

# BLOOD TUBE GUIDE

When ordering tests for which Medicare reimbursement will be sought, physicians should only order tests which are medically necessary for diagnosis or treatment. Please be aware that Medicare generally does not cover routine screening tests. See reverse side for additional medical necessity information.

## CMS APPROVED CHEMISTRY PANELS

- BASIC METABOLIC PANEL [BMP]  
(NA,K,CL,CO2,GLU,BUN,CREAT,CA)
- COMPREHENSIVE METABOLIC PANEL  
(BMP, TP, ALB, TBILI, AST, ALK, ALT) [COMP]
- ELECTROLYTES (NA,K,CL,CO2) [LYT]
- HEPATIC FUNCTION PANEL [HFPA]  
(ALB,TP,TBILI,DBILI,ALK,AST,ALT)
- RENAL FUNCTION PANEL [RENFP]  
(BMP, ALB, P)
- LIPID PANEL [LIPID]  
(TOTAL CHOL, TRIG, HDL, LDL)

- ACETAMINOPHEN [TYL]
- 6** AFP, NON-MATERNAL [AFPNOT]
- ALBUMIN [ALB]
- ALKALINE PHOSPHATASE [ALK]
- ALT [ALT]
- AMMONIA [PLNH3] Send to lab on ice
- AMYLASE [AY]
- B** ANTI-FACTOR Xa (For Heparin Infusion, LMW Heparin, Rivaroxaban or Apixaban)
- 3** ANTI-NUCLEAR ANTIBODIES [ANAG]  
**6** WITH REFLEXIVE TESTING [ANARC]  
(Also includes ENA, Jo-1, Scl-70, SSA/Ro)
- AST [AST]
- B-TYPE NATRIURETIC PEPTIDE [BNAP]
- BETA-HYDROXY BUTYRATE [BHOB]
- BILIRUBIN, TOTAL [BIL]
- BILIRUBIN, TOTAL/DIRECT [BILTD]
- C-REACTIVE PROTEIN [HSCRPT]  
 WITH CARDIAC RISK ASSESSMENT [HSCRPG]
- 4** CA 125 (Cancer Ag 125) [CA125X,CA125R]
- 4** CA 27.29 / CA 15.3 [CA2715 / CA153R]
- CALCIUM (CA), TOTAL [CA]
- CALCIUM, IONIZED, REFLEXIVE, \$  
[ICAR]
- H** CBC (HCT,HB,WBC,RBC, RBC INDICES and PLT) WITH: [CBC]
- H** ABS NEUTROPHIL COUNT [CBANC]
- H** DIFFERENTIAL [CBD]
- 3** CEA [CEA]
- CHOLESTEROL, TOTAL [CHOL]
- CK-TOTAL [CK]
- B** COAG SCREEN (PT,PTT) [PPP]

- CORTISOL [CRT]
- 9** COPPER [CUG]
- CREATININE [CREG]
- 15** CRYOGLOBULINS [CRYOG]  
Transport to Lab at 37degrees
- 3** CYCLOSPORINE by LC-MSMS [CSAG]
- B** D-DIMER, QUANT. [DDI]
- B+3** DIC PANEL w/ PLT [DICP1]
- B** DIC PANEL without PLT [DICNP1]
- DIGOXIN [DIG]
- B** DIRECT THROMBIN INHIBITOR [DTI]
- ESTRADIOL [EDOL]
- ETHANOL (Ethyl Alcohol) [ETOH]
- FERRITIN [FER]
- B** FIBRINOGEN [FIBCL]
- FOLATE [FOLAT]
- 3** FREE LIGHT CHAINS [FLC]
- FSH [FSH]
- 3** G6PD SCREEN [G6PD]
- GGT [GGT]
- GLUCOSE [GLU]  Fasting [GLUF]
- HAPTOGLOBIN [HPT]

- HCG (QUANTITATIVE):
- O** PREGNANCY [PG]
  - 6** TUMOR MARKER [HCGTUM]
  - H** HEMATOCRIT [HCTG]
  - H** HEMOGLOBIN (HB) [HBG]
  - 3** HB A1C [A1C / A1CRPD]
  - 3** HB ELEC (w/o interpretation) [HBELEC]
  - 3** HB S, QUANTITATIVE [HBSQH]
  - 3** HOMOCYSTEINE, TOTAL [HMCY]  
Send to lab on ice
  - 2** IMMUNOFIXATION [IFIX]

- IMMUNOGLOBULINS:
- 3** IGA [IGA] **3** IGG [IGG]
  - 3** IGE [IGET] **3** IGM [IGM]
  - IRON [FE]  WITH TIBC AND TRANSFERRIN [IBCD]
  - LD [LD]
  - LIDOCAINE [LIDO]
  - LIPASE [LPASE]

- B** LUPUS ANTICOAGULANT w/ INTERP [LUI]
- Two **B** LUPUS ANTICOAGULANT AND APL PANEL w/ INTERP [LUPGI]
- LUTEINIZING HORMONE [LH]
- MAGNESIUM [MG]
- 3** MONONUCLEOSIS TEST [MONO]
- OSMOLALITY [OSMO]
- PARATHYROID HORMONE, [IPTH]  
 WITH CALCIUM [IPTHG]
- PHENYTOIN (Dilantin), TOTAL [DIL]
- PHENYTOIN (Dilantin), FREE&TOTAL [FTDIL]
- PHOSPHATE (PO4) [P]
- H** PLATELET COUNT [PLTG]
- POTASSIUM [K]
- 3** PROGESTERONE [PROG]
- PROLACTIN [PRL]
- PROSTATE SPECIFIC ANTIGEN
  - O** TOTAL [PSA]
  - O** TOTAL, REFLEXIVE FREE \$ [PSAFRP]
- B** PROTEIN C ACTIVITY [PCCLOT]
- B** ACTIVATED PROTEIN C RESISTANCE [APCR]
- B** PROTEIN S ANTIGEN, FREE [PSAGF]
- 3** PROTEIN ELECTROPHORESIS [ELP]  
(3 mL for both) WITH REFLEXIVE TESTING \$ [ELPP]
- PROTEIN, TOTAL [TP]
- B** PROTHROMBIN TIME (PT) [PRO]
- B** PTT [PTT]
- H** RETICULOCYTE COUNT [RETIC]
- G** RHEUMATOID FACTOR [RF]
- SALICYLATE [ASA]
- 3** SEDIMENTATION RATE [ESR]
- G** SEROLOGIC SYPHILIS PANEL [SYPHS]
- 3** SIROLIMUS [SIROLG]
- SODIUM [NA]
- 3** TACROLIMUS [TACROG]
- TESTOSTERONE, TOTAL [TEST]
- B** THROMBIN TIME [TT]

- THROMBOSIS, VENOUS
- OLTG** COMPREHENSIVE VEN THROMBOSIS GROUP  
(See OLTG for Components) [CVTH / CVTHN]
- 3** FACTOR 5 DNA [F5DNA]
  - B+3** F8 THROMBOSIS (CHRF8, HSCRPT)[F8THR1]
  - 3** PROTHROMBIN DNA [PRODS]
- THYROID TESTING:
- T3, FREE [T3FR]
  - T3, TOTAL [T3]
  - T4, FREE [T4FR]
  - T4, TOTAL [T4]
  - O** TSH [TSH]

- TRANSFERRIN [TRSF]
- TRANSTHYRETIN (PRE-ALBUMIN) [TTHY]
- TRIGLYCERIDES [TRIG]
- O** TROPONIN I [TROPIG]
- UREA NITROGEN [BUN]
- URIC ACID [URIC]

- VITAMINS:
- G** A, D-(25-OH) or E
  - C
  - 6** B1 (FASTING) Wrap tube in foil
  - B2 and/or B6 (FASTING)  
Wrap tube in foil
  - B12

- VANCOMYCIN [VANCOP / VANCOT / VANCOR]  
Peak, Trough or Random Sample
- B** VON WILLEBRAND DISEASE GROUP  
(VWFAG, F8, MULTI, VWFBC) [VWDPKG]
- H** WBC [WBCG]
- S** ZINC [ZNG]
- 3** ZPPH [ZPPH]

## VIROLOGY BLOOD TESTING

- Common Molecular Testing
- 3** ADENOVIRUS by PCR, QNT [ADVQN]
  - 3** BK VIRUS by PCR [BKVQN]
  - 3** CMV DNA by PCR [CMVQN]
  - 3** EBV DNA by PCR [EBVQ]
  - 3** HSV DNA by PCR [HS12QN]
  - 3** VZV DNA by PCR [VZVQN]

Hepatitis Serology Testing

Any combination of Hepatitis A, B or C batteries for hepatitis serology testing w/ reflex PCR. Send one **G** tube and one **P** tube.

HIV Testing

**P** HIV Antigen and Antibody Screen [HVAGAB]  
(Always draw a separate Pearl Top for this test)  
It cannot be shared with any other testing)

- Other Viral Serology Testing
- G** CMV IMMUNE STATUS [CMVS]
  - G** EBV IMMUNE STATUS [EBVEIA]
  - G** HSV1 & HSV2 TYPE SPECIFIC SEROLOGY BY WESTERN BLOT [HSWB]
  - G** MEASLES IMMUNE STATUS [RBIS]
  - G** MUMPS IMMUNE STATUS [MPIS]
  - G** RUBELLA IMMUNE STATUS [RUIS]
  - G** VARICELLA ZOSTER IMMUNE STATUS [VZIS]

## Tube Type Key

- For any combination, one 4.5 mL LIME GREEN PST
- One extra 4.5 mL LIME GREEN PST for each test
- 4 mL GREEN TOP
- O** 5 mL ORANGE RST (Rapid Serum Tube)
- G** 5 mL GOLD SST (or RED TOP if GOLD unavailable)
- B** 2.7 mL BLUE TOP, MUST BE FULL DRAW
- H** One 3 mL LAVENDER TOP for any combination
- 3** Separate 3 mL LAVENDER TOP for each test
- 6** Separate 6 mL LAVENDER TOP for each test

- 3** RED TOP, number in box indicates volume of blood needed for that test. If multiple tests requiring red tops are ordered, add volumes together, round up to nearest appropriate number of 4 mL and/or 10 mL red top tubes
- S** RED CAP SARSTEDT SYRINGE
- P** 5 mL PEARL WHITE PPT

**OLTG** See Online Laboratory Test Guide at website:  
[menu.labmed.washington.edu](http://menu.labmed.washington.edu)

Current pdf files of this form can be found on the Online Laboratory Test Guide website shown above.

PLEASE NOTE THAT ALL BLOOD TUBES MUST BE WELL MIXED IMMEDIATELY AFTER DRAW.  
POORLY MIXED TUBES CAN RESULT IN ERRONEOUS LAB RESULTS OR LAB INSTRUMENT MALFUNCTION. MIX BY GENTLY INVERTING THE TUBE 8 TIMES.