







## University of Colorado Hospital – Clinical Laboratory Neonatal Blood Collection Guide

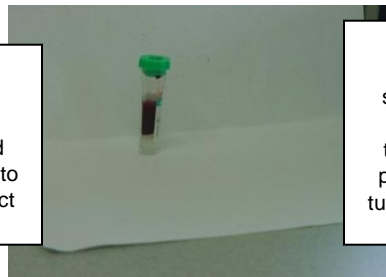
Last Revised 8-30-2022

BD or GREINER MINICOLLECT TUBE	BD LAVENDAR MICROTAINER-EDTA	HEPARINIZED RADIOMETER CAPILLARY TUBE	BD BLUE TOP 1.8 ML DRAW SIZE				
							
*Basic Metabolic Panel Or **Comprehensive Metabolic Panel Or ***Renal Function Panel	0.8 mL for a combination of 6 tests or less  1.0 mL for a combination of more than 6 tests	CBC, Diff, Reticulocytes, Platelets	0.5 mL	Blood Gas, iCA, Glucose, Lactate	1 full tube (125 µL)	DIC Panel	1.8 mL Do <b>NOT</b> under or overfill
Electrolytes		Parvovirus PCR	1.0 mL	Glucose, Whole Blood	60% full	Prothrombin Time (PT)	
Phosphorus		CMV PCR	1.0 mL	TUBERCULIN ABG SYRINGE w/ BALANCED HEPARIN		PTT	
Magnesium		HIV PCR <i>(can use 1.0mL, but ↓ test sensitivity)</i>	2.0 mL			D-Dimer	
CRP		Toxoplasma gondii PCR	1.0 mL			Thrombin Time	
Phenobarbital		ABORH Type-Newborn	0.8 mL			BD Red Top Vacutainer, Clot Activator NO GEL	
Triglycerides		Direct and Indirect Coombs		Blood Gas	0.3 mL	Cortisol	1.0 mL
Vancomycin		<b>LATE ADD TESTING AND ADDITIONAL WORKUPS MAY REQUIRE EXTRA VOLUME</b>	Blood Gas, iCA, Lytes, Lactate, GLU	Vitamin D, 25-hydroxy		1.0 mL	
TSH			1.0 mL	Blood Gas and Lactate		Free T4 (by equilibrium dialysis)	2.0 mL
Gentamycin			0.5 mL	Blood gas and iCA	<b>MIX 10 TIMES BY INVERSION</b>		
<b>***K, Na, Cl, CO<sub>2</sub>, Glu, BUN, Creat, estimated GFR, Phos, Ca, Albumin</b>		<b>MIX 10 TIMES BY INVERSION TO PREVENT CLOTTING</b>		<b>NO BUBBLES</b>			
QUESTIONS? Check the lab test catalog ( <a href="http://www.testmenu.com/univeristyhospital">http://www.testmenu.com/univeristyhospital</a> ), or contact the Clinical Laboratory x84401							

**Greiner MiniCollect Green Tops with Gel – How to Use:**



Use supplied funnel or drip blood directly into MiniCollect

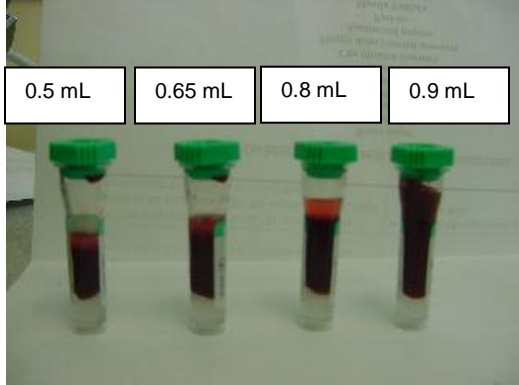
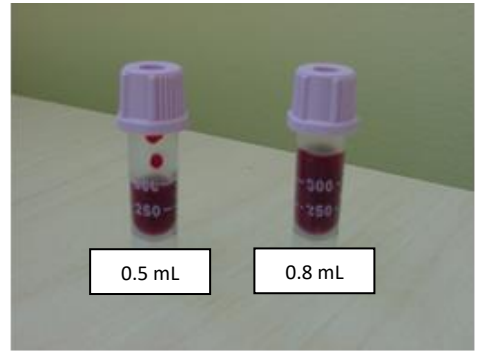
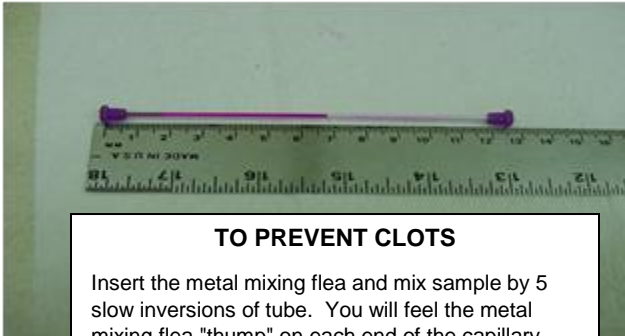


Submit all MiniCollect samples in the amber carrier tube. This will provide optimal turnaround times.



Make sure that the zebra label is placed with the patient's name close to the top of the amber tube.

**Minimum Volume Requirements for Common Laboratory Tests:**

Chemistry and Therapeutic Drugs	Hematology, Blood Bank and Virology	Whole Blood Glucose
		 <p><b>TO PREVENT CLOTS</b></p> <p>Insert the metal mixing flea and mix sample by 5 slow inversions of tube. You will feel the metal mixing flea "thump" on each end of the capillary tube as you mix.</p>
<p><b>1.0 mL is enough to run all of the following:</b></p> <p>Sodium, Potassium, CO<sub>2</sub>, Chloride, BUN, Creatinine, Total and Direct Bili, Glucose, Calcium, Magnesium, Phosphorus, Triglycerides, AST, ALT, ALP, GGT, Albumin, Total Protein, CRP, Vancomycin, and Phenobarbital</p> <p><b>1.0 mL must also be submitted for TSH <u>only</u>.</b></p> <p><b>0.5 mL must also be submitted for Gentamycin <u>only</u></b></p>	<p><b>0.5 mL is enough to run:</b></p> <p>CBC/Differential/Platelets/Reticulocytes</p> <p><b>0.8 mL is enough to run:</b></p> <p>ABORH Type-Newborn</p> <p>Direct and Indirect Coombs</p>	<p><b>0.070 mL minimum assay volume.</b></p> <p>Glucose, Whole Blood</p> <p>This is approximately 60% full or 7 cm of blood in a Radiometer heparinized capillary tube.</p> <p>Samples not meeting this absolute minimum volume will not be able to have Glucose testing performed.</p>