

Reference Ranges

Attachment D

	Age	Reference Range		Units	
ALBUMIN	0 - 6 DAYS	2.5	3.4	g/dL	
	7 DAYS - 5 YEARS	3.9	5.0		
	6 - 18 YEARS	4.0	5.3		
	19 - 60 YEARS	3.5	5.1		
	> 60 YEARS	3.5	4.9		
ACE		12	60	U/L	
ALT	Male	0 - < 1 YEAR	5	33	U/L
		1 - 12 YEARS	9	25	
		13 - 18 YEARS	9	24	
		19-Adult	9	47	
	Female	0 - < 1 YEAR	5	33	
		1 - 12 YEARS	9	25	
		13 - 18 YEARS	8	22	
		19-Adult	8	37	
ALP	Male	0 - 14 DAYS	90	273	U/L
		15 DAYS - < 1 YEAR	134	518	
		1 - 9 YEARS	156	369	
		10 - 12 YEARS	141	460	
		13 - 14 YEARS	127	517	
		15 - 16 YEARS	89	365	
	Female	17 - 18 YEARS	59	164	
		> 19 YEARS	33	120	
		0 - 14 DAYS	90	273	
		15 DAYS - < 1 YEAR	134	518	
		1 - 9 YEARS	156	369	
		10 - 12 YEARS	141	460	
		13 - 14 YEARS	62	280	
		15 - 16 YEARS	54	128	
		17 - 18 YEARS	48	95	
		19 - 60 YEARS	33	120	
		> 60 YEARS	37	135	
		ALPHA-1-ANTITRYPSIN		90	
AMMONIA		15	50	umol/L	
AMYLASE			< 100	U/L	
ASO	0-4 YEARS		<100	IU/L	
	5-17 YEARS		<250		
	ADULT		<200		
AST (w/o P5P)		< 35		U/L	
BETA-2_MICROGLOBULIN		<2.5		mg/L	
BETA-OH BUTYRATE		0.02	0.27	mmol/L	
BILIRUBIN, DIRECT	0 - 27 DAYS	0.0	1.0	mg/dL	
	28 DAYS - ADULT	0.0	0.3		

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BILIRUBIN, TOTAL	< 1 DAY	0.3	7.9	mg/dL	
	1 DAY	0.3	12.0		
	2 - 13 DAYS	0.3	15.0		
	14 - 20 DAYS	0.3	8.0		
	21 - 27 DAYS	0.3	6.0		
	28 DAYS - ADULT	0.3	1.2		
	C3		82		193
C4		10	43	mg/dL	
CALCIUM	0 - < 1 YEAR	8.5	11.0	mg/dL	
	1 - 18 YEARS	9.2	10.7		
	19 YEARS - ADULT	8.5	10.5		
CERULOPLASMIN		17	40	mg/dL	
CHOLESTEROL	Child	DESIRABLE	< 170	mg/dL	
		BORDERLINE	170		199
		HIGH	>= 200		
	Adult	DESIRABLE	< 200		
		BORDERLINE	200		239
		HIGH	>= 240		
CK, TOTAL				U/L	
Male	40	230			
Female	30	150			
CHLORIDE		98	111	mmol/L	
CARBON DIOXIDE	< 1 YEAR	20	28	mmol/L	
	1 - 13 YRS	17	28		
	> 13 YRS	20	29		
Creatinine	Male	0 - 14 DAYS	0.42	1.05	mg/dL
		15 DAYS - < 1 YEAR	0.32	0.53	
		1 - 3 YEARS	0.38	0.54	
		4 - 6 YEARS	0.44	0.64	
		7 - 11 YEARS	0.52	0.69	
		12 - 14 YEARS	0.57	0.8	
		15 - 16 YEARS	0.66	1.04	
		17 - 18 YEARS	0.69	1.1	
		19 - ADULT	0.60	1.30	
	Female	0 - 14 DAYS	0.42	1.05	
		15 DAYS - < 1 YEAR	0.32	0.53	
		1 - 3 YEARS	0.38	0.54	
		4 - 6 YEARS	0.44	0.64	
		7 - 11 YEARS	0.52	0.69	
		12 - 14 YEARS	0.57	0.8	
		15 - 16 YEARS	0.59	0.86	
		17 - 18 YEARS	0.6	0.88	
		19 - ADULT	0.50	1.10	
		CRP			
ETOH		0	10	mg/dL	

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GGT <i>MALE & FEMALE</i>	0 - 14 DAYS	23	219	U/L
	15 DAYS - < 1 YEAR	8	127	
	1 - 10 YEARS	6	16	
	11 - 18 YEARS	7	21	
	<i>Male</i> ADULT MALE	13	60	
	<i>Female</i> ADULT FEMALE	8	39	
GLUCOSE	FASTING	60	99	mg/dL
	RANDOM	60	139	
GLUCOSE, CSF		50	80	mg/dL
HS CRP	LOW RISK		< 1.0	mg/L
	AVERAGE RISK	1.0	3.0	
	HIGHER RISK	3.1	10.0	
	ASSOC. WITH INFECTION OR INFLAMMATION		> 10.0	
HAPTOGLOBIN		40	250	mg/dL
HDLC	0 - 19 YEARS	35	90	mg/dL
	> 19 YEARS	40	90	
IGA	< 1 YEAR	0 - 30	0	mg/dL
	1 - 2 YEARS	0 - 90	0	
	3 - 5 YEARS	30 - 150	30	
	6 - 13 YEARS	50 - 220	50	
	14 - 18 YEARS	50 - 209	50	
	Adult		70	
IGE			< 100	IU/mL
IGG	0 - 14 DAYS	320	1400	mg/dL
	15 DAYS - 11 MO	110	700	
	1 - 3 YEARS	320	1150	
	4 - 9 YEARS	540	1360	
	10 - 18 YEARS	660	1530	
	ADULT	550	1650	
IGM	0 - 14 DAYS	10	40	mg/dL
	15 DAYS - 12 WEEKS	10	70	
	13 WEEKS - 51 WKS	20	90	
	1 - 18 YEARS	40	150	
	ADULT	40	293	
IRON	<i>Male</i>	65	175	ug/dL
	<i>Female</i>	50	170	
POTASSIUM	0 - 1 DAY	5.0	7.5	mmol/L
	2 DAYS - 3 MONTHS	4.0	6.0	
	4 MONTHS - ADULT	3.5	5.2	
LACTATE		0.50	2.20	mmol/L

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LD	Male	0 - 30 DAYS	125	735	U/L
		31 DAYS - 12 MONTHS	170	450	
		13 MONTHS - 3 YEARS	155	345	
		4 - 6 YEARS	155	345	
		7 - 9 YEARS	145	300	
		10 - 12 YEARS	120	325	
		13 - 15 YEARS	120	290	
		16 - 18 YEARS	105	235	
		19 - ADULT	100	240	
	Female	0 - 30 DAYS	145	765	
		31 DAYS - 12 MONTHS	190	420	
		13 MONTHS - 3 YEARS	165	395	
		4 - 6 YEARS	135	345	
		7 - 9 YEARS	140	280	
		10 - 12 YEARS	120	260	
		13 - 15 YEARS	100	275	
		16 - 18 YEARS	105	230	
		19 - ADULT	100	240	
		LDL, DIRECT		50	
LP(a)		< = 30		mg/dL	
LIPASE		7	60	U/L	
MAGNESIUM		1.7	2.5	mg/dL	
SODIUM	0 - 1 DAY	126	166	mmol/L	
	2 - 29 DAYS	134	144		
	30 DAYS - 1YR	139	146		
	2 - 12 YRS	138	145		
	13 YRS - ADULT	135	145		
PHOSPHORUS	0 - 14 DAYS	5.6	10.5	mg/dL	
	15 DAYS - 1 YEAR	4.8	8.4		
	1 - 4 YEARS	4.3	6.8		
	5 - 12 YEARS	4.1	5.9		
	13 - 15 YEARS	3.2	6.2		
	16 - 18 YEARS	2.9	5.0		
	19 - ADULT	2.3	4.4		
PLACA			225	nmol/m/ in/mL	
PREALBUMIN		18	44	mg/dL	
PROCALITONIN		< = 0.25		ng/mL	
PROTEIN, TOTAL	0 - 14 DAYS	5.3	8.3	g/dL	
	15 DAYS - < 1 YEAR	4.4	7.1		
	1 - 5 YEARS	6.1	7.5		
	6 - 8 YEARS	6.4	7.7		
	9 - 18 YEARS	6.5	8.1		
	19 - 60 YEARS	6.4	8.3		
	> 60 YEARS	6.2	8.1		
RHEUMATOID FACTOR			< 15	IU/mL	

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TIBC		250	425	
Male				
Female				
TRANSFERRIN		163	382	mg/dL
% TRANSFERRIN SAT		15	50	%
TRIGLYCERIDES			< 150	mg/dL
UREA (BUN)	0- 14 DAYS	3	23	mg/dL
	15 DAYS - < 1 YEAR	3	17	
	1 - 10 YEARS	9	22	
	10 - 18 YEARS	7	21	
	19 - ADULT	7	25	
URIC ACID				mg/dL
Male	0 - 13 YRS	1.5	7.6	
	14 YRS - ADULT	3.5	7.2	
Female	0- ADULT	2.6	6.0	
24 hour URINE				
AMYLASE, URINE		2	17	U/Hour
CALCIUM, URINE		100	300	mg/Collection
CHLORIDE, URINE		110	250	mmol/collection
CREATININE, URINE		800	2500	mg/collection
GLUCOSE, URINE			< 0.9	mg/collection
POTASSIUM, URINE		25	125	mmol/collection
MAGNESIUM, URINE		50	200	mg/collection
MICROALBUMIN			<30	mg/24 hours
MICROALBUMIN Excretion Rate			</=20	mcg/min
MICROALBUMIN/Creatinine Ratio			<30	mg/g
SODIUM, URINE		40	220	mmol/collection
PHOSPHORUS, URINE		0.3	1.3	mg/collection
PROTEIN, URINE			< 150	mg/collection
UREA, URINE		12	20	mg/collection
URIC ACID, URINE		250	750	mg/Collection
CSF				
GLUCOSE (ADULT)		50	80	mg/dL
0 - 9 YEARS				
LACTATE		0.5	2.0	mmol/L
LDH		5	30	U/L
PROTEIN		15	45	g/dL