CHEM.ARCH.7.4 TEST CODES, AMR'S CRR'S CRITICAL AND NORMAL RANGES

Test Name.	Sunquest Test Code	Units	Male Ranges Age	Male Ranges Normals	Female Ranges Age	Female Ranges Normals	Critical Values	AMR Analytical Measurement Range (Linearity)	CRR Clinical Reportable Range (Range with Dilutions) / Dilute with M (manual)
Acetaminophen	**ACETO**	**ug/mL**	**0**	**10-30**	**0**	**10-30**	**> 150**	**3-377**	**3770 / Saline**
Albumin	**ALB**	**g/dL**	**15**	**3.5-5.0**	**15**	**3.5-5.0**		**0.4-8.0**	**8.0**
			5D	**3.8-5.4**	**5D**	**3.8-5.4**			
			0	**2.8-4.4**	**0**	**2.8-4.4**			
Alkaline Phosphatase	**ALKP**	**U/L**	**19**	**38-126**	**19**	**38-126**		**5-4555**	**9110 / Saline M 1:2**
			16	**65-260**	**16**	**50-130**			
			14	**130-525**	**14**	**70-230**			
			12	**200-495**	**12**	**105-420**			
			10	**135-530**	**10**	**130-560**			
			7	**175-420**	**7**	**175-420**			
			4	**150-380**	**4**	**150-380**			
			5D	**145-320**	**5D**	**145-320**			
			0	**110-300**	**0**	**110-300**			

			M	NR	F	NR	CR	AMR	CRR
Alanine Aminotransferase	**ALT**	**U/L**	**19**	**11-58**	**19**	**9-52**		**6-4113**	**20565 / Saline**
			16	**10-40**	**16**	**6-35**			
			14	**10-45**	**14**	**6-30**			
			12	**10-55**	**12**	**10-30**			
			10	**10-35**	**10**	**10-30**			
			7	**10-35**	**7**	**10-35**			
			4	**10-25**	**4**	**10-25**			
			1	**6-45**	**1**	**6-45**			
			0	**6-50**	**0**	**6-50**			
Alcohol	**ETOH**	**mg/dL**	**21**	**0-10**	**21**	**0-10**	**> 300**	**10-500**	**1000 / ETOH NEG- CAL M 1:2**
			0	**0-10**	**0**	**0-10**	**> 10**		
Ammonia	**AMM**	**umol/L**	**0**	**11-72**	**0**	**11-72**		**5-600**	**1110 / Saline**
Amylase	**AMYL**	**U/L**	**5D**	**25-125**	**5D**	**25-125**		**3-6554**	**13108 / Saline**
			0	**5-65**	**0**	**5-65**			
Aspartate Aminotransferase	**AST**	**U/L**	**19**	**17-59**	**19**	**14-36**		**3-4202**	**8404 / Saline M 1:2**
			16	**15-45**	**16**	**5-30**			
			12	**15-40**	**12**	**10-30**			
			10	**10-60**	**10**	**15-40**			
			4	**15-50**	**4**	**15-50**			
			5D	**20-60**	**5D**	**20-60**			
			0	**35-140**	**0**	**35-140**			

			M	NR	F	NR	CR	AMR	CRR
Beta Hydroxbutyrate	**BETAH**	**mmol/L**	**0**	**<0.27**	**0**	**<0.27**		**0.02-4.50**	**18.00 / DI-H20 M 1:4**
Bilirubin, Direct	**DBIL**	**mg/dL**	**19**	**0.0-0.5**	**19**	**0.0-0.5**		**0.1-15.0**	**15.0**
			15D	**0.1-0.3**	**15D**	**0.1-0.3**			
			0	**0.3-0.7**	**0**	**0.3-0.7**			
Bilirubin, Total	**TBIL**	**mg/dL**	**2**	**0.1-1.2**	**2**	**0.1-1.2**		**0.1-25.0**	**125.0 / Saline**
			16D	**0.1-1.2**	**16D**	**0.1-1.2**	**>20.0**		
			15D	**0.1-12.0**	**15D**	**0.1-12.0**	**>20.0**		
			3D	**0.1-12.0**	**3D**	**0.1-12.0**	**>18.0**		
			2D	**0.1-10.0**	**2D**	**0.1-10.0**	**>15.0**		
			1D	**0.1-10.0**	**1D**	**0.1-10.0**	**>13.0**		
			0	**0.1-6.0**	**0**	**0.1-6.0**	**>12.0**		
Bilirubin, Indirect Unconjugated	**IBIL**	**mg/dL**	**16D**	**0.1-1.2**	**16D**	**0.1-1.2**		**0.1-25.0**	
			3D	**0.1-12.0**	**3D**	**0.1-12.0**			
			1D	**0.1-10.0**	**1D**	**0.1-10.0**			
			0	**0.1-6.0**	**0**	**0.1-6.0**			
B Natriuretic Peptide	**BNP**	**pg/ml**	**0**	**0-100**	**0**	**0-100**		**10-5000**	**5000**

			M	NR	F	NR	CR	AMR	CRR
Blood Urea Nitrogen	**BUN**	**mg/dL**	**19**	**8-26**	**19**	**10-20**		**2-125**	**625 / Saline**
			10	**7-21**	**10**	**7-19**			
			1	**9-22**	**1**	**9-22**			
			15D	**3-17**	**15D**	**3-17**			
			0	**3-23**	**0**	**3-23**			
Calcium	**CA**	**mg/dL**	**19**	**8.4-10.5**	**19**	**8.4-10.5**	**<6.0 >13.0**	**2.0-20.0**	**20.0**
			12	**8.8-10.8**	**12**	**8.8-10.8**			
			11D	**9.0-11.0**	**11D**	**9.0-11.0**			
			0	**7.6-10.4**	**0**	**7.6-10.4**			
Carbon Dioxide	**CO2**	**mmol/L**	**19**	**20-29**	**19**	**20-29**		**5-50**	**100 / Saline**
			7D	**20-28**	**7D**	**20-28**			
			0	**13-27**	**0**	**13-27**			
Cholesterol	**CHOL**	**mg/dL**	**20**	**125-200**	**20**	**125-200**		**7-705**	**2820 / Saline**
			0	**125-170**	**0**	**125-170**			
			Desirable <200 mg/dL **Borderline 200-239 mg/dL** **Undesirable >/=240 mg/dL**						
CHOL/HDL RATIO	**CHR**		**0**	**<4.98**	**0**	**<4.45**			
Chloride	**CL**	**mmol/L**	**1M**	**98-110**	**0**	**98-110**		**50-150**	**150**
			0	**98-113**	**0**	**98-113**			

			M	NR	F	NR	CR	AMR	CRR
Chloride Urine Random	**CLU**	**mmol/L**						**20-300**	**300**
Cortisol Random	**CORT**	**ug/dl**	**Therapeutic Range:** **AM DRAW: 3.7-19.4 ug/dl** **PM DRAW: 2.9-17.3 ug/dl**					**1.0-59.8**	**119.6 / Cortisol CAL-A M 1:2**
Creatine Kinase	**CPK**	**U/L**	**19**	**20-259**	**19**	**20-225**		**7-4267**	**42670 / Saline**
			1	**60-305**	**1**	**60-305**			
CKMB MASS	**CKMBM**	**ng/ml**	**0**	**0.1-6.6**	**0**	**0.1-6.6**		**0.1-300.0**	**300.0**
Creatinine	**CREAT**	**mg/dL**	**19**	**0.80-1.50**	**19**	**0.70-1.20**		**0.20-30.00**	**30.00**
			17	**0.69-1.10**	**17**	**0.60-0.88**			
			15	**0.65-1.04**	**15**	**0.59-0.86**			
			12	**0.57-0.80**	**12**	**0.57-0.80**			
			7	**0.52-0.69**	**7**	**0.52-0.69**			
			4	**0.44-0.65**	**4**	**0.44-0.65**			
			1	**0.39-0.55**	**1**	**0.39-0.55**			
			15D	**0.31-0.53**	**15D**	**0.31-0.53**			
			0	**0.42-1.05**	**0**	**0.42-1.05**			
Creatinine Urine Random	**UCRR**	**mg/dL**						**5.00-400.00**	**8000.00 / Saline**

			M	NR	F	NR	CR	AMR	CRR
Creatinine Urine Timed	**UCR**							**5.00-400.00**	**8000.00 / Saline**
	CRUT								
	CRCK	**g/24h**	**0**	**0.60-2.50**	**0**	**0.60-2.50**			
Creatinine Clearance	**CRCL**	**mL/min/1.73 m2**							
	CLR		**0**	**66-163**	**0**	**66-165**			
	CLR2		**0**	**85-125**	**0**	**75-115**			
Cardio CRP	**CACRP (CCRP)**	**mg/L**	**FOR AGES > 17 YEARS:** **RISK ACCORDING TO AHA/CDC CCRP mg/L GUIDELINES** **<1.0 Low Cardiovascular Risk** **1.0-3.0 Average Cardiovascular Risk** **3.1-10.0 High Cardiovascular Risk** **>10.0 Persistent elevations may represent Non-Cardiovascular inflammation.**					**0.1-160.0**	**1600.0 / Saline**
C-Reactive Protein	**CRP**	**mg/dL**	**15**	**0.1-0.8**	**15**	**0.1-0.8**		**0.1-32.0**	**160.0 / Saline**
			11	**0.1-0.8**	**11**	**0.1-0.8**			
			4	**0.1-0.8**	**4**	**0.1-1.0**			
			13M	**0.1-1.2**	**13M**	**0.1-0.8**			
			91D	**0.1-1.1**	**91D**	**0.1-0.8**			
			0	**0.1-1.6**	**0**	**0.1-1.6**			
CSF Glucose	**CSFGL**	**mg/dL**	**0**	**40-70**	**0**	**40-70**	**< 21**	**1-800**	**800**

			M	NR	F	NR	CR	AMR	CRR
CSF Total Protein	**CSFTP**	**mg/dL**	**1M**	**12-60**	**1M**	**12-60**		**7-200**	**400 / Saline**
			0	**20-80**	**0**	**20-80**			
Cyclosporine PRE	**CYCLB**	**ng/mL**	**No definitive therapeutic or toxic ranges have been established.** **Optimal blood drug levels are influenced by type of transplant, patient response, time post-transplant, co-administration of other drugs, and drug formulation.** **The following trough ranges are suggested guidelines:** **Kidney Transplantation: 100-200ng/mL** **Other Organ Transplantation: 200-300ng/mL**					**25-1500**	**3000 / CAL-A** **M 1:2**
Cyclosporine POST	**CYCLP**	**ng/mL**	**No definitive therapeutic or toxic ranges have been established.** **Optimal blood drug levels are influenced by type of transplant, patient response, time post-transplant, co-administration of other drugs, and drug formulation.** **The following peak ranges are suggested guidelines:** **de novo: 1500-1700 ng/mL** **1st 6 months: 800-1000 ng/mL** **6-12 months: 600-800 ng/mL** **>1 year: 300-600 ng/mL**					**25-1500**	**3000 / CAL-A** **M 1:2**
Digoxin	**DIG**	**ng/mL**	**0**	**0.8 - 2.0**	**0**	**0.8- 2.0**	**> 2.5**	**0.3-4.0**	**4.0**

			M	NR	F	NR	CR	AMR	CRR
Estradiol	**ESTD**	**pg/mL**	**0**	**0.0-39.8**				**10.0-1000.0**	**10000.0 / ARCH Estradiol Manual Diluent 1:10**
			ESTRADIOL REFERENCE RANGES IN pg/mL **==========** **MALES 0-39.8** **MENSTRUATING FEMALES** **(BY DAYS FROM LH PEAK)** **-FOLLICULAR PHASE (-12 TO -4) 19.5-144.2** **-MIDCYCLE (-3 TO +2) 63.9-356.7** **-LUTEAL PHASE (+4 TO +12) 55.8-214.2** **POSTMENOPAUSAL FEMALES 0-32.2**						
Iron	**FE**	**ug/dL**	**0**	**65-175**	**0**	**50-170**		**5-1000**	**1000**
Follicle Stimulating Hormone	**FSH**	**mIU/mL**						**0.1-70.0**	**350.0 / ARCH Multi Assay Manual Diluent 1:5**
			FEMALE: **Normally Menstruating:** **Follicular Phase 3.0- 8.1** **Mid-cycle Phase 2.5- 16.7** **Luteal Phase 1.4- 5.5** **Post-menopausal 26.7-133.4** **MALE: 0.9-11.9**						
Free T4	**FT4**	**ng/dL**	**19**	**0.7-1.5**	**19**	**0.7-1.5**		**0.4-6.0**	**6.0**
			1	**0.9-1.4**	**1**	**0.9-1.4**			

			M	NR	F	NR	CR	AMR	CRR
Gentamicin PRE	**GENTB**	**ug/mL**	**0**	**0.5- 2.0**	**0**	**0.5- 2.0**	**> 2.0**	**0.5-10.0**	**20.0 / CAL-AM 1:2**
Gentamicin POST	**GENTP**	**ug/mL**	**0**	**5.0-10.0**	**0**	**5.0-10.0**	**> 15.0**	**0.5-10.0**	**20.0 / CAL-AM 1:2**
Gentamicin Random	**GENTR**	**ug/mL**						**0.5-10.0**	**20.0 / CAL-AM 1:2**
GFR NON AFRICAN AMER	**GFR**	**mL/min/1.73 m2**	**0**	**>60**	**0**	**>60**			
GFR AFRICAN	**GFRAA**	**mL/min/1.73 m2**	**0**	**>60**	**0**	**>60**			

			M	NR	F	NR	CR	AMR	CRR
GFR, GFRAA	**GFR, GFRAA Interp and ram messages**	**mL/min/ 1.73 m2**	GFRG GFRLT GFRUA GFRSX	Not calculated due to patient age <18. Not calculated due to creatinine <0.1. Not calculated due to unknown age. Not calculated due to unknown sex.					
			GFR ≥90	An estimated GFR chronically in the range of >/= 90 is categorized as normal or high, which corresponds to Stage G1 CKD. CKD-EPI equation used to estimate GFR.					
			GFR 60-89	An estimated GFR chronically in the range of 60-89 is categorized as mildly decreased, which corresponds to Stage G2 CKD. CKD-EPI equation used to estimate GFR.					
			GFR 45-59	An estimated GFR chronically in the range of 45-59 is categorized as mildly to moderately decreased, which corresponds to Stage G3a CKD. CKD-EPI equation used to estimate GFR.					
			GFR 30-44	An estimated GFR chronically in the range of 30-44 is categorized as moderately to severely decreased, which corresponds to Stage G3b CKD. CKD-EPI equation used to estimate GFR.					
			GFR 15-29	An estimated GFR chronically in the range of 15-29 is categorized as severely decreased, which corresponds to Stage G4 CKD. CKD-EPI equation used to estimate GFR.					
			GFR,15	An estimated GFR chronically in the range of <15 is categorized as kidney failure, which corresponds to Stage 5 CKD. CKD-EPI equation used to estimate GFR.					
Gamma GT	**GGT**	**U/L**	**0**	**12-64**	**0**	**9-36**		**4-7000**	**7000**

			M	NR	F	NR	CR	AMR	CRR
Glucose	**GLU**	**mg/dL**	**29D**	**65-99**	**29D**	**65-99**	**<40>500**	**5-800**	**4000 / Saline**
			0	**65-99**	**0**	**65-99**	**<40>150**		
			If result of random glucose > or = 200 or if result of fasting glucose is > 125 confirm Diabetes Mellitus diagnosis with second glucose on a different day.						
Glucose, Fasting	**FBS**	**mg/dL**	**29D**	**65-99**	**29D**	**65-99**	**<40>500**	**5-800**	**4000 / Saline**
			0	**65-99**	**0**	**65-99**	**<40>150**		
			If result of random glucose > or = 200 or if result of fasting glucose is > 125 confirm Diabetes Mellitus diagnosis with second glucose on a different day.						
Glucose 1H Gestational Screen	**GLU1H**	**mg/dL**			**0**	**65-140**	**<40 >500**	**5-800**	**4000 / Saline**
			If the glucose is >140, **A three hour glucose tolerance gestational confirmation is recommended.**						
Glucose Tolerance, Gest 2H	**GTT2G**	**mg/dL**					**<40 >500**	**5-800**	**4000 / Saline**
	GT0G				**0**	**65-99**			
	GT1G				**0**	**65-180**			
	GT2G				**0**	**65-155**			

			M	NR	F	NR	CR	AMR	CRR
Glucose Tolerance Gest 3 H	**GTT3G**	**mg/dL**					**<40 >500**	**5-800**	**4000 / Saline**
	GT0G				**0**	**65-99**			
	GT1G				**0**	**65-180**			
	GT2G				**0**	**65-155**			
	GT3G				**0**	**65-140**			
			Gestational Diabetes Mellitus if two or more of the following are true: **FASTING: > 99** **1 HOUR: > 180** **2 HOUR: > 155** **3 HOUR: > 140**						
Glucose 1HR post Pran	**GLU1P**	**mg/dL**	**0**		**0**		**<40 >500**	**5-800**	**4000 / Saline**
			Diabetes is diagnosed at blood glucose of greater than or equal to 200 mg/dl						
Glucose 2 Hour PP	**GL2PP**	**mg/dL**	**0**	**65-139**	**0**	**65-139**	**<40 >500**	**5-800**	**4000 / Saline**

			M	NR	F	NR	CR	AMR	CRR
Glucose Tolerance 2H, ADA	**GTT2**	**mg/dL**					**<40 >500**	**5-800**	**4000 / Saline**
	GT0		**0**	**65-99**	**0**	**65-99**			
	GT2		**0**	**65-139**	**0**	**65-139**			
			NORMAL: FASTING <100 and 2HR <140 **IMPAIRED: FASTING 100 - 125 or 2HR 140 - 199** **DIABETES MELLITUS: FASTING >125 and 2HR > / = 200**						
Glucose Tolerance 3 H	**GTT3**	**mg/dL**					**<40 >500**	**5-800**	**4000 / Saline**
	GT0		**0**	**65-99**	**0**	**65-99**			
	GT1		**0**		**0**				
	GT02		**0**	**65-139**	**0**	**65-139**			
	GT3		**0**		**0**				
			0		**0**				
			0		**0**				
			0		**0**				
			2009 AMERICAN DIABETES ASSOCIATION DIAGNOSTIC CRITERIA FOR DIABETES MELLITUS **GLUCOSE VALUE (MG/DL)** **INTERPRETATION FASTING 1 HR 2 HR** **NORMAL <100 Not Established <140** **IMPAIRED FASTING 100-125** **IMPAIRED TOLERANCE 140-199** **DIABETES >/=126* >=200 >/=200** *** MUST BE CONFIRMED BY TESTING ON A SUBSEQUENT DAY**						

			M	NR	F	NR	CR	AMR	CRR
HCG QUANT	**HCGQ + XHCGQ**	**mIU/mL**	Pregnancy ranges: 2-4 weeks 391-8,388 5-6 weeks 861-88,769 6-8 weeks 8,636-218,085 8-10 weeks 18,700-244,467 10-12 weeks 23,143-181,899 13-27 weeks 6,303-97,171 28-42 weeks 4,360-74,883 Nonpregnant or premenopausal range: <5 mIU/mL Postmenopausal range: <10 mIU/mL Reference Range for Males: <5 mIU/mL					**2-15000**	**225000 / ARCH Multi Assay Manual Diluent**
HGB A1C with EAG	**A1C ((HA1C)**	**%**	**0**	**<5.7**	**0**	**<5.7**		**4.0-14.0**	**14.0**
			<5.7% Decreased risk of diabetes 5.7-6.4% Increased risk of diabetes > OR = 6.5% Consistent with diabetes These Reference Intervals are supported by the current "Standards of Medical Care in Diabetes" published in January 2013 in the Diabetes Care, the Journal of the American Diabetes Association.						

			M	NR	F	NR	CR	AMR	CRR
High D lipoprotein	**HDL**	**mg/dL**	**21**	**>40**	**21**	**>46**		**5-139**	**139**
			15	**25-76**	**15**	**34-75**			
			11	**28-72**	**11**	**28-72**			
			6	**32-74**	**6**	**32-74**			
			1	**25-73**	**1**	**25-73**			
			0	**14-63**	**0**	**19-69**			
Lactate	**LAC**	**mmol/L**	**0**	**0.5-2.2**	**0**	**0.5-2.2**	**> 3.4**	**0.1-13.3**	**13.3**
Lactate Dehydrogenase	**LDH**	**U/L**	**19**	**125-243**	**19**	**125-243**		**30-1995**	**3325 / Saline**
			15	**130-250**	**15**	**130-250**			
			10	**170-283**	**10**	**157-272**			
			1	**192-321**	**1**	**192-321**			
			15D	**163-452**	**15D**	**163-452**			
			0	**309-1222**	**0**	**309-1222**			
LDL (CALC)	**LDL**	**mg/dL**	**Desirable <130 mg/dL** **Borderline 130-159 mg/dL** **Undesirable >/=160 mg/dL** **Desirable Range <100 mg/dL for patients with diabetes or CHD** **<70 mg/dL for Diabetic patients with known heart disease**						

			M	NR	F	NR	CR	AMR	CRR
Luteinizing Hormone	**LH**	**mIU/mL**						**0.1-250.0**	**500.0 / ARCH Multi Aassay Manual Diluent 1:2**
			AGE: >/= 18 YEARS **LH REFERENCE VALUES** **==========** **FEMALE:** **Follicular Phase 1.9- 12.5 mIU/mL** **Mid-Cycle Peak 8.7- 76.3 mIU/mL** **Luteal Phase 0.5- 16.9 mIU/mL** **Post-Menopausal 5.0- 52.3 mIU/mL** **MALE: 1.5- 9.3 mIU/mL** **AGE: < 18 YEARS** **NO REFERENCE RANGE ESTABLISHED**						
Lipase	**LIPA**	**U/L**	**0**	**8-78**	**0**	**8-78**		**4-1200**	**12000 / Saline M 1:10**
Lithium	**LI**	**mmol/L**	**0**	**0.6 - 1.2**	**0**	**0.6 - 1.2**	**>1.5**	**0.1-3.5**	**14.0 / Saline**
Magnesium	**MG**	**mg/dL**	**19**	**1.6-2.6**	**19**	**1.6-2.6**	**<1.0 >7.0**	**0.7-7.5**	**15.0 / Saline M 1:2**
			12	**1.7-2.2**	**12**	**1.7-2.2**			
			6	**1.7-2.1**	**6**	**1.7-2.1**			
			6M	**1.7-2.3**	**6M**	**1.7-2.3**			
			0	**1.5-2.2**	**0**	**1.5-2.2**			

			M	NR	F	NR	CR	AMR	CRR
NON HDL CHOL (CALC)	**NHDLC**		**0**	**<160**	**0**	**<160**			
Phenobarbital	**PHENO**	**ug/mL**	**0**	**15.0-40.0**	**0**	**15.0-40.0**	**>60.0**	**1.1-80.0**	**80.0**
Phosphorus	**PHOS**	**mg/dL**	**19**	**2.5-4.7**	**19**	**2.5-4.7**	**<1.2 >8.9**	**0.7-20.0**	**20.0**
			16	**2.8-4.6**	**16**	**2.8-4.6**			
			14	**2.9-5.4**	**14**	**2.9-5.4**			
			12	**3.3-5.4**	**12**	**3.3-5.4**			
			7	**3.7-5.6**	**7**	**3.7-5.6**			
			4	**4.0-5.4**	**4**	**4.0-5.4**			
			1	**3.9-6.5**	**1**	**3.9-6.5**			
			0	**4.6-8.0**	**0**	**4.6-8.0**			
Phenytoin/Dilantin	**PTN**	**ug/mL**	**0**	**10.0-20.0**	**0**	**10.0-20.0**	>40.0	**0.5-40.0**	**40.0**
Potassium -serum	**K**	**mmol/L**	**29D**	**3.5-5.1**	**29D**	**3.5-5.1**	**<2.8>6.0**	**1.0-10.0**	**10.0**
			5D	**4.1-5.3**	**5D**	**4.1-5.3**	**<2.6>6.0**		
			0	**3.7-5.9**	**0**	**3.7-5.9**	**<2.6>6.0**		
Potassium Urine Random	**UKR**	**mmol/L**						**1.0-200.0**	**200.0**
Prealbumin	**PREAB**	**mg/dL**	**61**	**16-42**	**61**	**14-37**		**3-60**	**60**
			13	**18-45**	**13**	**16-38**			
			2	**11-34**	**2**	**20-30**			
			0	**7-25**	**0**	**8-25**			

			M	NR	F	NR	CR	AMR	CRR
Progesterone	**PROG**	**ng/mL**	**PROGESTERONE REFERENCE RANGES IN ng/mL** **==========** **MALE: <0.10 - 0.20** **FEMALE: NORMAL MENSTRUATING** **FOLLICULAR <0.10 - 0.30** **LUTEAL 1.20 - 15.90** **POST MENOPAUSAL <0.10 - 0.20** **PREGNANCY** **1ST TRIMESTER 2.80 - 147.30** **2ND TRIMESTER 22.50 - 95.30** **3RD TRIMESTER 27.90 - 242.50**					**0.10-40.00**	**800.0 / PROG Manual Diluent 1:20**
PROGRAF	**PROGR**	**ng/mL**	**Normal Ranges:** **<6 mos post-transplant: 8-12 ng/mL** **>6 mos post-transplant: 5-10 ng/mL**					**3-30**	**60 / CAL-A M 1:2**
Prolactin	**PROL**	**ng/mL**	**0**	**3.5-19.4**	**0**	**5.2-26.5**		**0.6-150.0**	**1500.0 / ARCH Multi Assay manual Dil 1:10**

			M	NR	F	NR	CR	AMR	CRR
Rapamycin	**RAPA**	**ng/mL**						**2-30**	**60 / CAL-A M 1:2**
			No therapeutic or toxic ranges have been established and there are no suggested values for elapsed time post-transplant.						
Salicylate	**SALI**	**mg/dL**	**0**	**2.0-20.0**	**0**	**2.0-20.0**	**>30**	**5.0-100.0**	**500.0 / Saline**
Sodium	**NA**	**mmol/L**	**5D**	**136-145**	**5D**	**136-145**	**<120>160**	**100-200**	**200**
			0	**133-146**	**0**	**133-146**			
Sodium Urine Random	**UNAR**	**mmol/L**						**20-400**	**400**
Tegretol	**TEG**	**ug/mL**	**0**	**4.0-12.0**	**0**	**4.0-12.0**	**>20.0**	**2.0-15.0**	**28.0 / CAL-A M 1:2**
Theophylline	**THEO**	**ug/mL**	**0**	**10.0-20.0**	**0**	**10.0-20.0**	**>20.0**	**0.1-40.0**	**40.0**
Tobramycin PRE	**TOBPR**	**ug/mL**	**0**	**0.0-0.9**	**0**	**0.0-0.9**	**>2.0**	**0.2-10.0**	**20.0 / CAL-A M 1:2**
Tobramycin POST	**TOBPO**	**ug/mL**	**0**	**5.0-8.0**	**0**	**5.0-8.0**	**>10.0**	**0.2-10.0**	**20.0 / CAL-A M 1:2**
Tobramycin RANDOM	**TOBR**	**ug/mL**					**>10.0**	**0.2-10.0**	**20.0 / CAL-A M 1:2**

			M	NR	F	NR	CR	AMR	CRR
Total Protein	**TPROT**	**g/dL**	**19**	**6.0-8.3**	**19**	**6.0-8.3**		**0.8-12.0**	**12.0 / Saline**
			10	**6.3-8.6**	**10**	**6.3-8.6**			
			7	**6.2-8.1**	**7**	**6.2-8.1**			
			4	**5.9-7.8**	**4**	**5.9-7.8**			
			1	**5.9-7.0**	**1**	**5.9-7.0**			
			0	**3.8-7.0**	**0**	**3.8-7.0**			
Protein Urine Random	**UTP**	**mg/dL**	**0**	**1.00-14.00**	**0**	**1.00-14.00**		**6.80-200.00**	**2000.00/ Saline**
PRO 24 HR W/O CRT	**URTP**							**6.80-200.0**	**2000.0 / Saline**
	PRUT	**mg/dL**	**0**	**1.00-14.00**	**0**	**1.00-14.00**			
	TPVOL	**mg/24 h**	**0**	**<300.00**	**0**	**<300.00**			
Triglyceride	**TRIG**	**mg/dL**	**0**	**15-150**	**0**	**15-150**		**7-1000**	**4000 / Saline**
			Normal **<150 mg/dL** **Borderline-High** **150-199 mg/dL** **High** **200-499 mg/dL** **Very High** **>500 mg/dL**						
Triglyceride PEDS	**NTRIG**	**mg/dL**	**0**	**15-150**	**0**	**15-150**		**7-1000**	**4000 / Saline**

			M	NR	F	NR	CR	AMR	CRR
Troponin I	**TROPI**	**ng/mL**	**0**	**<0.03**	**0**	**<0.03**		**0.01-50.0**	**50.0 / (Auto 1:9) ARCH Cal A Manual Diluent 1:20**
			<0.03 Normal **0.03-0.29 Indeterminate: Consider Serial Testing** **>/=0.30 Consistent with Myocardial Injury**						
TSH, 3RD GEN Thyroid Stimulating Hormone	**TSH**	**uIU/mL**	**19**	**0.35-4.94**	**19**	**0.35-4.94**		**0.05-85.00**	**425.0 / ARCH Multi Assay Manual Diluent 1:5**
			14	**0.47-3.41**	**14**	**0.47-3.41**			
			6M	**0.70-4.17**	**6M**	**0.70-4.17**			
			4D	**0.73-4.77**	**4D**	**0.73-4.77**			
Urea Nitrogen Urine Random	**UUNR**	**mg/dL**						**40-1200**	**1200**
Uric Acid	**URIC**	**mg/dL**	**19**	**3.5-8.5**	**35**	**3.0-7.5**	**> 15.0**	**1.0-25.0**	**25.0**
			14	**3.0-7.0**	**14**	**3.0-6.0**			
			12	**2.4-6.5**	**12**	**2.4-6.5**			
			2	**2.2-5.9**	**2**	**2.2-5.9**			
			0	**2.0-6.4**	**0**	**2.0-64**			
Valproic Acid	**VALP**	**ug/mL**	**0**	**50-100**	**0**	**50-100**	**>150**	**2-150**	**150**
			M	NR	F	NR	CR	AMR	CRR
Vancomycin PRE	**VANCB**	**ug/mL**	**0**	**10.0-20.0**	**0**	**10.0-20.0**	**>20.0**	**3.0-50.0**	**100.0 / CAL-A M 1:2**

			M	NR	F	NR	CR	AMR	CRR
Vancomycin POST	**VANCP**	**ug/mL**	**19**	**20.0-40.0**	**19**	**20.0-40.0**		**3.0-50.0**	**100.0 / CAL-AM 1:2**
			0	**20.0-40.0**	**0**	**20.0-40.0**	**>45.0**		
Vancomycin Random	**VANCR**	**ug/mL**						**3.0-50.0**	**100.0 / CAL-AM 1:2**