

<b>Policy #:</b>	405 (PLH-405-04)	<b>Effective Date:</b>	NA	<b>Reviewed Date:</b>	2/1/2010
<b>Subject:</b>	MINIMUM COLLECTION BLOOD VOLUMES				
<b>Approved by:</b> Laboratory Executive Director, Ed Hughes (electronic signature)					
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## MINIMUM COLLECTION BLOOD VOLUMES

To ensure that an excessive amount of blood is not obtained, the minimum volume needed to perform the tests listed is provided below. Collection is in EDTA (purple), heparinized (green), red (no additive) microtainers, or red top collection tubes. Blood losses from phlebotomy, particularly in pediatric patients and those with many venipunctures, may be a cause of iatrogenic anemia and increased transfusion needs. Adverse consequences of excess venipunctures include complications during collection for patients and health care workers, hazards from subsequent transfusions, contending with disposal of hazardous waste, and increased cost. Suggested solutions include carefully considering the need for laboratory tests, avoid unnecessary repetition of tests, and minimizing use of standing orders.

<b><u>TEST</u></b>	<b><u>VOLUME in/and COLORMICROTAINER</u></b>
ABO/RH & COOMBS _____	0.3 cc purple
ALBUMIN _____	0.4 cc green
ALK PHOS _____	0.4 cc green
AMINO ACIDS _____	2.0 cc green (4 full tubes)
AST, ALT, GGT _____	0.6 cc green
B12 _____	0.4 cc purple or red
BHCG _____	0.4 cc green
BILIRUBIN TOTAL & DIRECT _____	0.6 cc green
BLOOD CULTURE _____	1 cc ped culture bottle, 3 cc aerobic culture bottle, 3 cc anaerobe culture bottle
BMP _____	0.6 cc green
CAFFEINE LEVEL _____	0.5 cc serum
CALCIUM _____	0.4 cc green
CBC _____	0.3 cc purple
CEA _____	0.4 cc purple
CHROMOSOMES _____	1.0 cc in special green (Na Heparin)
CMP _____	1.0 cc green (2 full tubes)
CPK _____	0.3 cc green

CRP _____	0.4 cc green
DIC _____	1.0 cc blue and 0.2 cc purple
DIGOXIN _____	0.4 cc green
ESTRADIOL _____	0.4 cc green
FERRITIN _____	0.6 cc green
FOLATE _____	0.4 purple or red
FSH _____	0.4 cc green
FT4 _____	0.6 cc red
FUNGAL SMEAR _____	depends on source – contact lab
GENTAMICIN _____	0.3 cc green
GLUCOSE _____	0.3 cc green
HEMATOCRIT _____	0.3 cc purple
HEMOGLOBIN _____	0.3 cc purple
HAVABM _____	0.4 cc green
HBSAB _____	0.4 cc green
HBSAG _____	0.4 cc green
HCV _____	0.2 cc green
HEPATIC FUNCTION PANEL _____	0.7 cc green
HEPATITIS PANEL _____	2.0 cc green (4 full tubes)
HEP CORE M _____	0.4 cc green
HERPES CULTURE _____	2.0 cc purple
HGB ELECTROPHORESIS _____	0.5 cc purple
HIV _____	0.6 cc green
IGM, IGG, IGA _____	0.7 cc (no additive) red
INTACT PTH _____	2.0 cc green (4 full tubes)
IRON _____	0.3 cc green
LH _____	0.4 cc green
LYTES _____	0.6 cc green
MAGNESIUM _____	0.4 cc green
OSMOLALITY _____	0.2 cc green
PHENOBARBITAL _____	0.4 cc green
PHOSPHORUS _____	0.4 cc green
PLATELET COUNT _____	0.3 cc purple
PROLACTIN _____	0.4 cc green
PROTEIN ELECTROPHORESIS _____	0.4 cc (no additive-red)
PSA _____	0.4 cc green
PT _____	1 cc PED BLUE
PTT _____	1 cc PED BLUE
RENAL PANEL _____	0.6 cc green
RETIC _____	0.3 cc purple
RPR _____	0.6 cc purple or red
SALICYLATE _____	0.3 cc green
SODIUM & POTASSIUM _____	0.4 cc green
THERAPEUTIC DRUGS _____	0.4 cc per drug in green

THYROID FUNCTION _____	0.7 cc per test in red or green
TORCH IgG & IgM _____	2.5 cc serum red (4 full tubes)
TORCH IgM only _____	1.5 cc serum red (2 full tubes)
TSH _____	0.6 cc red or green
TYPE & SCREEN	
(NEONATE) _____	1.0 cc purple
(ADULT) _____	3.0 cc purple
URINE AMINO ACIDS _____	5 cc urine
URINE CMV _____	5 cc urine
URINE ORGANIC ACIDS _____	5 cc urine
URINE TOXICOLOGY _____	5 cc urine
VANCOMYCIN _____	0.3 cc green