

# Mason District Hospital Laboratory Handbook

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## Acetaminophen

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Serum (Red Top)

**Expected Range:** 10 - 20 mcg/ml (Therapeutic Range)

**Patient Preparation:** None

**Causes for Rejection:** Improper Labeling, Excessive Hemolysis

**CPT Code:** 82003

**MDH Procedure Code:** 180072

## Albumin

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)

**Expected Range:** 3.2 - 5.2 gm/dl

**Patient Preparation:** None

**Causes for Rejection:** Improper Labeling, Excessive Hemolysis

**CPT Code:** 82040

**MDH Procedure Code:** 180002

## Alcohol (Blood)

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Serum (Red Top)

**Expected Range:** < 10 mg/dl. (Intoxication = >80 mg/dl)

**Patient Preparation:** Must clean site with non-alcohol prep

**Causes for Rejection:** Improper Labeling, Excessive Hemolysis

**CPT Code:** 82055

**MDH Procedure Code:** 180075

## Alkaline Phos.

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)

**Expected Range:** 25 - 120 U/L

**Patient Preparation:** None

**Causes for Rejection:** Improper Labeling, Hemolysis

**CPT Code:** 84075

**MDH Procedure Code:** 180003

## Ammonia

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)

**Expected Range:** 16-53 UMOL/L

**Patient Preparation:** None

**Causes for Rejection:** Improper Labeling, Hemolysis

**CPT Code:** 82140

**MDH Procedure Code:** 180092

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## Amylase, Plasma

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)

**Expected Range:** 5 - 115 U/L

**Patient Preparation:** None

**Causes for Rejection:** Improper Labeling

**CPT Code:** 82150

**MDH Procedure Code:** 180004

## Arterial Blood Gas

**Specimen Requirement:** 2 ml heparinized whole blood - On Ice

**Availability:** As Needed or Stat within 1 hour

**Expected values**

pH 7.35 - 7.45

pCO<sub>2</sub> 35 - 45 mmHg

pO<sub>2</sub> 80 - 90 mmHg

HCO<sub>3</sub> 22 - 26 mmol/L

CO<sub>2</sub> 23 - 32 mmol/L

Base Excess -2 to 2

O<sub>2</sub> 96 - 97 %

**Cause for Rejection:** Venous blood, Clotting, Improper labeling

**Patient Preparation:** None

**CPT Code:** 82803

**MDH Procedure code:** 180006

## B-TNP **Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml EDTA Plasma (Lav Top)

**Expected Range:** 0 - 100 pg/ml

**Patient Preparation:** None

**Causes for Rejection:** Improper Labeling

**CPT Code:** 86255

**MDH Procedure Code:** 180675

## BETA-HYDROXYBUTYRATE

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** Whole blood – Mint Green/Lav top

**Expected Range:** < 0.6 MMOL?L

**Causes for Rejection:** Improper Labeling, Hemolysis

**Patient Preparation:** None

**CPT Code:** 82010

**MDH Procedure Code:** 184638

## BHCG

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Serum (Gold Top)

**Expected Range:** < 3.0 MIU/ml

**Causes for Rejection:** Improper Labeling, Hemolysis

**Patient Preparation:** None

**CPT Code:** 84702

**MDH Procedure Code:** 180121

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## **Bilirubin, Direct**

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 1 ml Plasma (Mint Gr Top)*

*Expected Range: 0 - 0.2 mg/dl*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 82248*

*MDH Procedure Code: 180008*

## **Bilirubin, Indirect**

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 1 ml Plasma (Mint Gr Top)*

*Expected Range: 0.1 - 1.2 mg/dl*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 180009*

## **Bilirubin, Total**

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 1 ml Plasma (Mint Gr Top)*

*Expected Range: 0.1 - 1.4 mg/dl*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 82247*

*MDH Procedure Code: 180007*

## **BUN**

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 1 ml Plasma (Mint Gr Top)*

*Expected Range: 5 - 23 mg/dl*

*Causes for Rejection: Improper Labeling*

*Patient Preparation: None*

*CPT Code: 84520*

*MDH Procedure Code: 180010*

## **Calcium, Plasma**

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours or Stat within 1 hour*

*Specimen Requirement: 1 ml Plasma (Mint Gr Top)*

*Expected Range: 8.5 - 10.5 mg/dl*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 82310*

*MDH Procedure Code: 180012*

## **Carbon Monoxide**

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours or Stat within 1 hour*

*Specimen Requirement: whole blood - heparin*

*Expected Range: 0.0 - 2.0 %*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

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**CPT Code: 82375**  
**MDH Procedure Code: 180071**

## Carbamazepine

**Performing Laboratory: Special Chemistry**  
**Availability: Routine orders - 4 hours. Stat orders within 1 hour**  
**Specimen Requirement: 1 ml Serum (Red Top)**  
**Therapeutic Range: 4 - 12 mcg/ml**  
**Specimen Requirement: Improper Labeling, Hemolysis**  
**Patient Preparation: Record time of last medication dose**  
**CPT Code: 80186**  
**MDH Procedure Code: 180094**

## C DIFFICILE TOXINS A&B

**Performing Laboratory: Microbiology**  
**Availability: Routine orders - 24 hours**  
**Specimen Requirement: Fresh Liquid Stool Specimen**  
**Expected Range: Negative**  
**Causes for Rejection: Improper Labeling, Solid specimen**  
**Patient Preparation: None**  
**CPT Code: 87493**  
**MDH Procedure Code: 180216**

## CEA

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 24 hours**  
**Specimen Requirement: 1ml Serum (Gold Top)**  
**Expected Range: < 3.0 ng/ml**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: None**  
**CPT Code: 82378**  
**MDH Procedure Code: 180095**

## Chloride, Plasma

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours. Stat orders within 1 hour**  
**Specimen Requirement: 1 ml Plasma (Mint Gr Top)**  
**Expected Range: 99 - 113 mmol/L**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: None**  
**CPT Code: 82435**  
**MDH Procedure Code: 180057**

## Cholesterol, LDL Direct

**Performing Laboratory: Chemistry**  
**Availability: Daily**  
**Specimen Requirement: 1 ml Plasma (Mint Gr Top)**  
**Expected Range: 65.0 – 159 mg/dl**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: None**  
**CPT Code: 83721**  
**MDH Procedure Code: 180544**

## Cholesterol, Total

**Performing Laboratory: Chemistry**

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**Availability:** *Daily*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *100 - 200 mg/dl*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *12 - 14 Hour Fasting Preferred*  
**CPT Code:** *82465*  
**MDH Procedure Code:** *180018*

## Cholesterol, HDL

**Performing Laboratory:** *Chemistry*  
**Availability:** *Daily*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *20 - 70 mg/dl*  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** *12 - 14 Hour Fasting*  
**CPT Code:** *83718*  
**MDH Procedure Code:** *180064*

## CO2

**Performing Laboratory:** *Chemistry*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *23 - 32 mmol/L*  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *82374*  
**MDH Procedure Code:** *180011*

## Complete Blood Count

**Performing Laboratory:** *Hematology*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 EDTA Whole Blood (Lav Top)*  
**Hemoglobin Male:** *13.5 - 16.5 g/dl* **Female:** *12.0 - 15.0 g/dl*  
**Hematocrit: Male:** *41 - 48%* **Female:** *34 - 45%*  
**RBC: Male:** *4.4 - 5.0x10<sup>6</sup>/cumm* **Female:** *3.8 - 5.9x10<sup>6</sup>cu/mm*  
**RDW:** *11.6 - 14.6 %*  
**MCV:** *86 - 94 fl*  
**MCH:** *29 - 33 uugm*  
**MCHC** *33 - 36%*  
**WBC:** *4.0 - 11.0x10<sup>3</sup>/cumm*  
**Bands:** *0 - 3%*  
**Neutrophils:** *40 - 80%*  
**Lymphs:** *20 - 55%*  
**Monos:** *1 - 10%*  
**Eosinophils:** *1 - 8%*  
**Basophiles** *0 - 2 %*  
**Causes for Rejection:** *Improper Labeling, Hemolysis, CLOTTING*  
**Patient Preparation:** *None*  
**CPT Code:** *85025*  
**MDH Procedure Code:** *180033*

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## CPK

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *Male: 24 - 146 U/L Female: 17 - 121 U/L*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *82550*  
**MDH Procedure Code:** *181018*

## CRP C-Reactive Protein

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 24 hours.*  
**Specimen Requirement:** *1 ml Serum (Gold Top)*  
**Expected Range:** *<0.8 mg/dl*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *86140*  
**MDH Procedure Code:** *182041*

## CKMB

**Performing Laboratory:** Special Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *0.0 - 0 3.5 ng/ml*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *82553*  
**MDH Procedure Code:** *180019*

## Creatinine

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *0.52 - 1.2 mg/dl*  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *82565*  
**MDH Procedure Code:** *180020*

## Culture – Anaerobic

**Performing Laboratory:** Microbiology  
**Specimen Requirement:** *Body Fluid or tissue collected utilizing Appropriate collection system*  
**Cause For Rejection** *Submitted more than one hour after collection*  
**Patient Preparation:** *Usually collected during surgery*  
**CPT Code:** *87075*  
**MDH Procedure Code:** *180021*

## Culture – Abscess

**Performing Laboratory:** Microbiology  
**Specimen Requirement:** *Fluid, Tissue or sterile swab. Specimen preferably collected by physician.*  
**Cause For Rejection** *Not submitted in sterile container*  
**Patient Preparation:** *None*

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**CPT Code: 87070**  
**MDH Procedure Code: 182000**

## **Culture – Blood**

**Performing Laboratory: Microbiology**  
**Specimen Requirement: Aerobic and Anaerobic blood culture system**  
**Cause For Rejection Insufficient volume, Vented Anaerobic Container**  
**Patient Preparation: Prep Phlebotomy site with Iodine Prep and Alcohol**  
**CPT Code: 87040**  
**MDH Procedure Code: 182011**

## **Culture – CSF**

**Performing Laboratory: Microbiology**  
**Specimen Requirement: 1 cc CSF in sterile CSF tubes**  
**Cause For Rejection Improper collection. Specimen received more than 1 hour after collection. Improperly labeled tubes.**  
**Patient Preparation: None**  
**CPT Code: 87070**  
**MDH Procedure Code: 182001**

## **Culture – Sputum**

**Performing Laboratory: Microbiology**  
**Specimen Requirement: 5 c.c of Sputum from Deep Cough**  
**Cause For Rejection Improper labeling, Poor collection as seen by Gram Stain.**  
**Patient Preparation: None**  
**CPT Code: 87070**  
**MDH Procedure Code: 182006**

## **Culture - Stool (PCR)**

**Performing Laboratory: Microbiology**  
**Specimen Requirement: 100 Gram Feces collected in sterile container, Must be received into lab within 30 minutes**  
**Cause For Rejection: Improper labeling, Contamination with Urine**  
**Patient Preparation: None**  
**CPT Code: 87507**  
**MDH Procedure Code: 184637**

## **Culture – Throat**

**Performing Laboratory: Microbiology**  
**Specimen Requirement: Swab Transport System**  
**Cause For Rejection Improper Labeling, Specimen received more than 24 hours after collection**  
**Patient Preparation: No eating, Drinking, Smoking or gum chewing for more than 1 hour before collection.**  
**CPT Code: 87070**  
**MDH Procedure Code: 180510**

## **Culture – Urine**

**Performing Laboratory: Microbiology**  
**Specimen Requirement: Urine specimen collected as a Clean Catch or catheterized specimen**  
**Cause For Rejection Improper labeling. Specimen should not show more than 10 Epithelial cells per HPF**  
**Patient Preparation: None**

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**CPT Code: 87070**  
**MDH Procedure Code: 182008**

## Culture – Urogenital

**Performing Laboratory: Microbiology**  
**Specimen Requirement: Sterile Swab**  
**Cause For Rejection Improper labeling. Specimen received more than 15 minutes after collection.**  
**Patient Preparation: None**  
**CPT Code: 87070**  
**MDH Procedure Code: 182024**

## D-DIMER

**Performing Laboratory: Special Chemistry**  
**Availability: Routine orders - 4 hours. Stat orders within 1 hour**  
**Specimen Requirement: 1 ml EDTA Plasma (Lav Top)**  
**Therapeutic Range: <500 ng/ml feu**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: Record time of last medication dose**  
**CPT Code: 80162**  
**MDH Procedure Code: 180609**

## Digoxin

**Performing Laboratory: Special Chemistry**  
**Availability: Routine orders - 4 hours. Stat orders within 1 hour**  
**Specimen Requirement: 1 ml Serum (Red Top)**  
**Therapeutic Range: 0.7 - 2.1 ng/ml**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: Record time of last medication dose**  
**CPT Code: 80162**  
**MDH Procedure Code: 182024**

## Dilantin

**Performing Laboratory: Special Chemistry**  
**Availability: Routine orders - 4 hours. Stat orders within 1 hour**  
**Specimen Requirement: 1 ml Serum (Red Top)**  
**Therapeutic Range: 10 - 20 mcg/dl**  
**Specimen Requirement: Improper Labeling, Hemolysis**  
**Patient Preparation: Record time of last medication dose**  
**CPT Code: 80185**  
**MDH Procedure Code: 180035**

## FERRITIN

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours.**  
**Specimen Requirement: 1 ml Plasma (Mint Gr Top)**  
**Expected Range: M 10-259, F 5-116 ng/ml**  
**Causes for Rejection: Improper Labeling**  
**Patient Preparation: Before 10 am**  
**CPT Code: 82728**  
**MDH Procedure Code: 180137**

## FREE T3

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours.**  
**Specimen Requirement: 1 ml Serum (Gold Top)**

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**Expected Range:** 2.4 – 4.2 pg/ml  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** None  
**CPT Code:** 84481  
**MDH Procedure Code:** 180102

## FSH

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours.*  
**Specimen Requirement:** 1 ml Serum (Gold Top)  
**Expected Range:** M-1.5-14, F-1.0-129 MIU/ML  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** None  
**CPT Code:** 83001  
**MDH Procedure Code:** 180103

## Gentamicin

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** 1 ml Serum (Red Top)  
**Expected Range:** *See report for expected range - Will vary depending if test is ordered as peak or trough.*  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** None  
**CPT Code:** 80170  
**MDH Procedure Code:** 180070

## GGT

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)  
**Expected Range:** 0.62 – 1.51 IU/L  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** None  
**CPT Code:** 82977  
**MDH Procedure Code:** 180066

## Glucose

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)  
**Expected Range:** 70 - 100 mg/dl  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** *Fasting Preferred*  
**CPT Code:** 82947  
**MDH Procedure Code:** 180025

## Hematocrit

**Performing Laboratory:** Hematology  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** 1 EDTA Whole BI (Lav Top)  
**Expected Range:** *Male: 41 - 48% Female: 34 - 45%*  
**Causes for Rejection:** *Improper Labeling, Hemolysis, CLOTTING*  
**Patient Preparation:** None  
**CPT Code:** 85027

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**MDH Procedure Code: 181011**

## Hemoglobin

**Performing Laboratory: Hematology**

**Availability: Routine orders - 4 hours. Stat orders within 1 hour**

**Specimen Requirement: 1 EDTA Whole BI (Lav Top)**

**Hemoglobin Male: 13.5 - 16.5 g/dl Female: 12.0 - 15.0 g/dl**

**Causes for Rejection: Improper Labeling, Hemolysis, CLOTTING**

**Patient Preparation: None**

**CPT Code: 85027**

**MDH Procedure Code: 181011**

## HIV I & II Ag/Ab Combo

**Performing Laboratory: Serology**

**Availability: Routine orders - 4 hours. Stat orders within 1 hour**

**Specimen Requirement: 1 EDTA tube And 1 SST Tube**

**Hemoglobin Non-Reactive**

**Cause for Rejection: Improper Labeling, Hemolysis**

**Patient Preparation: None**

**CPT Code: 86703**

**MDH Procedure Code: 184605**

## HGB A1C

**Performing Laboratory: Special Chemistry**

**Availability: Daily**

**Specimen Requirement: EDTA Whole Blood (Lav Top)**

**Expected Range: 4.4 - 6.0 %**

**Causes for Rejection: Improper Labeling**

**Patient Preparation: NONE**

**CPT Code: 83036**

**MDH Procedure Code: 180142**

## H pylori Antigen, Stool

**Performing Laboratory: Microbiology**

**Availability: Daily**

**Specimen Requirement: Stool specimen**

**Expected Range: Negative**

**Causes for Rejection: Improper Labeling, Delay in delivery of specimen**

**Patient Preparation: NONE**

**CPT Code: 87338**

**MDH Procedure Code: 180679**

## Influenza, A&B NAT (RNA)

**Performing Laboratory: Serology**

**Availability: Routine orders - 4 hours. Stat orders within 1 hour**

**Specimen Requirement: Nasal swab**

**Expected Range: Negative**

**Causes for Rejection: Improper Labeling**

**Patient Preparation: NONE**

**CPT Code: 87501**

**MDH Procedure Code: 184603**

## INSULIN

**Performing Laboratory: Chemistry**

**Availability: Routine orders - 4 hours.**

**Specimen Requirement: 1ml serum (Gold Top)**

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**Expected Range:** 3.0 – 19.0 uIU/ML  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** NONE  
**CPT Code:** 83525  
**MDH Procedure Code:** 180149

## IRON

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** 1ml serum (Gold Top)  
**Expected Range:** 40 – 181 mcg/dl  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** *Before 10 am*  
**CPT Code:** 83540 TIBC 83550  
**MDH Procedure Code:** 180066

## KOH Prep

**Performing Laboratory:** Microbiology  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** Swab  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** NONE  
**CPT Code:** 87210  
**MDH Procedure Code:** 180452

## LACTATE

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** 1 ml Plasma (Gray Top)  
**Expected Range:** 0.5 – 2.2 MMOL/L  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** None  
**CPT Code:** 83605  
**MDH Procedure Code:** 180062

## LEAD, CAPILLARY WHOLE BLOOD

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders – 24 Hours*  
**Specimen Requirement:** .5 ml Whole blood (special collection)  
**Expected Range:** < 5 mcg/dl: *Recheck if > 5 mcg/dl*  
**Causes for Rejection:** *Must be capillary whole blood*  
**Patient Preparation:** None  
**CPT Code:** 83655  
**MDH Procedure Code:** 184681

## LDH

**Performing Laboratory:** Chemistry  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)

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**Expected Range:** *Male: 96 - 186 U/L Female: 91 - 180 U/L*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *83615*  
**MDH Procedure Code:** *180037*

## Lipase

**Performing Laboratory:** *Chemistry*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *5 - 57 U/L*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *83690*  
**MDH Procedure Code:** *180038*

## Magnesium

**Performing Laboratory:** *Chemistry*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *1.8 - 2.3 mg/dl*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *83735*  
**MDH Procedure Code:** *180041*

## MONO -Spot

**Performing Laboratory:** *Serology*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Serum (Red Top)*  
**Expected Range:** *Negative*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *86310*  
**MDH Procedure Code:** *184007*

## Platelet Count

**Performing Laboratory:** *Hematology*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 EDTA Whole BI (Lav Top)*  
**Expected Range:** *140 - 400x10<sup>6</sup>/cumm*  
**Cause For Rejection:** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *85590*  
**MDH Procedure Code:** *181004*

## Phosphorus

**Performing Laboratory:** *Chemistry*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *2.2 - 4.4 mg/dl*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *84100*  
**MDH Procedure Code:** *180042*

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## POTASSIUM (K+)

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 1 ml Plasma (Mint Gr Top)*

*Expected Range: 3.5 - 5.1 mmol/L*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 84132*

*MDH Procedure Code: 180243*

## Pregnancy Test

*(Serum ) Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 1 ml Serum (Gold Top)*

*Expected Range: Negative*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 84703*

*MDH Procedure Code: 180044*

## Pregnancy Test

*(Urine) Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 5 ml Urine*

*Expected Range: Negative*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 84703*

*MDH Procedure Code: 184079*

## Prolactin

*Performing Laboratory: Chemistry*

*Availability: Routine orders - 4 hours.*

*Specimen Requirement: 1ml Serum (Gold Top)*

*Expected Range: 2.69 – 13.13 ng/ml*

*Causes for Rejection: Improper Labeling, Hemolysis*

*Patient Preparation: None*

*CPT Code: 84146*

*MDH Procedure Code: 180166*

## Prottime

*Performing Laboratory: Coagulation*

*Availability: Routine orders - 4 hours. Stat orders within 1 hour*

*Specimen Requirement: 1 full blue vacutainer*

*Expected Range: 10.5 - 13.5 sec.*

*Causes for Rejection: Improper Labeling, Hemolysis, Incomplete fill*

*Patient Preparation: None*

*CPT Code: 85610*

*MDH Procedure Code: 184079*

## PSA

*Performing Laboratory: Special Chemistry*

*Availability: Daily*

*Specimen Requirement: 1 ml Serum (Gold Top)*

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**Expected Range:** 0 - 4.0 ng/ml

**Causes for Rejection:** Improper Labeling, Hemolysis

**Patient Preparation:** Draw prior to DRE

**CPT Code:** 84153

**MDH Procedure Code:** 184001

## PTH

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours.

**Specimen Requirement:** 1 ml Serum (Gold Top)

**Expected Range:** 12 – 88 pg/ml

**Causes for Rejection:** Improper Labeling, Hemolysis

**Patient Preparation:** None

**CPT Code:** 83970

**MDH Procedure Code:** 180415

## PTT

**Performing Laboratory:** Coagulation

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 full blue vacutainer

**Expected Range:** 21.0 - 37.2 sec.

**Causes for Rejection:** Improper Labeling, Hemolysis, Incomplete fill

**Patient Preparation:** None

**CPT Code:** 85730

**MDH Procedure Code:** 180214

## Quick Strep

**Performing Laboratory:** Microbiology

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** Throat Swab

**Causes for Rejection:** Improper Labeling, Hemolysis

**Patient Preparation:** None

**CPT Code:** 87430

**MDH Procedure Code:** 184202

## Red Blood Count

**Performing Laboratory:** Hematology

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 EDTA Whole BI (Lav Top)

**Expected Range:** Male: 4.4 - 5.0x10<sup>6</sup>/cumm Female: 3.8 - 5.9x10<sup>6</sup>cu/mm

**Cause For Rejection:** Improper Labeling

**Patient Preparation:** None

**CPT Code:** 85027

**MDH Procedure Code:** 182021

## Respiratory PCR Panel

**Performing Laboratory:** Microbiology

**Availability:** Routine orders - 4 hours. Stat orders within 2 hour

**Specimen Requirement:** Resp Panel kit swab

**Specimen Requirement:** Deliver to lab within 1 hour

**Patient Preparation:** NasoPharyngeal swab collection

**CPT Code:** 87486

**MDH Procedure Code:** 184648

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## Complete Blood Count

**Performing Laboratory:** Hematology

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 EDTA Whole Blood (Lav Top)

**RET %:** 0.42 – 2.23 %

**RET #:** 0.0188 – 0.1086 X10<sup>6</sup>/ul

**MRV:** 96.4 – 122.7 fl

**IRF** 0.26 – 0.54

**Causes for Rejection:** Improper Labeling, Hemolysis, CLOTTING

**Patient Preparation:** None

**CPT Code:** 85046

**MDH Procedure Code:** 181008

## RSV

**Performing Laboratory:** Serology

**Availability:** Routine orders - 4 hours.

**Specimen Requirement:** Nasal Washing

**Expected Range:** Negative

**Cause For Rejection** Improper Labeling

**Patient Preparation:** None

**CPT Code:** 86756

**MDH Procedure Code:** 181011

## RA Titer (Rheum Factor)

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours.

**Specimen Requirement:** 1ml Serum (Gold Top)

**Expected Range:** < 20 IU/ML

**Cause For Rejection** Improper Labeling

**Patient Preparation:** None

**CPT Code:** 86431

**MDH Procedure Code:** 180468

## Sed Rate

**Performing Laboratory:** Hematology

**Availability:** Routine orders - 4 hours.

**Specimen Requirement:** 1 EDTA Whole BI (Lav Top)

**Expected Range:** Male: 0 - 20 mm/hr Female: 0 - 15 mm/hr

**Cause For Rejection** Improper Labeling

**Patient Preparation:** None

**CPT Code:** 85651

**MDH Procedure Code:** 180445

## SGOT (AST)

**Performing Laboratory:** Chemistry

**Availability:** Routine orders - 4 hours. Stat orders within 1 hour

**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)

**Expected Range:** 10 35 U/L

**Causes for Rejection:** Improper Labeling, Hemolysis

**Patient Preparation:** None

**CPT Code:** 84450

**MDH Procedure Code:** 181007

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## Salicylate

**Performing Laboratory:** Chemistry  
**Availability:** Routine orders - 4 hours. Stat orders within 1 hour  
**Specimen Requirement:** 1 ml Serum (Red Top)  
**Expected Range:** Toxic: Greater 300 mg/dl  
**Causes for Rejection:** Improper Labeling, Hemolysis  
**Patient Preparation:** None  
**CPT Code:** 80196  
**MDH Procedure Code:** 180077

## SGPT (ALT)

**Performing Laboratory:** Chemistry  
**Availability:** Routine orders - 4 hours. Stat orders within 1 hour  
**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)  
**Expected Range:** Male: 5 - 45 U/L Female: 5 - 29 U/L  
**Causes for Rejection:** Improper Labeling, Hemolysis  
**Patient Preparation:** None  
**CPT Code:** 84460  
**MDH Procedure Code:** 180052

## Sodium (Na+)

**Performing Laboratory:** Chemistry  
**Availability:** Routine orders - 4 hours. Stat orders within 1 hour  
**Specimen Requirement:** 1 ml Plasma (Mint Gr Top)  
**Expected Range:** 133 - 147 mmol/L  
**Causes for Rejection:** Improper Labeling, Hemolysis  
**Patient Preparation:** None  
**CPT Code:** 84295  
**MDH Procedure Code:** 180053

## Stool FilmArray PCR

**Performing Laboratory:** Microbiology  
**Availability:** Routine orders - 4 hours. Stat orders within 2 hour  
**Specimen Requirement:** Fecal sample / Fecal swab  
**Specimen Requirement:** Deliver to lab within 1 hour  
**Patient Preparation:** Fecal sample / swab collection  
**CPT Code:** 87507  
**MDH Procedure Code:** 184637

## Stool Leuko (WBC)

**Performing Laboratory:** Serology  
**Availability:** Routine orders - 24 hours.  
**Specimen Requirement:** Stool specimen  
**Expected Result:** Negative  
**Causes for Rejection:** Improper Labeling  
**Patient Preparation:** None  
**CPT Code:** 83630  
**MDH Procedure Code:** 184604

## Sex Hormone Binding Globulin (SHBG)

**Performing Laboratory:** Chemistry  
**Availability:** Routine orders - 4 hours.  
**Specimen Requirement:** 1 ml Serum (Gold Top)  
**Expected Range:** 11.0 – 80 nmol/l  
**Causes for Rejection:** Improper Labeling, Hemolysis  
**Patient Preparation:** Before 10 AM.

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**CPT Code: 84270**  
**MDH Procedure Code: 180407**

## Testosterone

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours.**  
**Specimen Requirement: 1 ml Serum (Gold Top)**  
**Expected Range: M 300 – 890 ng/dl**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: Before 10 AM.**  
**CPT Code: 84403**  
**MDH Procedure Code: 180172**

## Total Protein

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours. Stat orders within 1 hour**  
**Specimen Requirement: 1 ml Plasma (Mint Gr Top)**  
**Expected Range: 6.0 - 8.4 g/dl**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: None**  
**CPT Code: 84155**  
**MDH Procedure Code: 180046**

## Theophylline

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours. Stat orders within 1 hour**  
**Specimen Requirement: 1 ml Serum (Red Top)**  
**Therapeutic Range: 10 - 20 mcg/dl**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: None**  
**CPT Code: 80198**  
**MDH Procedure Code: 180063**

## Transferrin

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours.**  
**Specimen Requirement: 1 ml Serum (Gold Top)**  
**Expected Range: 200 – 400 mg/dl**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: Before 10 AM.**  
**CPT Code: 84466**  
**MDH Procedure Code: 184576**

## Triglyceride

**Performing Laboratory: Chemistry**  
**Availability: Routine orders - 4 hours.**  
**Specimen Requirement: 1 ml Plasma (Mint Gr Top)**  
**Expected Range: 35 – 150 mg/dl**  
**Causes for Rejection: Improper Labeling, Hemolysis**  
**Patient Preparation: Fasting**  
**CPT Code: 84478**  
**MDH Procedure Code: 180063**

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## Troponin I

**Performing Laboratory:** *Special Chemistry*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *0.0 - 0.15 ng/ml Critical  $\geq$  4.0 ng/ml*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *84484*  
**MDH Procedure Code:** *180036*

## T4 (Free)

**Performing Laboratory:** *Special Chemistry*  
**Availability:** *Daily*  
**Specimen Requirement:** *1 ml Serum (Gold Top)*  
**Expected Range:** *.38 - 1.90 ng/dl*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *84439*  
**MDH Procedure Code:** *180543*

## TSH

**Performing Laboratory:** *Special Chemistry*  
**Availability:** *Daily*  
**Specimen Requirement:** *1 ml Serum (Gold Top)*  
**Expected Range:** *0.4 - 4.7 mIU/L*  
**Causes for Rejection:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *None*  
**CPT Code:** *84443*  
**MDH Procedure Code:** *180140*

## Uric Acid

**Performing Laboratory:** *Chemistry*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Plasma (Mint Gr Top)*  
**Expected Range:** *Male: 3.5 - 8.1 mg/dl Female: 2.6 - 7.2 mg/dl*  
**Causes for Rejection:** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *84550*  
**MDH Procedure Code:** *180177*

## Vancomycin

**Performing Laboratory:** *Hematology*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Serum (Red Top)*  
**Expected Range:** *See report for expected range - Will vary depending if test is ordered as peak or trough*  
**Cause For Rejection** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *80202*  
**MDH Procedure Code:** *180055*

## Valproic Acid

**Performing Laboratory:** *Special Chemistry*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 ml Serum (Red Top)*  
**Therapeutic Range:** *50 - 100 mcg/dl*

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**Specimen Requirement:** *Improper Labeling, Hemolysis*  
**Patient Preparation:** *Record time of last medication dose*  
**CPT Code:** *80164*  
**MDH Procedure Code:** *180190*

## Vitamin B-12

**Performing Laboratory:** *Chemistry*  
**Availability:** *Routine orders - 4 hours.*  
**Specimen Requirement:** *1ml Serum (Gold Top)*  
**Expected Range:** *180 – 914 pg/ml*  
**Cause For Rejection** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *82607*  
**MDH Procedure Code:** *180180*

## Vitamin D – 25OH

**Performing Laboratory:** *Chemistry*  
**Availability:** *Routine orders - 4 hours.*  
**Specimen Requirement:** *1ml Serum (Gold Top)*  
**Expected Range:** *20 - 80 ng/ml*  
**Cause For Rejection** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *82306*  
**MDH Procedure Code:** *180540*

## White Blood Count

**Performing Laboratory:** *Hematology*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *1 EDTA Whole BI (Lav Top)*  
**Expected Range:** *4.0 - 11.0x10<sup>3</sup>/cumm*  
**Cause For Rejection** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *85027*  
**MDH Procedure Code:** *180344*

## WET Prep

**Performing Laboratory:** *Microbiology*  
**Availability:** *Routine orders - 4 hours. Stat orders within 1 hour*  
**Specimen Requirement:** *Swab*  
**Cause For Rejection** *Improper Labeling*  
**Patient Preparation:** *None*  
**CPT Code:** *87210*  
**MDH Procedure Code:** *181011*