

Chemistry, General

TEST	AGE/SEX	UNITS	REFERENCE RANGES
Albumin 17/ALB	4 Day	g/dl	2.8 - 4.2
	14 Yrs	g/dl	3.8 - 5.4
	Adult	g/dl	3.5 - 5.0
Alkaline Phosphatase 908/ALK	Male		
	30 Days	IU/L	105 - 235
	1 Yr	IU/L	82 - 383
	3 Yrs	IU/L	104 - 345
	6 Yrs	IU/L	93 - 309
	9 Yrs	IU/L	105 - 235
	12 Yrs	IU/L	105 - 236
	15 Yrs	IU/L	105 - 237
	18 Yrs	IU/L	52 - 171
	Adult	IU/L	34 - 104
	Female		
	30 Days	IU/L	48 - 406
	1 Yr	IU/L	124 - 341
	3 Yrs	IU/L	108 - 317
	6 Yrs	IU/L	96 - 297
	9 Yrs	IU/L	69 - 325
	12 Yrs	IU/L	51 - 332
	15 Yrs	IU/L	50 - 162
	18 Yrs	IU/L	47 - 119
Adult	IU/L	34 - 104	
ALT 254/ALT	18 Yrs	IU/L	5 - 30
	Adult	IU/L	10 - 40
Ammonia 27/AMM	14 Days	µmol/L	56 - 92
	1 Yr	µmol/L	21 - 74
	15 Yrs	µmol/L	21 - 50
	Adult	µmol/L	11 - 35
Amylase 31/AMY	15 Yrs	IU/L	25 - 125
	Adult	IU/L	25 - 125
Anion Gap	Adult		6 - 16

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AST	910/AST	7 Days	IU/L	26 - 98
		30 Days	IU/L	16 - 67
		3 Yrs	IU/L	16 - 60
		6 Yrs	IU/L	3 - 48
		9 Yrs	IU/L	3 - 42
		18 Yrs	IU/L	3 - 39
		Adult	IU/L	10 - 42
		Bilirubin, Direct	47/BID	14 Days
		Adult	mg/dl	< 0.2
Bilirubin, Indirect		Adult	mg/dl	< 0.9
Bilirubin, Neonatal	45/BIN	1 Day	mg/dl	< 8.0
		2 Days	mg/dl	3.4 - 12.0
		2 Weeks	mg/dl	1.5 - 12.0
Bilirubin, Total	46/BIT	3 Days	mg/dl	2.0 - 6.0
		6 Days	mg/dl	6.0 - 7.0
		28 Days	mg/dl	4.0 - 12.0
		Adult	mg/dl	< 1.5
BUN	52/BUN	1 Yr	mg/dl	4 - 16
		18 Yrs	mg/dl	5 - 18
		Adult	mg/dl	7 - 25
BUN / Creat Ratio		Adult		10 - 20
Calcium	56/CA	10 Days	mg/dl	7.6 - 10.4
		2 Yrs	mg/dl	9.0 - 11.0
		12 Yrs	mg/dl	8.8 - 10.8
		Adult	mg/dl	8.5 - 10.5
Chloride	67/CL	Adult	mmol/L	98 - 110
Cholesterol	71/CHT	Adult	mg/dl	110 - 199
Cholesterol / HDL Ratio		Adult		< 4.5
CK, Total	80/CK	MALE	IU/L	38 - 174
		FEMALE	IU/L	26 - 140

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CO₂, Total 73/CO₂	15 Yrs	mmol/L	18 - 26	
	Adult	mmol/L	22 - 32	
Creatinine 82/CRE	2 yrs	mg/dl	0.3 - 0.6	
	6 yrs	mg/dl	0.4 - 0.7	
	9 yrs	mg/dl	0.4 - 0.9	
	11 yrs	mg/dl	0.5 - 1.0	
	13 yrs	mg/dl	0.5 - 1.1	
	15 yrs	mg/dl	0.5 - 1.2	
	Adult	mg/dl	0.5 - 1.3	
	C - Reactive Protein 674/CRP	Adult	mg/dl	< 0.5
Gamma GT 114/GGT	Male			
	1 Mo	IU/L	23 - 174	
	1-3 Mo	IU/L	16 - 147	
	4-6 Mo	IU/L	5 - 93	
	7-12 Mo	IU/L	8 - 38	
	Adult	IU/L	7 - 50	
	Female			
	1 Mo	IU/L	16 - 140	
	1 - 3 Mo	IU/L	16 - 140	
	4 - 6 Mo	IU/L	13 - 123	
	7 - 12 Mo	IU/L	8 - 59	
	Adult	IU/L	7 - 50	
	Glucose Fasting 109/GLU	28 Days	mg/dl	60 - 90
		18 Yrs	mg/dl	65 - 100
Adult		mg/dl	65 - 100	
Glucose Random 7250/GLR	Adult	mg/dl	65 - 140	
HDL Cholesterol 3631/HDL	Adult	mg/dl	>40	
Iron 1144/FE	2 Mo	ug/dl	100 - 250	
	2 Yrs	ug/dl	40 - 100	
	12 Yrs	ug/dl	50 - 120	
	Adult	ug/dl	40 - 150	

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Iron Binding Capacity (TIBC) 100/IBC	4 Mo	ug/dl	50 - 170	
	10 Yrs	ug/dl	170 - 270	
	18 Yrs	ug/dl	245 - 360	
	Adult	ug/dl	245 - 400	
Iron, % Saturation	Adult	%	20 - 55	
Lactate 149/LAC	Adult	mmol/L	< 2.5	
LD, Total 909/LDH	Male			
	30 Days	U/L	178 - 629	
	1-12 Mo	U/L	129 - 367	
	1-3 Yrs	U/L	164 - 286	
	4-6 Yrs	U/L	155 - 280	
	7-9 Yrs	U/L	141 - 237	
	10-13 Yrs	U/L	141 - 231	
	14-19 Yrs	U/L	117 - 217	
	Adult	U/L	100 - 225	
	Female			
	30 Days	U/L	187 - 600	
	1-12 Mo	U/L	152 - 327	
	1-3 Yrs	U/L	164 - 286	
	4-6 Yrs	U/L	155 - 280	
	7-9 Yrs	U/L	141 - 237	
	10-13 Yrs	U/L	129 - 222	
	14-19 Yrs	U/L	117 - 217	
	Adult	U/L	100 - 225	
	LDL Cholesterol 5665/LDL	Adult	mg/dl	< 130
	Lipase 157/LIP	Adult	U/L	22 - 51
Magnesium 175/MG	1-4 Mo	mg/dl	1.5 - 2.2	
	5 Mo-6 Yrs	mg/dl	1.7 - 2.3	
	6-12 Yrs	mg/dl	1.7 - 2.1	
	12-20 Yrs	mg/dl	1.7 - 2.2	
	Adult	mg/dl	1.8 - 2.6	

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TEST	AGE/SEX	UNITS	REFERENCE RANGES
Phosphorus 205/PO4	10 Days	mg/dl	4.5 - 9.0
	1 Yr	mg/dl	4.5 - 6.5
	12 Yrs	mg/dl	3.4 - 5.9
	Adult	mg/dl	2.5 - 4.7
Potassium 211/K	1 Week	mmol/L	3.7 - 5.7
	1 Yr	mmol/L	4.1 - 5.3
	12 Yrs	mmol/L	3.5 - 5.5
	Adult	mmol/L	3.5 - 5.1
Protein, Total 219/TP	1 Week	g/dl	4.4 - 7.6
	1 Yr	g/dl	5.1 - 7.3
	2 Yrs	g/dl	5.6 - 7.5
	Adult	g/dl	6.0 - 8.0
GLOBULIN	Adult	g/dl	2.0 - 3.7
A/G RATIO	Adult		1.0 - 2.0
Sodium 233/NA	10 Yrs	mmol/L	135 - 143
	Adult	mmol/L	135 - 145
Triglyceride 256/TRG	Adult	mg/dl	40 - 149
Uric Acid 262/URA	Male		
	1 Yr	mg/dl	2.0 - 5.5
	18 Yrs	mg/dl	3.5 - 7.3
	Adult	mg/dl	4.8 - 8.7
	Female		
	1 Yr	mg/dl	2.0 - 5.5
	18 Yrs	mg/dl	3.5 - 7.3
Adult	mg/dl	2.6 - 7.2	

Chemistry, Immunology

TEST	AGE/SEX	UNITS	REFERENCE RANGES
Estradiol	288/ESD		
	E2 Female		
	Follicular	pg/ml	<12 – 178
	Ovulatory Phase (Mid-Cycle)	pg/ml	48 - 388
	Ovulatory Phase (Luteal)	pg/ml	31 – 247
	Ovulatory Phase (Pregnant)	pg/ml	12 – 3400
	Ovulatory Phase (Post Menopausal)	pg/ml	<12 - 46
	Male	pg/ml	< 12 – 45
	Children	pg/ml	< 12 - 36
FSH (Follicle Stimulating Hormone)	Female		
	104/FSH		
	Follicular	mIU/ml	3 – 11
	Ovulatory Peak	mIU/ml	5 – 20
	Luteal	mIU/ml	2 – 8
	Post Menopausal	mIU/ml	49 – 144
	Male	mIU/ml	2 – 11

Chemistry, Immunology

TEST	AGE/SEX	UNITS	REFERENCE RANGES
HCG, Beta, Quant 690/HCG			
**Expected Value for Healthy Non-pregnant, Pre-menopausal women: <5 mIU/ml **Expected Value for Healthy Post-menopausal women (>55 years): <14 mIU/ml			
For Gestational Assessment: Wks Post *LMP	WKS POST LMP	UNITS	REFERENCE RANGE
*LMP (Last Menstrual Period)	3-4 weeks	mIU/ml	6 – 750
	4-5 weeks	mIU/ml	217 – 7,138
	5-6 weeks	mIU/ml	158 – 31,795
	6-7 weeks	mIU/ml	3,697 – 163,563
	7-8 weeks	mIU/ml	32,065 – 149,571
	8-9 weeks	mIU/ml	63,803 – 151,410
	9-10 weeks	mIU/ml	45,509 – 186,977
	10-12 weeks	mIU/ml	27,832 – 210,612
	12-14 weeks	mIU/ml	13,950 – 62,530
	14-15 weeks	mIU/ml	12,039 – 70,971
	15-16 weeks	mIU/ml	9,040 – 56,451
	16-19 weeks	mIU/ml	8,099 – 58,176
IGA (Immunoglobulin A) 1141/IGA	Newborn-1 mo	mg/dl	1 – 4
	2 mos	mg/dl	2 – 50
	6 mos	mg/dl	4 - 80
	10 mos	mg/dl	8 – 80
	1 yr	mg/dl	15 – 90
	2 yrs	mg/dl	15 – 110
	4 yrs	mg/dl	18 – 150
	6 yrs	mg/dl	25 – 160
	9 yrs	mg/dl	35 – 200
	16 yrs	mg/dl	45 – 250
	Adult	mg/dl	80 – 450

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TEST	AGE/SEX	UNITS	REFERENCE RANGES
IGG (Immuno Globulin G) 1140/IGG	Newborn-1 mo	mg/dl	650 – 1,600
	2 mos	mg/dl	250 – 900
	6 mos	mg/dl	200 - 700
	10 mos	mg/dl	220 – 900
	1 yr	mg/dl	290 – 1,070
	4 yrs	mg/dl	240 – 1,200
	7 yrs	mg/dl	460 – 1,240
	Adult	mg/dl	750 – 1,550
IGM (Immuno Globulin M) 143/IGM	Newborn-1 mo	mg/dl	0 – 22
	2 mos	mg/dl	20 – 80
	6 mos	mg/dl	25 – 100
	1 yr	mg/dl	35 – 150
	13 yrs	mg/dl	45 – 250
	> 13 yrs	mg/dl	45 – 300
	Progesterone 257/PRG	Female	
Follicular		ng/ml	0 – 2
Luteal		ng/ml	1 – 21
Postmenopausal		ng/ml	0 – 1.5
Oral Contraceptives		ng/ml	0 – 0.5
Pregnant Female			
1 st Trimester		ng/ml	7 - 43
2 nd Trimester		ng/ml	21 – 108
3 rd Trimester		ng/ml	53 – 293
Male		ng/ml	0 – 2
Prolactin 215/PRL	Female	ng/ml	4 – 30
	Male	ng/ml	3 - 17