

TEST	SEX/AGE	NORMAL RANGE
ALBUMIN	> 2 YR	3.4 - 5.0 GM/DL
	7 DAYS - 2 YR	2.6 - 3.6 GM/DL
	0 - 7 DAYS	3.0 - 5.0 GM/DL
ALKALINE PHOSPHATASE	>19 YR	20 - 120 U/L
	15 - 19 YR	30 - 225 U/L
	12 - 15 YR	60 - 500 U/L
	2 - 12 YR	60 - 415 U/L
	7 DAYS - 2 YR	60 - 270 U/L
	0 - 7 DAYS	40 - 300 U/L
ALT		<46 U/L
AMMONIA		9 - 35 µmol/l
AMYLASE		28 - 100 U/L
ANA		NEGATIVE
AST		<45 U/L
B12, SERUM		180 - 914 PG/ML
BILIRUBIN, TOTAL	> 15 DAYS	<1.3 MG/DL
	14 DAYS - 15 DAYS	0.0 - 12.0 MG/DL
	2 DAYS - 14 DAYS	0.0 - 8.0 MG/DL
	0 - 2 DAYS	0.0 - 6.0 MG/DL
BILIRUBIN, DIRECT	>15 DAYS	0.0 - 0.3 MG/DL
	0 - 15 DAYS	<1.2 MG/DL
BUN		7 - 25 MG/DL
CALCIUM	>2 YR	8.4 - 10.3 MG/DL
	7 DAYS - 2 YR	9.0 - 11.0 MG/DL
	0 - 7 DAYS	7.2 - 12.0 MG/DL
CEA	SMOKERS	<3.1 NG/ML
	NON-SMOKERS	<5.0 NG/ML
CHLORIDE		96 - 110 MMOL/L
CHOLESTEROL		<200 MG/DL
CO2		24 - 32 MMOL/L
CORTISOL	AM	6.0 - 26.0 UG/DL
	PM	3.0 - 16.0 UG/ML

TEST	SEX/AGE	NORMAL RANGE
CPK	FEMALE >2 YR	<190 U/L
	FEMALE 7D - 2 YR	<251 U/L
	FEMALE 0 - 2 YR	<351 U/L
	MALE >2 YR	<230 U/L
	MALE 7D - 2 YR	<251 U/L
	MALE 0 - 2 YR	<351 U/L
CREATININE	FEMALE ≥ 18 YR	0.50 - 1.10 MG/DL
	FEMALE 12 - 17YR	0.50 - 1.00 MG/DL
	FEMALE 0 - 11YR	0.40 - 0.90 MG/DL
	MALE ≥ 18 YR	0.70 - 1.40 MG/DL
	MALE 12 - 17YR	0.50 - 1.10 MG/DL
	MALE 0 - 11YR	0.40 - 0.90 MG/DL
CREATININE CLEARANCE	MALE	85 - 235 ML/MIN
	FEMALE	75 - 115 ML/MIN
DIGOXIN		0.5 - 1.5 NG/ML
		TOXIC >2.0ML
FERRITIN, SERUM	≥11 YR / MALE	20.0 - 300.0 NG/ML
	6 - 10 YR / MALE	6.0 - 320.0 NG/ML
	1 - 5 YR / MALE	6.0 - 60.0 NG/ML
	7 MONTH - <1 YR / MALE	6.0 - 80.0 NG/ML
	1 - 6 MONTH / MALE	6.0 - 410.0
	0 - < 1 MONTH / MALE	6.0 - 400.0
	≥50 YR / FEMALE	20.0 - 210.0 NG/ML
	11 - 49 YR / FEMALE	10.0 - 150.0 NG/ML
	6 - 10 YR / FEMALE	6.0 - 70.0 NG/ML
	1 - 5 YR / FEMALE	6.0 - 60.0 NG/ML
	7 MONTH - <1 YR / FEMALE	6.0 - 45.0 NG/ML
	1 - 6 MONTH / FEMALE	6.0 - 340.0 NG/ML
0 - <1 MTH / FEMALE	6.0 - 515.0 NG/ML	
FOLATE, SERUM		>3.9 NG/ML
FREE T4	FEMALE 0 - 3 DA	0.60 - 1.90 NG/DL
	FEMALE 4 DA - 30 DA	0.60 - 1.90 NG/DL
	FEMALE 31 DA - <1 YR	0.60 - 1.80 NG/DL
	FEMALE 1 YR - 5 YR	0.60 - 1.70 NG/DL
	FEMALE 6 YR - 10 YR	0.60 - 1.60 NG/DL
	FEMALE 11 YR - 15 YR	0.60 - 1.50 NG/DL
	FEMALE 16 YR - 17 YR	0.60 - 1.50 NG/DL
	FEMALE ≥18 YR	0.60 - 1.15 NG/DL
	MALE 0 - 3 DA	0.60 - 2.80 NG/DL
	MALE 4 DA - 30 DA	0.50 - 2.30 NG/DL
	MALE 31 DA - <1 YR	0.60 - 2.00 NG/DL
	MALE 1 YR - 5 YR	0.60 - 1.60 NG/DL
	MALE 6 YR - 10 YR	0.60 - 1.70 NG/DL
	MALE 11 YR - 15 YR	0.60 - 1.50 NG/DL
	MALE 16 YR - 17 YR	0.60 - 1.50 NG/DL
MALE ≥18 YR	0.60 - 1.15 NG/DL	

TEST	SEX/AGE	NORMAL RANGE
FSH	PRE-PUBERTY CHILD	1.0 - 8.0 MIU/ML
	FOLLICULAR PHASE/FEMALE	1.5 - 12.0 MIU/ML
	MID-CYCLE/FEMALE	5.0 - 22.0 MIU/ML
	LUTEAL PHASE/FEMALE	1.0 - 10.0 MIU/ML
	POST-MENOPAUSAL/FEMALE	25.0 - 110.0 MIU/ML
	MALE	1.5 - 15.0 MIU/ML
GFR, CALCULATED	≥ 18 YR	59 MI/MIN
GLUCOSE	≥ 15 DAYS	65 - 99 MG/DL
	0 - 15 DAYS	30 - 90 MG/DL
HCG QUANT, SERUM		<5 MIU/ML
HDL		40 - 59 MG/DL
HEMOGLOBIN A1C EST AVG GLUCOSE	MALE AND FEMALE	4.7 - 5.6 %
	MALE AND FEMALE	<115 MG/DL
IRON, SERUM	MALE	50 - 170 UG/DL
	FEMALE	40 - 160 UG/DL
LDLCH	≥20 YR	<130 MG/DL
	0 - 19 YR	<110 MG/DL
LH	PRE-PUBERTY CHILD	1.0 - 6.0 MIU/ML
	FOLLICULAR PHASE/FEMALE	1.0 - 18.0 MIU/ML
	MID-CYCLE/FEMALE	24.0 - 105.0 MIU/ML
	LUTEAL PHASE/FEMALE	0.4 - 20.0 MIU/ML
	POST-MENOPAUSAL/FEMALE	15.0 - 62.0 MIU/ML
	MALE	2.0 - 12.0 MIU/ML
PHOSPHORUS	>12 YR	2.5 - 4.7 MG/DL
	2 yr - 12 YR	3.5 - 5.5 MG/DL
	7days - 2 YR	4.5 - 6.8 MG/DL
	0 - 7days	4.0 - 9.0 MG/DL
POTASSIUM (K)		3.6 - 5.2 MMOL/L
PROGESTERONE	FOLLICULAR PHASE/FEMALE	1.0 - 1.5 MIU/ML
	LUTEAL PHASE/FEMALE	2.5 - 28.0 MIU/ML
	MID-LUTEAL PHASE/FEMALE	5.7 - 28.0 MIU/ML
	>60 YEARS/FEMALE	0.0 - 0.2 MIU/ML
	PREGNANT 1ST TRIMESTER	9.0 - 47.0 MIU/ML
	PREGNANT 2ND TRIMESTER	17.0 - 146.0 MIU/ML
	PREGNANT 3RD TRIMESTER	55.0 - 255.0 MIU/ML
	MALE	0.0 - 0.4 MIU/ML
PROLACTIN	FEMALE	1.0 - 24.0 NG/ML
	MALE	1.0 - 18.0 NG/ML

TEST	SEX/AGE	NORMAL RANGE
PSA		<4.1 NG/ML
RUBELLA IGG	IMMUNITY	>15.0 IU/ML
	EQUIVOCAL	10.0 - 15.0 IU/ML
	NON-IMMUNE	<10.0 IU/ML
SODIUM (NA)		135 - 146 MMOL/L
TESTOSTERONE	FEMALE	250 - 425 NG/DL
	MALE	175 - 781 NG/DL
TOTAL PROTEIN		6.0 - 8.0 GM/DL
TOXOPLASMA IGG	NON-REACTIVE	<4.0 IU/ML
	EQUIVOCAL	4.0 - 6.0 U/ML
	REACTIVE	>6.0 IU/ML
TOXOPLASMA IGM	NON-REACTIVE	<0.8 IU/ML
	EQUIVOCAL	0.8 - 1.0 IU/ML
	REACTIVE	>1.0 IU/ML
TRANSFERRIN	≥17 YR	200 - 360 CHG / HR
	16 YR	134 - 252 CHG/HR
	15 YR	139 - 223 CHG/HR
	14 YR	155 - 216 CHG/HR
	13 YR	85 - 236 CHG/HR
	12 YR	153 - 254 CHG/HR
	10 - 11 YR	155 - 233 CHG/HR
	8 - 9 YR	161 - 232 CHG/HR
	6 - 7 YR	155 - 279 CHG/HR
	5 YR	178 - 272 CHG/HR
	4 YR	162 - 263 CHG/HR
	3 YR	158 - 245 CHG/HR
	2 YR	139 - 273 CHG/HR
	16 - 23 MONTHS	160 - 265 CHG/HR
	10 - 15 MONTHS	173 - 264 CHG/HR
	6 - 9 MONTHS	169 - 233 CHG/HR
	3 - 5 MONTHS	99 - 207 CHG/HR
42 DAYS TO 2 MONTHS	40 - 242 CHG/HR	
0 - 1 MONTH	40 - 242 CHG/HR	
TRIGLYCERIDES		<150 MG/DL
TROPONIN		<0.04 NG/ML
TSH	FEMALE 0 - 1 M	0.72 - 13.10 UIU/ML
	FEMALE 1M - 6M	0.46 - 8.10 UIU/ML
	FEMALE 6M - 11Y	0.36 - 5.80 UIU/ML
	FEMALE >11	0.50 - 5.00 UIU/ML
	MALE 0 - 1 M	0.52 - 16.00 UIU/ML
	MALE 1M - 6M	0.55 - 7.10 UIU/ML
	MALE 6M - 11Y	0.37 - 6.00 UIU/ML
	MALE >11Y	0.50 - 5.00 UIU/ML

TEST	SEX/AGE	NORMAL RANGE
URIC ACID	FEMALE >12Y	2.5 – 6.5 MG/DL
	FEMALE 0 –12Y	2.0 – 8.0 MG/DL
	MALE >12Y	3.5 – 7.5 MG/DL
	MALE 7 D – 12Y	2.5 – 7.5 MG/DL
	MALE 0 – 7 D	2.0 – 8.0 MG/DL
MOLECULAR		
CD4 COUNT	0 – 7 MONTHS	2800 – 3900 /MM ³
CD4 COUNT	7M – 13M	2600 – 3500/MM ³
CD4 COUNT	13M – 19M	2300 – 2900/MM ³
CD4 COUNT	19M – 25M	1900 – 2500/MM ³
CD4 COUNT	25M – 31M	1500 – 2200/MM ³
CD4 COUNT	31M – 3Y	1200 – 2000/MM ³
CD4 COUNT	3Y – 18Y	560 – 2700/MM ³
CD4 COUNT	18Y – 100Y	228 - 2290/MM ³
CD4 %	0 –7 MONTHS	50 – 57 %
CD4 %	7M – 13M	49 – 55%
CD4 %	13M – 19M	46 – 51%
CD4 %	19M – 25M	42 – 48%
CD4 %	25M – 31M	38 – 46%
CD4 %	31M – 3Y	33 – 44%
CD4 %	3Y – 18Y	27 – 57%
CD4 %	18Y – 100Y	37 - 63%
CD8 COUNT	0 – 3Y	350 – 2500 /MM ³
	3 – 18Y	330 – 1400/MM ³
	18 – 100Y	124 – 1099/MM ³
CD8%	0 – 3Y	8 – 31 %
	3 – 18Y	14 – 34%
	18 – 100Y	12-37%
COAGULATION		
D-DIMER, QUANTITATIVE		<231 NG/ML DDU
FIBRINOGEN		200 - 600 MG/DL
PT		9.5 - 12.5 SECONDS
INR		0.9 - 1.2
PTT		24.0 - 36.0 SECONDS
HEMATOLOGY		
CBC		
HEMOGLOBIN	FEMALE >12	12.0 – 16.0 GM/DL
	FEMALE 6-12Y	11.5 – 15.5 GM/DL
	FEMALE 1-6	9.0 – 14.0 GM/DL
	FEMALE 2M – 1Y	9.0 – 14.0 GM/DL
	FEMALE 0 – 2M	14.0 – 20.0 GM/DL
	MALE >18	13.5 – 17.5 GM/DL
	MALE 12Y – 18Y	13.0 – 16.0 GM/DL

TEST	SEX/AGE	NORMAL RANGE
	MALE 6 – 12	11.5 – 15.5 GM/DL
	MALE 1 – 6	9.0 – 14.0 GM/DL
	MALE 2M – 1Y	9.0 – 14.0 GM/DL
	MALE 0 – 2M	14.0 – 20.0 GM/DL
HEMATOCRIT	FEMALE >12	35 – 46 %
	FEMALE >6-12	35 – 45 %
	FEMALE 2 – 6	34 – 42 %
	FEMALE 6M-2	33 – 43 %
	FEMALE 3M - 6M	31 – 43 %
	FEMALE 0 – 3M	42 – 63 %
	MALE >12	40 – 51 %
	MALE 6 – 12	36 – 51 %
	MALE 2 –6	34 – 42 %
	MALES 6M – 2	33 – 43 %
	MALES 3M – 6M	31 – 43 %
	MALES 0 – 3M	42 – 63 %
	WBC COUNT	>16Y
8-16Y		4.5 – 13.5 10 ³ /UL
6-8Y		5.0 – 14.5 10 ³ /UL
4 – 6Y		5.0 – 15.5 10 ³ /UL
2 – 4Y		6.0 – 17.0 10 ³ /UL
6M – 2Y		6.0 – 17.5 10 ³ /UL
1M – 6M		5.0 – 19.5 10 ³ /UL
14D 1M		5.0 – 21.0 10 ³ /UL
0 – 14D		9.0 – 30.0 10 ³ /UL
RBC COUNT	FEMALE >18	4.0 – 5.2 106/UL
	FEMALE 12 – 18	4.1 – 5.2 106/UL
	FEMALE 6 – 12	4.0 – 5.2 106/UL
	FEMALE 2 – 6	3.9 – 5.3 106/UL
	FEMALE 6M – 2Y	3.7 – 5.3 106/UL
	FEMALE 2M – 6M	3.1 – 4.5 106/UL
	FEMALE 1M – 2M	2.7 – 4.9 106/UL
	FEMALE 14D – 1M	3.0 – 5.4 106/UL
	FEMALE 0 – 14D	3.9 – 6.3 106/UL
	MALE >18	4.5 – 5.9 106/UL
	MALE 12 – 18	4.4 – 5.3 106/UL
	MALE 6 – 12	4.0 – 5.2 106/UL
	MALE 2 – 6	3.9 – 5.3 106/UL
	MALE 6M – 2	3.7 – 5.3 106/UL
	MALE 2M – 6M	3.1 – 4.5 106/UL
	MALE 1M – 2M	2.7 – 4.9 106/UL
	MALE 14D – 1M	3.0 – 5.4 106/UL
	MALE 0 – 14D	3.9 – 6.3 106/UL
	MCV	>18
12 – 18		78 – 98 FL
6 – 12		77 – 95 FL
2 – 6		75 – 87 FL
6M – 2Y		70 – 86 FL
3M – 6M		74 – 108 FL
1M – 3M		77 – 115 FL
14D – 1M		86 – 124 FL
0 – 14D		95 – 121 FL

TEST	SEX/AGE	NORMAL RANGE
MCH	>18	26 – 34 PG
	12 – 18	25 – 35 PG
	6 – 12	25 – 33 PG
	2 – 6	24 – 30 PG
	6M – 2Y	23 – 31 PG
	2M – 6M	25 – 35 PG
	14D – 2M	23 – 34 PG
	0 – 14D	31 – 37 PG
MCHC	>2	31 – 37 PG
	2M – 2	30 – 36 PG
	14D – 2M	29 – 37 PG
	0 – 14D	30 – 36 PG
RDW		11.5 – 14.5 %
PLATELET COUNT		130 – 400 103/UL
DIFFERENTIAL		
ABS LYMPHOCYTES	>16	1.1 – 5.0 103/UL
	10 – 16	1.1 – 5.9 103/UL
	8 – 10	1.1 – 6.8 103/UL
	6 – 8	1.4 – 8.1 103/UL
	4 – 6	1.4 – 8.7 103/UL
	2 – 4	1.5 – 9.3 103/UL
	6M – 2Y	2.3 – 12.8 103/UL
	0 – 6M	2.7 – 13.1 103/UL
ABS MONOCYTES	>12	0.2 – 1.1 103/UL
	6 – 12	0.2 – 1.3 103/UL
	2 – 6	0.2 – 1.5 103/UL
	6M – 2	0.2 – 1.7 103/UL
	0 – 6M	0.2 – 2.0 103/UL
ABS NEUTROPHILS	>12	1.8 – 8.0 103/UL
	6 – 12	1.7 – 8.2 103/UL
	2 – 6	1.2 – 8.0 103/UL
	6M – 2Y	0.8 – 6.8 103/UL
	0 – 6M	0.8 – 7.3 103/UL
ABS EOSINOPHILS		0.0 – 0.6 103/UL
ABS BASOPHILS		0.0 – 0.2 103/UL
SED RATE	FEMALE >85	0 – 42 MM/HR
	FEMALE 50 – 85	0 – 30 MM/HR
	FEMALE 0 – 50	0 – 20 MM/HR
	MALE >85	0 – 30 MM/HR
	MALE 50 – 85	0 – 20 MM/HR
	MALE 0 – 50	0 – 15 MM/HR

TEST	SEX/AGE	NORMAL RANGE
RETIC COUNT	FEMALE	0.2 - 0.08 10 ⁶ /UI
	MALE	0.2 - 0.09 10 ⁶ /UI
RETIC %		0.5 - 1.5%
URINALYSIS		
COLOR		YELLOW
APPEARANCE		CLEAR
SPECIFIC GRAVITY		1.005 - 1.030
PH		4.5 - 8.0
PROTEIN		NEG
GLUCOSE		NEG
KETONES		NEG
BILIRUBIN		NEG
BLOOD		NEG
URINE WBC		0 - 5 / HPF
URINE RBC		0 - 2 / HPF
NITRITES		NEG
UROBILINOGEN		NEG
LEUKOCYTES		NEG
URINE PREGNANCY SCREEN		NEGATIVE