

***LifeLabs Clinical Laboratories***

***Burnaby Reference Laboratory***

***3680 Gilmore Way***

***Burnaby, B.C. V5G 4V8***

***Reference Intervals***

***Friday, June 10, 2011***

***Reference intervals are validated and updated periodically, and vary from method to method. They may change without notification. Ranges accompanying patient results should be deemed to be correct.***

**Sex Age****Interval****Unit****1,25(OH)2 VITAMIN D**

1,25(OH)2 VITAMIN D (1 25-(OH)2 VIT D)	M/F	<100 Y	40--190	pmol/L
--	-----	--------	---------	--------

**17OH PROGESTERONE**

17OHP (17OH PROG)	F	Prepubertal	<3.0	nmol/L
-------------------	---	-------------	------	--------

17OHP (17OH PROG)	F	Follicular	0.3--4.0	nmol/L
-------------------	---	------------	----------	--------

17OHP (17OH PROG)	F	Luteal	<13.0	nmol/L
-------------------	---	--------	-------	--------

17OHP (17OH PROG)	M	10-100 Y	0.8--8.8	nmol/L
-------------------	---	----------	----------	--------

17OHP (17OH PROG)	M/F	<10 Y	<3.0	nmol/L
-------------------	-----	-------	------	--------

**1H GESTATIONAL SCREEN**

1H GESTATIONAL SCREEN (Glucose 1h)	F	<100 Y	4.4--7.7	mmol/L
------------------------------------	---	--------	----------	--------

**25(OH) VITAMIN D**

25(OH) VITAMIN D (25 OH VITAMIN D)	M/F	<100 Y	75-150	nmol/L
------------------------------------	-----	--------	--------	--------

**ACE**

ACE	M/F	<100 Y	10--65	U/L
-----	-----	--------	--------	-----

**ACTH**

ACTH	M/F	<100 Y	<15	pmol/L
------	-----	--------	-----	--------

**ACTIVATED PTT**

ACTIVATED PTT	M/F	<100 Y	25--36	s
---------------	-----	--------	--------	---

**AFP TUMOR MARKER**

AFP TUMOR MARKER (AFP)	M/F	<100 Y	<11	ug/L
------------------------	-----	--------	-----	------

**ALBUMIN**

ALBUMIN	M/F	<100 Y	35--50	g/L
---------	-----	--------	--------	-----

**Sex Age****Interval****Unit****ALCOHOL**

ALCOHOL (Serum Alcohol)	M/F	<100 Y	0--5 Negative	mmol/L
ALCOHOL (Serum Alcohol)	M/F	<100 Y	6--10 Below intoxication	mmol/L
ALCOHOL (Serum Alcohol)	M/F	<100 Y	11--21 Mild intoxication	mmol/L
ALCOHOL (Serum Alcohol)	M/F	<100 Y	22--65 Intoxication	mmol/L
ALCOHOL (Serum Alcohol)	M/F	<100 Y	>65 Intoxication & CNS depression common	mmol/L

**ALKALINE PHOSPHATASE**

ALKALINE PHOSPHATASE (Alkaline Phos)	F	10-11 Y	127--339	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	F	12-14 Y	74--307	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	F	15-17 Y	53--159	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	F	18-19 Y	42--116	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	F	20-199 Y	42--116	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	M	10-11 Y	95--360	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	M	12-14 Y	127--360	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	M	15-17 Y	74--307	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	M	18-19 Y	58--138	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	M	20-100 Y	48--138	U/L
ALKALINE PHOSPHATASE (Alkaline Phos)	M/F	<=9 Y	127--339	U/L

**ALPHA 1 ANTITRYPSIN**

ALPHA 1 ANTITRYPSIN (A 1 Antitrypsin)	M/F	<100 Y	0.88--2.20	g/L
---------------------------------------	-----	--------	------------	-----

**Sex Age****Interval****Unit****ALT**

ALT	F	10-11 Y	<30	U/L
ALT	F	12-13 Y	<30	U/L
ALT	F	14-15 Y	<35	U/L
ALT	F	16-19 Y	<45	U/L
ALT	F	20-29 Y	<50	U/L
ALT	F	30-100 Y	<50	U/L
ALT	M	10-11 Y	<40	U/L
ALT	M	12-13 Y	<30	U/L
ALT	M	14-15 Y	<40	U/L
ALT	M	16-19 Y	<50	U/L
ALT	M	20-29 Y	<50	U/L
ALT	M	30-100 Y	<60	U/L
ALT	M/F	<12 M	<50	U/L
ALT	M/F	12 M - 6Y	<40	U/L
ALT	M/F	7-9 Y	<30	U/L

**AMPHETAMINE URINE**

AMPHETAMINE URINE (Amphetamines)	M/F	<100 Y	Negative	
----------------------------------	-----	--------	----------	--

**AMYLASE**

AMYLASE	M/F	<100 Y	<130	U/L
---------	-----	--------	------	-----

**ANA**

ANA	M/F	<100 Y	Titre <1:80	
-----	-----	--------	-------------	--

	Sex	Age	Interval	Unit
<b>ANCA</b>				
ANCA (ANCA IIF)			No reportable reference interval	
MPO	M/F	<100 Y	<20	RU/mL
MPO (PR3)	M/F	<100 Y	<20	RU/mL
<b>ANDROSTENEDIONE</b>				
ANDROSTENEDIONE	F	11-59 Y	1.6-8.8	nmol/L
ANDROSTENEDIONE	F	60-150 Y	<3.5	nmol/L
ANDROSTENEDIONE	M	11-150 Y	1.6-8.8	nmol/L
ANDROSTENEDIONE	M/F	<11 Y	<1.1	nmol/L
<b>ANION GAP</b>				
ANION GAP	M/F	<100 Y	10.1--19.9	
<b>ANTI DNA</b>				
ANTI DNA	M/F	<100 Y	0--34	kU/L
<b>ANTI TISSUE TRANSGLUTAMINASE</b>				
ANTI TISSUE TRANSGLUTAMINASE (TTG ANTIBODY IGA)	M/F	<100 Y	<20	Units
<b>ANTITHROMBIN</b>				
ANTITHROMBIN III (ANTITHROMBIN)	M/F	<100 Y	>0.80	U/mL
<b>APOLIPO B-100</b>				
APOLIPO B-100 (APO B-100)	M/F	Risk Category High	<0.8	g/L
APOLIPO B-100 (APO B-100)	M/F	Risk Category Moderate	<0.8	g/L
<b>ARSENIC</b>				
ARSENIC (Arsenic blood)	M/F	<100 Y	<930	nmol/L

	Sex	Age	Interval	Unit
<b>AST</b>				
AST	M/F	<=29 Y	<30	U/L
AST	M/F	30-100 Y	<35	U/L
<b>BARBITURATE URINE</b>				
BARBITURATE URINE (Barbiturate)	M/F	<100 Y	Negative	
<b>BENZODIAZEPINE URINE</b>				
BENZODIAZEPINE URINE (Benzodiazepines)	M/F	<100 Y	Negative	
<b>BETA-2 GLYCOPROTEIN 1 ANTIBODIES IMMUNOGLOBULI</b>				
BETA 2 GLYCOPROTEIN 1 IMMUNOGLOBULINS (BETA-2 GLYCOPROTEIN 1 IGG)	M/F	<100 Y	0--20	SGU
BETA 2 GLYCOPROTEIN 1 IMMUNOGLOBULINS (BETA-2 GLYCOPROTEIN 1 IGM)	M/F	<100 Y	0--20	SGU
<b>BICARBONATE</b>				
BICARBONATE	M/F	<100 Y	20--29	mmol/L
<b>BILIRUBIN DIRECT</b>				
BILIRUBIN CONJUGATED (Conjugated Bili)	M/F	<=14 D	2--30	umol/L
BILIRUBIN CONJUGATED (Conjugated Bili)	M/F	> 14 D	<8	umol/L
<b>BILIRUBIN TOTAL</b>				
BILIRUBIN TOTAL	M/F	1 D	<172	umol/L
BILIRUBIN TOTAL	M/F	2-14 D	<217	umol/L
BILIRUBIN TOTAL	M/F	>14 D	<20	umol/L
<b>BIOAVAILABLE TESTOSTERONE</b>				
BIOAVAILABLE TESTOSTERONE (BIOAVAILABLE T)	F	<100 Y	<1.6	nmol/L
BIOAVAILABLE TESTOSTERONE (BIOAVAILABLE T)	M	<100 Y	2--16	nmol/L
BIOAVAILABLE TESTOSTERONE (FREE T calculated)	F	<100 Y	5--60	pmol/L
BIOAVAILABLE TESTOSTERONE (FREE T calculated)	M	<100 Y	90--700	pmol/L

	Sex	Age	Interval	Unit
<b>BLOOD CADMIUM</b>				
BLOOD CADMIUM (Cadmium blood)	M/F	<100 Y	<44	nmol/L
<b>BLOOD MERCURY</b>				
BLOOD MERCURY (Mercury blood)	M/F	<100 Y	<29	nmol/L
<b>BNP</b>				
BNP	M/F	<100 Y	<100	ng/L
<b>BREATH HYDROGEN</b>				
BREATH HYDROGEN BASELINE (Br H2 Baseline)	M/F	<100 Y	<=20	ul/L
BREATH HYDROGEN 120m (Br H2 Incr@120 min)	M/F	<100 Y	<=20	ul/L
BREATH HYDROGEN 60m (Br H2 Incr@60 min)	M/F	<100 Y	<=20	ul/L
<b>C REACTIVE PROTEIN</b>				
C REACTIVE PROTEIN	M/F	<100 Y	<5.0	mg/L
<b>CA 125</b>				
CA 125 (CA125)	M/F	<100 Y	<26	kU/L
<b>CA 15-3</b>				
CA 15-3 (CA15-3)	M/F	<100 Y	<45	kU/L
<b>CA 19-9</b>				
CA 19-9 (CA19-9)	M/F	<100 Y	<37	kU/L
<b>CALCIUM</b>				
CALCIUM	M/F	<100 Y	2.10--2.55	mmol/L
<b>CALCIUM IONIZED</b>				
IONIZED CALCIUM (CALCIUM FREE)	M/F	<100 Y	1.15--1.35	mmol/L

	Sex	Age	Interval	Unit
<b>CARBAMAZEPINE</b>				
CARBAMAZEPINE	M/F	<100 Y	17-51	umol/L
<b>CARDIOLIPIN AB</b>				
CARDIOLIPIN AB (IGG CARDIOLIPIN AB)	M/F	<100 Y	<12 Negative	GPL Units
CARDIOLIPIN AB (IGG CARDIOLIPIN AB)	M/F	<100 Y	=> 12 Positive	GPL Units
CARDIOLIPIN AB (IGM CARDIOLIPIN AB)	M/F	<100 Y	=>12 Positive	MPL Units
CARDIOLIPIN AB (IGM CARDIOLIPIN AB)	M/F	<100 Y	<12 Negative	MPL Units
<b>CERULOPLASMIN</b>				
CERULOPLASMIN	M/F	<=42 D	0.14--0.41	g/L
CERULOPLASMIN	M/F	43 D-100 Y	0.15--0.60	g/L
<b>CHLORIDE</b>				
CHLORIDE	M/F	<100 Y	98--106	mmol/L
<b>CHOLESTEROL</b>				
CHOLESTEROL	M/F	<=18 Y	2.00--4.39	mmol/L
CHOLESTEROL	M/F	19-29 Y	2.00--4.59	mmol/L
CHOLESTEROL	M/F	>=30 Y	2.00--5.19	mmol/L
<b>CKMB ISOENZYME</b>				
CKMB ISOENZYME (CKMB ISO)	M/F	<100 Y	0--6	ug/L
CKMB ISOENZYME (MB INDEX)	M/F	<100 Y	0--0.030	
<b>CLOZAPINE</b>				
CLOZAPINE	M/F	<100 Y	300--2100	nmol/L
<b>COCAINE URINE</b>				
COCAINE URINE (Cocaine)	M/F	<100 Y	Negative	

	Sex	Age	Interval	Unit
<b>COLD AGGLUTININS</b>				
COLD AGGLUTININS (COLD AGG.TITRE)	M/F	<100 Y	Titre <1:64	
COLD AGGLUTININS	M/F	<100 Y	Negative	
<b>COMPLEMENT C3</b>				
COMPLEMENT C3	M/F	<100 Y	1.00--2.00	g/L
<b>COMPLEMENT C4</b>				
COMPLEMENT C4	M/F	<100 Y	0.10--0.50	g/L
<b>COPPER</b>				
COPPER (Copper serum)	F	<100 Y	13--24	umol/L
COPPER (Copper serum)	M	<100 Y	11-22	umol/L
<b>CORTISOL AM</b>				
CORTISOL AM (CORTISOL A.M.)	M/F	<100 Y	140--690	nmol/L
<b>CORTISOL PM</b>				
CORTISOL PM (CORTISOL P.M.)	M/F	<100 Y	50--300	nmol/L
<b>CREATINE KINASE</b>				
CREATINE KINASE (CK)	F	<100 Y	<200	U/L
CREATINE KINASE (CK)	M	<100 Y	<300	U/L
<b>CREATININE</b>				
CREATININE	F	19-150 Y	50--100	umol/L
CREATININE	M	19-150 Y	70--120	umol/L
CREATININE	M/F	<=5 Y	<50	umol/L
CREATININE	M/F	6-10 Y	30--80	umol/L
CREATININE	M/F	11-18 Y	35--100	umol/L
CREATININE (eGFR)	M/F	<100 Y	>=60	mL/min

	Sex	Age	Interval	Unit
<b>CREATININE CLEARANCE 24h</b>				
CREATININE CLEARANCE 24H (Creat Clearance)	F	<=50 Y	1.14--2.24	mL/s/
CREATININE CLEARANCE 24H (Creat Clearance)	F	51-100 Y	0.87--1.94	mL/s/
CREATININE CLEARANCE 24H (Creat Clearance)	M	<=50 Y	1.25--2.44	mL/s/
CREATININE CLEARANCE 24H (Creat Clearance)	M	51-100 Y	0.92--2.10	mL/s/

### CRYOFIBRINOGEN

CRYOFIBRINOGEN	M/F	<100 Y	0.00--0.04	
----------------	-----	--------	------------	--

### CRYOGLOBULINS

CRYOGLOBULINS	M/F	<100 Y	0.00--0.04	
---------------	-----	--------	------------	--

### CYCLOSPORINE

CYCLOSPORINE	M/F	<100 Y	75-340	ug/L
--------------	-----	--------	--------	------

### CYCLOSPORINE PEAK

CYCLOSPORINE PEAK (CYCLOSPORINE)	M/F	<100 Y	400-1600	ug/L
----------------------------------	-----	--------	----------	------

### D-DIMER

D-DIMER	M/F	<100 Y	<500	ug/L FEU
---------	-----	--------	------	----------

### DHEA-S

DHEAS (DHEA-S)	F	Prepubertal	<2.6	umol/L
DHEAS (DHEA-S)	F	Adult	0.7--11.7	umol/L
DHEAS (DHEA-S)	F	Post Menopausal	0.7--6.5	umol/L
DHEAS (DHEA-S)	M	Prepubertal	<2.0	umol/L
DHEAS (DHEA-S)	M	Adult	5.2--14.2	umol/L
DHEAS (DHEA-S)	M	>50 Y	1.3--8.4	umol/L

### DIGOXIN

DIGOXIN	M/F	<100 Y	1.0--2.6 Therapeutic	nmol/L
---------	-----	--------	-------------------------	--------

**Sex Age****Interval****Unit****DIRECT ANTIGLOBULIN TEST**

DIRECT ANTIGLOBULIN TEST (DIRECT ANTIGLOBULIN)	---	---	No range	
--	-----	-----	----------	--

**EARLY PREG TEST**

EARLY PREG TEST (SERUM Hcg)	F	non-pregnant	Negative	IU/L
-----------------------------	---	--------------	----------	------

**ENA**

ENA			No reportable reference interval	
-----	--	--	----------------------------------	--

**ESTRADIOL**

ESTRADIOL	F	Follicular	70-530	pmol/L
ESTRADIOL	F	Mid-cycle	230--1310	pmol/L
ESTRADIOL	F	Luteal	200--790	pmol/L
ESTRADIOL	F	Post-menopausal	<120	pmol/L
ESTRADIOL	M	11-100 Y	<150	pmol/L

**ESTRADIOL (FERTILITY)**

ESTRADIOL (FERTILITY) (ESTRADIOL)	---	---	No range	pmol/L
-----------------------------------	-----	-----	----------	--------

**FERRITIN**

FERRITIN	F	16-18 Y	12--83	ug/L
FERRITIN	F	19-100Y	15-180	ug/L
FERRITIN	M	16-18 Y	12--170	ug/L
FERRITIN	M	19-100 Y	15--300	ug/L
FERRITIN	M/F	6 M-15 Y	12--75	ug/L

**FIBRINOGEN**

FIBRINOGEN	M/F	<100 Y	1.90--4.60	g/L
------------	-----	--------	------------	-----

	Sex	Age	Interval	Unit
<b>FOETAL HEMOGLOBIN</b>				
FOETAL HEMOGLOBIN (HB F)	M/F	0-29 D	60--95	%
FOETAL HEMOGLOBIN (HB F)	M/F	30-59 D	35--86	%
FOETAL HEMOGLOBIN (HB F)	M/F	2-3 M	11--56	%
FOETAL HEMOGLOBIN (HB F)	M/F	4-5 M	3--14	%
FOETAL HEMOGLOBIN (HB F)	M/F	6-12 M	1--4	%
FOETAL HEMOGLOBIN (HB F)	M/F	13-18 M	0.5--2.9	%
FOETAL HEMOGLOBIN (HB F)	M/F	19-24 M	0.2--2.6	%
FOETAL HEMOGLOBIN (HB F)	M/F	25 M -100 Y	<2.0	%

### FOLATE

FOLATE	M/F	<100 Y	>12	nmol/L
--------	-----	--------	-----	--------

### FREE T4

FREE T4 (T4 Free)	M/F	<7 Y	14.5--33.0	pmol/L
FREE T4 (T4 Free)	M/F	>=7 Y	10.5--20.0	pmol/L

### FREE TESTOSTERONE

FREE TESTOSTERONE	F	<=20 Y	puberty dependant	pmol/L
FREE TESTOSTERONE	F	21-60 Y	0.5--8.1	pmol/L
FREE TESTOSTERONE	F	61-100 Y	<6.5	pmol/L
FREE TESTOSTERONE	M	<=20 Y	puberty dependant	pmol/L
FREE TESTOSTERONE	M	21-30 Y	24--95	pmol/L
FREE TESTOSTERONE	M	31-40 Y	25--89	pmol/L
FREE TESTOSTERONE	M	41-50 Y	23--82	pmol/L
FREE TESTOSTERONE	M	51-60 Y	23--80	pmol/L
FREE TESTOSTERONE	M	61-100 Y	22--74	pmol/L

	Sex	Age	Interval	Unit
<b>FSH</b>				
FSH	F	Prepubertal	<3.0	IU/L
FSH	F	Follicular/Luteal	<9.0	IU/L
FSH	F	Mid-Cycle	4.0--20.0	IU/L
FSH	F	Post Menopausal	20.0--135	IU/L
FSH	M	<10 Y	<3.0	IU/L
FSH	M	10-100 Y	<10.0	IU/L
<b>GAMMA GT</b>				
GAMMA GT (GGT)	M/F	<100 Y	10--58	U/L
<b>GESTATIONAL GLUCOSE TOLERANCE 2H</b>				
GESTATIONAL TOLERANCE 1H (Glucose 1h)	F	<100 Y	3.3--9.9	mmol/L
GESTATIONAL TOLERANCE 2H (Glucose 2h)	F	<100 Y	3.3--8.4	mmol/L
GESTATIONAL TOLERANCE FASTING (Glucose fasting)	F	<100 Y	3.3--5.0	mmol/L
<b>GLOBULIN</b>				
GLOBULIN (A/G Ratio)	M/F	<100 Y	1.0--2.5	
GLOBULIN	M/F	<100 Y	20--35	g/L
<b>GLUCOSE</b>				
GLUCOSE (Glucose random)	M/F	<100 Y	3.3--11.0	mmol/L
<b>GLUCOSE 2h pc</b>				
GLUCOSE 2H PC	M/F	<100 Y	3.3--11.0	mmol/L
<b>GLUCOSE FASTING</b>				
GLUCOSE FASTING	M/F	<100 Y	3.3--5.5	mmol/L
<b>GLUCOSE TOLERANCE 1H</b>				
GLUCOSE TOLERANCE 1H (Glucose 1h)	M/F	<100 Y	3.3--11.0	mmol/L

**Sex Age****Interval****Unit****GLUCOSE TOLERANCE 2H**

GLUCOSE TOLERANCE 2H (Glucose 2h)	M/F	<100 Y	3.3--7.7	mmol/L
GLUCOSE TOLERANCE FASTING (Glucose Fasting)	M/F	<100 Y	3.3--5.5	mmol/L

**GROWTH HORMONE**

GROWTH HORMONE	F	18-100 Y	<10.0	ug/L
GROWTH HORMONE	M	18-100 Y	<1.0	ug/L
GROWTH HORMONE	M/F	<3 M	<27.1	ug/L
GROWTH HORMONE	M/F	3 M-9 Y	<3.1	ug/L
GROWTH HORMONE	M/F	10-17 Y	<8.6	ug/L

**HAPTOGLOBIN**

HAPTOGLOBIN	M/F	<20 Y	0.14--1.29	g/L
HAPTOGLOBIN	M/F	20-100 Y	0.20--1.58	g/L

**HCG**

HCG (hCG-Beta)	F	Non pregnant	<5.0	IU/L
HCG (hCG-Beta)	F	Pregnant 0-1 W	5.0--50.0	IU/L
HCG (hCG-Beta)	F	Pregnant 1-2 W	40.0--300	IU/L
HCG (hCG-Beta)	F	Pregnant 2-3 W	100--1000	IU/L
HCG (hCG-Beta)	F	Pregnant 3-4 W	500--6000	IU/L
HCG (hCG-Beta)	F	Pregnant 1-2 M	5000--200,000	IU/L
HCG (hCG-Beta)	F	Pregnant 2-3 M	10,000--100,000	IU/L
HCG (hCG-Beta)	F	2nd Trimester	3000--50,000	IU/L
HCG (hCG-Beta)	F	3rd Trimester	1000--50,000	IU/L
HCG (hCG-Beta)	F	Post Partum	detectable levels for 30 days	IU/L
HCG (hCG-Beta)	M	<100 Y	<5.0	IU/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<b>HDL CHOLESTEROL</b>				
HDL-CHOLESTEROL (CHOL:HDL Ratio)	F	<100 Y	<4.4	
HDL-CHOLESTEROL (CHOL:HDL Ratio)	M	<100 Y	<4.9	
HDL-CHOLESTEROL	F	>=19 Y	>1.10	mmol/L
HDL-CHOLESTEROL	M	>=19 Y	>0.90	mmol/L
HDL-CHOLESTEROL	M/.F	<=18 Y	>1.00	mmol/L
HDL-CHOLESTEROL (LDL Cholesterol)	M/F	<=18 Y	1.50--2.79	mmol/L
HDL-CHOLESTEROL (LDL Cholesterol)	M/F	19-29 Y	1.50--2.99	mmol/L
HDL-CHOLESTEROL (LDL Cholesterol)	M/F	>=30 Y	1.50--3.39	mmol/L

	Sex	Age	Interval	Unit
<b>HEMATOLOGY PANEL</b>				
HEMATOLOGY PANEL (HEMATOCRIT)	F	12-15 Y	0.35--0.44	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	F	16-18 Y	0.35--0.44	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	F	19-100 Y	0.35--0.43	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M	12-15 Y	0.37--0.47	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M	16-18 Y	0.38--0.49	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M	19-100 Y	0.38--0.50	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	<=7 D	0.45--0.67	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	8-29 D	0.39--0.66	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	30-59 D	0.31--0.55	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	2-5 M	0.28--0.42	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	6-11 M	0.31--0.39	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	1-4 Y	0.33--0.39	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	5 Y	0.34--0.40	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	6-11 Y	0.35--0.43	(no SI unit)
HEMATOLOGY PANEL (HEMOGLOBIN)	F	12-18 Y	117--149	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	F	19-100 Y	120--150	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M	12-15 Y	125--165	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M	16-18 Y	131--169	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M	19-100 Y	133--165	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	<=7 D	145--225	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	8-29 D	125--215	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	30-59 D	102--182	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	2-5 M	95--135	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	6-11 M	103--135	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	1-4 Y	107--131	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	5 Y	107--147	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	6-11 Y	118--146	g/L
HEMATOLOGY PANEL (MCH)	M/F	<=29 D	31.0--37.0	pg

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (MCH)	M/F	30-59 D	29.0--36.0	pg
HEMATOLOGY PANEL (MCH)	M/F	2-5 M	26.0--34.0	pg
HEMATOLOGY PANEL (MCH)	M/F	6-11 M	25.0--35.0	pg
HEMATOLOGY PANEL (MCH)	M/F	1-4 Y	23.0--31.0	pg
HEMATOLOGY PANEL (MCH)	M/F	5 Y	24.0--30.0	pg
HEMATOLOGY PANEL (MCH)	M/F	6-15 Y	25.8--31.7	pg
HEMATOLOGY PANEL (MCH)	M/F	16-18 Y	25.0--33.8	pg
HEMATOLOGY PANEL (MCH)	M/F	19-100 Y	27.5--33.5	pg
HEMATOLOGY PANEL (MCHC)	M/F	<=7 D	300--366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	8-29 D	300--366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	30-59 D	280--360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	2-5 M	290--370	g/L
HEMATOLOGY PANEL (MCHC)	M/F	6-11 M	290--360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	1-4 Y	300--360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	5 Y	310--370	g/L
HEMATOLOGY PANEL (MCHC)	M/F	6-100 Y	305--365	g/L
HEMATOLOGY PANEL (MCV)	F	12-15 Y	77--92	fl
HEMATOLOGY PANEL (MCV)	F	16-18 Y	80--95	fl
HEMATOLOGY PANEL (MCV)	F	19-100 Y	82--98	fl
HEMATOLOGY PANEL (MCV)	M	12-15 Y	77--92	fl
HEMATOLOGY PANEL (MCV)	M	16-18 Y	80--95	fl
HEMATOLOGY PANEL (MCV)	M	19-100 Y	82--98	fl
HEMATOLOGY PANEL (MCV)	M/F	<=7 D	95--121	fl
HEMATOLOGY PANEL (MCV)	M/F	8-29 D	88--126	fl
HEMATOLOGY PANEL (MCV)	M/F	30-59 D	86--124	fl
HEMATOLOGY PANEL (MCV)	M/F	2-5 M	76--111	fl
HEMATOLOGY PANEL (MCV)	M/F	>5 M-2 Y	70-86	fl
HEMATOLOGY PANEL (MCV)	M/F	>2 Y-5 Y	75--86	fl
HEMATOLOGY PANEL (MCV)	M/F	6-11 Y	77--92	fl

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	1-7 D	150-450	giga/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	>7 D-2 M	170-500	giga/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	>2 M-6 M	210-650	giga/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	>6 M-5 Y	200-520	giga/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	>5 Y-16 Y	180-400	giga/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	>16 Y	150--400	giga/L
HEMATOLOGY PANEL (RBC)	F	12-15 Y	4.05--4.98	tera/L
HEMATOLOGY PANEL (RBC)	F	16-18 Y	4.00--4.87	tera/L
HEMATOLOGY PANEL (RBC)	F	19-100 Y	3.80--4.80	tera/L
HEMATOLOGY PANEL (RBC)	M	12-15 Y	4.43--5.53	tera/L
HEMATOLOGY PANEL (RBC)	M	16-18 Y	4.41--5.71	tera/L
HEMATOLOGY PANEL (RBC)	M	19-100 Y	4.20--5.40	tera/L
HEMATOLOGY PANEL (RBC)	M/F	<=7 D	4.00--6.60	tera/L
HEMATOLOGY PANEL (RBC)	M/F	8-29 D	3.90--6.30	tera/L
HEMATOLOGY PANEL (RBC)	M/F	30-59 D	3.30--5.30	tera/L
HEMATOLOGY PANEL (RBC)	M/F	2-5 M	2.70--4.90	tera/L
HEMATOLOGY PANEL (RBC)	M/F	6-11 M	3.70--5.30	tera/L
HEMATOLOGY PANEL (RBC)	M/F	1-4 Y	3.70--5.30	tera/L
HEMATOLOGY PANEL (RBC)	M/F	5 Y	3.90--5.30	tera/L
HEMATOLOGY PANEL (RBC)	M/F	6-11 Y	4.05--5.15	tera/L
HEMATOLOGY PANEL (RDW)	M/F	<100 Y	11.5--14.5	%
HEMATOLOGY PANEL (WBC)	M/F	<=7 D	9.0--30.0	giga/L
HEMATOLOGY PANEL (WBC)	M/F	8-29 D	5.0--20.0	giga/L
HEMATOLOGY PANEL (WBC)	M/F	30-59 D	5.0--19.5	giga/L
HEMATOLOGY PANEL (WBC)	M/F	2-5 M	5.5--18.0	giga/L
HEMATOLOGY PANEL (WBC)	M/F	6-11 M	5.0--15.0	giga/L
HEMATOLOGY PANEL (WBC)	M/F	1-4 Y	5.0--16.0	giga/L
HEMATOLOGY PANEL (WBC)	M/F	5-18 Y	3.9--10.2	giga/L
HEMATOLOGY PANEL (WBC)	M/F	19-100 Y	4.0--10.0	giga/L

**Sex Age**

**Interval**

**Unit**

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
WBC DIFFERENTIAL (BASOPHILS)	M/F	<=7 D	0.0--0.6	giga/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	8 D - 5 Y	0.0--0.2	giga/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	6-18 Y	0.0--0.1	giga/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	19-100 Y	0.0--0.2	giga/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	<=7 D	0.2--0.6	giga/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	8 D - 5 M	0.2--0.8	giga/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	6 M-100 Y	0.0--0.5	giga/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	<=7 D	2.0--10.0	giga/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	8 D - 5 M	2.0--17.0	giga/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	6 M -2 Y	3.6--12.0	giga/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	>2 Y - 6 Y	2.0-8.0	giga/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	6-11 Y	1.5--4.2	giga/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	12-18 Y	1.0--3.6	giga/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	19-100 Y	1.0--4.0	giga/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	<=5 M	0.5--1.8	giga/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	6-11 M	0.0--0.9	giga/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	1-4 Y	0.0--0.9	giga/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	5 Y	0.0--0.8	giga/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	6-18 Y	0.0--0.7	giga/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	19-100 Y	0.1--0.8	giga/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	<=7 D	2.0--20.0	giga/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	8-29 D	1.5--10.0	giga/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	1-5 M	1.5--9.5	giga/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	6 M-4 Y	1.5--8.5	giga/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	5-11 Y	1.5--8.0	giga/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	12-100 Y	2.0--7.5	giga/L
WBC DIFFERENTIAL (WBC)	M/F	<=7 D	9.0--30.0	giga/L
WBC DIFFERENTIAL (WBC)	M/F	8-29 D	5.0--20.0	giga/L
WBC DIFFERENTIAL (WBC)	M/F	30-59 D	5.0--19.5	giga/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
WBC DIFFERENTIAL (WBC)	M/F	2-5 M	5.5--18.0	giga/L
WBC DIFFERENTIAL (WBC)	M/F	6-11 M	5.0--15.0	giga/L
WBC DIFFERENTIAL (WBC)	M/F	1-4 Y	5.0--16.0	giga/L
WBC DIFFERENTIAL (WBC)	M/F	5-18 Y	3.9--10.2	giga/L
WBC DIFFERENTIAL (WBC)	M/F	19-100 Y	4.0--10.0	giga/L

### HEMODIALYSIS FLUID CELL COUNT & DIFF

FLUID CELL COUNT & DIFF (FLUID RBC)	M/F	<100 Y	0	/HPF
-------------------------------------	-----	--------	---	------

### HEMOGLOBIN

HEMOGLOBIN	F	12-18 Y	117--149	g/L
HEMOGLOBIN	F	19-100 Y	120--150	g/L
HEMOGLOBIN	M	12-15 Y	125--165	g/L
HEMOGLOBIN	M	16-18 Y	131--169	g/L
HEMOGLOBIN	M	19-100 Y	133--165	g/L
HEMOGLOBIN	M/F	<=7 D	145--225	g/L
HEMOGLOBIN	M/F	8-29 D	125--215	g/L
HEMOGLOBIN	M/F	30-59 D	102--182	g/L
HEMOGLOBIN	M/F	2-5 M	95--135	g/L
HEMOGLOBIN	M/F	6-11 M	103--135	g/L
HEMOGLOBIN	M/F	1-4 Y	107--131	g/L
HEMOGLOBIN	M/F	5 Y	107--147	g/L
HEMOGLOBIN	M/F	6-11 Y	118--146	g/L

### HEMOGLOBIN A1C

HEMOGLOBIN A1C	M/F	<100 Y	4.5--6.0	% (percent)
----------------	-----	--------	----------	-------------

### HEPARIN ADSORPTION INR

HEPARIN ADSORPTION INR (Hep Adsorb INR)	M/F	<100 Y	0.8--1.2	
---	-----	--------	----------	--

	Sex	Age	Interval	Unit
<b>HEPATITIS B CORE AB</b>				
HEPATITIS B CORE AB (HEP B CORE AB)	M/F	<100 Y	Negative	
<b>HEPATITIS B SURFACE AB</b>				
HEPATITIS B SURFACE AB (HEP B SURFACE AB)	M/F	<100 Y	0.0--7.4 Below level for immunity to HBV	IU/L
HEPATITIS B SURFACE AB (HEP B SURFACE AB)	M/F	<100 Y	7.5--12.4 Equivocal for immunity to HBV	IU/L
HEPATITIS B SURFACE AB (HEP B SURFACE AB)	M/F	<100 Y	>12.4 Consistent with immunity to HBV if HBsAg is non-reactive	IU/L
<b>HEPATITIS B SURFACE AG</b>				
HEPATITIS B SURFACE AG (HEP B SURFACE AG)	M/F	<100 Y	Negative	
<b>HGB INVESTIGATION</b>				
HEMOGLOBIN A2 (HB A2)	M/F	<100 Y	2.0--3.5	%
<b>HLA-B27</b>				
HLA-B27	M/F	<100 Y	Negative	
<b>HOMOCYSTEINE</b>				
HOMOCYSTEINE (TOTAL HOMOCYSTEINE)	F	>12 Y	<=13	umol/L
HOMOCYSTEINE (TOTAL HOMOCYSTEINE)	M	>12 Y	<=13	umol/L

	Sex	Age	Interval	Unit
<b>IgA</b>				
IgA	M/F	6 M - 1 Y	0.18--1.03	g/L
IgA	M/F	2-3 Y	0.38--1.81	g/L
IgA	M/F	4-6 Y	0.40--2.15	g/L
IgA	M/F	7-9 Y	0.45--2.37	g/L
IgA	M/F	10-15 Y	0.56-2.87	g/L
IgA	M/F	16-17 Y	0.65--3.38	g/L
IgA	M/F	18-100 Y	0.78--3.58	g/L

<b>IGE</b>				
IGE	M/F	<=2 Y	<120	ug/L
IGE	M/F	3-11 Y	<240	ug/L
IGE	M/F	12-14 Y	<290	ug/L
IGE	M/F	Adult	<430	ug/L

<b>IgG</b>				
IgG	M/F	<=3 M	2.2--15.5	g/L
IgG	M/F	4-6 M	3.1--13.6	g/L
IgG	M/F	7-9 M	4.1--11.7	g/L
IgG	M/F	10 M-3 Y	3.4--11.6	g/L
IgG	M/F	4-6 Y	4.9--12.1	g/L
IgG	M/F	7-9 Y	5.3--12.8	g/L
IgG	M/F	10-15 Y	5.7--14.3	g/L
IgG	M/F	19-100 Y	6.3--14.9	g/L

<b>IgM</b>				
IgM	M/F	<=2 M	0.32--1.28	g/L
IgM	M/F	3 M-4 Y	0.40--1.61	g/L
IgM	M/F	5-19 Y	0.56--2.14	g/L
IgM	M/F	20-100 Y	0.56--2.18	g/L

**Sex Age****Interval****Unit****INSULIN 2h pc**

INSULIN 2h pc	M/F	<100 Y	15--130	pmol/L
---------------	-----	--------	---------	--------

**INSULIN FASTING**

INSULIN FASTING	M/F	<100 Y	15--130	pmol/L
-----------------	-----	--------	---------	--------

**INSULIN RANDOM**

INSULIN RANDOM (INSULIN)	M/F	<100 Y	15--130	pmol/L
--------------------------	-----	--------	---------	--------

**INSULIN TOLERANCE EXTRA**

INSULIN TOLERANCE EXTRA (INSULIN)	M/F	<100 Y	15--130	pmol/L
-----------------------------------	-----	--------	---------	--------

**INSULIN TOLERANCE TEST**

INSULIN TOLERANCE 1H (INSULIN 1h)	M/F	<100 Y	15--130	pmol/L
-----------------------------------	-----	--------	---------	--------

INSULIN TOLERANCE 2H (INSULIN 2h)	M/F	<100 Y	15--130	pmol/L
-----------------------------------	-----	--------	---------	--------

INSULIN TOLERANCE FASTING (INSULIN FASTING)	M/F	<100 Y	15--130	pmol/L
---	-----	--------	---------	--------

**IRON PROFILE**

IRON	M/F	<100 Y	10--33	umol/L
------	-----	--------	--------	--------

IRON BINDING CAPACITY (SAT)	M/F	<100 Y	0.20--0.55	
-----------------------------	-----	--------	------------	--

IRON BINDING CAPACITY (TIBC)	M/F	<100 Y	37--72	umol/L
------------------------------	-----	--------	--------	--------

**JOINT FLUID ANA**

JOINT FLUID ANA (ANA)	M/F	<100 Y	Titre <1:80	
-----------------------	-----	--------	-------------	--

**JOINT FLUID DIFF**

JOINT FLUID DIFF (FLUID LYMPHOCYTES)	M/F	<100 Y	0--78	%
--------------------------------------	-----	--------	-------	---

JOINT FLUID DIFF (FLUID MONONUCLEAR)	M/F	<100 Y	0--65	%
--------------------------------------	-----	--------	-------	---

JOINT FLUID DIFF (FLUID NEUTROPHILS)	M/F	<100 Y	0--25	%
--------------------------------------	-----	--------	-------	---

JOINT FLUID DIFF (FLUID WBC'S)	M/F	<100 Y	<150	mega/L
--------------------------------	-----	--------	------	--------

	Sex	Age	Interval	Unit
<b>JOINT FLUID GLUCOSE</b>				
JOINT FLUID GLUCOSE (Glucose Joint Fld)			No reportable reference interval	mmol/L
<b>JOINT FLUID PROTEIN</b>				
JOINT FLUID PROTEIN (Protein Joint Fld)			No reportable reference interval	g/L
<b>JOINT FLUID URIC ACID</b>				
JOINT FLUID URIC ACID (Uric Acid Joint Fld)			No reportable reference interval	umol/L
<b>KETO ACIDS</b>				
KETO ACIDS (KETONES)	M/F	<100 Y	Negative	
<b>LACTATE</b>				
LACTATE	M/F	<100 Y	0.7--2.1	mmol/L

	Sex	Age	Interval	Unit
<b>LDH</b>				
LDH (LD)	F	10-11 Y	323--627	U/L
LDH (LD)	F	12-13 Y	323--526	U/L
LDH (LD)	F	14-15 Y	331--479	U/L
LDH (LD)	M	10-11 Y	363--572	U/L
LDH (LD)	M	12-13 Y	393--611	U/L
LDH (LD)	M	14-15 Y	307--596	U/L
LDH (LD)	M/F	0-5 D	755--1703	U/L
LDH (LD)	M/F	6-30 D	455--1664	U/L
LDH (LD)	M/F	1-12 M	323--986	U/L
LDH (LD)	M/F	1-3 Y	416--744	U/L
LDH (LD)	M/F	4-6 Y	393--728	U/L
LDH (LD)	M/F	7-9 Y	354--611	U/L
LDH (LD)	M/F	16-19 Y	292--549	U/L
LDH (LD)	M/F	20-100 Y	260--494	U/L

### LEAD BLOOD

LEAD BLOOD	M/F	<15 Y	<0.48	umol/L
LEAD BLOOD	M/F	15-100 Y	<1.45	umol/L

### LH

LUTEINIZING HORM (LH)	F	Prepubertal	<3.0	IU/L
LUTEINIZING HORM (LH)	F	Follicular/Luteal	<13.0	IU/L
LUTEINIZING HORM (LH)	F	Midcycle	14.0--100	IU/L
LUTEINIZING HORM (LH)	F	Post Menopausal	15.0--65.0	IU/L
LUTEINIZING HORM (LH)	M	10-100 Y	<10.0	IU/L
LUTEINIZING HORM (LH)	M/F	<10 Y	<3.0	IU/L

### LIPASE

LIPASE	M/F	<100 Y	16--65	U/L
--------	-----	--------	--------	-----

	Sex	Age	Interval	Unit
<b>LIPOPROTEIN (a)</b>				
LIPOPROTEIN (a) (Lp(a))	M/F	<100 Y	<300	mg/L
<b>LITHIUM</b>				
LITHIUM	M/F	<66 Y	0.50--1.20	mmol/L
LITHIUM	M/F	66-100 Y	0.20--0.80	mmol/L
<b>MACROPROLACTIN</b>				
MACROPROLACTIN	F	<100 Y	0.50--1.00	recovery
<b>MAGNESIUM</b>				
MAGNESIUM	M/F	<100 Y	0.70--1.05	mmol/L
<b>MITOCHONDRIAL AB</b>				
MITOCHONDRIAL AB (AMA TITRE)	M/F	<100 Y	Titre <1:20	
MITOCHONDRIAL AB	M/F	<100 Y	Negative	
<b>NEONATAL BILIRUBIN</b>				
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	1 D	<172	umol/L
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	2-3 D	<217	umol/L
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	4-14 D	<217	umol/L
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	15-28 D	<20	umol/L
<b>OLANZAPINE</b>				
OLANZAPINE	M/F	<100Y	32-256	nmol/L
<b>OPIATES URINE</b>				
OPIATES URINE (Opiates)	M/F	<100 Y	Negative	
<b>OSMOLALITY</b>				
OSMOLALITY	M/F	<=60 Y	270--295	mOsmol/kg
OSMOLALITY	M/F	>60 Y	280--300	mOsmol/kg

	Sex	Age	Interval	Unit
<b>PARATHYROID HORMONE</b>				
PARATHYROID HORMONE (PTH)	M/F	<100 Y	<6.4	pmol/L
<b>PARIETAL CELL AB</b>				
PARIETAL CELL AB (APCA TITRE)	M/F	<100 Y	Titre <1:20	
PARIETAL CELL AB	M/F	<100 Y	Negative	
<b>PERITONEAL FLUID CELL COUNT &amp; DIFF</b>				
FLUID CELL COUNT & DIFF (FLUID LYMPHOCYTES)	M/F	<100 Y	0	%
FLUID CELL COUNT & DIFF (FLUID MONONUCLEAR)	M/F	<100 Y	0	%
FLUID CELL COUNT & DIFF (FLUID NEUTROPHILS)	M/F	<100 Y	0	%
FLUID CELL COUNT & DIFF (FLUID RBC)	M/F	<100 Y	0	/HPF
FLUID CELL COUNT & DIFF (FLUID WBC)	M/F	<100 Y	0	mega/L
<b>PHENOBARBITAL</b>				
PHENOBARBITAL	M/F	<=10 Y	43--172	umol/L
PHENOBARBITAL	M/F	11-100 Y	65--172	umol/L
<b>PHENYTOIN</b>				
PHENYTOIN	M/F	<=3 M	24-55	umol/L
PHENYTOIN	M/F	4 M-100 Y	40--80	umol/L
<b>PHOSPHORUS</b>				
PHOSPHORUS	M/F	<=1 M	1.71--3.16	mmol/L
PHOSPHORUS	M/F	2 M-1 Y	1.36--2.29	mmol/L
PHOSPHORUS	M/F	2-5 Y	1.23--2.20	mmol/L
PHOSPHORUS	M/F	6-10 Y	1.16--2.00	mmol/L
PHOSPHORUS	M/F	11-20 Y	0.94--1.78	mmol/L
PHOSPHORUS	M/F	21-100 Y	0.80--1.40	mmol/L

**Sex Age****Interval****Unit****PLATELET COUNT**

PLATELET COUNT	M/F	1-7 D	150-450	giga/L
PLATELET COUNT	M/F	>7 D-2 M	170-500	giga/L
PLATELET COUNT	M/F	>2 M-6 M	210-650	giga/L
PLATELET COUNT	M/F	>6 M-5 Y	200-520	giga/L
PLATELET COUNT	M/F	>5 Y-16 Y	180-400	giga/L
PLATELET COUNT	M/F	>16 Y	150--400	giga/L

**PLATELET COUNT CITRATE**

PLATELET COUNT	M/F	1-7 D	150-450	giga/L
PLATELET COUNT	M/F	>7 D-2 M	170-500	giga/L
PLATELET COUNT	M/F	>2 M-6 M	210-650	giga/L
PLATELET COUNT	M/F	>6 M-5 Y	200-520	giga/L
PLATELET COUNT	M/F	>5 Y-16 Y	180-400	giga/L
PLATELET COUNT	M/F	>16 Y	150--400	giga/L

**POTASSIUM**

POTASSIUM	M/F	<100 Y	3.5--5.0	mmol/L
-----------	-----	--------	----------	--------

**PRIMIDONE**

PRIMIDONE (Phenobarbital)	M/F	<=10 Y	43--172	umol/L
PRIMIDONE (Phenobarbital)	M/F	11-100 Y	65--172	umol/L

**PROGESTERONE**

PROGESTERONE	F	Follicular	<2	nmol/L
PROGESTERONE	F	Luteal	<2-50	nmol/L
PROGESTERONE	F	Mid Luteal	<2-81	nmol/L
PROGESTERONE	F	Post Meno/Oral Contraceptives	<2	nmol/L
PROGESTERONE	M	<100 Y	<4	nmol/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<b>PROLACTIN</b>				
PROLACTIN	F	<100 Y	<25.0	ug/L
PROLACTIN	M	<100 Y	<15.0	ug/L
<b>PROSTATE SPECIFIC ANTIGEN</b>				
PROSTATE SPECIFIC ANTIGEN (PSA)	M	<50 Y	<2.5	ug/L
PROSTATE SPECIFIC ANTIGEN (PSA)	M	50-59 Y	<3.5	ug/L
PROSTATE SPECIFIC ANTIGEN (PSA)	M	60-69Y	<4.5	ug/L
PROSTATE SPECIFIC ANTIGEN (PSA)	M	>=70 Y	<6.5	ug/L
<b>PROTEIN C ACTIVITY</b>				
PROTEIN C (PROTEIN C ACTIVITY)	M/F	<100 Y	>0.75	U/mL
<b>PROTEIN ELECTROPHORESIS</b>				
PROTEIN ELECTROPHORESIS (ALBUMIN)	M/F	<100 Y	37--55	g/L
PROTEIN ELECTROPHORESIS (ALPHA-1)	M/F	<100 Y	1--3	g/L
PROTEIN ELECTROPHORESIS (ALPHA-2)	M/F	<100 Y	5--9	g/L
PROTEIN ELECTROPHORESIS (BETA)	M/F	<100 Y	5--10	g/L
PROTEIN ELECTROPHORESIS (GAMMA)	M/F	<100 Y	5.0--12.5	g/L
<b>PROTEIN S ACTIVITY</b>				
PROTEIN S (PROTEIN S ACTIVITY)	F	<100 Y	>0.60	U/mL
PROTEIN S (PROTEIN S ACTIVITY)	M	<100 Y	>0.65	U/mL
<b>PROTEIN TOTAL</b>				
PROTEIN (Protein total)	M/F	<100 Y	60--80	g/L

	Sex	Age	Interval	Unit
<b>PROTHROMBIN TIME</b>				
PROTHROMBIN TIME (INR)	M/F	<100 Y	0.8--1.2 Recommended therapeutic ranges: Thromboembolism: 2.0--3.0 Mechanical Heart Valves: 2.5--3.5	
<b>RBC FOLATE</b>				
RBC FOLATE	M/F	<100 Y	>630	nmol/L
<b>RENIN</b>				
RENIN			5--75	ng/L
<b>RETICULOCYTE COUNT</b>				
RETICULOCYTE COUNT (ABSOLUTE RETIC)	M/F	<100 Y	35--120	giga/L
<b>RETICULOYCTE COUNT</b>				
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	F	19-100Y	3.0--15.9	%
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	F	<19Y	No established Reference Interval Adult Range is 3.0-15.9%	%
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	M	19-100Y	2.3--13.4	%
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	M	<19Y	No established Reference Interval Adult Range is 2.3-13.4%	%
<b>RHEUMATOID FACTOR</b>				
RHEUMATOID FACTOR	M/F	<100 Y	<14 Negative	Ku/L
RHEUMATOID FACTOR	M/F	<100 Y	14--30 Indeterminate	Ku/L
RHEUMATOID FACTOR	M/F	<100 Y	>30 Positive	Ku/L

**Sex Age****Interval****Unit****ROHYPNOL URINE**

BENZODIAZEPINE URINE (Benzodiazepines)	M/F	<100 Y	Negative	
--	-----	--------	----------	--

**SED RATE**

ESR (WESTERGREN)	F	<100 Y	0--20	mm/h
ESR (WESTERGREN)	M	<100 Y	0--10	mm/h

**SELENIUM**

SELENIUM (Selenium serum)	M/F	>1 Y	1.20--2.09	umol/L
---------------------------	-----	------	------------	--------

**SEMEN ANALYSIS**

SEMEN ANALYSIS (HRS OLD)	M	<100 Y	0--2	h
SEMEN ANALYSIS (MOTILITY)	M		=>50	%
SEMEN ANALYSIS (SPERM COUNT)	M		=>20	giga/L
SEMEN ANALYSIS (SPERM VIABILITY)	M		=>50	%
SEMEN ANALYSIS (VOLUME)	M		=>2	mL
SPERM MORPHOLOGY (ABNORMAL FORMS)	M	<100 Y	<96	%
SPERM MORPHOLOGY (IMMATURE FORMS)	M	<100 Y	<3	/100 SPERM
SPERM MORPHOLOGY (NORMAL FORMS)	M	<100 Y	=>4	%

**SEX HORMONE BINDING GLOBULIN**

SEX HORMONE BINDING GLOBULIN (SHBG)	F	<100 Y	5-100	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	M	<100 Y	10-70	nmol/L

**SIROLIMUS**

SIROLIMUS	M/F	<100 Y	4.0--12.0	ng/mL
-----------	-----	--------	-----------	-------

**SMOOTH MUSCLE AB**

SMOOTH MUSCLE AB (ASMA TITRE)	M/F	<100 Y	Titre <1:20	
SMOOTH MUSCLE AB	M/F	<100 Y	Negative	

	Sex	Age	Interval	Unit
<b>SODIUM</b>				
SODIUM	M/F	<100 Y	134-145	mmol/L
<b>SPECIFIC ALLERGEN IgE</b>				
SPECIFIC ALLERGEN IgE (SPECIFIC IGE)	M/F	<100 Y	<0.35	kU/L
<b>T3 FREE</b>				
T3 FREE	M/F	<100 Y	3.5--6.5	pmol/L
<b>TACROLIMUS</b>				
TACROLIMUS	M/F	<100 Y	4.0--12.0	ug/L
<b>TESTOSTERONE</b>				
TESTOSTERONE (TESTOSTERONE (T))	F	<100 Y	0.5--3.2	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	<=11Y	<3.1	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	12-100 Y	10.0--30.0	nmol/L
<b>THEOPHYLLINE</b>				
THEOPHYLLINE	M/F	<100 Y	55--110	umol/L
<b>THYROGLOBULIN</b>				
THYROGLOBULIN	M/F	<100 Y	0--60	ug/L
<b>THYROGLOBULIN AB</b>				
THYROGLOBULIN	M/F	<100 Y	0--60	ug/L
THYROGLOBULIN AB	M/F	<100 Y	<40	IU/mL
<b>TRANSFERRIN</b>				
TRANSFERRIN	M/F	<100 Y	1.47--3.38	g/L
<b>TRANSFERRIN SATURATION</b>				
TRANSFERRIN SAT (Transferrin Saturation)	M/F	<100 Y	0.20--0.55	

	Sex	Age	Interval	Unit
<b>TRIGLYCERIDE</b>				
TRIGLYCERIDE	M/F	<=18 Y	0.40--1.29	mmol/L
TRIGLYCERIDE	M/F	>=19 Y	0.45--2.29	mmol/L
<b>TROPONIN I</b>				
TROPONIN I	M/F	<100 Y	<0.10	ug/L
TROPONIN I	M/F	<100 Y	0.10--.80 suggests myocardial injury.	ug/L
TROPONIN I	M/F	<100 Y	>.80 is compatible with MI	ug/L
<b>TSH</b>				
TSH	M/F	<100 Y	0.38-5.5	mU/L
<b>UREA</b>				
UREA	M/F	<56 Y	2.5--7.0	mmol/L
UREA	M/F	56-100 Y	2.5--9.0	mmol/L
<b>UREA CLEARANCE</b>				
UREA CLEARANCE	M/F	<100 Y	0.98--1.58	mL/s
<b>URIC ACID</b>				
URIC ACID	F	<=15 Y	177--371	umol/L
URIC ACID	F	16-55 Y	162--427	umol/L
URIC ACID	F	56-100 Y	172--458	umol/L
URIC ACID	M	<=15 Y	171--438	umol/L
URIC ACID	M	16-55 Y	234--529	umol/L
URIC ACID	M	56-100 Y	234--529	umol/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<b>URINE ALBUMIN 12H</b>				
URINE MICROALBUMIN 12H (ACR 12h)	F	<100 Y	<2.8	mg/mmol
URINE MICROALBUMIN 12H (ACR 12h)	M	<100 Y	<2.0	mg/mmol
URINE MICROALBUMIN 12H (Albumin urine 12h)	M/F	<100 Y	<20	ug/min
<b>URINE ALBUMIN 24H</b>				
URINE MICROALBUMIN 24H (Albumin urine 24h)	M/F	<100 Y	<30	mg/d
<b>URINE ALBUMIN QUANT</b>				
URINE MICROALBUMIN QNT (ACR)	F	<100 Y	<2.8	mg/mmol
URINE MICROALBUMIN QNT (ACR)	M	<100 Y	<2.0	mg/mmol
<b>URINE AMPHETAMINE CONFIRM IF POS</b>				
AMPHETAMINE URINE (Amphetamines)	M/F	<100 Y	Negative	
<b>URINE AMYLASE</b>				
AMYLASE URINE	M/F	< 100 Y	<500	U/L
<b>URINE BARBITURATE CONFIRM IF POS</b>				
BARBITURATE URINE (Barbiturate)	M/F	<100 Y	Negative	
<b>URINE BENZODIAZEPINE CONFIRM IF POS</b>				
BENZODIAZEPINE URINE (Benzodiazepines)	M/F	<100 Y	Negative	
<b>URINE CALCIUM 24H</b>				
URINE CALCIUM 24H (Calcium urine 24h)	M/F	<100 Y	2.2--6.4	mmol/d
<b>URINE CALCIUM/CREATININE RATIO</b>				
URINE CAL/CRE RATIO (Calcium/Creat rdm)	M/F	<100 Y	0.01--0.39	
<b>URINE CALCIUM/CREATININE RATIO 2H</b>				
URINE CAL/CRE RATIO 2H (Ca/Creat 2h ratio)	M/F	<100 Y	0.2--0.4	

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<b>URINE CHLORIDE</b>				
CHLORIDE URINE (Chloride urine)	M/F	<100 Y	110--250	mmol/L
<b>URINE CHLORIDE 24h</b>				
CHLORIDE 24h URINE (Chloride urine 24h)	M/F	<100 Y	110--250	mmol/d
<b>URINE CITRATE</b>				
URINE CITRATE (Citrate urine)	M/F	< 100 Y	0.4--2.5	mmol/L
<b>URINE CITRATE 24H</b>				
URINE CITRATE 24H (Citrate urine 24h)	M/F	<100 Y	0.7--4.9	mmol/d
<b>URINE COCAINE CONFIRM IF POS</b>				
COCAINE URINE (Cocaine)	M/F	<100 Y	Negative	
<b>URINE CORTISOL 24H</b>				
URINE CORTISOL 24H (URINE CORTISOL)	M/F	<100 Y	30--220	nmol/d
<b>URINE CREATININE 24H</b>				
URINE CREATININE 24H (Creatinine 24h)	M/F	<=5 Y	0.9--5.3	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	6-7 Y	2.7--6.2	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	8-9 Y	3.5--8.0	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	10-11 Y	3.5--10.6	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	12-13 Y	4.4--14.1	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	14-15 Y	7.1--15.9	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	16-100 Y	7.1--17.7	mmol/d
<b>URINE D-PYR CROSSLINKS</b>				
URINE D-PYR CROSSLINKS (D-PYR CROSSLINKS)	F	<100 Y	3.0--7.4	nmol/mmol
URINE D-PYR CROSSLINKS (D-PYR CROSSLINKS)	M	<100 Y	2.5--5.5	nmol/mmol

	Sex	Age	Interval	Unit
<b>URINE GLUCOSE 24H</b>				
GLUCOSE URINE 24H	M/F	<100 Y	<1.4	mmol/d

<b>URINE HIAA 24H</b>				
URINE HIAA 24H (URINE HIAA)	M/F	<100 Y	<50	umol/d

<b>URINE MACROSCOPIC</b>				
URINE MACROSCOPIC (SPECIFIC GRAVITY)	M/F	<100 Y	1.003--1.035	
URINE MACROSCOPIC (URINE GLUCOSE)	M/F	<100 Y	<3	mmol/L
URINE MACROSCOPIC (URINE HEMOGLOBIN)	M/F	<100 Y	<0.3	mg/L
URINE MACROSCOPIC (URINE KETONES)	M/F	<100 Y	<1.5	mmol/L
URINE MACROSCOPIC (URINE LEUKOCYTES)	M/F	<100 Y	<25	Leu/uL
URINE MACROSCOPIC (URINE NITRITE)	M/F	<100 Y	Neg	
URINE MACROSCOPIC (URINE PH)	M/F	<100 Y	5.0--8.5	
URINE MACROSCOPIC (URINE PROTEIN)	M/F	<100 Y	<0.15	g/L

<b>URINE MAGNESIUM 24H</b>				
URINE MAGNESIUM 24H (Magnesium urine 24h)	M/F	<100 Y	0.60--7.60	mmol/d

<b>URINE MERCURY 24H</b>				
URINE MERCURY 24H (Mercury urine 24h)	M/F	<100 Y	<50	nmol/d

<b>URINE METANEPHRINE 24H</b>				
URINE METANEPHRINE 24H (UR METANEPHRINE)	M/F	<100 Y	0.4--1.5	umol/d
URINE METANEPHRINE 24H (UR NORMETANEPHRINE)	M/F	<100 Y	0.6--2.7	umol/d

	Sex	Age	Interval	Unit
<b>URINE MICROSCOPIC</b>				
URINE MICROSCOPIC (BROAD CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (CELLULAR CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (EPITHELIAL CASTS)	M/F	<100 Y	0-1	/LPF
URINE MICROSCOPIC (FAT)	M/F	<100 Y	None present	
URINE MICROSCOPIC (FATTY CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (GRANULAR CASTS)	M/F	<100 Y	0-1	/LPF
URINE MICROSCOPIC (HYALINE CASTS)	M/F	<100 Y	0-5	/LPF
URINE MICROSCOPIC (NON-SQUAMOUS EPI)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (RBC CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (RENAL EPITHELIAL)	M/F	<100 Y	0-1	/HPF
URINE MICROSCOPIC (TRANSITIONAL EPI)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (URINE RBC)	M/F	<100 Y	0-3	/HPF
URINE MICROSCOPIC (URINE WBC)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (WAXY CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (WBC CASTS)	M/F	<100 Y	None present	/LPF

### URINE OPIATES CONFIRM IF POS

OPIATES URINE (Opiates)	M/F	<100 Y	Negative	
-------------------------	-----	--------	----------	--

### URINE OSMOLALITY

URINE OSMOLALITY (u-Osmolality)	M/F	<100 Y	50--1200	mOsmol/kg
---------------------------------	-----	--------	----------	-----------

### URINE OSMOLALITY 24H

URINE OSMOLALITY 24H (u-Osmolality 24h)	M/F	<100 Y	300--900	mOsmol/kg
---	-----	--------	----------	-----------

### URINE OXALATE 24H

URINE OXALATE 24H (Oxalate urine 24h)	F	13-100 Y	40--340	umol/d
URINE OXALATE 24H (Oxalate urine 24h)	M	13-100 Y	80--490	umol/d
URINE OXALATE 24H (Oxalate urine 24h)	M/F	<=12 Y	140--420	umol/d

	Sex	Age	Interval	Unit
<b>URINE PHOSPHORUS 24H</b>				
URINE PHOSPHORUS 24H (Phosphorus ur 24h)	M/F	<100 Y	13--42	mmol/d
<b>URINE POTASSIUM</b>				
URINE POTASSIUM (Potassium urine)	M/F	<100 Y	5--100	mmol/L
<b>URINE POTASSIUM 24H</b>				
URINE POTASSIUM 24H (Potassium ur 24h)	M/F	<100 Y	25--125	mmol/d
<b>URINE PROTEIN</b>				
URINE PROTEIN (Protein urine)	m/f	<100 y	<0.15	g/L
<b>URINE PROTEIN 12H</b>				
12H URINE PROTEIN (Protein urine 12h)	M/F	<100 Y	<0.15	g/L
<b>URINE PROTEIN 24H</b>				
URINE PROTEIN 24H (Protein urine 24h)	M/F	<100 Y	<0.15	g/d
<b>URINE PROTEIN/CREAT RATIO 24H</b>				
URINE PROTEIN/CREAT 24H (Prot/Creat 24h)	M/F	<100 Y	<25.0	g/mol
<b>URINE SODIUM</b>				
URINE SODIUM (Sodium urine)	M/F	<100 Y	20--150	mmol/L
<b>URINE SODIUM 24H</b>				
URINE SODIUM 24H (Sodium urine 24h)	M/F	<100 Y	40--220	mmol/d
<b>URINE UREA 24H</b>				
URINE UREA 24H (Urea urine 24h)	M/F	<100 Y	205--642	mmol/d
<b>URINE URIC ACID 24H</b>				
URINE URIC ACID 24H (Uric Acid ur 24h)	F	<100 Y	1.0--3.8	mmol/d
URINE URIC ACID 24H (Uric Acid ur 24h)	M	<100 Y	1.0--4.8	mmol/d

**Sex Age****Interval****Unit****URINE VMA 24H**

URINE VMA 24h (URINE VMA)	M/F	<100 Y	7--33	umol/d
---------------------------	-----	--------	-------	--------

**VISCOSITY**

VISCOSITY	M/F	<100 Y	1.4--1.8	
-----------	-----	--------	----------	--

**VITAMIN B12**

VITAMIN B12	M/F	<100 Y	150--650	pmol/L
-------------	-----	--------	----------	--------

**WBC**

WBC	M/F	<=7 D	9.0--30.0	giga/L
-----	-----	-------	-----------	--------

WBC	M/F	8-29 D	5.0--20.0	giga/L
-----	-----	--------	-----------	--------

WBC	M/F	30-59 D	5.0--19.5	giga/L
-----	-----	---------	-----------	--------

WBC	M/F	2-5 M	5.5--18.0	giga/L
-----	-----	-------	-----------	--------

WBC	M/F	6-11 M	5.0--15.0	giga/L
-----	-----	--------	-----------	--------

WBC	M/F	1-4 Y	5.0--16.0	giga/L
-----	-----	-------	-----------	--------

WBC	M/F	5-18 Y	3.9--10.2	giga/L
-----	-----	--------	-----------	--------

WBC	M/F	19-100 Y	4.0--10.0	giga/L
-----	-----	----------	-----------	--------

**ZINC**

ZINC (Zinc serum)	M/F	<100 Y	9.2-26.0	umol/L
-------------------	-----	--------	----------	--------