

ALLINA MEDICAL LABORATORIES

CHEMISTRY REFERENCE RANGES

			Reference Range			
TEST	Age/Sex	Units	Old	New	Critical	
Albumin	4 Day	g/dl	2.7 - 4.8	2.8 - 4.2		
	14 Yrs	g/dl	3.1 - 4.8	3.8 - 5.4		
	Adult	g/dl	3.5 - 4.8	3.5 - 5.0		
Alkaline Phosphatase	Male					
	30 Days	IU/L		105 - 235		
	1 Year	IU/L	126 - 668	82 - 383		
	3 Years	IU/L	126 - 460	104 - 345		
	6 Years	IU/L	126 - 402	93 - 309		
	9 Years	IU/L	42 - 436	105 - 235		
	12 Years	IU/L	42 - 500	105 - 236		
	15 Years	IU/L		105 - 237		
	18 Years	IU/L	42 - 504	52 - 171		
	Adult	IU/L	40 - 120	34 - 104		
	Female					
	30 Days	IU/L		48 - 406		
	1 Year	IU/L	126 - 610	124 - 341		
	3 Years	IU/L	126 - 573	108 - 317		
	6 Years	IU/L	126 - 471	96 - 297		
	9 Years	IU/L	42 - 488	69 - 325		
	12 Years	IU/L	42 - 542	51 - 332		
	15 Years	IU/L	42 - 444	50 - 162		
	18 Years	IU/L	42 - 168	47 - 119		
	Adult	IU/L	40 - 120	34 - 104		
ALT	18 Years	IU/L		5 - 30	> 500	
	Adult	IU/L	0 - 54	10 - 40		
Ammonia	14 Days	µmol/L	64 - 107	56 - 92	> 80	
	1 Year	µmol/L	56 - 92	21 - 74	> 80	
	15 Years	µmol/L	21 - 50	21 - 50	> 80	
	Adult	µmol/L	11 - 35	11 - 35	> 80	
Amylase	15 Years	IU/L	36 - 140	25 - 125	> 200	
	Adult	IU/L	36 - 140	25 - 125	> 400	
Anion Gap	Adult		3 - 15	6 - 16		
AST	7 Days	IU/L		26 - 98	> 500	
	30 Days	IU/L	5 - 111	16 - 67	> 500	
	3 Years	IU/L	5 - 96	16 - 60	> 500	
	6 Years	IU/L	5 - 75	3 - 48	> 500	
	9 Years	IU/L	5 - 60	3 - 42	> 500	
	18 Years	IU/L	5 - 40	3 - 39	> 500	
	Adult	IU/L	5 - 45	10 - 42		
Bilirubin, Direct	14 Days	mg/dl		< 0.4		
	Adult	mg/dl	0.0 - 0.4	< 0.2		

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Bilirubin, Indirect	Adult	mg/dl	0.0 - 0.9	< 0.9	
Bilirubin, Neonatal	1 Day	mg/dl		< 8.0	> 12.0
	2 Days	mg/dl	2.0 - 7.0	3.4 - 12.0	> 15.0
	2 Weeks	mg/dl	2.0 - 12.0	1.5 - 12.0	> 15.0
Bilirubin, Total	3 Days	mg/dl	2.0 - 6.0	2.0 - 6.0	> 15.0
	6 Days	mg/dl	6.0 - 7.0	6.0 - 7.0	> 15.0
	28 Days	mg/dl	4.0 - 12.0	4.0 - 12.0	> 15.0
	Adult	mg/dl	0.0 - 1.5	< 1.5	> 15.0
BUN	1 Year	mg/dl	5 - 15	4 - 16	> 45
	18 Years	mg/dl	5 - 18	5 - 18	> 45
	Adult	mg/dl	5 - 25	7 - 25	> 100
BUN / Creat Ratio	Adult		10 - 20	10 - 20	
Calcium	10 Days	mg/dl	7.0 - 10.5	7.6 - 10.4	< 7.0 > 13.0
	2 Years	mg/dl		9.0 - 11.0	< 7.0 > 13.0
	12 Years	mg/dl		8.8 - 10.8	< 7.0 > 13.0
	Adult	mg/dl	8.5 - 10.5	8.5 - 10.5	< 7.0 > 13.0
Chloride	Adult	mmol/L	95 - 111	98 - 110	< 75 > 125
Cholesterol	Adult	mg/dl	110 - 199	110 - 199	
Cholesterol / HDL Ratio	Adult		< 4.5	< 4.5	
CO2, Total	15 Years	mmol/L	18 - 26	18 - 26	< 10 > 40
	Adult	mmol/L	22 - 32	22 - 32	< 10 > 40
CPK, Total	Male				
	Adult	IU/L	47 - 220	38 - 174	
	Female				
	Adult	IU/L	33 - 190	26 - 140	
Creatinine	2 yrs	mg/dl	0.3 - 0.6	0.3 - 0.6	> 1.5
	6 yrs	mg/dl	0.4 - 0.7	0.4 - 0.7	> 1.5
	9 yrs	mg/dl	0.4 - 0.9	0.4 - 0.9	> 2.0
	11 yrs	mg/dl	0.5 - 1.0	0.5 - 1.0	> 2.0
	13 yrs	mg/dl	0.5 - 1.1	0.5 - 1.1	> 3.0
	15 yrs	mg/dl	0.5 - 1.2	0.5 - 1.2	> 3.0
	Adult	mg/dl	0.5 - 1.3	0.5 - 1.3	> 7.0
C - Reactive Protein	Adult	mg/dl	0.0 - 0.8	< 0.5	
Gamma GT	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	7 - 50	

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	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	7 - 50	
Glucose Fasting	28 Days	mg/dl	60 - 90	60 - 90	< 40 > 200
	18 Years	mg/dl		65 - 100	< 40 > 300
	Adult	mg/dl	65 - 100	65 - 100	< 40 > 400
Glucose Random	Adult	mg/dl	65 - 140	65 - 140	< 40 > 400
HDL Cholesterol	Adult	mg/dl	>40	>40	
Iron	2 Mo	ug/dl	100 - 250	100 - 250	
	2 Years	ug/dl	40 - 100	40 - 100	
	12 Years	ug/dl	50 - 120	50 - 120	
	Adult	ug/dl	40 - 150	40 - 150	
Iron Binding Capacity (TIBC)	4 Mo	ug/dl	50 - 170	50 - 170	
	10 Years	ug/dl	170 - 270	170 - 270	
	18 Years	ug/dl	245 - 360	245 - 360	
	Adult	ug/dl	245 - 400	245 - 400	
Iron, % Saturation	Adult	%	20 - 55	20 - 55	
Lactic Acid	Adult	mmol/L	0.0 - 2.5	< 2.5	
Lipase	Adult	U/L	22 - 51	22 - 51	
LDH	Male				
	30 Days	U/L	290 - 775	178 - 629	
	1 - 12 Mo	U/L	160 - 420	129 - 367	
	1 - 3 Years	U/L		164 - 286	
	4 - 6 Years	U/L		155 - 280	
	7 - 9 Years	U/L		141 - 237	
	10 - 13 Years	U/L	140 - 300	141 - 231	
	14 - 19 Years	U/L	115 - 250	117 - 217	
	Adult	U/L	90 - 225	100 - 225	
	Female				
	30 Days	U/L	290 - 775	187 - 600	
	1 - 12 Mo	U/L	160 - 420	152 - 327	
	1 - 3 Years	U/L		164 - 286	
	4 - 6 Years	U/L		155 - 280	
	7 - 9 Years	U/L		141 - 237	
	10 - 13 Years	U/L	140 - 300	129 - 222	
	14 - 19 Years	U/L	115 - 250	117 - 217	
	Adult	U/L	90 - 225	100 - 225	

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TEST	Age/Sex	Units	Old	New	Critical
LDL Cholesterol	Adult	mg/dl	< 130	< 130	
Magnesium	1 - 4 Mo	mg/dl	1.5 - 2.3	1.5 - 2.2	< 1.2 > 4.0
	5 Mo- 6 Years	mg/dl	1.3 - 2.1	1.7 - 2.3	< 1.2 > 4.0
	6 - 12 Years	mg/dl	1.3 - 2.1	1.7 - 2.1	< 1.2 > 4.0
	12 - 20 Years	mg/dl	1.8 - 2.6	1.7 - 2.2	< 1.2 > 4.0
	Adult	mg/dl	1.8 - 2.6	1.8 - 2.6	< 1.2 > 4.0
Phosphorus	10 Days	mg/dl	3.5 - 9.5	4.5 - 9.0	<1.0 >10
	1 Year	mg/dl	4.5 - 6.5	4.5 - 6.5	<1.0 >10
	12 Years	mg/dl	3.4 - 5.9	3.4 - 5.9	<1.0 >10
	Adult	mg/dl	2.4 - 4.7	2.5 - 4.7	<1.0 >10
Potassium	1 Week	mmol/L		3.7 - 5.7	< 3.0 > 6.5
	1 Year	mmol/L		4.1 - 5.3	< 3.0 > 6.0
	12 Years	mmol/L		3.5 - 5.5	< 3.0 > 6.0
	Adult	mmol/L	3.5 - 5.2	3.5 - 5.1	< 3.0 > 6.0
Protein, Total	1 Week	g/dl		4.4 - 7.6	
	1 Year	g/dl		5.1 - 7.3	
	2 Years	g/dl		5.6 - 7.5	
	Adult	g/dl	6.0 - 8.0	6.0 - 8.0	
	Adult	g/dl	2.0 - 3.7	2.0 - 3.7	
GLOBULIN A/G RATIO	Adult		1.0 - 2.0	1.0 - 2.0	
Sodium	10 Years	mmol/L	135 - 143	135 - 143	<125 >150
	Adult	mmol/L	135 - 145	135 - 145	< 120 >160
Triglyceride	Adult	mg/dl	40 - 149	40 - 149	
Uric Acid	Male				
	1 Year	mg/dl	2.0 - 5.5	2.0 - 5.5	> 13.0
	18 Years	mg/dl		3.5 - 7.3	> 13.0
	Adult	mg/dl	4.8 - 8.7	4.8 - 8.7	> 13.0
	Female				
	1 Year	mg/dl	2.0 - 5.5	2.0 - 5.5	> 13.0
	18 Years	mg/dl		3.5 - 7.3	> 13.0
Adult	mg/dl	2.6 - 8.0	2.6 - 7.2	> 13.0	

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