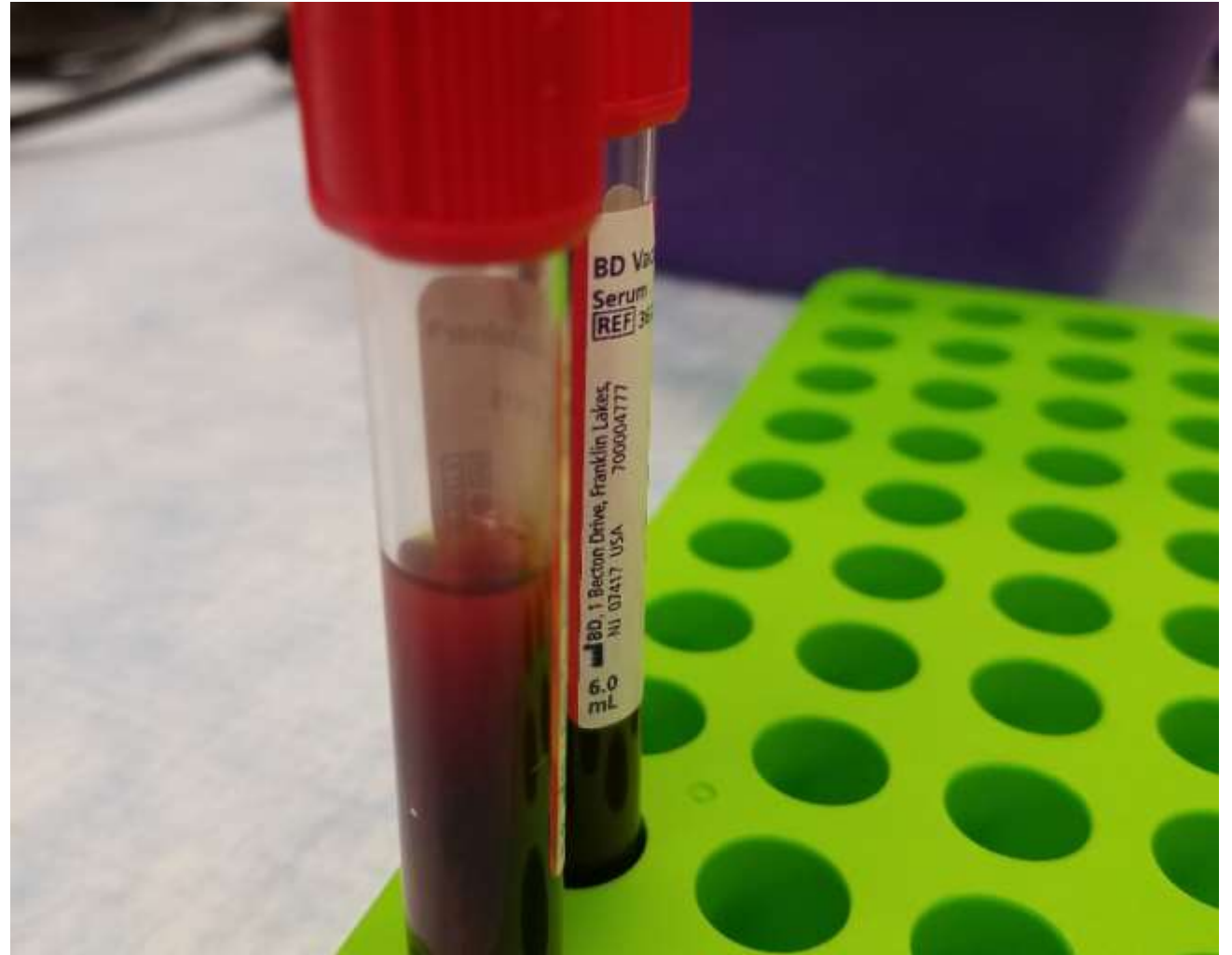


# Serum, Plasma and Buffy Coat Processing



# Red-Top Serum Tubes

- Stored upright at room temperature for a minimum 30 minutes to a maximum 60 minutes to allow a clot to form



# Purple-Top Plasma Tubes

- Stored upright at 4 °C refrigerated or on wet ice



Centrifuge blood samples



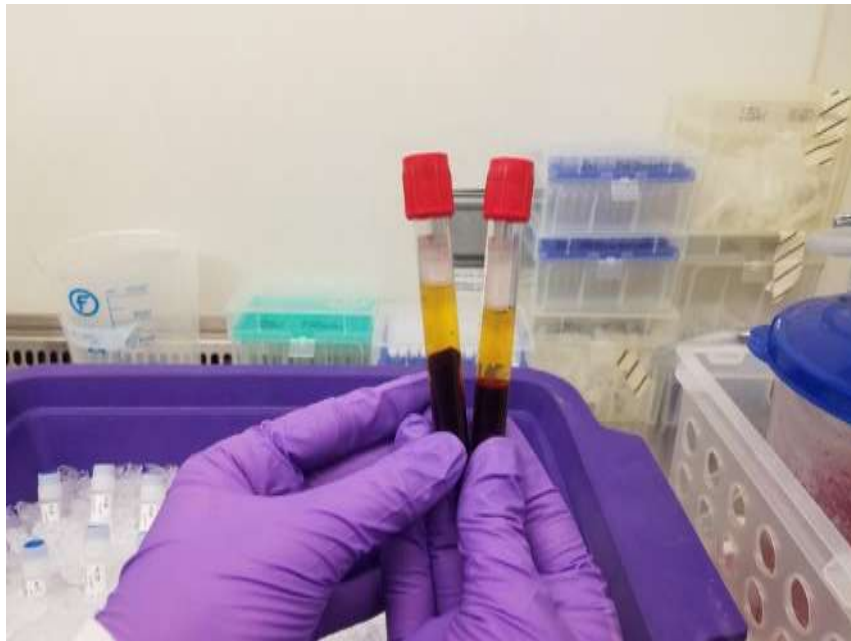
# Centrifuge at 1200g for 10 minutes with the BRAKE OFF

- Tubes must be balanced and covered

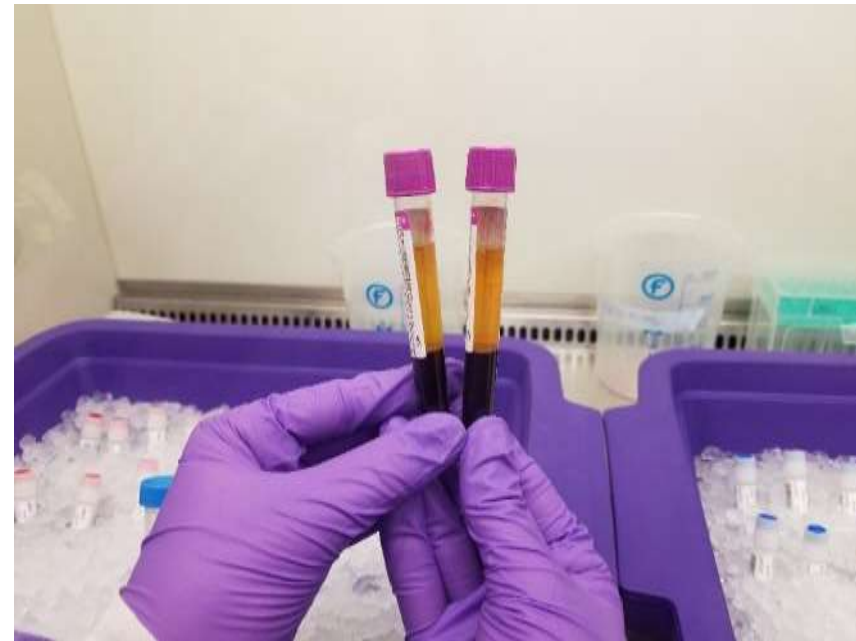


# Sample Separation

## Red-Top Serum Tubes



## Purple-Top Plasma Tubes



# Set-up

## Serum

- Cryovials with red caps are for serum aliquots



## Plasma and Buffy Coat

- Cryovials with blue caps are for plasma aliquots
- 15mL conical tubes are for buffy coat



A photograph of a laboratory workspace. In the foreground, two purple trays filled with crushed ice hold several small, clear conical tubes with red caps. Some tubes contain a yellowish liquid. In the background, there are various lab supplies: a clear container with pipette tips, a green box, and a rack with more tubes. A blue lid is visible on the right side. The word "Serum" is written in a large, white, italicized font across the center of the image.

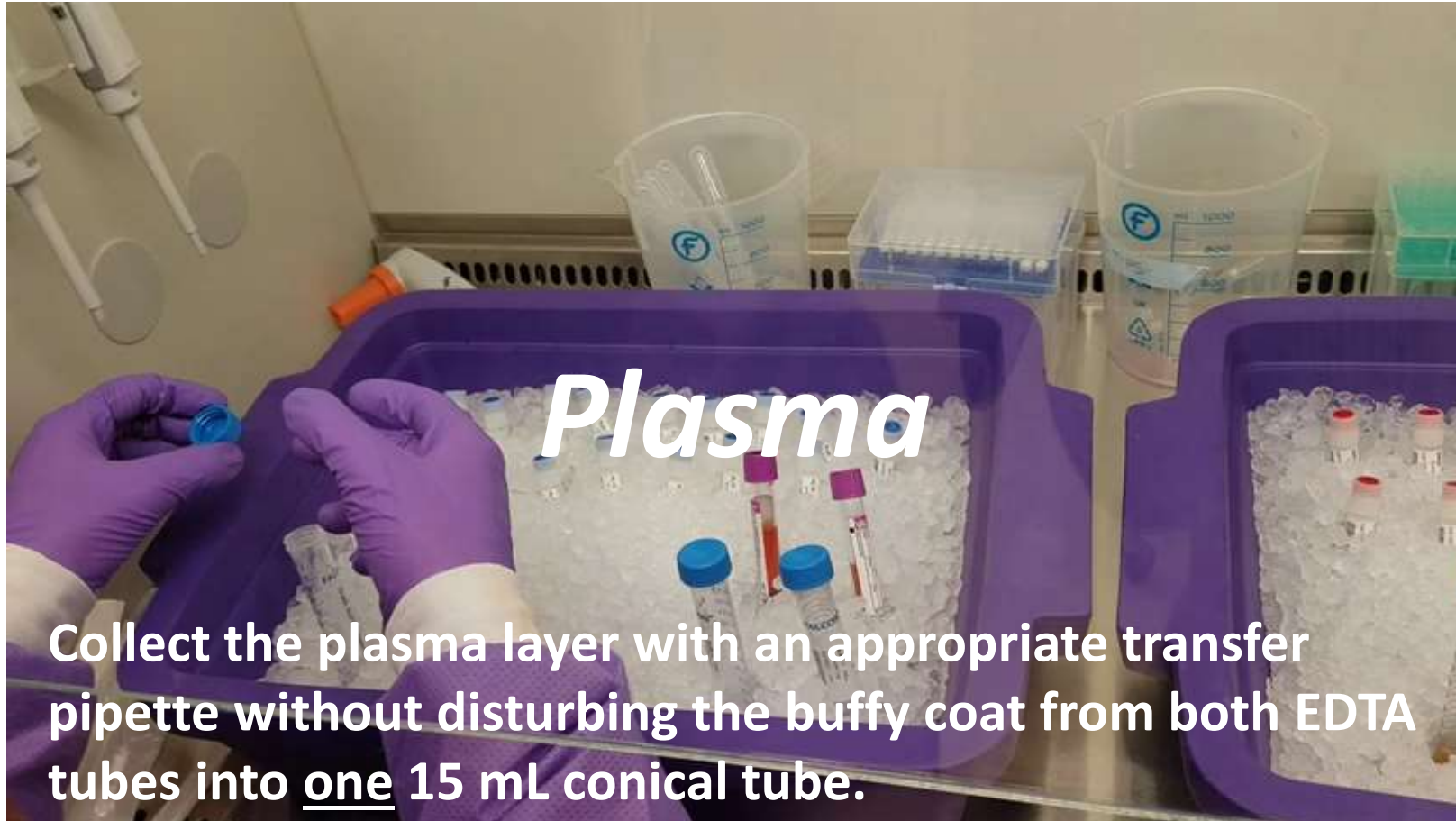
# *Serum*

Pool serum in a 15mL conical tube and mix by inverting to ensure sample homogeneity.



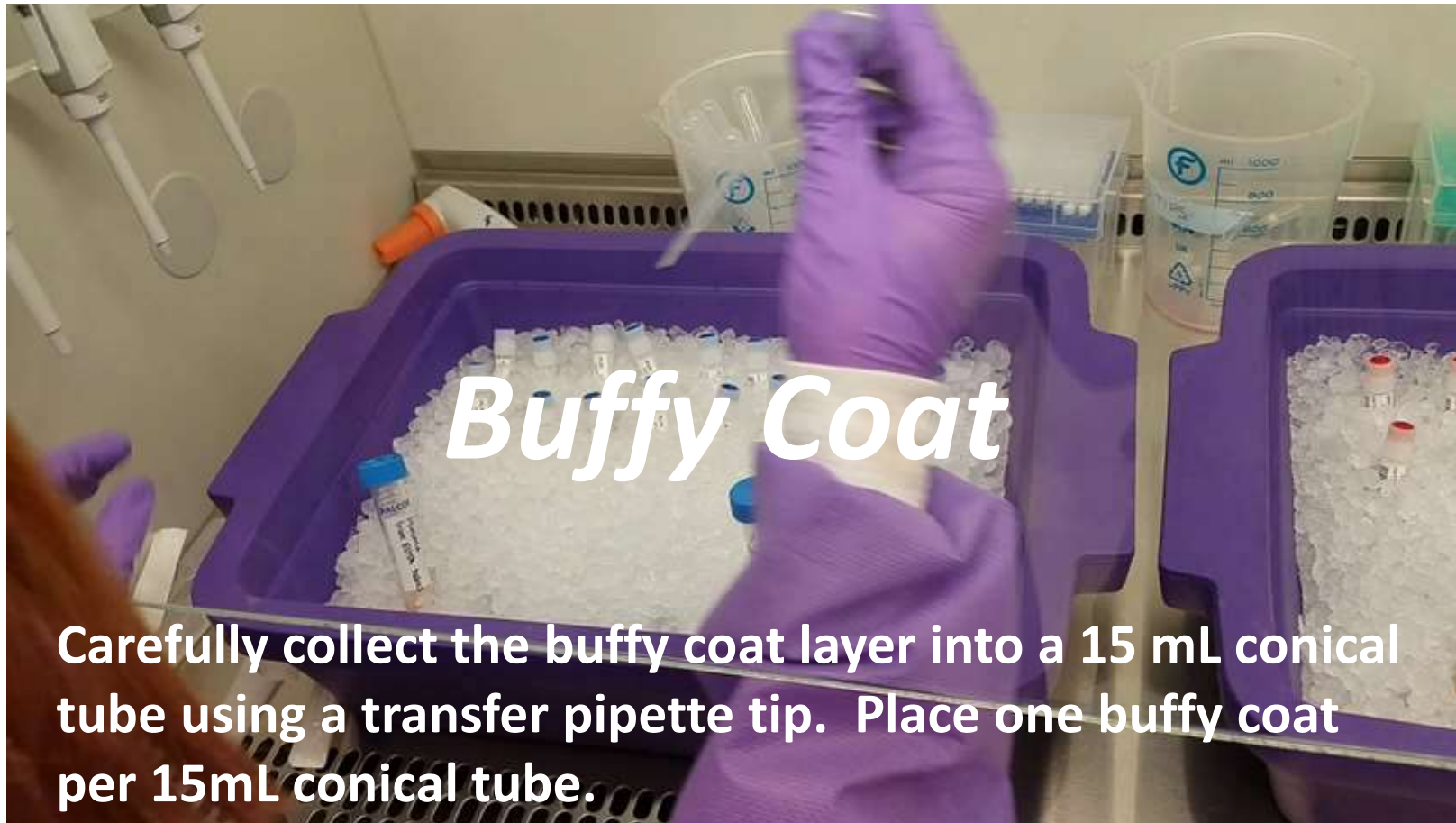
Re-centrifuge 15mL serum tube 1200g for 5 minutes





Re-centrifuge 15mL plasma tube at 1500g for 5 minutes BRAKE ON





Carefully collect the buffy coat layer into a 15 mL conical tube using a transfer pipette tip. Place one buffy coat per 15mL conical tube.





# *Serum Aliquots*

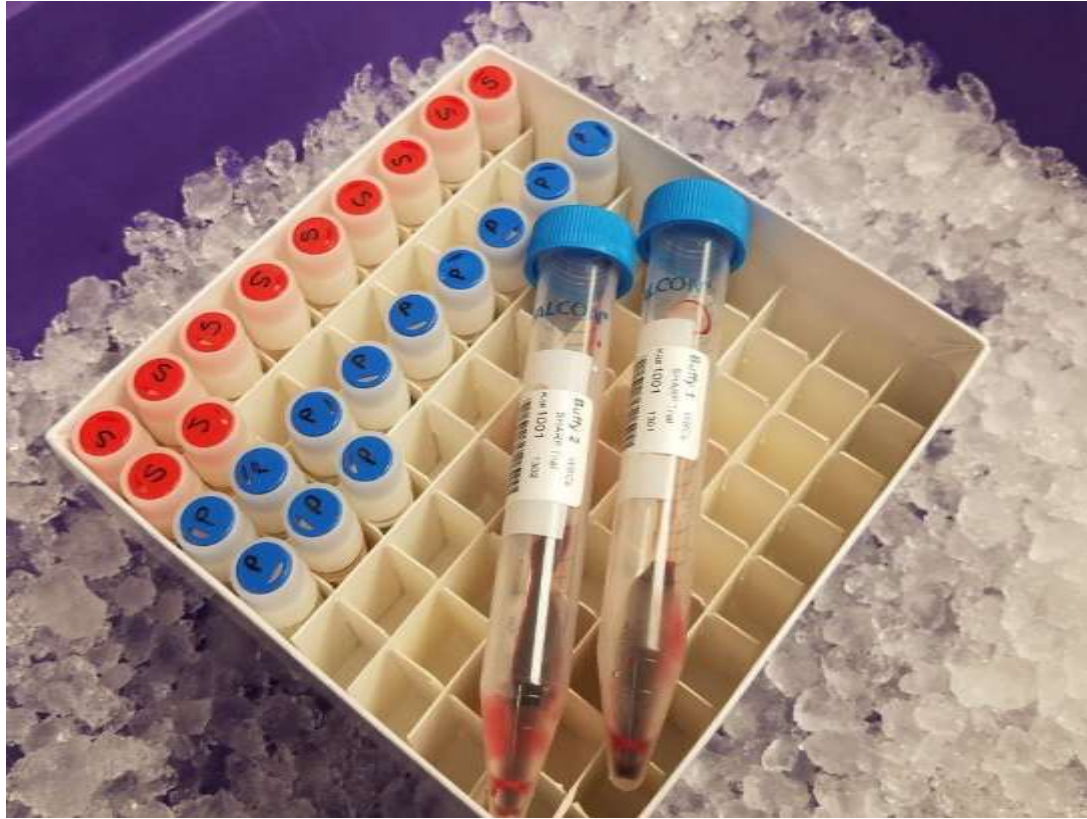
- (10) 250 $\mu$ L aliquots
- Remainder (up to 6) 1.8mL aliquots



# *Plasma Aliquots*

- (10) 250 $\mu$ L aliquots
- Remainder (up to 6) 1.8mL aliquots

Make sure all caps are on tight and place in  
-80°C freezer



# Urine Processing





# Urine

Clean Catch

↓  
Dip Stick

↓  
Process Within 4hrs  
Aliquot Supernatant 1800  $\mu\text{L}$   
(up to 12 cryovials)



↓  
Freeze  $-80^{\circ}\text{C}$

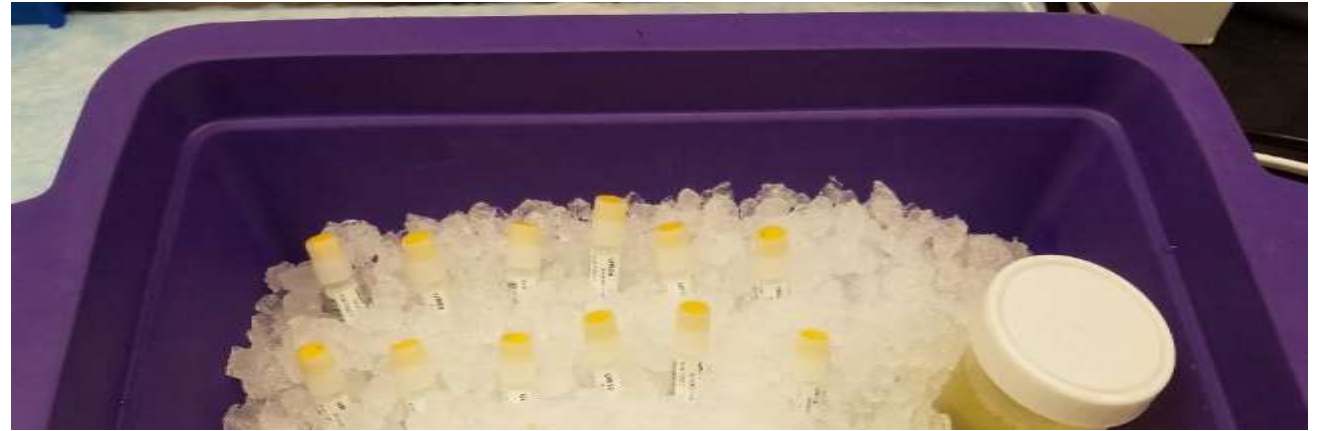
# Urine Sample

- Perform dipstick urine analysis in clinic and record all results
- Stored at 4°C refrigerated or on wet ice until aliquoting



# Set-up

- Cryovials with yellow caps are for urine aliquots
- Aliquot
  - (12) 1.8mL into provide cryovials



# Aliquots

- Fresh from the urine container
  - (12) 1.8mL cryovials





Make sure all caps are on tight and place in  
-80°C freezer



Always refer to the most current version of the SOP as per MUSC records.

Thanks

**SHARP Trial Biospecimen Committee**

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