CLA Training Receiving Samples

Overview Training on Lab Tests and Beaker

Agenda

- Beaker Label
- Color Guide
- Add-On Orders
- Priority
- CSF
- OCCULT BLOOD
- Beaker

Beaker Label

TEST Bucks, Star TST 8623976 11/13/1988 35 yrs 24RUH-123C0741.1 200014510E S:Blood MAG, CMP, PHOS RUHCL Light Green	RUHS
TEST Bucks, Star TST 8623976 11/13/1988 35 yrs 24PHL-S0000611.2 2000021460 S:Blood, Ve* HBcAb RUHCL Red	Public Health
TEST Bucks, Star TST 8623976 11/13/1988 35 yrs 24RQU-123X0058.1 200014309E S:Blood ANATRFLX STAT RUHCL GOLD	Quest

Tubes Order of Draw

Closure Color	Collection Tube	Mix by Inverting						
BD Vacutainer [®] Blood Collection Tubes (glass or plastic)								
	Blood Cultures - SPS	8 to 10 times						
	Citrate Tube*	3 to 4 times						
or 🧲	 BD Vacutainer[®] SST[™] Gel Separator Tube 	5 times						
	 Serum Tube (glass or plastic) 	5 times (plastic) none (glass)						
	 BD Vacutainer[®] Rapid Serum Tube (RST) 	5 to 6 times						
or 🥌	 BD Vacutainer[®] PST[™] Gel Separator Tube With Heparin 	8 to 10 times						
	Heparin Tube	8 to 10 times						
or	• EDTA Tube	8 to 10 times						
	 BD Vacutainer[®] PPT[™] Separator Tube K₂EDTA with Gel 	8 to 10 times						
	Fluoride (glucose) Tube	8 to 10 times						



GENERAL WORKFLOW



Color Guide for Tubes Pt. 1

PANELS	CHEM
Electrolyte = Na, K, Cl & CO ₂	Amylase
Basic Metabolic Panel (BASIC) = Na, K, Cl, CO2, Glu, BUN, Creat, Ca	Lipa
Comprehensive Metabolic Panel	CK-Tota
(CMP) = Na, K, Cl, CO2, Glu, BUN, Creat, Ca, TP, Alb, Alk Phos, AST, ALT, TBil	СК-МВ
Hepatic Function Panel	
(HEPFUN) = TP, Alb, TBil, DBil, Alk Phos, ALT, AST	High Sensitivi (TRO
Renal Panel (RENAL) = Na, K, Cl, CO2, Glu, BUN, Creat, Ca, Alb	Random Gluco
Comp Panel, Infant = Na, K, Cl, CO2, Glu, BUN, Creat, Ca, TP, Alb, Alk Phos, AST, ALT, NeoBili - includes DBil	Fasting Gluce
Hep Panel, Infant = TP, Alb,	
NeoBili, Alk Phos, ALT,AST	2 Hr PP Gluco
Neonatal Bilirubin = Total Bilirubin, Direct Bilirubin, Indirect Bilirubin-Calculated	1 Hr Glucos (GLU
Hepatitis Acute Panel = Hepatitis A, Hepatitis B Surface Ag, Hepatitis B Core IgM, Hepatitis C	СС
Lipid Panel = Cholesterol, HDL, LDL, Triglycerides, VLDL	Chlo
(Calculated)	

CHEMISTRY	
mylase (AMY)	[
Lipase	E
CK-Total (CKT)	В
К-МВ (СКМВ)	Bilirubir Bili
ensitivity Troponin I (TROPHS)	
n Glucose (GLURND)	
g Glucose (GLUFST)	
P Glucose (GLU2PP)	То
Glucose Challenge	10
CO2	Alco
Chloride	

.

Sodium (Na)
Potassium (K)
BUN
Creatinine
Bilirubin, Total
Bilirubin, Direct
ilirubin, Total (Cord Blood)
Bilirubin, Neonate
Alk Phos
AST (SGOT)
ALT (SGPT)
GGT
LDH
Calcium
Phosphorus
Magnesium
Uric Acid
Total Protein (TP)
Albumin
Alcohol, Ethyl (ETOH)
Ferritin
Vitamin D
Cortisol
Tacrolimus

TIBC (Include % Saturation)
Ammonia (on Ice)
Osmolality, Serum
Beta Hydroxybutyrate
Lactic Acid (on Ice)
Cholesterol, Total
Triglycerides
HDL Cholesterol
LDL Cholesterol
HCG QUANT
HCG QUAL (Serum)
CRP
Prealbumin
C3
C4
Vitamin B12
Folate
TSH
T4, Total
T4, Free
PSA, Total
Acetaminophen
Carbamazepine
Digoxin
Valproic Acid (Depekene)

Gentamicin, Peak
Gentamicin, Random
Gentamicin, Trough
Lithium
Phenobartital
Phenytoin (Dilantin)
Salicylate
Tobramycin, Peak
Tobramycin, Random
Tobramycin. Trough
Vancomycin, Peak
Vancomycin, Random
Vancomycin, Trough
MonoSpot
Rheumatoid Factor (RF)
RPR
Hemoglobin A1c
Procalcitonin (PCT)
Hepatitis A
Hepatitis C
Hepatitis B, Surface Ag
Hepatitis B, Surface Ab
Hepatitis B Core, IgM
CHIV
Syphilis, Total (>=18 Years)
CEA
CA19-9
CA-125
AFP
3 Hr Glucose Tolerance
5 Hr Glucose Tolerance

Color Guide for Tubes Pt. 2

HEMATOLOGY	COAGULATION	URINALYSIS	URINE CHEM	Blood Bank
CBC	PT, Protime and INR	UA Screen	Drug Screen Panel, EIA (UDS) = Amph, Barb, Benzo, Coc, Opi, PCP, THC, FENT	Type and Screen
Hemogram	PTT	Myoglobulin Screen	HCG QUAL (Urine)	Tanal
H & H	Fibringen	Specific Gravity only, Urine	Total Protein (Urine) - Random	Type and Cross
	Tibrinogen			DAT Mono
Reticulocyte Count	D-Dimer, Quant	Specific Gravity only, Body Fluid	Urine Sodium - Random	DAT Poly
Sedimentation Rate (ESR)	Mixing Study – PT and/or PTT	Eosinophils, Microscopy (Urine)	Urine Potassium - Random	
Malaria Smear	LYSIS TEG	pH only, Body Fluid (if Stool is	Urine Chloride - Random	Rhogam Screen
		follows: Stool must not be	Total Protein (Urine) - 24 Hours	
Kleihauer-Betke		formed; loose/liquid only)	Urine Sodium - 24 Hours	Cord Blood
Blood Smear Path Review	PLATELET MAPPING TEG			
			Urine Potassium - 24 Hours	
Citrated Platelet Count			Urine Chloride - 24 Hours	



"What color tube do I use?"

The most common and frequent calls we get in the Lab are finding out what color tube do I use to collect for certain tests.

Light Blue Top Tube Contains Sodium Citrate



PTINR (Protime and INR)

PTT

Fibrinogen

D-Dimer, Quant

Mixing Study – PT and/or

PTT





Amylase
Lipase
CK-Total
CK-MB
Troponin I
Random Glucose
Fasting Glucose
CO2
Chloride
Sodium (Na)
Potassium (K)
BUN
Creatinine
Bilirubin, Total
Bilirubin, Direct
Bilirubin, Neonate
Alk Phos
AST (SGOT)
ALT (SGPT)
GGT
LDH
Calcium
Phosphorus
Magnesium
Uric Acid
Total Protein (TP)
Albumin
Alcohol, Ethyl
Ferritin
Iron, Total (Fe)
TIBC (Include % Saturation)
Ammonia (on Ice)
Osmolality, Serum
Acetone, Qualitative
Beta Hydroxybutyrate
Cholesterol, Total
Triglycerides
HDL Cholesterol
LDL Cholesterol



Light Green Top Tube Contains Heparin

Comp Panel, Inf

CO2, Glu, BUN,

Alb, Alk Phos, As

- includes DBil

Hep Panel, Infan

NeoBili, Alk Pho

Neonatal Bilirub Bilirubin, Direct I Bilirubin-Calcula

Electrolyte = Na, K, Cl & CO2

Basic Metabolic Panel (BMP) = Na, K, Cl, CO₂, Giu, BUN, Creat, Ca Comprehensive Metabolic Panel

(CMP) = Na, K, Cl, CO2, Glu, BUN, Creat, Ca, TP, Alb, Alk Phos, AST, ALT, TBil

Hepatic Function Panel = TP, Alb, TBil, DBil, Alk Phos, ALT, AST

Renal Panel = Na, K, Cl, CO2, Glu, BUN, Creat, Ca, Alb

Lipid Panel = Cholesterol, Triglycerides, HDL, LDL, VLDL 14 Hrs Fasting

	Acetaminophen
	Carbamazepine
	Digoxin
	Valproic Acid (Depekene)
	Gentamicin, Peak
	Gentamicin, Random
_	Gentamicin, Trough
ube	Phenobartital
	Phenytoin (Dilantin)
in	Theophylline
	Tobramycin, Peak
	Tobramycin, Random
	Tobramycin. Trough
	Vancomycin, Peak
ant = Na, K, Cl,	Vancomycin, Random
ST, ALT, NeoBili	Vancomycin, Trough
	Beta HCG, Quantitative
t = TP, Alb, s, ALT.AST	PSA, Total
in = Total	T4, Total
Bilirubin, Indirect	T4, Free
	TSH (Ultra-Sensitive)
	CRP (C-Reactive Protein)
	Prealbumin
	Vitamin B12
	Folate

Procalcitonin

Tests that require Clotting Tubes



These tubes do not contain additives or anticoagulants.

The Gold Top has a Serum Separator Gel.

Pink Top Tube Contains EDTA **BLOOD BANK ONLY**



Type and Screen

Type and Crossmatch

DAT

Anti-Clotting Tubes



REMEMBER!!!

1) Make sure your patient specimen has a barcode printed or/and must be attached to the tube itself.

2.) For some patients with Ammonia test (Chemistry) please double check for additional Chemistry test ordered for patients. Usually, CMP and Basic are also ordered for the same patient. Use CSN to check on patient's orders so that nothing is missed. Then print CMP, Basic or other Chemistry test label and put "SHARE with Ammonia. So that testing techs are aware of it.

When we say "On Ice" We DO NOT mean INSIDE the ice, water, or ice/water mixture!



Add-On Orders

1. Click the Add-ons Envelope



2. Review specimens in the pool and choose to Add to Suggested Specimen if it is viable for the requested test.

3. Select Sent for New Collection if it not viable for add-

on.

ſ	In Basket										
	← → ☆ Home ♀ Refresh	🕞 New Messag	e 🕶 🎦	New Patien	nt Message	🔹 📩 Mar	age Pools	My Pools 🔎 Search 👷 Atta	ach 📩 Out of Contact	Preferences	Anage QuickActions 👻
	My Messages		~	+	~	-	Q	+	V	_₽	
	Add-ons	132/148	Do <u>n</u> e	Reply	Reply All	Forward	Follow-up	Add to Suggested Specimen	Send for New Collection	For <u>w</u> ard	

Add-On Orders

- If a specimen has been collected and received. Print the Label, highlight the Add-on Test, and document the storage location. Place in the Add-on box for the department.
- If specimen has been collected and received but no storage location. Print the Label, highlight the Addon Test and hand to CLS.
- If a specimen has been collected but not received.
 Do not process until the specimen has been received into the Lab.
- 4. Make sure all Labs are accounted for and then distribute to the department.

Unit Priority

TRAUMA DEPARTMENT WILL ALWAYS TAKE PRIORITY OVERALL

ER > OR > L&D > ICU (Adults, Peds, NeoNatal) > 2500 > Med Surg Units > Outpatient Labs

SAMPLE PRIORITY

CSF > Blood > Body Fluids > Urine

CSF Receiving Protocol

CSF Samples are considered STAT Always

TUBE #1: CHEMISTRY — Total Protein, Glucose, and Lactate (Optional) TUBE #2: MICROBIOLOGY — CSF Culture, Meningitis Panel (MEBIO) TUBE #3: HEMATOLOGY — CSF Cell Count TUBE #4: CYTOLOGY

PM/GRAVEYARD: FOR TUBE #2 MICROBIOLOGY SEND TO HEMATOLOGY CLS STAT if NO MICRO CLS on PM Shift

****IF ONLY 1 SPECIMEN SEND TO MICROBIOLOGY FIRST!****

OCCULT BLOOD STOOL & GASTRIC



OCCULT BLOOD STOOL – OCBLSTL

OCCULT BLOOD GASTRIC - OCBLGAST

**PM/GRAVEYARD – PLEASE SEND TO HEMATOLOGY CLS STAT if NO MICRO CLS **

EPIC BEAKER





Record that a specimen has arrived at the lab

- 1. Open the Receiving Activity.
- 2. Scan the label for each specimen you are receiving into the Lab.
 - The collection information entered by other staff appears, and the specimen is automatically marked as received.
 - The tests for the specimens you received now appear on the Outstanding List.

Update collection information from Receiving

- 1. Scan the specimen and review the collection details.
- 2. Enter the missing information.
- 3. You can use the speed buttons on the right where appropriate.
- 4. Click VReceive.

See expected and recently received specimens

- 1. In the Receiving activity, select the view you want to open: ^O Recent or ^C Expected.
- 2. The Recent view shows all specimens received in the last hour.
- 3. The Expected view shows all collected specimens that are accessioned into your lab.

Cancel or redraw a specimen

- 1. In the Receiving activity, find and select the specimen that needs to be cancelled or redrawn.
- 2. Click 😁 to see the actions you can take on this specimen.
- 3. Click 💢 Cancel or 🙋 Redraw as appropriate.
 - Cancel a test if it is no longer needed or was entered in error. For example, this may be the case if the wrong order was released. Always make a comment with who was notifed for cancelled tests
 - Redraw a specimen if the original is unusable. For example, if specimen was contaminated or spilled in transit.
- 4. In the window that appears, select a reason and click ✓ Yes.

Collect a Specimen Using Rover

What do the icons mean?

lcon	What it indicates				
*	Active Infection - Tap to see what the infection is				
۲	Allergy - Tap to see what the allergy is				
ÿ	Deferred draw - Tap to see the reason for the deferred draw				
1	STAT draw				
6	Timed draw				

Collect a Specimen Using Rover

Print labels and collect a specimen

- 1. When you go the patient's room to collect the specimens, scan the patient's armband to open the chart.
- 2. To view the orders that need to be collected for the selected patient, tap the Collection Sequence header.
- 3. Scan the patient label to print labels and achieve positive patient identification.
- 4. If needed, you can:
 - Tap **Skip** to skip collecting an order at this time.
 - Tap Show Printed to see the list of orders for which you've already printed labels. You can reprint labels from this screen and choose a printer.
- Collect the specimens in the order shown by scanning each container's barcode.
- 6. Review the information that appears in the Collection screen. If you need to make updates, tap the specimen you want to update, make your changes, and tap Accept to save your work.

Collect a Specimen Using Rover

Redraw a specimen

- 1. In Order Inquiry, tap the order for the specimen you need to redraw
- 2. Tap Redraw
- 3. Select a reason and tap Accept

Add orders on to a specimen

- 1. In Order Inquiry, tap the order to which you are adding a specimen.
- 2. Tap Add-On
- 3. Tap Continue

Reprint a label

- 1. In Order Inquiry, tap the orders you want to reprint labels for.
- 2. Select Reprint Labels
- 3. In the Print screen, select the number of copies and the printer
- 4. Tap Print

Defer a draw

- 1. In Order Inquiry, tap the orders you want to defer
- 2. Select Defer Draw
- 3. On the menu that appears, tap the reason for deferring the draw.

Collect an Outpatient Specimen

Identify which specimens to collect for a patient

- 1. Select 💷 the tab to open the Schedule.
- 2. Find and select the patient and double-click the patient's name.
- 3. Review the Lab Status column to verify which orders need to be collected.

Collect a Specimen

- 1. In Order Inquiry, select an order.
- 2. Click 🔰 Collect Specimens.
- 3. Review the specimen information and answer any collection questions.
- 4. Click 📅 Print Labels
- 5. Collect the specimens.



- Scan each specimen's barcode to add collection information automatically.
- 6. Receive the specimens or close the activity and click **Accept** to save your work.

Collect an Outpatient Specimen

Document a redraw

- 1. To redraw a received specimen, open the Receiving activity and select the specimen.
- 2. Click 💮 and select 💁 Redraw.
- 3. In the window that appears, enter a reason for the redraw.
- 4. Click 🖌 Yes.
- 5. Collect the redraw specimen.

Reprint specimen labels

- 1. In the Collection activity, click Reprint Labels.
- 2. If you've left the Collection activity, open the specimen in Specimen Inquiry and click T Labels.
- 3. Select the printer you want to use.
- 4. Click 📅 Print Labels

Verify Quest Packing Lists

When packing tests for Quest, it is important to verify that the correct label has been scanned and the test code is listed for EVERY test on the packing list. Quest will reject any specimen without a test code.

If a test code is missing, you must find the Quest test code and write it with the appropriate test. Quest does not accept anything except the test code.

Create a packing list

- 1. Open the Packlist List Editor and click 🛖 Create New.
- 2. Select an appropriate Packing List Type.
- 3. The Packing List ID is created automatically.
- 4. Click 🛉 Create New
- 5. Scan the specimen barcodes to add specimens to the packing list.
- 6. In the Details report, select the test(s) to ship for the specimen.
- 7. Select the destination of your packing list if appropriate one does not default into the destination field.

Add missing specimens to a packing list

- To find any specimens that need to be added to a certain packing list, click Sendout Bench and confirm that your list is selected.
- Select the test(s) that need to be added and click + Add Tests to Packing List.
- 3. Confirm that all containers you selected are listing on the packing list and are no longer included on the list of specimens to send out.

Send a packing list to another lab

To indicate that your packing list is ready for pickup, click </ Ready. With this step, a few things happen:

- 1. The packing list is locked in the system, no more containers can be added.
- 2. The packing list's status changes to Ready.
- 3. The packing list prints.

lacksquare

lacksquare

If you need to add more tests to a locked packing list, you can unlock the packing list again by clicking **VInready**.

Packing List Editor – Used to scan or manually type in specimens onto a new or already opened/readied packing list

Sendout Bench – Used to check your lab's list of specimens that are to be sent out. You can add tests from this list to a new or already opened/readied packing list.

Sendout Bench – Pending List

- 1. Review the Sendout Bench to ensure all specimens are on a packing list.
- 2. Locate specimens that are on the Sendout Bench that are not on a packing list.
- 3. Specimens may need to be redrawn if left on the Sendout Bench

THANK YOU!