



UNIVERSITY of CALIFORNIA, SAN DIEGO
MEDICAL CENTER

UCSD Medical Center Clinical Laboratories Reference Ranges

UCSD Medical Center, Hillcrest · 200 West Arbor Drive · San Diego, CA 92103 · Director: Ronald W. McLawhon, M.D., Ph.D. · CA License ID: CLF1237 · CLIA ID: 05D0643085

UCSD Medical Center, La Jolla · 9300 Campus Point Drive · La Jolla, CA 92037 · Director: Ronald W. McLawhon, M.D. · CA License ID: CLF10482 · CLIA ID: 05D0869935

UCSD Clinical Laboratories - Torrey Pines · 10865 Road To The Cure, Suite 150 San Diego, Ca 92121 · Director: Ronald W. McLawhon, M.D. Ca License Id:clcf11173 - Clia Id:05d0913715

Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
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BLOOD GASES

AVO2 DIFF (Vol %)	vol %	3.5-5.0			
Carbon Monoxide, ART	%				Non-smoker: <1.5, Smoker: 1.5-5.0
Carbon Monoxide, VEN	%				Non-smoker: <1.5, Smoker: 1.5-5.0
HCO3, ART	mmol/L		23-29	20-29	
HCO3, VEN	mmol/L		25-30	23-28	
O2 Content, ART	vol %	15-23			
O2 Content, VEN	vol %				
O2HB, ART		95-97			
O2HB, VEN		40-70			
PCO2, ART (Temperature Corrected)	mmHG	36-46			
PCO2, VEN (Temperature Corrected)	mmHG	40-52			
PH, ART (Temperature Corrected)		7.35-7.46			
PH, VEN (Temperature Corrected)		7.33-7.40			
PO2, ART (Temperature Corrected)	mmHG	74-109			
PO2, VEN (Temperature Corrected)	mmHG	25-44			

CHEMISTRY / TOXICOLOGY

Albumin	gm/dL	3.5-5.2			
Alkaline Phos	U/L		40-129	35-140	
Alpha Fetoprotein	ng/mL	equal to or < 8.3			
ALT (SGPT)	U/L		0-41	0-33	
Amikacin, Peak	mccg/mL	20-25			
Amikacin, Trough	mccg/mL	39943			
Ammonia	umol/L	11-35	11-51	16-60	
Amylase	unit/L	28-100			
AST (SGOT)	U/L		0-40	0-32	
Bicarbonate	mmol/L	22-29			
Bilirubin, DIR	mg/dL	<0.2			
Bilirubin, TOT	mg/dL	<1.2			0-6 mos: <1.2
BNP	pg/ml	<100			
BUN	mg/dL	6-20			

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Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
C3	mg/dL	90-180			
C4	mg/dL	10-40			
CA 125	U/mL	<35			
CA 27.29	unit/mL	0-38			
Calcium	mg/dL	8.6-10.2			
Calcium, Ionized	mMol/L	1.13-1.32			
Carbamazepine	mcg/mL	8-12			
CEA	ng/mL				Healthy Nonsmoker < 3.8 ng/mL Healthy Smoker < 5.5 ng/mL
Chloride	mmol/L	98-107			
Cholesterol	mg/dL	<200			Borderline risk: 200-240 High Risk: > 240 Comment 256
CK-MB Hillcrest	ng/mL		<4.9	<2.9	
CK-MB index Hillcrest	%	<2.5			
CK-MB index Thornton	N/A	N/A			
CK-MB Thornton	ng/mL	0.6 - 6.3			
Cortisol	mcg/dL				6.2-19.4 mcg/dL (A.M.: 7-10 AM) 2.3-11.9 mcg/dL (P.M.: 4-8 PM)
CPK	IU/L	0-175			
C-Reactive Protein	mg/dL	<0.5			
Creatinine	mg/dL		0.67-1.17	0.51-0.95	
Cyclosporin A	ng/mL	125-300			Normal Values apply to renal transplant patients that are more than 3 months post-transplant.
Digoxin	ng/mL	0.9-2.0			TOXIC: >2.0 ng/mL

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Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
Estradiol	pg/mL				Follicular Phase: 13-166 ; Ovulation Phase: 86-498; Luteal Phase: 44-211; Postmenopause: <5; Male: <43; Boy (1-10 years): <20; Girl (1-10 years): <27
Ferritin	ng/mL		30-400	13-150	
Folic Acid (Folate-Serum)	ng/mL	3.1-17.5			Borderline Deficient: 2.2-3.0 ; Deficient: <2.2; Excessive: >17.5
Free T4	ng/dL	0.93-1.7			
FSH	mIU/mL				Follicular Phase: 3.5-12.5; Ovulation Phase: 4.7-21.5; Luteal Phase: 1.7-7.7
Gentamicin, Peak	mcg/mL	6.0-10.0			
Gentamicin, Trough	mcg/mL	0.5-2.0			
GGT	U/L		<61	<36	13-20 yrs: <60
Glucose	mg/dL	70-115			
Glucose, CSF	mg/dL	40-70			
Glyco HB(A1C)	%	4.8-5.9			A1C values may be understated when an abnormal hemoglobin is present.
Haptoglobin	mg/dL	30-200			
HCG Quantitative	mIU/mL				Female Non-pregnant: <6 mili International Unit /mL Female Pregnant: >10 mili International Unit /mL Male: <3 mili International Unit /mL
HDL-Cholesterol	mg/dL		>55	>65	Male (moderate risk): 35-55; Female (moderate risk): 46-65; Male (High Risk): <35; Female (High Risk): <45
IBC (TIBC)	mcg/dL	250-450			
IGA	mg/dL	70-400			
IGE	IU/mL	<100			1 yr: < 15 IU / mL 4 yrs: < 69 IU/ mL 7 yrs: <161 IU / mL 10 yrs: <170 IU / mL 14 yrs: <195 IU / mL
IGG	mg/dL	700-1600			
IGM	mg/dL	40-230			
Iron	mcg/dL		59-158	37-145	
Lactate, Plasma	mg/dL	4.5-19.8			
LDH	IU/L	25-175			
LDL-Calculated	mg/dL	<160			

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LH	m IU/mL				Follicular Phase: 2.4-12.6; Ovulation Phase: 14-95.6; Luteal Phase: 1.0-11.4; Postmenopause: 7.7-58.5; Men(<70 years): <8.6
Lidocaine	mcg/mL	2.0-5.0			CHANGE TO SENDOUT 90155
Lipase	unit/L	13-60			
Magnesium	mg/dL	1.7-2.6			
Osmolality	mOsm/Kg	280-310			
Phenobarbital	mcg/mL	10-30			
Phenytoin	mcg/mL	10-20			
Phosphorous	mg/dL	2.7-4.5			
Potassium	mmol/L	3.5-5.1			
Prealbumin	mg/dL	20-40			
Primidone	mcg/mL	5-12			CHANGE TO SENDOUT 90202
Prolactin	ng/mL		2.1-17.7		Females: Nonpregnant: 4.8 - 23.3 ng/mL Pregnant: 9.7 -208.5 ng/mL Postmenopausal: 1.8 - 20.3 ng/mL Males: 2.1 - 17.7
PSA	ng/mL	< 4.00			
PSA Diagnostic	ng/mL	< 4.00			
PSA Screen	ng/mL	< 4.00			
PTH intact	pg/mL	15-65			
RF-Cryoglobulin	IU/ml	<20			
RF-Quantitative	IU/mL	<14			
Salicylates	mg/dL	15-30			
Sodium	mmol/L	136-145			
T3 Total	ng/mL	0.8 - 2.0			
Testosterone (Male)	ng/mL		2.8 - 8.0		
Theophylline	mcg/mL	10-20			
Thyroxine (T4)	mcg/dL	4.5-10.9			
Tobramycin, Peak	mcg/mL	6.0-10.0			
Tobramycin, Trough	mcg/mL	0.5-2.0			
Total Protein	gm/dL	6.0-8.0			
Total Protein, CSF	mg/dL	15-45			
Transferrin	mg/dL	200-360			

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Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
Triglycerides	mg/dL	10-170 (fasting)			0-29 yrs: 10 - 140 30-39 yrs: 10 - 150 40-49 yrs: 10 - 160 50+ yrs: 10 - 170
Troponin T	ng/mL				Non-Diagnostic: <0.03 ng/mL ; Positive for Myocardial Damage: >0.1 ng/mL
TSH Sensitive	uIU/mL	0.27-4.2			Hyperthyroid: <0.27 uIU/mL Hypothyroid: >4.2 uIU/mL
Uric Acid	mg/dL		3.4-7.0	2.4-5.7	
Valproic Acid	mcg/mL	50-120			
Vancomycin, Peak	mcg/mL	25.0-40.0			
Vancomycin, Trough	mcg/mL	5.0-10.0			
Vitamin B12	pg/mL	211-946			

CHEMISTRY - URINE

Calcium, Urine TV	mg/TV	100-300			TV stands for Total Volume
Chloride, Urine TV	mmol	110-250			TV stands for Total Volume
Cortisol, 24 hr urine	mg/24 HR		980-2200	720-1510	
Creatinine Clearance, UR	mL/min	66-143			
Creatinine, urine TV	mg/TV		800-2000	600-1800	TV stands for Total Volume
Glucose, Urine	mg/dl	6-17			TV stands for Total Volume
Microalbumin, Urine	mg/L	<20			Timed Urine: <30 mg/24 hr
Phosphorous, Urine TV	g/24 hr	0.4-1.3			
Potassium, Urine TV	mmol/24 hr	25-125			
Sodium, Urine	mmol/24 hr	40 - 220			
Total Protein, Urine TV	mg/24 hr	<150			TV stands for Total Volume
Urea Nitrogen, Urine	gm/TV	39802			TV stands for Total Volume
Uric Acid, Urine TV	mg/24 hr	<1000			Diet Dependent

COAGULATION

Antithrombin Activity	%	80-140			
APC resistant FV (LEIDEN)		Normal			
APTT, patient	sec	25.0-34.0			
D-DIMER HS	ng/mL	0-240			240 ng/mL or less is a negative test.
DIL whole bld clot lysis	hr	>2			
DRVVT Confirm Test Ratio		<1.12			A Test Ratio >1.12 confirms the presence of a lupus anticoagulant.
Factor II activity	%	75-125			
Factor IX activity	%	65-135			

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Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
Factor V activity	%	55-135			
Factor VII activity	%	60-120			
Factor VIII activity	%	55-140			
Factor X activity	%	60-135			
Factor XI activity	%	75-165			
Factor XII activity	%	60-140			
Factor XIII/Clot lys scrn					Clots stable in 5M Urea and Saline at 24 hours
Fibrinogen	mg/dL	200-450			
HIPA		Negative			
Inhibitor Screen		Neg			
Inhibitor Titer	B units	0			
PPP		Neg			
Protein C Activity	%	70-160			
Protein S Antigen-free	%	65-145			
Protein S Antigen-Total	%	68-132			
PT, patient	sec	9.7-12.5			
Reptilase time	sec	Control +/- 4 SEC			
Ristocetin cofactor act	%	60-150			
Thrombin time	sec	12.8-16.2			
Von Willebrand Factor Ag	%	60-160			
Von Willebrand Activity	%	55-150			

HEMATOLOGY

Bands	%	0-15			
Basos	%	0-2			
Bleeding Time	min	< 7.0			
CSF-WBC count	mm ³	0-10			0-7 days: 0-30
EOS	%	1-3			
EOS smear, urine		None			
HCT	%		40.0-50.0	36.0-46.0	0-7 days: 42.0-64.0 8 days - 6 mos: 32.0-42.0 7 mos - 10 yrs: 33.0-43.0 11-14 yrs: 35.0-47.0
HGB	gm/dL		14.0-17.0	12.0-16.0	0-7 days: 14.0-24.0 8 days - 6 mos: 10.0-14.0 7 mos - 10 yrs: 11.0-14.0 11-14 yrs: 12.0-16.0

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Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
Lymph	%	20-40			0-7 days: 20-40 8 days - 6 mos: 40-70 7 mos - 14 yrs: 40-60
Malaria		None			
MCH	pgm	27-31			0-7 days: 33.0-39.0 8 days - 6 mos: 24.0-30.0 7 mos - 10 yrs: 25.0-31.0 11-14 yrs: 26.0-32.0
MCHC	%	32-37			
MCV	um3	82.0-98.0			0-7 days: 100.0-115.0 8 days - 6 mos: 72.0-88.0 7 mos - 10 yrs: 76.0-90.0 11-14 yrs: 78.0-95.0
Mono Test Thornton		Neg			
MONOS	%	1-10			0-7 days: 4-8 8 days - 6 mos: 5-10 7 mos - 14 yrs: 4-8
MPV	fl	7.4-10.4			
NEUTS	%	45-70			0-7 days: 40-60 8 days - 6 mos: 20-40 7 mos - 10 yrs: 20-45 11-14 yrs: 20-50
Platelet ct, only; auto	1000/mm3	130-400			
PLT	1000/mm3	130-400			
RBC	mill/mm3		4.70-5.70	4.00-5.00	0-7 days: 4.10-8.70 8 days - 6 mos: 3.80-5.40 7 mos - 10 yrs: 4.00-5.30 11-14 yrs: 4.00-5.60
RDW	%	10-15			0-7 days: 13.0-18.0 8 days - 6 mos: 11.0-16.0 7 mos - 10 yrs: 11.0-15.0 11-14 yrs: 11.0-14.0
Retic, Automated	%	0.3-2.3			
Retic, Manual	%	0.7-1.7			
SED Rate	mm/hr				0 - 49 yrs: Male: 0-15 Female: 0-20 >50 yrs: Male: 0-20 Female: 0-30
Sickle Cell Screen		Neg			

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Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
WBC	1000/mm3	4.0-11.0			0-7 days: 9.0-29.0 8 days - 6 mos: 5.0-14.0 7 mos - 10 yrs: 4.0-12.0 11 yrs - 14 yrs: 4.0-11.0

SPECIAL HEMATOLOGY

G6PD		Normal			
LAP		20-137			
Liquefaction time	Minutes		<20		
Motility - sperm			>50		
PH- semen			7.2-8.0		
Semen Analysis					
Serum Viscosity		1.4-1.8			
Sperm Concentration	X10e6/ML		>20		
Total motile sperm count	X10e6/ML		>20		
Total sperm count	X10e6/ML		>39		
Vasectomy check					Normal = No spermatazoa seen
Viscosity- semen		Normal			
Volume - semen	CC		>2.0		

RHEUMATOLOGY

AMA (anti-mitochondri AB)		Neg			
ANA (anti-nuclear-AB)		Neg			
ANTI- dsDNA	IU				#####
Anti-cardiolipin antibody	GPL				<15 GPL: Negative 15-20 GPL: Borderline 21-80 GPL: Low to Medium Positive >80 GPL: High Positive
Anti-mitochondri ab-titer	titer	<1:40			
Anti-neutro cyto ab-titer	titer	<1:20			
Anti-neutro cytoplasm ab		Neg			
Anti-nuclear-ab-titer	titer	<1:40			
Anti-smooth muscle ab-titer	titer	<1:40			
Anti-smooth muscle ab		Neg			
Cryo Prot, Concentration	mg/dl	<15			
Cryoglobulin, qualitative		No PPT			
Crystal Analysis		None			
Ribonuclearprotein ab		Neg			

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RNP ab-titer	titer	<1:4			
SMITH AB		Neg			
SMITH ab-titer	titer	<1:2			
SSA AB		Neg			
SSA ab-titer	titer	<1:2			
SSB AB		Neg			
SSB ab-titer	titer	<1:4			

MICROBIOLOGY

5FC level - peak	mcg/ml				Therapeutic level 25-80 Toxic >100
5FC level - random	mcg/ml				Therapeutic level 25-80 Toxic >100
5FC level - trough	mcg/ml				Therapeutic level 25-80 Toxic >100
Fluconazole Level - peak	mcg/ml				Therapeutic peak level; candida 7 cryptococcus/cocci > 15 cryptococcus or cocci meningitis > 30
Fluconazole Level - random	mcg/ml				Therapeutic peak level; candida 7 cryptococcus/cocci > 15 cryptococcus or cocci meningitis > 30
Fluconazole Level - trough	mcg/ml				Therapeutic peak level; candida 7 cryptococcus/cocci > 15 cryptococcus or cocci meningitis > 30
Itraconazole level - peak	mcg/ml				Therapeutic level; (200 mg PO 1 x daily) 1 mcg/ml (200 mg PO 2 x daily) 2 mcg/ml
Itraconazole level - random	mcg/ml				Therapeutic level; (200 mg PO 1 x daily) 0.4 - 1mcg/ml (200 mg PO 2 x daily) 1 - 2 mcg/ml
Itraconazole level - trough	mcg/ml				Therapeutic level; (200 mg PO 1 x daily) < 0.4 mcg/ml (200 mg PO 2 x daily) 1-2 mcg/ml

URINALYSIS

Bacteria		Rare			
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Bilirubin		Negative			
Blood		Negative			
Epithelial Cells		Few			
Glucose		Negative			
Granular Casts		None			
Hyaline Casts	/LPF	0-2			
Ketones		Negative			
Leukocyte Esterase		Negative			
Mucus		Rare			
Nitrite		Negative			
pH		5.0-8.0			
Protein		Negative			
RBC	/HPF	0-2			
RBC Casts		None			
Specific Gravity		1.002-1.030			
Urobilinogen	EU/DL	0.2-1			
WBC	/HPF	0-2			

FLOW CYTOMETRY

T Cells (CD3)	%	59-85			0-7 days: 28-76 8 days-1 mos: 55-92 2-7 mos: 53-93 8-23 mos: 48-84 24-59 mos: 61-80
T Cells (CD3)	cells/uL	500-1800			0-7 days: 700-7300 8 days-1 mos: 3500-5000 2-7 mos: 3400-4600 8-23 mos: 2800-3500 24-59 mos: 1900-3900
T Cell Ratio (CD4:CD8)			Adult: > 6 Years of Age: = 0.70-4.00		0.7 Days: 1.00-2.60 1 Week-2 Months 1.30-6.30 2-8 Months: 1.60-3.80 8-24 Months: 0.90-3.70 2-5 Years: 0.90-2.90
T Helper (CD3/CD4)	cells/uL	250-1200			0-7 days: 400-3500 8 days-1 mos: 1700-5300 2-7 mos: 1400-5100 8-23 mos: 900-5500

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					24-59 mos: 500-2400
T Suppressor (CD3/CD8)	%	11-38			0-7 days: 10-41 8 days-1 mos: 9-23 2-7 mos: 11-26 8-23 mos: 11-32 24-59 mos: 14-33
T Suppressor (CD3/CD8)	cells/uL	100-800			0-7 days: 200-1900 8 days-1 mos: 400-1700 2-7 mos: 500-2200 8-23 mos: 400-2300 24-59 mos: 300-1600
B Cells (CD19)	%	6-23			0-7 days: 5-22 8 days-1 mos: 4-26 2-7 mos: 14-39 8-23 mos: 15-41 24-59 mos: 14-44
B Cells (CD19)	cells/uL	50-350			0-7 days: 40-1100 8 days-1 mos: 600-1900 2-7 mos: 600-3000 8-23 mos: 600-3100 24-59 mos: 200-2100
NK (CD3-/CD16 or CD56)	%	5-31			0-7 days: 6-58 8 days-1 mos: 3-23 2-7 mos: 2-14 8-23 mos: 3-17 24-59 mos: 4-23
NK (CD3-/CD16 or CD56)	cells/uL	50-500			0-7 days: 100-1900 8 days-1 mos: 200-1400 2-7 mos: 100-1300 8-23 mos: 200-1400 24-59 mos: 100-1000

POINT OF CARE

ACT	Seconds				Monitored by physician during patient procedure
ASPIRIN SENSITIVITY ASSAY	ARU				Results less than 550 ARU indicate aspirin responder
FERN (Cervical Mucus Arborization)					Provider performed test
GLUCOSE	mg/dL	79-115			
GRAM STAIN					Provider performed test

Revised 07-14-2009

UCSD Medical Center Clinical Laboratories Reference Ranges

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UCSD Clinical Laboratories - Torrey Pines - 10865 Road To The Cure, Suite 150 San Diego, Ca 92121 - Director: Ronald W. McLawhon, M.D. Ca License Id:clcf11173 - Clia Id:05d0913715

Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
H. PYLORI		Negative			
HEMOGLOBIN	gm/dL		14 - 17	12 - 16	0 - 7 days: 14 - 24 gm/dL 8 days - 6 mos: 10 - 14 gm/dL 7 mos - 10 yrs: 11 - 14 gm/dL 10 - 14 yrs: 12 - 16 gm/dL
INR					2 - 3 for most patients on Coumadin therapy 2.5 - 3.5 for patients with mechanical prosthetic heart valves
KOH / WET MOUNT / FERN TEST					Provider performed test
NITRAZINE					Normal vaginal pH is acidic (<7.0)
O ₂ SATURATION	% SO ₂	95.0 - 97.0			
OCCULT BLOOD		Negative			
P2Y12 (PLAVIX)	PRU and % Inhibition				Monitored by physician during patient procedure
RAPID STREP		Negative			
IIb / IIIa	PAU				Baseline: 125 - 330 samples > 80% inhibition: 0 - 40 PAU
URINE DIPSTICK					
	Specific Gravity	1.002 - 1.030			
	pH	5.0 - 8.0			
	Protein	Negative			
	Glucose	Negative			
	Ketones	Negative			
	Bilirubin	Negative			
	Blood	Negative			
	Urobilinogen	Ehrlich Unit	0.2 - 1.0		
	Nitrite	Negative			
	Leukocyte Esterase	Negative			
URINE SEDIMENT (MICROSCOPY)					for voided, clean catch sample (provider performed)
	Erythrocytes	0 - 2 /hpf			
	Leukocytes	0 - 2 /hpf			
	Epithelial Cells	few			
	Casts	0 - 2 /hpf			
	Crystals	none - small amount			
	Bacteria or Fungi	none - rare			
	Parasites	none			
URINE PREGNANCY					hCG is not normally detected in the urine of healthy men and non-pregnant women

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Test Name	Units	Non-gender	Male	Female	Extended / Interpretation
Whole Blood Electrolytes, Glucose, Hemoglobin, Methemoglobin performed in the NEONATAL CLINICAL SUPPORT CENTER					
pH		7.35-7.45			infant/fetal
pCO2	mmHG	35-45			infant/fetal
Arterial pO2	mmHG	50-70			infant/fetal
Na	mEq/L	130-140			infant/fetal
K	mEq/L	3.5-4.5			infant/fetal
Ca ⁺⁺	mg/dL	1.0-1.5			infant/fetal
Cl ⁻	mEq/L	97-107			infant/fetal
tHb	gm/dL	12-17			infant/fetal
MetHb	gm/dL	0-2.5			infant/fetal
Glucose	mg/dL	65-110			infant/fetal
Lactate	mg/dL	0-27			infant/fetal

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