

Effective August 2007

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## NORMAL RANGES –

<b>CBC</b>	<b>ADULT MALE</b>	<b>FEMALE</b>
WBC	3.6 – 11.0 K/UL	3.6 – 11.0
RBC	4.5 – 5.9 M/UL	4.5 – 5.9
HEMOGLOBIN	13.0 – 18.0 G/DL	12.0 – 15.6
HEMATOCRIT	40 – 52 %	36.0 – 46.0
MCV	81 – 97 FL	81 - 93
MCH	26 – 34 PG	26 - 34
MCHC	31 – 37 gm/dl	31 - 37
RDW	11.5 – 15 %	11.5 – 15.0
PLATELET CT	150 – 400 K/UL	140 - 400
PLT VOL	7.4 – 10.4 FL	7.4 – 10.4
NEUTROPHIL %	36 – 66	36 - 75
LYMPHOCYTE %	23 – 43	27 - 47
MONOCYTE %	0.0 – 10	0.0 - 10
EOSINOPHIL %	0 – 5.0	0.0 – 5.0
BASOPHIL %	0 – 1.0	0.0 – 1.0
RETIC	0.4 – 1.9	0.4 – 1.9

## COMPREHENSIVE METABOLIC PROFILE /LIVER PROFILE

SODIUM	135 – 145 MMOL/L	135 - 145
POTASSIUM (OUTREACH)	3.5 – 5.5 MMOL/L	3.5 – 5.5
CHLORIDE	95 – 110 MMOL/L	95 - 110
CO2	19 – 34.MMOL/L	19 - 34
GLUCOSE	70 – 110 MG/DL	70 - 110
BUN	6 – 22 MG/DL	6 - 22
CREATININE	0.6 – 1.3 MG/DL	0.6 – 1.3 MG/DL
CALCIUM	8.4 – 10.2 MG/DL	8.4 – 10.2
TOTAL PROTEIN	5.5 – 8.7 G/DL	5.5 – 8.7
ALBUMIN	3.2 – 5.0 g/dl	3.2 – 5.0
BILI TOTAL	0.1 – 1.2 MG/DL	0.1 – 1.2
BILI DIRECT	0.0 – 0.3 MG/DL	0.0 – 0.3
BILI INDIRECT	0.2 – 1.0 MG/DL	0.2 – 1.0
ALKALINE PHOS	20 – 130 U/L	20 - 130
AST/SGOT	10 – 40 U/L	10 - 40
ALT/SGPT	7 - 55 U/L	7 - 55
AST/ALT RATIO	0.5 – 0.9 RATIO	0.5 – 0.9
AMYLASE	25 – 115 U/L	25 – 115 U/L
LIPASE	114 – 286 U/L	114 – 286 U/L
CRP	0 – 0.9 MG/DL	0 – 0.9 MG/DL
PREALBUMIN	18.0 – 35.7 mg/dL	18.0 – 35.7 mg/dL

Revised 8-07

MAGNESIUM	1.8 – 2.4 mg/dL	1.8 – 2.4 mg/Dl
LDH	100 – 200 Units /L	100 – 200 Units/L
PHOSPHOROUS	2.3 – 5.0 mg/dL	2.3 – 5.0 mg/dL
LACTIC ACID	0.4 – 2.0 mmol/L	0.4 – 2.0 mmol/L
GGTP	15 – 85 Units/L	5-55 Units/L

#### **IRON PROFILE**

IRON	35 – 150 UG/DL	35 - 150
TIBC	260 – 400 UG/DL	260 - 445
SAT TRANS	20 – 55 %	20 - 55
FERRITIN	7 – 244 NG/ML	7 - 244

#### **THYROID TESTS**

TSH	0.4 – 5.0 UIU/ML	0.4 – 5.0
T4 FREE	0.5 – 1.4 NG/DL	0.5 – 1.4
T3 TOTAL	45 - 137 NG/DL	45 - 137

#### **LIPID PROFILE**

TRIGLYCERIDES	25 – 200 MG/DL
CHOLESTEROL	100 – 200 MG/DL
HDL	35 – 150 MG/DL
LDL	0 – 130 MG/DL
CHOL/HDL RATIO	1.5 – 5.6

#### **DRUG OF ABUSE SCREENS (URINE) DETECTION CUT OFF VALUES**

AMPHETAMINE	1000 CUT OFF	NONE DETECTED IS NORMAL
BARBITUATES	300 CUT OFF	NONE DETECTED IS NORMAL
BENZODIAEPINE	300 CUT OFF	NONE DETECTED IS NORMAL
CANNABINOIDS	50 CUT OFF	NONE DETECTED IS NORMAL
COCAINE	300 CUT OFF	NONE DETECTED IS NORMAL
METHADONE	300 CUT OFF	NONE DETECTED IS NORMAL
METHAQUALONE	300 CUT OFF	NONE DETECTED IS NORMAL
OPIATES	2000 CUT OFF	NONE DETECTED IS NORMAL
PHENCYCLIDINE	25 CUT OFF	NONE DETECTED IS NORMAL
PROPOXPHENE	300 CUT OFF	NONE DETECTED IS NORMAL

#### **URINALYSIS (MALE OR FEMALE)**

COLOR	YELLOW
CHARACTER	CLEAR
SPECIFIC GRAVITY	1.008 – 1.022
PH	5.0 - 7.0
PROTEIN	NEGATIVE
URINE GLUCOSE	NEGATIVE
KETONE BODIES	NEGATIVE
BILIRUBIN	NEGATIVE
UROBILINOGEN	NORMAL
OCCULT BLOOD	NEGATIVE
NITRITE	NEGATIVE
LEUKOCYTE EST	NEGATIVE

**MICROSCOPIC EXAM****FEMALE**

WBC 0 – 5 HPF  
RBC 0 – 3 HPF  
EPITH CELLS 0 – 5 HPF

**CARDIAC MARKERS**

LDL 0 – 130 MG/DL  
CK 21 – 215 U/L  
CKMB 0 – 5.6 NG/ML  
TROPONIN I 0 – 0.59 NG/ML  
LDH 100 – 200 U/L  
MYOGLOBIN 16.3 – 96.5 ng/ml 9.0 – 82.5 ng/ml  
HAPTOGLOBIN 30 – 200 mg/dL

**HCG REFERENCE RANGES:**

Non-Pregnant Reference Range:

0 - 2.9 MIU/ML

Pregnant Reference Ranges:

0 - 2 weeks 0 - 500 MIU/ML  
2 - 3 weeks 100 - 1000 MIU/ML  
3 - 4 weeks 500 - 6000 MIU/ML  
1 - 3 months 5000 - 200,000 MIU/ML  
2nd trimester 3000 - 50,000 MIU/ML  
3rd trimester 1000 - 50,000 MIU/ML

**COAGULATION**

PT Mean used to calculate INR 10.5  
PTT 25.0 – 35.0 SECONDS  
INR 1.0

**HgbA1C Male or Female**

4.6 to 6.5 %

**THEREAUPEUTIC DRUGS**

PHENOBARBITOL 15 – 45 MCG/ML

**URINE CHEMISTRY**

CREATININE URINE RANDON No Reference range is Defined  
CREATININE 24 HOUR URINE  
MALE: 0.6 – 2.5 g/24 HOUR FEMALE: 0.6 – 1.5 g/24 HOUR

**HEPATITIS B**

Negative

**HEPATITIS C**

Negative

**HIV SCREEN**

Non-reactive