

UNIVERSITY HOSPITALS LABORATORY SERVICES

REFERENCE RANGES AS OF

10/01/10

UNIVERSITY HOSPITALS
 UHLSF LABORATORIES
 11100 EUCLID AVENUE
 CLEVELAND, OHIO 44106-5199
 PHONE 216-844-5227

This list covers all UHLSF sites

SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
CHEMISTRY						
ALBUMIN	B	DAY	1	2.4	4.8	g/dL
ALBUMIN	B	DAY	60	2.9	4.5	g/dL
ALBUMIN	B	YEAR	5	3.4	5.1	g/dL
ALBUMIN	B	YEAR	15	3.4	5.2	g/dL
ALBUMIN	B	YEAR	199	3.4	5.0	g/dL
ALKALINE PHOSPHATASE	B	YEAR	1	50	380	U/L
ALKALINE PHOSPHATASE	B	YEAR	9	55	350	U/L
ALKALINE PHOSPHATASE	B	YEAR	14	55	400	U/L
ALKALINE PHOSPHATASE	F	YEAR	19	33	190	U/L
ALKALINE PHOSPHATASE	M	YEAR	19	33	210	U/L
ALKALINE PHOSPHATASE	F	YEAR	59	33	110	U/L
ALKALINE PHOSPHATASE	M	YEAR	59	33	120	U/L
ALKALINE PHOSPHATASE	B	YEAR	199	33	136	U/L
ALT	F	YEAR	199	7	54	U/L
ALT	M	YEAR	199	10	65	U/L
AMYLASE	B	YEAR	2	0	115	U/L
AMYLASE	B	YEAR	199	25	115	U/L
AST	B	DAY	1	10	105	U/L
AST	B	DAY	60	10	100	U/L
AST	B	YEAR	1	10	60	U/L
AST	B	YEAR	5	10	60	U/L
AST	B	YEAR	18	10	60	U/L
AST	B	YEAR	199	10	37	U/L
BICARBONATE	B	YEAR	17	18	27	mmol/L
BICARBONATE	B	YEAR	199	21	32	mmol/L
BILIRUBIN,DIRECT	B	YEAR	199	0.0	0.3	mg/dL
BILIRUBIN,TOTAL	B	DAY	1	0.0	5.9	mg/dL

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BILIRUBIN,TOTAL	B	DAY	2	0.0	7.9	mg/dL
BILIRUBIN,TOTAL	B	DAY	5	0.0	11.9	mg/dL
BILIRUBIN,TOTAL	B	DAY	29	0.0	2.4	mg/dL
BILIRUBIN,TOTAL	B	YEAR	199	0.0	1.2	mg/dL
CALCIUM	B	DAY	1	6.9	11.0	mg/dL
CALCIUM	B	DAY	7	6.9	11.0	mg/dL
CALCIUM	B	YEAR	19	8.5	10.7	mg/dL
CALCIUM	B	YEAR	199	8.5	10.1	mg/dL
CHLORIDE	B	YEAR	199	98	107	mmol/L
CHOLESTEROL	B	DAY	1	40	150	mg/dL
CHOLESTEROL	B	DAY	60	40	145	mg/dL
CHOLESTEROL	B	YEAR	19	80	150	mg/dL
CHOLESTEROL	B	YEAR	20	80	180	mg/dL
CHOLESTEROL	B	YEAR	30	80	200	mg/dL
CHOLESTEROL	B	YEAR	199	80	200	mg/dL
CREATINE KINASE	B	DAY	10	0	580	U/L
CREATINE KINASE	B	YEAR	1	0	290	U/L
CREATINE KINASE	B	YEAR	9	0	240	U/L
CREATINE KINASE	F	YEAR	15	0	210	U/L
CREATINE KINASE	M	YEAR	15	0	215	U/L
CREATINE KINASE	F	YEAR	199	0	215	U/L
CREATINE KINASE	M	YEAR	199	0	232	U/L
CREATININE	B	DAY	60	0.2	0.8	mg/dL
CREATININE	B	YEAR	2	0.2	0.8	mg/dL
CREATININE	B	YEAR	5	0.3	1.1	mg/dL
CREATININE	B	YEAR	12	0.3	1.1	mg/dL
CREATININE	B	YEAR	15	0.5	1.2	mg/dL
CREATININE	B	YEAR	199	0.51	1.17	mg/dL
GGT	B	DAY	14	0	246	U/L

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GGT	B	DAY	60	0	160	U/L
GGT	B	YEAR	15	0	20	U/L
GGT	F	YEAR	199	5	55	U/L
GGT	M	YEAR	199	15	85	U/L
GLUCOSE	B	DAY	2	45	90	mg/dL
GLUCOSE	B	YEAR	12	60	110	mg/dL
GLUCOSE	B	YEAR	199	74	106	mg/dL
GLUCOSE,FASTING	B	YEAR	18	60	100	mg/dL
GLUCOSE,FASTING	B	YEAR	199	74	106	mg/dL
LD	B	DAY	1	614	2045	U/L
LD	B	DAY	30	494	1080	U/L
LD	B	YEAR	4	153	528	U/L
LD	B	YEAR	12	108	295	U/L
LD	B	YEAR	60	100	190	U/L
LD	B	YEAR	199	110	210	U/L
MAGNESIUM	B	YEAR	1	1.30	2.70	mg/dL
MAGNESIUM	B	YEAR	15	1.60	2.40	mg/dL
MAGNESIUM	B	YEAR	199	1.60	2.40	mg/dL
PHOSPHORUS	F	DAY	30	3.1	7.2	mg/dL
PHOSPHORUS	M	DAY	30	2.8	7.0	mg/dL
PHOSPHORUS	F	MONTH	3	3.1	7.2	mg/dL
PHOSPHORUS	M	MONTH	3	3.1	6.6	mg/dL
PHOSPHORUS	F	YEAR	1	3.1	6.8	mg/dL
PHOSPHORUS	M	YEAR	1	3.1	6.6	mg/dL
PHOSPHORUS	B	YEAR	2	3.1	6.2	mg/dL
PHOSPHORUS	B	YEAR	12	3.1	5.9	mg/dL
PHOSPHORUS	F	YEAR	15	3.1	5.5	mg/dL
PHOSPHORUS	M	YEAR	15	3.1	5.3	mg/dL
PHOSPHORUS	F	YEAR	18	3.1	4.8	mg/dL
PHOSPHORUS	M	YEAR	18	3.1	5.1	mg/dL

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PHOSPHORUS	B	YEAR	199	2.5	4.9	mg/dL
POTASSIUM	B	DAY	7	3.2	5.7	mmol/L
POTASSIUM	B	MONTH	1	3.4	6.2	mmol/L
POTASSIUM	B	MONTH	6	3.5	5.8	mmol/L
POTASSIUM	B	YEAR	1	3.5	6.3	mmol/L
POTASSIUM	B	YEAR	12	3.3	4.7	mmol/L
POTASSIUM	B	YEAR	199	3.5	5.3	mmol/L
SODIUM	B	YEAR	1	131	144	mmol/L
SODIUM	B	YEAR	199	136	145	mmol/L
TOTAL PROTEIN	B	DAY	1	4.0	7.5	g/dL
TOTAL PROTEIN	B	DAY	7	4.5	7.5	g/dL
TOTAL PROTEIN	B	DAY	60	4.5	7.1	g/dL
TOTAL PROTEIN	B	YEAR	1	4.6	7.0	g/dL
TOTAL PROTEIN	B	YEAR	5	5.6	8.1	g/dL
TOTAL PROTEIN	B	YEAR	199	6.4	8.2	g/dL
TRIGLYCERIDES	B	DAY	7	19	174	mg/dL
TRIGLYCERIDES	B	YEAR	1	33	340	mg/dL
TRIGLYCERIDES	B	YEAR	19	33	135	mg/dL
TRIGLYCERIDES	B	YEAR	199	< 150 NORMAL, 150 - 199 BORDERLINE, 200 - 499 HIGH, > 499 VERY HIGH		
UREA NITROGEN	B	DAY	60	4	15	mg/dL
UREA NITROGEN	B	YEAR	199	6	23	mg/dL
URIC ACID	B	YEAR	12	1.8	6.4	mg/dL
URIC ACID	F	YEAR	199	2.1	6.4	mg/dL
URIC ACID	M	YEAR	199	3.2	7.2	mg/dL

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CHEMISTRY-THERAPEUTIC DRUGS						
ACETAMINOPHEN	B	YEAR	18	5.0	20.0	mg/L
ACETAMINOPHEN	B	YEAR	199	10.0	30.0	mg/L
>5 IS POSITIVE						
AMIKACIN,PEAK	B	YEAR	199	20.0	30.0	ug/mL
AMIKACIN,TROUGH	B	YEAR	199	1.0	8.0	ug/mL
AMIKACIN, UNSPECIFIED	B	YEAR	199	0.0	0.0	ug/mL
BARBITUATES, SERUM				NEGATIVE		
CAFFEINE	B	DAY	13	3.0	10.0	mg/L
CAFFEINE	B	YEAR	1	0.0	15.0	mg/L
CAFFEINE	B	YEAR	199	0.0	0.0	mg/L
CARBAMAZEPINE	B	YEAR	199	4.0	12.0	ug/mL
CYCLOSPORINE , TDX	B	YEAR	199	100	250	ng/mL
DIGOXIN	B	DAY	180	1.10	2.90	ng/mL
DIGOXIN	B	YEAR	199	0.80	2.00	ng/mL
FK506	B	YEAR	199	9.8	19.0	ng/mL
GENTAMICIN,PEAK	B	YEAR	199	5.0	12.0	ug/mL
GENTAMICIN,TROUGH	B	YEAR	199	0.0	2.0	ug/mL
GENTAMICIN, UNSPECIFIED	B	YEAR	199	0.0	0.0	ug/mL
LIDOCAINE	B	YEAR	199	1.0	5.0	mg/L
LITHIUM	B	YEAR	199	0.60	1.20	mmol/L
PHENOBARBITAL	B	YEAR	199	10.0	40.0	ug/mL
PRIMIDONE	B	YEAR	199	8.0	12.0	ug/mL

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PHENYTOIN	B	YEAR	199	>5 IS POSITIVE		
PHENYTOIN,FREE	B	YEAR	199	1.00	2.00	ug/mL
PROCAINAMIDE	B	YEAR	199	4.0	10.0	ug/mL
N-ACETYL PROCAINAMIDE	B	YEAR	199	10.0	30.0	ug/mL
PROCAINAMIDE+NAPA	B	YEAR	199	10.0	30.0	ug/mL
SALICYLATE	B	YEAR	199	4	20	mg/dL
				>2 IS POSITIVE		
THEOPHYLLINE	B	DAY	14	6.0	11.0	ug/mL
THEOPHYLLINE	B	YEAR	199	10.0	20.0	ug/mL
				>5 IS POSITIVE		
TOBRAMYCIN,PEAK	B	YEAR	199	4.0	10.0	ug/mL
TOBRAMYCIN,TROUGH	B	YEAR	199	0.0	2.0	ug/mL
TOBRAMYCIN, UNSPECIFIED	B	YEAR	199	0.0	0.0	ug/mL
TRICYCLICS, SERUM				NEGATIVE		
				ALL POSITIVES REPEATED IN TRIPLICATE		
VALPROIC ACID	B	YEAR	199	50	100	ug/mL
VANCOMYCIN,PEAK	B	YEAR	199	30.0	40.0	ug/mL
VANCOMYCIN, TROUGH	B	YEAR	18	5.0	10.0	ug/mL
VANCOMYCIN, TROUGH	B	YEAR	199	15.0	20.0	ug/mL
VANCOMYCIN, UNSPECIFIED	B	YEAR	199	0.0	0.0	ug/mL
CHEMISTRY-MISCELLANEOUS						
ALCOHOL, SERUM	B	YEAR	199	0	0	mg/dL
				<10 DEFAULT		

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
ALPHA-1-ANTITRYPSIN	B	YEAR	199	90	200	mg/dL
AFP	B	DAY	7	5000	105000	ug/L
AFP	B	DAY	14	300	60000	ug/L
AFP	B	DAY	30	100	10000	ug/L
AFP	B	DAY	60	40	1000	ug/L
AFP	B	DAY	90	11	300	ug/L
AFP	B	DAY	120	5	200	ug/L
AFP	B	DAY	150	0	90	ug/L
AFP	B	DAY	180	0	15	ug/L
AFP	B	YEAR	18	0	15	ug/L
AFP	B	YEAR	199	0	20	ug/L
AMMONIA	B	YEAR	199	11	32	umol/L
<25 LOWEST REPORTABLE VALUE						
ANGIOTENSIN CONV ENZYME (ACB		YEAR	199	8	89	U/L
ASO	B	YEAR	199		<200	IU/mL
BETA 2 MICROGLOBULIN	B	YEAR	199	0.7	2.2	mg/L
BETA-HYDROXYBUTYRATE	B	YEAR	199	0.02	0.27	mmol/L
BNP	B	YEAR	199	0	100	pg/mL
C3 COMPLEMENT	B	YEAR	199	90	180	mg/dL
C4 COMPLEMENT	B	YEAR	199	10	40	mg/dL
CALCIUM,IONIZED	B	DAY	1	1.08	1.37	mmol/L
CALCIUM,IONIZED	B	DAY	3	1.00	1.27	mmol/L
CALCIUM,IONIZED	B	YEAR	60	1.13	1.32	mmol/L
CALCIUM,IONIZED	B	YEAR	199	1.14	1.39	mmol/L

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
CERULOPLASMIN	B	MONTH	3	5	18	mg/dL
CERULOPLASMIN	B	YEAR	199	20	60	mg/dL
C-REACTIVE PROTEIN	B	YEAR	199		< 0.8	mg/dL
				< 1.0 LOW RELATIVE RISK OF CVD, 1.0 - 3.0 AVERAGE RELATIVE RISK OF CVD, > 3.0 HIGH RELATIVE RISK OF CVD		
CRP, HIGH SENSITIVITY	B	YEAR	199			
CREATININE CLEARANCE	B	YEAR	1	40	75	mL/min
CREATININE CLEARANCE	B	YEAR	3	50	110	mL/min
CREATININE CLEARANCE	B	YEAR	5	70	130	mL/min
CREATININE CLEARANCE	F	YEAR	60	70	125	mL/min
CREATININE CLEARANCE	M	YEAR	60	70	135	mL/min
CREATININE CLEARANCE	F	YEAR	199	50	105	mL/min
CREATININE CLEARANCE	M	YEAR	199	50	115	mL/min
HEMOGLOBIN A1C	B	YEAR	199	3.6	6.8	%
HAPTOGLOBIN	B	YEAR	199	30	200	mg/dL
HDL-CHOLESTEROL	B	YEAR	2	12	60	mg/dL
HDL-CHOLESTEROL	F	YEAR	7	16	62	mg/dL
HDL-CHOLESTEROL	M	YEAR	7	26	68	mg/dL
HDL-CHOLESTEROL	F	YEAR	12	26	77	mg/dL
HDL-CHOLESTEROL	M	YEAR	12	28	76	mg/dL
HDL-CHOLESTEROL	F	YEAR	16	28	79	mg/dL
HDL-CHOLESTEROL	M	YEAR	16	22	73	mg/dL
HDL-CHOLESTEROL	F	YEAR	19	24	74	mg/dL

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HDL-CHOLESTEROL	M	YEAR	19	28	72	mg/dL	
HDL-CHOLESTEROL		< 40 INCREASED RISK FOR CHD, > 60 DECREASED RISK FOR CHD					
CHOL/HDL RATIO		DESIRABLE < 3.4; HIGH RISK > 5.0					
HOMOCYSTEINE	B	YEAR	199	5.0	13.9	umol/L	
IGA	B	DAY	1	0.0	0	mg/dL	
IGA	B	DAY	30	0	12	mg/dL	
IGA	B	DAY	90	0	19	mg/dL	
IGA	B	DAY	180	2	35	mg/dL	
IGA	B	DAY	420	10	50	mg/dL	
IGA	B	YEAR	3	17	70	mg/dL	
IGA	B	YEAR	6	23	116	mg/dL	
IGA	B	YEAR	12	43	208	mg/dL	
IGA	B	YEAR	199	70	400	mg/dL	
IGE	B	DAY	60	0	15	IU/mL	
IGE	B	YEAR	2	0	29	IU/mL	
IGE	B	YEAR	3	0	17	IU/mL	
IGE	B	YEAR	4	0	69	IU/mL	
IGE	B	YEAR	7	0	161	IU/mL	
IGE	B	YEAR	14	0	195	IU/mL	
IGE	B	YEAR	199	0	150	IU/mL	
IGG	B	DAY	1	468	1287	mg/dL	
IGG	B	DAY	30	273	1287	mg/dL	
IGG	B	DAY	90	117	507	mg/dL	
IGG	B	DAY	180	109	390	mg/dL	
IGG	B	DAY	420	211	741	mg/dL	
IGG	B	YEAR	3	335	975	mg/dL	
IGG	B	YEAR	6	429	1131	mg/dL	
IGG	B	YEAR	12	546	1170	mg/dL	
IGG	B	YEAR	199	700	1600	mg/dL	

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IGG1	B	DAY	1	470	1170	mg/dL
IGG1	B	DAY	60	235	536	mg/dL
IGG1	B	DAY	150	154	426	mg/dL
IGG1	B	DAY	240	205	409	mg/dL
IGG1	B	YEAR	2	309	734	mg/dL
IGG1	B	YEAR	8	313	961	mg/dL
IGG1	B	YEAR	12	313	1026	mg/dL
IGG1	B	YEAR	14	313	1188	mg/dL
IGG1	B	YEAR	199	490	1140	mg/dL
IGG2	B	DAY	1	133	421	mg/dL
IGG2	B	DAY	240	21	155	mg/dL
IGG2	B	YEAR	2	28	304	mg/dL
IGG2	B	YEAR	6	65	456	mg/dL
IGG2	B	YEAR	14	102	456	mg/dL
IGG2	B	YEAR	199	150	640	mg/dL
IGG3	B	DAY	1	37	200	mg/dL
IGG3	B	DAY	60	5	32	mg/dL
IGG3	B	DAY	150	5	85	mg/dL
IGG3	B	DAY	240	11	85	mg/dL
IGG3	B	YEAR	6	11	125	mg/dL
IGG3	B	YEAR	12	16	140	mg/dL
IGG3	B	YEAR	14	25	140	mg/dL
IGG3	B	YEAR	199	11	85	mg/dL
IGG4	B	DAY	1	1	26	mg/dL
IGG4	B	DAY	60	1	20	mg/dL
IGG4	B	DAY	150	1	14	mg/dL
IGG4	B	DAY	240	1	20	mg/dL
IGG4	B	YEAR	2	1	33	mg/dL
IGG4	B	YEAR	10	1	70	mg/dL
IGG4	B	YEAR	14	1	100	mg/dL
IGG4	B	YEAR	199	3	200	mg/dL

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IGM	B	DAY	1	0	18	mg/dL
IGM	B	DAY	30	10	45	mg/dL
IGM	B	DAY	90	9	71	mg/dL
IGM	B	DAY	180	14	66	mg/dL
IGM	B	DAY	420	20	100	mg/dL
IGM	B	YEAR	3	22	124	mg/dL
IGM	B	YEAR	6	25	136	mg/dL
IGM	B	YEAR	12	26	170	mg/dL
IGM	B	YEAR	199	40	230	mg/dL
IRON	B	DAY	7	100	250	ug/dL
IRON	B	DAY	60	30	100	ug/dL
IRON	B	YEAR	2	30	100	ug/dL
IRON	B	YEAR	15	25	150	ug/dL
IRON	B	YEAR	199	35	150	ug/dL
TIBC	B	DAY	7	55	200	ug/dL
TIBC	B	DAY	60	65	300	ug/dL
TIBC	B	YEAR	3	75	425	ug/dL
TIBC	B	YEAR	199	240	445	ug/dL
% SATURATION	B	YEAR	199	25	45	%
LACTATE	B	MONTH	2	1.00	3.50	mmol/L
LACTATE	B	YEAR	1	1.00	3.30	mmol/L
LACTATE	B	YEAR	18	1.00	2.40	mmol/L
LACTATE	B	YEAR	199	0.40	2.00	mmol/L
LDL	B	YEAR	19	100	125	mg/dL
LDL	B	YEAR	29	110	150	mg/dL
LDL	B	YEAR	39	130	180	mg/dL
LDL	B	YEAR	199	140	190	mg/dL
LDL, DIRECT	B	YEAR	199	0	129	mg/dL
LEAD,CAPILLARY	B	YEAR	199	0.0	4.9	ug/dL

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
LEAD,VENOUS	B	YEAR	199	0.0	4.9	ug/dL
LIPASE	B	YEAR	199	114	286	U/L
MYOGLOBIN	B	YEAR	199	0	92	ug/L
OSMOLALITY, SERUM	B	YEAR	199	280	300	mOsm/kg H2C
OSMOLALITY,URINE	B	YEAR	1	50	600	mOsm/kg
OSMOLALITY,URINE	B	YEAR	199	200	1200	mOsm/kg
OSMOLALITY,URINE SPOT	B	YEAR	1	50	600	mOsm/kg
OSMOLALITY,URINE SPOT	B	YEAR	199	200	1200	mOsm/kg
PREALBUMIN	B	DAY	5	8.6	23.2	mg/dL
PREALBUMIN	B	YEAR	1	9.6	32.0	mg/dL
PREALBUMIN	B	YEAR	5	16.4	32.0	mg/dL
PREALBUMIN	B	YEAR	9	17.3	34.9	mg/dL
PREALBUMIN	B	YEAR	14	22.2	37.8	mg/dL
PREALBUMIN	B	YEAR	199	18.0	40.0	mg/dL
RHEUMATOID FACTOR	B	YEAR	199	0	15	IU/mL
TRANSFERRIN	B	YEAR	199	200	360	mg/dL
VLDL	B	YEAR	199	0	40	mg/dL
CHEMISTRY-CSF						
ANGIOTEN CONV ENZ-CSF	B	YEAR	199	0	6	U/L
ALBUMIN,CSF	B	YEAR	199	9.6	28.8	mg/dL
GLUCOSE,CSF	B	YEAR	17	41	84	mg/dL
GLUCOSE,CSF	B	YEAR	199	40	70	mg/dL
IGG,CSF	B	YEAR	199	0	4.6	mg/dL

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
LACTATE,CSF	B	YEAR	199	0.60	2.20	mmol/L
LD,CSF	B	YEAR	199	21	105	U/L
TOTAL PROTEIN,CSF	B	DAY	7	40	120	mg/dL
TOTAL PROTEIN,CSF	B	DAY	30	20	80	mg/dL
TOTAL PROTEIN,CSF	B	YEAR	199	15	45	mg/dL

AMI PROFILE

CKMB	B	YEAR	199			ng/mL
				CKMB <7 AND RI <4% :NEGATIVE		
				CKMB <7 AND RI >4% :EQUIVOCAL		
				CKMB >=7 AND RI <4% :EQUIVOCAL		
				CKMB >=7 AND RI >4% :POSITIVE		
RELATIVE INDEX	B	YEAR	199	CALCULATED		%MB OF CK
TROPONIN I	B	YEAR	199	0.00	0.06	ng/mL
				<0.07 : NEGATIVE		
				0.07.0.5 :POSSIBLE CARDIAC DAMAGE		
				>0.50 :CONSISTENT WITH CARDIAC DAMAGE		

CHEMISTRY-URINE

ALBUMIN/CREAT RATIO	B	YEAR	199	0	30	ug/mg crt
AMMONIA, URINE	B	YEAR	199	20	500	umol/L
AMYLASE,URINE 24HR	B	YEAR	199	0	499	U/24h
CALCIUM,URINE 24HR	B	YEAR	12	80	160	mg/24h
CALCIUM,URINE 24HR	B	YEAR	199	100	300	mg/24h
CHLORIDE,URINE 24HR	B	YEAR	1	2	10	mmol/24h
CHLORIDE,URINE 24HR	B	YEAR	5	15	40	mmol/24h
CHLORIDE,URINE 24HR	B	YEAR	17	40	250	mmol/24h

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CHLORIDE,URINE 24HR	B	YEAR	199	110	250	mmol/24h
CREATININE, 24HR	B	YEAR	5	0.1	0.9	g/24h
CREATININE, 24HR	B	YEAR	9	0.5	1.1	g/24h
CREATININE, 24HR	F	YEAR	15	0.5	1.1	g/24h
CREATININE, 24HR	M	YEAR	15	0.6	1.5	g/24h
CREATININE, 24HR	F	YEAR	199	0.67	1.59	g/24h
CREATININE, 24HR	M	YEAR	199	0.87	2.41	g/24h
GLUCOSE,URINE 24HR	B	YEAR	18	0.0	0.1	g/24h
GLUCOSE,URINE 24HR	B	YEAR	199	0.0	0.4	g/24h
MAGNESIUM,URINE 24HR	B	YEAR	199	1.0	240.0	mEq/24h
PHOSPHORUS, 24HR	B	YEAR	199	400	1300	mg/24h
POTASSIUM,URINE 24HR	B	YEAR	199	25	125	mmol/24h
SODIUM,URINE 24HR	B	DAY	14	16	44	mmol/24h
SODIUM,URINE 24HR	B	YEAR	12	40	180	mmol/24h
SODIUM,URINE 24HR	B	YEAR	199	80	220	mmol/24h
TOTAL PROTEIN,24HR	B	YEAR	199	0	149	mg/24h
UREA CLEARANCE	B	YEAR	1	40	75	mL/min
UREA CLEARANCE	B	YEAR	3	50	11	mL/min
UREA CLEARANCE	B	YEAR	5	70	130	mL/min
UREA CLEARANCE	F	YEAR	60	70	125	mL/min
UREA CLEARANCE	M	YEAR	60	70	135	mL/min
UREA CLEARANCE	F	YEAR	199	50	105	mL/min
UREA CLEARANCE	M	YEAR	199	50	115	mL/min
UREA NITROGEN,24HR	B	YEAR	199	7.0	20.0	g/24h
URIC ACID,URINE 24HR	B	YEAR	199	150	990	mg/24h

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
THYROID						
FREE T4 INDEX	B	DAY	3	2.9	8.3	
FREE T4 INDEX	B	DAY	7	2.8	7.4	
FREE T4 INDEX	B	DAY	30	2.6	6.5	
FREE T4 INDEX	B	DAY	60	2.2	6.0	
FREE T4 INDEX	B	YEAR	1	1.8	5.5	
FREE T4 INDEX	B	YEAR	10	1.6	4.4	
FREE T4 INDEX	B	YEAR	199	1.6	4.7	
T3 UPTAKE	B	YEAR	199	31	39	%
T4 (THYROXINE)	B	DAY	3	9.4	21.3	ug/dL
T4 (THYROXINE)	B	DAY	7	8.9	19.0	ug/dL
T4 (THYROXINE)	B	DAY	30	8.4	16.7	ug/dL
T4 (THYROXINE)	B	DAY	60	7.0	15.3	ug/dL
T4 (THYROXINE)	B	YEAR	1	5.7	14.0	ug/dL
T4 (THYROXINE)	B	YEAR	10	5.2	11.2	ug/dL
T4 (THYROXINE)	B	YEAR	199	4.7	13.3	ug/dL
THYROXINE,FREE	B	YEAR	199	0.60	1.50	ng/dL
T3 (TRIIODOTHYRONINE)	B	DAY	3	100	470	ng/dL
T3 (TRIIODOTHYRONINE)	B	DAY	7	100	355	ng/dL
T3 (TRIIODOTHYRONINE)	B	DAY	30	100	330	ng/dL
T3 (TRIIODOTHYRONINE)	B	DAY	60	100	315	ng/dL
T3 (TRIIODOTHYRONINE)	B	YEAR	1	100	300	ng/dL
T3 (TRIIODOTHYRONINE)	B	YEAR	5	100	275	ng/dL
T3 (TRIIODOTHYRONINE)	B	YEAR	10	80	230	ng/dL
T3 (TRIIODOTHYRONINE)	B	YEAR	20	70	220	ng/dL
T3 (TRIIODOTHYRONINE)	B	YEAR	199	60	200	ng/dL
TSH	B	DAY	2	0.70	11.00	uIU/mL
TSH	B	DAY	14	0.35	6.50	uIU/mL
TSH	B	YEAR	199	0.36	3.74	uIU/mL

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
TSH, HIGH SENSITIVITY	B	YEAR	199	0.35	5.50	mIU/mL
HORMONES/MISC						
ACTH	B	YEAR	199	0	46	pg/mL
ANTI-THYROGLOBULIN AB	B	YEAR	199	0.0	40	IU/mL
ANTITHYROID PEROXIDASE AB	B	YEAR	199	0.0	34	IU/mL
C PEPTIDE	B	YEAR	199	1.1	5.0	ng/mL
CA19-9	B	YEAR	199	0.00	30.90	U/mL
CA27.29 (CA15-3)	B	YEAR	199	0.0	38.6	U/mL
CANCER AG 125	B	YEAR	199	0.0	30.2	U/mL
CORTISOL - A.M.	B	DAY	30	2.0	10.0	ug/dL
CORTISOL - A.M.	B	YEAR	1	3.0	23.0	ug/dL
CORTISOL - A.M.	B	YEAR	5	3.0	21.0	ug/dL
CORTISOL - A.M.	B	YEAR	16	4.0	20.0	ug/dL
CORTISOL - A.M.	B	YEAR	199	5.0	20.0	ug/dL
CORTISOL - P.M.	B	DAY	30	1.0	5.0	ug/dL
CORTISOL - P.M.	B	YEAR	1	1.5	11.5	ug/dL
CORTISOL - P.M.	B	YEAR	5	1.5	10.0	ug/dL
CORTISOL - P.M.	B	YEAR	16	2.0	10.0	ug/dL
CORTISOL - P.M.	B	YEAR	199	2.5	10.0	ug/dL
CORTISOL,UNSPECIFIED	B	DAY	30	1.0	10.0	ug/dL
CORTISOL,UNSPECIFIED	B	YEAR	1	1.5	23.0	ug/dL
CORTISOL,UNSPECIFIED	B	YEAR	5	1.5	20.0	ug/dL
CORTISOL,UNSPECIFIED	B	YEAR	16	2.0	20.0	ug/dL
CORTISOL,UNSPECIFIED	B	YEAR	199	2.5	20.0	ug/dL
CORTISOL-FREE,URINE	B	YEAR	10	2	30	ug/24h
CORTISOL-FREE,URINE	B	YEAR	20	5	60	ug/24h

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
CORTISOL-FREE, URINE	B	YEAR	199	24	100	ug/24h
DHEA SULFATE	F	DAY	15	10	248	ug/dL
DHEA SULFATE	M	DAY	15	12	254	ug/dL
DHEA SULFATE	F	YEAR	5	5	55	ug/dL
DHEA SULFATE	M	YEAR	5	1	41	ug/dL
DHEA SULFATE	F	YEAR	9	2	140	ug/dL
DHEA SULFATE	M	YEAR	9	2	145	ug/dL
DHEA SULFATE	F	YEAR	11	12	160	ug/dL
DHEA SULFATE	M	YEAR	11	15	115	ug/dL
DHEA SULFATE	F	YEAR	17	20	535	ug/dL
DHEA SULFATE	M	YEAR	17	20	555	ug/dL
DHEA SULFATE	F	YEAR	30	65	395	ug/dL
DHEA SULFATE	M	YEAR	30	108	640	ug/dL
DHEA SULFATE	F	YEAR	50	12	379	ug/dL
DHEA SULFATE	M	YEAR	50	95	530	ug/dL
DHEA SULFATE	F	YEAR	60	30	260	ug/dL
DHEA SULFATE	M	YEAR	60	70	310	ug/dL
DHEA SULFATE	F	YEAR	199	13	130	ug/dL
DHEA SULFATE	M	YEAR	199	28	290	ug/dL
ESTRADIOL		EARLY FOLLICULAR		10	150	pg/mL
		MID CYCLE		250	600	pg/mL
		LATE FOLLICULAR		5	300	pg/mL
		LUTEAL PHASE		50	300	pg/mL
		POSTMENOPAUSE		0	20	pg/mL
		PREPUBERTY		0	20	pg/mL
		FEMALE 10-18Y		8	110	pg/mL
		MALE 10-18Y			<20	pg/mL
		ADULT MALE		10	50	pg/mL
FERRITIN	F	YEAR	199	8	150	ng/mL
FERRITIN	M	YEAR	199	20	300	ng/mL
FOLATE	B	YEAR	199		> 5.0	ng/mL
FOLATE-RBC	B	YEAR	199	69	207	ng/mL

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
FSH		FOLLICULAR	2-12			mIU/mL
		MID-CYCLE	12-25			mIU/mL
		LUTEAL PHASE	2-12			mIU/mL
		MENOPAUSE	30-150			mIU/mL
		PREPUBERTY	50% ADULT			mIU/mL
		ADULT MALE	2-10			mIU/mL
HCG		INFANTS	0-1			mIU/mL
		NON-PREGNANT FEMALE			< 5	mIU/mL
	MALE				< 5	mIU/mL
INSULIN	B	YEAR	199	6	27	µIU/mL
LUTEINIZING HORMONE		FOLLICULAR PHASE	1.5 - 10.0			
		MID-CYCLE	13.0 - 72.0			
		LUTEAL PHASE	0.5 - 13.0			
		MENOPAUSE	15.0 - 65.0			
		PREPUBERTY	0 - 3.0			
		CHILDREN	0 - 6.0			
	ADULT MALE	1.0 - 9.0				
PROLACTIN	B	DAY	7	30	300	ng/mL
PROLACTIN	B	DAY	30	10	100	ng/mL
PROLACTIN	B	DAY	60	5	30	ng/mL
PROLACTIN	F	YEAR	199	6	20	ng/mL
PROLACTIN	M	YEAR	199	4	18	ng/mL
PROSTATIC SPECIFIC AG	F	YEAR	199	0.00	0.10	ng/mL
PROSTATIC SPECIFIC AG	M	YEAR	199	0.00	4.00	ng/mL
PTH	B	YEAR	199	14.00	72.00	pg/mL
TESTOSTERONE	F	DAY	5	10	65	ng/dL
TESTOSTERONE	M	DAY	5	75	400	ng/dL
TESTOSTERONE	M	DAY	60	60	400	ng/dL

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
TESTOSTERONE	M	DAY	90	30	350	ng/dL
TESTOSTERONE	M	DAY	150	20	200	ng/dL
TESTOSTERONE	M	DAY	210	10	60	ng/dL
TESTOSTERONE	F	YEAR	9	0	30	ng/dL
TESTOSTERONE	M	YEAR	9	0	30	ng/dL
TESTOSTERONE	F	YEAR	17	0	45	ng/dL
TESTOSTERONE	M	YEAR	17	0	970	ng/dL
TESTOSTERONE	F	YEAR	199	0	70	ng/dL
TESTOSTERONE	M	YEAR	199	240	1000	ng/dL
TESTOSTERONE,FREE	F	DAY	15	0.10	0.30	ng/dL
TESTOSTERONE,FREE	M	DAY	15	0.10	1.15	ng/dL
TESTOSTERONE,FREE	M	DAY	90	0.15	1.50	ng/dL
TESTOSTERONE,FREE	M	DAY	150	0.05	0.50	ng/dL
TESTOSTERONE,FREE	M	DAY	210	0.00	0.20	ng/dL
TESTOSTERONE,FREE	F	YEAR	10	0.00	0.10	ng/dL
TESTOSTERONE,FREE	M	YEAR	10	0.00	0.05	ng/dL
TESTOSTERONE,FREE	F	YEAR	17	0.00	0.70	ng/dL
TESTOSTERONE,FREE	M	YEAR	17	0.05	10.00	ng/dL
TESTOSTERONE,FREE	F	YEAR	199	0.10	0.80	ng/dL
TESTOSTERONE,FREE	M	YEAR	199	2.50	10.50	ng/dL
% FREE TESTOSTERONE	F	DAY	15	0.59	1.59	%
% FREE TESTOSTERONE	M	DAY	15	0.35	1.00	%
% FREE TESTOSTERONE	F	DAY	90	0.39	1.10	%
% FREE TESTOSTERONE	M	DAY	90	0.45	1.25	%
% FREE TESTOSTERONE	F	DAY	150	0.39	1.10	%
% FREE TESTOSTERONE	M	DAY	150	0.15	0.63	%
% FREE TESTOSTERONE	F	DAY	210	0.39	1.10	%
% FREE TESTOSTERONE	M	DAY	210	0.15	0.57	%
% FREE TESTOSTERONE	F	YEAR	10	0.39	1.10	%
% FREE TESTOSTERONE	M	YEAR	10	0.15	0.52	%
% FREE TESTOSTERONE	F	YEAR	17	0.49	1.39	%
% FREE TESTOSTERONE	M	YEAR	17	0.15	1.75	%
% FREE TESTOSTERONE	F	YEAR	199	0.59	1.59	%

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
% FREE TESTOSTERONE	M	YEAR	199	0.62	1.75	%
THYROGLOBULIN	B	YEAR	199	1.7	56.0	ng/mL
VITAMIN B12	B	YEAR	199	211	911	pg/mL
ANTICARDIOLIPIN AB IGG	B	YEAR	199		NEGATIVE <10, EQUIVOCAL 10- 11.9, POSITIVE >11.9	GPL U/mL
ANTICARDIOLIPIN AB I IGM	B	YEAR	199		NEGATIVE <10, EQUIVOCAL 10- 11.9, POSITIVE >11.9	MPL U/mL
ANTICARDIOLIPIN AB IGA	B	YEAR	199		NEGATIVE <8, EQUIVOCAL 8 - 9.9, POSITIVE >=10	APL U/mL

HEMATOLOGY

ESR-WESTERGREN	B	DAY	60	0	6	mm/h
ESR-WESTERGREN	B	YEAR	16	0	13	mm/h
ESR-WESTERGREN	F	YEAR	50	0	20	mm/h
ESR-WESTERGREN	M	YEAR	50	0	10	mm/h
ESR-WESTERGREN	F	YEAR	199	0	30	mm/h
ESR-WESTERGREN	M	YEAR	199	0	20	mm/h
HCT	B	DAY	30	45	65	%
HCT	B	DAY	60	31	55	%
HCT	B	DAY	180	29	41	%
HCT	B	YEAR	2	33	39	%

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
HCT	B	YEAR	5	34	40	%
HCT	B	YEAR	6	34	40	%
HCT	B	YEAR	12	35	45	%
HCT	F	YEAR	18	36	46	%
HCT	M	YEAR	18	37	49	%
HCT	F	YEAR	199	36	46	%
HCT	M	YEAR	199	41	52	%
HGB	B	DAY	30	14.5	22.0	g/dL
HGB - RPIC	B	DAY	60	14.5	18.0	g/dL
HGB - UNSPECIFIED	B	DAY	60	10.0	18.0	g/dL
HGB	B	DAY	180	9.5	13.5	g/dL
HGB	B	YEAR	2	10.5	13.5	g/dL
HGB	B	YEAR	5	11.5	13.5	g/dL
HGB	B	YEAR	6	11.5	13.5	g/dL
HGB	B	YEAR	12	11.5	15.5	g/dL
HGB	F	YEAR	18	12.0	16.0	g/dL
HGB	M	YEAR	18	13.0	16.0	g/dL
HGB	F	YEAR	199	12.0	16.0	g/dL
HGB	M	YEAR	199	13.5	17.5	g/dL
MCH	B	DAY	30	31	37	pg
MCH	B	DAY	60	28	40	pg
MCH	B	DAY	180	23	35	pg
MCH	B	YEAR	2	23	31	pg
MCH	B	YEAR	5	24	30	pg
MCH	B	YEAR	6	24	30	pg
MCH	B	YEAR	12	25	33	pg
MCH	B	YEAR	18	25	35	pg
MCH	B	YEAR	199	26	34	pg
MCHC	B	DAY	30	30	36	g/dL
MCHC	B	DAY	60	29	37	g/dL
MCHC	B	DAY	180	30	36	g/dL
MCHC	B	YEAR	2	30	36	g/dL

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MCHC	B	YEAR	5	31	37	g/dL
MCHC	B	YEAR	18	31	37	g/dL
MCHC	B	YEAR	199	32	36	g/dL
MCV	B	DAY	30	98	118	fL
MCV	B	DAY	60	85	123	fL
MCV	B	DAY	180	74	108	fL
MCV	B	YEAR	2	70	86	fL
MCV	B	YEAR	5	75	87	fL
MCV	B	YEAR	6	75	87	fL
MCV	B	YEAR	12	77	95	fL
MCV	F	YEAR	18	78	102	fL
MCV	M	YEAR	18	78	98	fL
MCV	B	YEAR	199	80	100	fL
MPV	B	YEAR	199	7.2	11.1	fL
PLT	B	YEAR	18	150	400	X10E9/L
PLT	B	YEAR	199	150	450	X10E9/L
RBC	B	DAY	12	4.0	5.2	X10E12/L
RBC	B	DAY	30	3.9	5.5	X10E12/L
RBC	B	DAY	60	3.0	5.4	X10E12/L
RBC	B	DAY	180	3.1	4.5	X10E12/L
RBC	B	YEAR	2	3.7	5.3	X10E12/L
RBC	B	YEAR	5	3.9	5.3	X10E12/L
RBC	B	YEAR	6	3.9	5.3	X10E12/L
RBC	B	YEAR	12	4.0	5.2	X10E12/L
RBC	F	YEAR	18	4.1	5.1	X10E12/L
RBC	M	YEAR	18	4.5	5.3	X10E12/L
RBC	F	YEAR	199	4.0	5.2	X10E12/L
RBC	M	YEAR	199	4.5	5.9	X10E12/L
RDW-CV	B	YEAR	199	11.5	14.5	%

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 UHLSF LABORATORIES
 11100 EUCLID AVENUE
 CLEVELAND, OHIO 44106-5199
 PHONE 216-844-5227

This list covers all UHLSF sites

SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
RDW-SD	B	YEAR	199	18	60	fL
RETIC #	B	DAY	2	0.080	0.440	x10E12/L
RETIC #	B	DAY	13	0.040	0.310	x10E12/L
RETIC #	B	DAY	27	0.004	0.060	x10E12/L
RETIC #	B	DAY	150	0.003	0.055	x10E12/L
RETIC #	F	YEAR	65	0.018	0.083	x10E12/L
RETIC #	M	YEAR	65	0.022	0.118	x10E12/L
RETIC #	B	YEAR	199	0.017	0.110	x10E12/L
RETIC %	B	YEAR	199	0.5	2.0	%
WBC	B	DAY	7	9.0	30.0	X10E9/L
WBC	B	DAY	30	5.0	21.0	X10E9/L
WBC	B	DAY	60	5.0	19.5	X10E9/L
WBC	B	YEAR	5	6.0	17.5	X10E9/L
WBC	B	YEAR	10	6.0	17.5	X10E9/L
WBC	B	YEAR	18	4.5	13.5	X10E9/L
WBC	B	YEAR	199	4.4	11.3	X10E9/L
HEMATOLOGY - DIFFERENTIAL						
BAND NEUTROPHIL	B	DAY	1	1.60	4.70	X10E9/L
BAND NEUTROPHIL	B	DAY	7	0.80	1.40	X10E9/L
BAND NEUTROPHIL	B	DAY	28	1.00	1.40	X10E9/L
BAND NEUTROPHIL	B	DAY	60	0.90	1.20	X10E9/L
BAND NEUTROPHIL	B	YEAR	4	0.80	1.10	X10E9/L
BAND NEUTROPHIL	B	YEAR	5	0.00	0.70	X10E9/L
BAND NEUTROPHIL	B	YEAR	70	0.00	0.70	X10E9/L
BAND NEUTROPHIL	B	YEAR	199	0.00	0.50	X10E9/L
BASOPHIL	B	DAY	1	0.00	0.60	x10E9/L
BASOPHIL	B	DAY	7	0.00	0.30	x10E9/L
BASOPHIL	B	DAY	28	0.00	0.20	x10E9/L
BASOPHIL	B	DAY	60	0.00	0.10	x10E9/L
BASOPHIL	B	YEAR	5	0.00	0.10	x10E9/L

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
BASOPHIL	B	YEAR	199	0.00	0.10	x10E9/L
EOSINOPHIL	B	DAY	1	0.40	0.90	x10E9/L
EOSINOPHIL	B	DAY	7	0.30	0.90	x10E9/L
EOSINOPHIL	B	DAY	28	0.30	0.90	x10E9/L
EOSINOPHIL	B	DAY	60	0.10	0.80	x10E9/L
EOSINOPHIL	B	YEAR	4	0.10	0.80	x10E9/L
EOSINOPHIL	B	YEAR	5	0.00	0.70	x10E9/L
EOSINOPHIL	B	YEAR	70	0.00	0.70	x10E9/L
EOSINOPHIL	B	YEAR	199	0.00	0.40	x10E9/L
LYMPHOCYTE	B	DAY	1	2.00	17.00	x10E9/L
LYMPHOCYTE	B	DAY	7	2.30	12.00	x10E9/L
LYMPHOCYTE	B	DAY	28	3.00	10.00	x10E9/L
LYMPHOCYTE	B	DAY	60	3.00	10.00	x10E9/L
LYMPHOCYTE	B	YEAR	4	2.50	8.00	x10E9/L
LYMPHOCYTE	B	YEAR	5	2.00	4.80	x10E9/L
LYMPHOCYTE	B	YEAR	70	1.20	4.80	x10E9/L
LYMPHOCYTE	B	YEAR	199	0.80	3.00	x10E9/L
LYMPH-ATYPICAL	B	DAY	1	0.00	1.70	x10E9/L
LYMPH-ATYPICAL	B	DAY	7	0.00	1.50	x10E9/L
LYMPH-ATYPICAL	B	DAY	28	0.00	1.30	x10E9/L
LYMPH-ATYPICAL	B	DAY	60	0.00	1.10	x10E9/L
LYMPH-ATYPICAL	B	YEAR	4	0.00	0.90	x10E9/L
LYMPH-ATYPICAL	B	YEAR	5	0.00	0.70	x10E9/L
LYMPH-ATYPICAL	B	YEAR	70	0.00	0.50	x10E9/L
LYMPH-ATYPICAL	B	YEAR	199	0.00	0.30	x10E9/L
MONOCYTE	B	DAY	1	0.40	1.70	X10E9/L
MONOCYTE	B	DAY	7	0.70	1.20	X10E9/L
MONOCYTE	B	DAY	28	0.70	1.20	X10E9/L
MONOCYTE	B	DAY	60	0.50	1.00	X10E9/L
MONOCYTE	B	YEAR	4	0.50	1.00	X10E9/L
MONOCYTE	B	YEAR	5	0.10	1.00	X10E9/L

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
MONOCYTE	B	YEAR	70	0.10	1.00	X10E9/L
MONOCYTE	B	YEAR	199	0.05	0.80	X10E9/L
NEUTROPHIL	B	DAY	1	3.20	18.20	X10E9/L
NEUTROPHIL	B	DAY	7	2.20	6.80	X10E9/L
NEUTROPHIL	B	DAY	28	3.60	6.40	X10E9/L
NEUTROPHIL	B	DAY	60	1.90	5.20	X10E9/L
NEUTROPHIL	B	YEAR	4	1.80	4.60	X10E9/L
NEUTROPHIL	B	YEAR	5	1.20	7.70	X10E9/L
NEUTROPHIL	B	YEAR	70	1.20	7.70	X10E9/L
NEUTROPHIL	B	YEAR	199	1.60	5.50	X10E9/L
SEG NEUTROPHIL	B	DAY	1	1.60	14.50	X10E9/L
SEG NEUTROPHIL	B	DAY	7	1.40	5.40	X10E9/L
SEG NEUTROPHIL	B	DAY	28	2.60	5.00	X10E9/L
SEG NEUTROPHIL	B	DAY	60	1.00	4.00	X10E9/L
SEG NEUTROPHIL	B	YEAR	4	1.00	3.50	X10E9/L
SEG NEUTROPHIL	B	YEAR	5	1.20	7.00	X10E9/L
SEG NEUTROPHIL	B	YEAR	70	1.20	7.00	X10E9/L
SEG NEUTROPHIL	B	YEAR	199	1.60	5.00	X10E9/L
COAGULATION-ROUTINE						
ACTIVATED CLOTTING TIME	B	YEAR	199	102	142	sec
APTT	B	DAY	1	31	55	sec
APTT	B	DAY		25	60	sec
APTT	B	DAY	30	26	55	sec
APTT	B	DAY	90	24	50	sec
APTT	B	DAY	180	28	43	sec
APTT	B	YEAR	199	25	31	sec
FIBRINOGEN	B	DAY	1	167	399	mg/dL
FIBRINOGEN	B	DAY	5	162	462	mg/dL
FIBRINOGEN	B	DAY	30	162	378	mg/dL
FIBRINOGEN	B	DAY	90	150	379	mg/dL

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
FIBRINOGEN	B	DAY	180	150	387	mg/dL
FIBRINOGEN	B	YEAR	199	140	400	mg/dL
PROTHROMBIN TIME	B	DAY	1	10.1	15.9	sec
PROTHROMBIN TIME	B	DAY	5	9.5	15.3	sec
PROTHROMBIN TIME	B	DAY	30	9.3	14.3	sec
PROTHROMBIN TIME	B	DAY	90	9.6	14.2	sec
PROTHROMBIN TIME	B	DAY	180	10.7	13.9	sec
PROTHROMBIN TIME	B	YEAR	199	9.7	11.7	sec
PT, INR	B	YEAR	199	0.9	1.1	
PEDIATRIC REFERENCE RANGES NOT ESTABLISHED						
COAGULATION-SPECIAL						
ACT. PROTEIN C RESIST.	B	YEAR	199		> 2.0	
ANTITHROMBIN	PEDIATRIC			CALL LAB		
ANTITHROMBIN	B	YEAR	18	0.0	0.0	%Activity
ANTITHROMBIN	B	YEAR	199	80.0	120.0	%Activity
ANTI-FACTOR X _a , UNFRACT.	B	YEAR	199	0.3	0.7	IU/mL
ANTI-FACTOR X _a , LOVENOX	B	YEAR	199	0.6	1.0	IU/mL
CLOSURE TIME, EPI	B	YEAR	199	82	160	SEC
CLOSURE TIME, ADP	B	YEAR	199	62	110	
D-DIMER	B	YEAR	199	</= 0.5		mg/L

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
D-DIMER, VIDAS	B	YEAR	199	< 500 ng/mL (FEU) may help to exclude DVT and/or PE in OUTPATIENTS, 500 - 600 ng/mL (FEU) : EQUIVOCAL		
FACTOR II	B	DAY	1	26	70	%
FACTOR II	B	DAY	5	33	93	%
FACTOR II	B	DAY	30	34	102	%
FACTOR II	B	DAY	90	45	105	%
FACTOR II	B	DAY	180	60	116	%
FACTOR II	B	YEAR	199	50	150	%
FACTOR IX	B	DAY	5	15	91	%
FACTOR IX	B	DAY	30	21	81	%
FACTOR IX	B	DAY	90	21	113	%
FACTOR IX	B	DAY	180	36	136	%
FACTOR IX	B	YEAR	199	55	180	%
FACTOR V	B	DAY	1	36	108	%
FACTOR V	B	DAY	5	45	145	%
FACTOR V	B	DAY	30	62	134	%
FACTOR V	B	DAY	90	48	132	%
FACTOR V	B	DAY	180	55	127	%
FACTOR V	B	YEAR	199	55	155	%
FACTOR VII	B	DAY	1	28	104	%
FACTOR VII	B	DAY	5	35	143	%
FACTOR VII	B	DAY	30	42	138	%
FACTOR VII	B	DAY	90	39	143	%
FACTOR VII	B	DAY	180	47	127	%
FACTOR VII	B	YEAR	199	55	175	%

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
FACTOR VIII	B	DAY	1	50	178	%
FACTOR VIII	B	DAY	5	50	154	%
FACTOR VIII	B	DAY	30	50	157	%
FACTOR VIII	B	DAY	90	50	125	%
FACTOR VIII	B	DAY	180	50	109	%
FACTOR VIII	B	YEAR	199	55	180	%
FACTOR X	B	DAY	1	12	68	%
FACTOR X	B	DAY	5	19	79	%
FACTOR X	B	DAY	30	31	87	%
FACTOR X	B	DAY	90	35	107	%
FACTOR X	B	DAY	180	38	118	%
FACTOR X	B	YEAR	199	50	150	%
FACTOR XI	B	DAY	1	10	66	%
FACTOR XI	B	DAY	5	23	87	%
FACTOR XI	B	DAY	30	27	79	%
FACTOR XI	B	DAY	90	41	97	%
FACTOR XI	B	DAY	180	38	134	%
FACTOR XI	B	YEAR	199	55	170	%
FACTOR XII	B	DAY	1	13	93	%
FACTOR XII	B	DAY	5	11	83	%
FACTOR XII	B	DAY	30	17	81	%
FACTOR XII	B	DAY	90	25	109	%
FACTOR XII	B	DAY	180	39	115	%
FACTOR XII	B	YEAR	199	50	175	%
KAOLIN CLOTTING TIME	B	YEAR	199	< / = 1.29		
LA RATIO	B	YEAR	199	< / = 1.2 :NEG > 1.2 :POS		
LUPUS ANTICOAGULANT	B	YEAR	199	< / = 47 :NEGATIVE		sec

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SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
PROTEIN C ACTIVITY	B	YEAR	18	0	0	%
PROTEIN C ACTIVITY	B	YEAR	199	70	130	%
PROTEIN S ACTIVITY	B	YEAR	18	0	0	%
PROTEIN S ACTIVITY	F	YEAR	199	57	151	%
PROTEIN S ACTIVITY	M	YEAR	199	69	151	%
PROTEIN S ANTIGEN, TOTAL	F	YEAR	199	50	155	%
PROTEIN S ANTIGEN, TOTAL	M	YEAR	199	60	130	%
PROTEIN S ANTIGEN, FREE	F	YEAR	199	50	135	%
PROTEIN S ANTIGEN, FREE	M	YEAR	199	80	150	%
THROMBIN TIME	B	YEAR	199	16.0	20.0	SEC
TISSUE THROM. INHIBITION	B	YEAR	199	< 1.29		
VWF ANTIGEN	B	YEAR	199	50	200	%
VWF, RISTOCETIN COFACTOR	B	YEAR	199	58	160	%
FLOW CYTOMETRY CD4/CD8						
CD3+CD4+ %	B	YEAR	199	29	57	%
CD3+CD4+ ABSOLUTE	B	DAY	60	0.730	7.700	X10E9/L
CD3+CD4+ ABSOLUTE	B	YEAR	5	0.650	3.650	X10E9/L
CD3+CD4+ ABSOLUTE	B	YEAR	199	0.350	2.740	X10E9/L
CD3+CD8+ %	B	YEAR	199	7	31	%
CD3+CD8+ ABSOLUTE	B	DAY	60	0.180	4.190	X10E9/L
CD3+CD8+ ABSOLUTE	B	YEAR	5	0.160	1.980	X10E9/L
CD3+CD8+ ABSOLUTE	B	YEAR	199	0.080	1.490	X10E9/L
CD4/CD8 RATIO	B	YEAR	199	1.00	3.50	

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
CD19 %	B	YEAR	199	6	19	%
CD19 ABSOLUTE	B	DAY	60	0.120	3.230	X10E9/L
CD19 ABSOLUTE	B	YEAR	5	0.150	1.520	X10E9/L
CD19 ABSOLUTE	B	YEAR	199	0.070	0.910	X10E9/L
CD3 %	B	YEAR	199	59	87	%
CD3 ABSOLUTE	B	DAY	60	1.180	14.790	X10E9/L
CD3 ABSOLUTE	B	YEAR	5	1.180	6.960	X10E9/L
CD3 ABSOLUTE	B	YEAR	199	0.710	4.180	X10E9/L
URINALYSIS						
pH	B	YEAR	199	5	8	
SPECIFIC GRAVITY	B	DAY	30	1.002	1.012	
SPECIFIC GRAVITY	B	DAY	60	1.002	1.012	
SPECIFIC GRAVITY	B	YEAR	3	1.002	1.022	
SPECIFIC GRAVITY	B	YEAR	5	1.016	1.022	
SPECIFIC GRAVITY	B	YEAR	199	1.016	1.022	
UROBILINOGEN	B	YEAR	199	0.2	1.0	EU/dL
PROTEIN				NEGATIVE		
GLUCOSE				NEGATIVE		
BLOOD/HEMOGLOBIN				NEGATIVE		
KETONE				NEGATIVE		
BILIRUBIN				NEGATIVE		
NITRITE/BACTERIA				NEGATIVE		

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
LEUKOCYTE ESTERASE/WBC				NEGATIVE		
URINE MICROSCOPIC						
WBC				0	5	/HPF
RBC				0	5	/HPF
CASTS				NONE		/HPF
SERUM PROTEIN ELECTROPHORESIS						
TOTAL PROTEIN	B	DAY	1	4	7.5	g/dL
TOTAL PROTEIN	B	DAY	7	4.5	7.5	g/dL
TOTAL PROTEIN	B	DAY	60	4.5	7.1	g/dL
TOTAL PROTEIN	B	YEAR	1	4.6	7	g/dL
TOTAL PROTEIN	B	YEAR	5	5.6	8.1	g/dL
TOTAL PROTEIN	B	YEAR	199	6.4	8.2	g/dL
ALBUMIN	B	DAY	1	2.4	4.8	g/dL
ALBUMIN	B	DAY	60	2.9	4.5	g/dL
ALBUMIN	B	YEAR	5	3.4	5.1	g/dL
ALBUMIN	B	YEAR	15	3.4	5.2	g/dL
ALBUMIN	B	YEAR	199	3.4	5	g/dL
ALPHA 1 GLOBULIN	B	YEAR	199	0.2	0.6	g/dL
ALPHA 2 GLOBULIN	B	DAY	7	0.3	0.7	g/dL
ALPHA 2 GLOBULIN	B	DAY	60	0.3	0.8	g/dL
ALPHA 2 GLOBULIN	B	DAY	120	0.3	0.9	g/dL
ALPHA 2 GLOBULIN	B	YEAR	5	0.4	1	g/dL
ALPHA 2 GLOBULIN	B	YEAR	199	0.4	1.1	g/dL
BETA GLOBULIN	B	DAY	60	0.3	0.8	g/dL
BETA GLOBULIN	B	YEAR	1	0.4	1	g/dL
BETA GLOBULIN	B	YEAR	5	0.5	1.1	g/dL
BETA GLOBULIN	B	YEAR	199	0.5	1.2	g/dL
GAMMA GLOBULIN	B	DAY	14	0.5	1.4	g/dL

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
GAMMA GLOBULIN	B	DAY	150	0.2	0.9	g/dL
GAMMA GLOBULIN	B	YEAR	2	0.4	1.1	g/dL
GAMMA GLOBULIN	B	YEAR	6	0.4	1.2	g/dL
GAMMA GLOBULIN	B	YEAR	199	0.5	1.4	g/dL

URINE PROTEIN ELECTROPHORESIS

TOTAL PROTEIN	B	YEAR	199	0	120	mg/L
ALBUMIN	B	YEAR	199	0	39	mg/L
ALPHA 1 GLOBULIN	B	YEAR	199	0	11.1	mg/L
ALPHA 2 GLOBULIN	B	YEAR	199	0.9	14.1	mg/L
BETA GLOBULIN	B	YEAR	199	0	15.9	mg/L
GAMMA GLOBULIN	B	YEAR	199	0	12.5	mg/L

VIRAL MARKERS

HEPATITIS A AB IGM	B	YEAR	199	NONREACTIVE
HEPATITIS A AB TOTAL	B	YEAR	199	NONREACTIVE
HEPATITIS B SURF AG	B	YEAR	199	NONREACTIVE
HEPATITIS B SURF AB	B	YEAR	199	NONREACTIVE
HEPATITIS B CORE AB IGM	B	YEAR	199	NONREACTIVE
HEPATITIS C AB	B	YEAR	199	NONREACTIVE
HIV	B	YEAR	199	NONREACTIVE
CMV AB IGM	B	YEAR	199	< 0.9 :NEG, 0.9 - 1.0 :EQUIVOCAL, >= 1.1 :POSITIVE
CMV AB IGG	B	YEAR	199	< 0.9 :NEG, 0.9 - 1.0 :EQUIVOCAL, >= 1.1 :POSITIVE

THE MEASURED RESULT, IS NOT INDICATIVE OF THE TOTAL AMOUNT OF ANTIBODY PRESENT

URINE DRUG SCREEN

AMPHETAMINES	B	YEAR	199	NEGATIVE
BARBITURATES	B	YEAR	199	NEGATIVE
BENZODIAZAPINE	B	YEAR	199	NEGATIVE
CANNABINOIDS	B	YEAR	199	NEGATIVE
COCAINE	B	YEAR	199	NEGATIVE
METHADONE	B	YEAR	199	NEGATIVE
OPIATES	B	YEAR	199	NEGATIVE
PCP	B	YEAR	199	NEGATIVE
PROPOXYPHENE	B	YEAR	199	NEGATIVE

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NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
ALCOHOL	B	YEAR	199		<20 NOT DETECTABLE	
					20-500 INGESTION	
					>500 CRITICAL VALUE	
MISCELLANEOUS - SPECIAL CHEMISTRY						
ANA	B	YEAR	199		NEGATIVE	
ANTI-CENTROMERE	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-CHROMATIN	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-DNA, DS	B	YEAR	199	< = 4 :NEGATED		
				5 - 9 :EQUIVOCAL		
				> = 10 :POSITIVE		
ANTI-JO 1	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-RIBOSOMAL P	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-RNP	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-SM/RNP	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-SM (AUTOMATED)	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-SSA	B	YEAR	199	< 1.0 :NEGATIVE		
				> = 1.0 :POSITIVE		
ANTI-SSB	B	YEAR	199	< 1.0 :NEGATIVE		

UNIVERSITY HOSPITALS LABORATORY SERVICES

REFERENCE RANGES AS OF

10/01/10

UNIVERSITY HOSPITALS
 UHLSF LABORATORIES
 11100 EUCLID AVENUE
 CLEVELAND, OHIO 44106-5199
 PHONE 216-844-5227

This list covers all UHLSF sites

SEX: M (MALE) F (FEMALE) B (BOTH)

NAME	SEX	AGE	LIMIT	LOW	HIGH	UNITS
				> = 1.0		:POSITIVE
ANTI-SCL 70	B	YEAR	199	< 1.0		:NEGATIVE
				> = 1.0		:POSITIVE
ANTI-SMOOTH MUSCLE AB	B	YEAR	199			NEGATIVE
ANTI-MITOCHONDRIAL AB	B	YEAR	199			NEGATIVE
MYCO. PNEUMONIAE IGM AB	B	YEAR	199	< 1:20		
MYCO. PNEUMONIAE IGG AB	B	YEAR	199	< 1:40		
PHENYLALANINE	B	YEAR	199	0.7	3.0	mg/dL

Above are the reference ranges included in the Differential reported by UHC

Absolute Neutrophil counts are not reported as a separate result with the CBC/Differential

University Hospitals UHLSF Laboratories does not provide reference ranges for WBC diffs that are reported as a percent. This method of reporting is obsolete. Instead, reference ranges are reported for absolute WBC counts. If your protocol is asking for this reference range, please tell them this lab does not report WBC diffs as percentages.

For example, if a person has an absolute WBC count of 10,000 with 80% PMNs and 20% lymphocytes, those results would all be normal. Now, let's say the person has an absolute WBC count of 2,000 (low) with 80% lymphocytes and 20% PMNs. This person does not have an abnormally high lymphocyte count, as the high % would suggest, because the absolute number of lymphocytes is normal or even low.