

***LifeLabs Clinical Laboratories***

***Burnaby Reference Laboratory***

***3680 Gilmore Way***

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

***Reference Intervals***

***Tuesday, January 3, 2023***

***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
<b>1,25(OH)2 VITAMIN D</b>				
1,25(OH)2 VITAMIN D (1 25-(OH)2 VIT D)	M/F	<100 Y	60--210	pmol/L

### 11-DEOXYCORTISOL

11-DEOXYCORTISOL	F	>18 Y	<0.95	nmol/L
11-DEOXYCORTISOL	M	>18 Y	<1.45	nmol/L
11-DEOXYCORTISOL	M/F	<1 Y	<5.3	nmol/L
11-DEOXYCORTISOL	M/F	1 Y	0.1--0.88	nmol/L
11-DEOXYCORTISOL	M/F	2-6 Y	0.07--1.07	nmol/L
11-DEOXYCORTISOL	M/F	7-11 Y	0.09--2.27	nmol/L
11-DEOXYCORTISOL	M/F	12-18 Y	<2.28	nmol/L

### 17OH PROGESTERONE

17OH PROGESTERONE (17OH PROG)	F	Follicular	<2.4	nmol/L
17OH PROGESTERONE (17OH PROG)	F	Luteal	<8.6	nmol/L
17OH PROGESTERONE (17OH PROG)	F	Post Menopausal	<1.5	nmol/L
17OH PROGESTERONE (17OH PROG)	M	17-100 Y	<6.0	nmol/L
17OH PROGESTERONE (17OH PROG)	M/F	15 D - 1 Y	<3.4	nmol/L
17OH PROGESTERONE (17OH PROG)	M/F	1-7 Y	<1.0	nmol/L
17OH PROGESTERONE (17OH PROG)	M/F	Prepubertal	<1.0	nmol/L

### 25(OH) VITAMIN D

25(OH) VITAMIN D (25 OH VITAMIN D)	M/F	<100 Y	75.0-250.0	nmol/L
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### 5HIAA 24h URINE

HIAA 24h URINE (5HIAA)	M/F	<100 Y	<45	umol/d
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### ACTH

ACTH	M/F	<100 Y	1.6--13.9	pmol/L
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**Sex Age****Interval****Unit****ACTIVATED PTT**

ACTIVATED PTT	M/F	<100 Y	27--38	s
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**AFP TUMOR MARKER**

AFP TUMOR MARKER (AFP)	M/F	<100 Y	<8.4	ug/L
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**ALBUMIN**

ALBUMIN	M/F	<150 Y	35-50	g/L
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**ALDOSTERONE**

ALDOSTERONE	M/F	<100 Y	90-1000	pmol/L
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**ALKALINE PHOSPHATASE**

ALKALINE PHOSPHATASE (Alkaline Phos)	F	12 - 13 Y	110-440	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	F	14 - 15 Y	50-250	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	F	16 - 17 Y	40-210	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	F	>= 18 Y	35-120	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M	12 - 13 Y	110-460	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M	14 - 15 Y	110-520	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M	16 - 17 Y	50-430	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M	>= 18 Y	40-145	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M/F	<=4 D	120-330	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M/F	6 D - 5 M	130-350	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M/F	7 M - 12 M	130-500	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M/F	1 - 3 Y	160-350	U/L
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ALKALINE PHOSPHATASE (Alkaline Phos)	M/F	4 - 11 Y	110-440	U/L
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**ALPHA 1 ANTITRYPSIN**

ALPHA 1 ANTITRYPSIN (A 1 Antitrypsin)	M/F	<150 Y	0.9-2.18	g/L
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	Sex	Age	Interval	Unit
<b>ALT</b>				
ALT	F	>=1 Y	<36	U/L
ALT	M	>=1 Y	<50	U/L
ALT	M/F	<1 Y	<60	U/L

### ALUMINUM RANDOM URINE

ALUMINUM RANDOM URINE (Aluminum Rand Ur)	M/F	<100 Y	5--30	mcg/L
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### AMPHETAMINE URINE

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

AMYLASE	M/F	<150 Y	0-100	U/L
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### ANDROSTENEDIONE

ANDROSTENEDIONE	F	12-14 Y	0.74--6.01	nmol/L
ANDROSTENEDIONE	F	15-18 Y	0.48--6.45	nmol/L
ANDROSTENEDIONE	F	>18 Y	Pre-menopausal 0.91--7.47	nmol/L
ANDROSTENEDIONE	F	>18 Y	Post-menopausal 0.45--2.86	nmol/L
ANDROSTENEDIONE	M	12-14 Y	0.51--2.01	nmol/L
ANDROSTENEDIONE	M	15-18 Y	0.87--3.55	nmol/L
ANDROSTENEDIONE	M	>18 Y	0.80--3.11	nmol/L
ANDROSTENEDIONE	M/F	< 14 D	<2.54	nmol/L
ANDROSTENEDIONE	M/F	1-5 Y	<0.568	nmol/L
ANDROSTENEDIONE	M/F	14 D - 365D	<5.7	nmol/L
ANDROSTENEDIONE	M/F	6-9 Y	<0.917	nmol/L
ANDROSTENEDIONE	M/F	10-11 Y	<2.54	nmol/L

### ANTI CCP

ANTI CCP (Anti-CCP)	M/F	<100 Y	<3.0	U/mL
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	Sex	Age	Interval	Unit
<b>ANTI ISLET CELL ANTIBODY</b>				
ANTI ISLET CELL ANTIBODY (Islet Cell Ab Scn)	M/F	<100 Y	Negative	
ANTI ISLET CELL ANTIBODY (Reflex Titre)	M/F	<100 Y	<1.25	JDF Units
<b>ANTI TISSUE TRANSGLUTAMINASE</b>				
ANTI TISSUE TRANSGLUTAMINASE (TTG Antibody IgA)	M/F	<100 Y	<12.0	U/mL
<b>ANTI-INSULIN ANTIBODIES</b>				
ANTI-INSULIN ANTIBODIES (Anti-Insulin Ab)	M/F	<100 Y	<0.4	kU/L
<b>ANTI-MULLERIAN HORMONE</b>				
ANTI-MULLERIAN HORMONE (AMH)	F	< 20 Y	AMH increases until puberty when it reaches and may exceed adult levels (8.7 - 83.6 pmol/L)	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	F	20 - 24 Y	8.7--83.6	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	F	25 - 29 Y	6.4--70.3	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	F	30 - 34 Y	4.1--58.0	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	F	35 - 39 Y	1.1--53.5	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	F	40 - 44 Y	0.2--39.1	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	F	45 - 100 Y	<19.4	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	M	<18 Y	AMH decreases until puberty, when it reaches the adult levels (10.2 - 82.8 pmol/L)	pmol/L
ANTI-MULLERIAN HORMONE (AMH)	M	18 - 100 Y	10.2--82.8	pmol/L
<b>ANTITHROMBIN</b>				
ANTITHROMBIN III (ANTITHROMBIN)	M/F	<100 Y	=>0.80	U/mL

	Sex	Age	Interval	Unit
<b>APOLIPO A-1</b>				
APOLIPO A-1 (APO A-1)	F	<150 Y	1.10-2.30	g/L
APOLIPO A-1 (APO A-1)	M	<150 Y	1.00-2.00	g/L
<b>APOLIPO B-100</b>				
APOLIPOPROTEIN B-100 (APO B-100)	M/F	<20 Y	0.53-0.90	g/L
APOLIPOPROTEIN B-100 (APO B-100)	M/F	>=20 Y	0.59-1.25	g/L
<b>ARSENIC</b>				
ARSENIC (Arsenic blood)	M/F	<100 Y	<930	nmol/L
<b>AST</b>				
AST	M/F	<1 Y	<72	U/L
AST	M/F	>= 1 Y	<36	U/L
<b>BENZODIAZEPINE URINE</b>				
BENZODIAZEPINE URINE (Benzodiazepines)	M/F	<100 Y	Negative	
<b>BETA-2 GLYCOPROTEIN 1 ANTIBODIES IMMUNOGLOBULI</b>				
BETA 2 GLYCOPROTEIN 1 IGG IGM (B2GP IgG)	M/F	<100 Y	<20.0	U/mL
BETA 2 GLYCOPROTEIN 1 IGG IGM (B2GP IgM)	M/F	<100 Y	<20.0	U/mL
<b>B-Hydroxybutyrate</b>				
B-Hydroxybutyrate	M/F	<150 Y	<0.3	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

	Sex	Age	Interval	Unit
<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	>=15 D	<17	umol/L

### BIOAVAILABLE TESTOSTERONE

BIOAVAILABLE TESTOSTERONE (BIOAVAILABLE T)	F	<13 Y	<0.7 Reference intervals are for adults.	nmol/L
BIOAVAILABLE TESTOSTERONE (BIOAVAILABLE T)	F	13-100 Y	<0.7	nmol/L
BIOAVAILABLE TESTOSTERONE (BIOAVAILABLE T)	M	<13 Y	2.7--13.5 Reference intervals are for adults.	nmol/L
BIOAVAILABLE TESTOSTERONE (BIOAVAILABLE T)	M	13-100 Y	2.7--13.5	nmol/L
BIOAVAILABLE TESTOSTERONE (FREE T calculated)	F	<100 Y	<30	pmol/L
BIOAVAILABLE TESTOSTERONE (FREE T calculated)	M	<100 Y	115--577 Reference intervals are for adults.	pmol/L

### BLOOD CADMIUM

BLOOD CADMIUM (Cadmium blood)	M/F	<100 Y	<44	nmol/L
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### BLOOD MERCURY

BLOOD MERCURY (Mercury blood)	M/F	<100 Y	<29	nmol/L
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### BNP

BNP	M/F	<150 Y	<100	ng/L
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### BREATH HYDROGEN

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

	Sex	Age	Interval	Unit
<b>C REACTIVE PROTEIN</b>				
C REACTIVE PROTEIN	M/F	<100 Y	<5.0	mg/L

### C TELOPEPTIDE RANDOM

CTX	F	>=18 Y	Premenopausal: <0.573 Postmenopausal: 0.104 - 1.008	ng/mL
CTX	M	18 - 49 Y	<0.584	ng/mL
CTX	M	50 - 69 Y	<0.704	ng/mL
CTX	M	>=70 Y	<0.854	ng/mL
CTX	M/F	<17 Y	No reference interval defined for this age group.	ng/mL

### C&S URINE IF IND

URINE MACROSCOPIC (Glucose)	M/F	<100 Y	Negative	mmol/L
URINE MACROSCOPIC (Hemoglobin)	M/F	<100 Y	Negative	RBC/uL
URINE MACROSCOPIC (Ketones)	M/F	<100 Y	Negative	mmol/L
URINE MACROSCOPIC (Leukocytes)	M/F	<100 Y	Negative	WBC/uL
URINE MACROSCOPIC (Nitrite)	M/F	<100 Y	Negative	
URINE MACROSCOPIC (PH)	M/F	<100 Y	5.0-8.0	
URINE MACROSCOPIC (Protein)	M/F	<100 Y	Negative	g/L

### CA 125

CA 125	M/F	<100 Y	<36	kU/L
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### CA 15-3

CA 15-3	M/F	<100 Y	<23	kU/L
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### CA 19-9

CA 19-9	M/F	<100 Y	<27	kU/L
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	Sex	Age	Interval	Unit
<b>CALCIUM</b>				
CALCIUM	M/F	<100 Y	2.10-2.60	mmol/L
<b>CALCIUM IONIZED</b>				
IONIZED CALCIUM	M/F	<100 Y	1.15--1.40	mmol/L
<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	<20.0	U/mL
CARDIOLIPIN AB (IGM CARDIOLIPIN AB)	M/F	<100 Y	<20.0	U/mL
<b>CAROTENE</b>				
CAROTENE	M/F	<100Y	1.0--4.0	umol/L
<b>CEA PP</b>				
CEA PP (CEA ROCHE)	M/F	<150 Y	<4.7	ug/L
<b>CERULOPLASMIN</b>				
CERULOPLASMIN	F	<100 Y	0.20-0.45	g/L
CERULOPLASMIN	M	<100 Y	0.19-0.31	g/L
<b>CHLORIDE</b>				
CHLORIDE	M/F	<100 Y	102-113	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

	Sex	Age	Interval	Unit
<b>CHOLINESTERASE PLASMA</b>				
CHOLINESTERASE PLASMA	M/F	<100 Y	2600-6900	U/L
<b>CHOLINESTERASE RBC</b>				
CHOLINESTERASE RBC	M/F	<100 Y	5300-10000	U/L
<b>CHROMIUM</b>				
CHROMIUM	M/F	<100 Y	<=1.2	mcg/L
<b>CHROMIUM RANDOM URINE</b>				
CHROMIUM RANDOM URINE (Chromium Rand Ur)	M/F	<100 Y	<1.0	mcg/L
CHROMIUM RANDOM URINE (Chromium/Creat)	M/F	<100 Y	<1	mcg/g crea
<b>CLOZAPINE</b>				
CLOZAPINE	M/F	<100 Y	300--2100	nmol/L
<b>COBALT RANDOM URINE</b>				
COBALT RANDOM URINE (Cobalt Rand Ur)	M/F	<100 Y	<2.0	mcg/L
<b>COCAINE URINE</b>				
COCAINE URINE (Cocaine)	M/F	<100 Y	Negative	
<b>COMPLEMENT C3</b>				
COMPLEMENT C3	M/F	<150 Y	1.00-1.90	g/L
<b>COMPLEMENT C4</b>				
COMPLEMENT C4	M/F	<150 Y	0.09-0.50	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

	Sex	Age	Interval	Unit
<b>CORTISOL</b>				
CORTISOL (CORTISOL RANDOM)	M/F	<100 Y	80-535	nmol/L
<b>CORTISOL AM</b>				
CORTISOL AM (CORTISOL A.M.)	M/F	<100 Y	140-535	nmol/L
<b>CORTISOL AM FOLLOWING DEX</b>				
DEXAM (Cortisol a.m.)	M/F	<100 Y	<130 The reference interval is for low dose dexamethasone (1mg).	nmol/L
<b>CORTISOL PM</b>				
CORTISOL PM (CORTISOL P.M.)	M/F	<100 Y	80-477	nmol/L
<b>CREATINE KINASE</b>				
CREATINE KINASE (CK)	F	1 - 150 Y	<140	U/L
CREATINE KINASE (CK)	M	1 - 150 Y	<165	U/L
CREATINE KINASE (CK)	M/F	<=21 D	<990	U/L
CREATINE KINASE (CK)	M/F	22 - 365 D	<330	U/L
<b>CREATININE</b>				
CREATININE	F	>=14 Y	45-90	umol/L
CREATININE	M	>=14 Y	45-110	umol/L
CREATININE	M/F	<=30 D	10-90	umol/L
CREATININE	M/F	1 M - 3 Y	10-50	umol/L
CREATININE	M/F	4 - 9 Y	10-60	umol/L
CREATININE	M/F	10 - 13 Y	40-90	umol/L

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

### CYANIDE BLOOD

CYANIDE BLOOD	M/F	<100 Y	<=0.05	mcg/mL
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### CYCLOSPORINE PEAK

CYCLOSPORINE PEAK (CYCLOSPORINE)	M/F	<100 Y	400--1400	ug/L
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### CYCLOSPORINE TROUGH

CYCLOSPORINE TROUGH (CYCLOSPORINE)	M/F	<100 Y	75--350	ug/L
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### D-DIMER

D-DIMER	M/F	<100 Y	<500	ug/L FEU
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	Sex	Age	Interval	Unit
<b>DHT</b>				
DHT	F	Cord Blood	<= 0.17	nmol/L
DHT	F	<= 6 M	<= 4.13	nmol/L
DHT	F	Tanner Stage I >6 M and prepubertal	<= 0.17	nmol/L
DHT	F	Tanner Stage II-V	<= 1.02	nmol/L
DHT	F	20-55 Y	<=1.03	nmol/L
DHT	F	>55 Y	<= 0.44	nmol/L
DHT	M	Cord blood	<= 0.34	nmol/L
DHT	M	<6 M	<= 4.13	nmol/L
DHT	M	Tanner Stage I >6 M and prepubertal	<= 0.17	nmol/L
DHT	M	Tanner Stage II	<= 0.69	nmol/L
DHT	M	Tanner Stage III	0.28 - 1.14	nmol/L
DHT	M	Tanner Stage IV	0.76 - 1.79	nmol/L
DHT	M	Tanner Stage V	0.83 - 2.24	nmol/L
DHT	M	>19 Y	0.39 - 3.20	nmol/L

### DIGOXIN

DIGOXIN	M/F	<100 Y	0.6--2.6 Therapeutic	nmol/L
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### DILUTE RUSSELL VIPER VENOM

DRVVT Screen	M/F	<100 Y	<1.4 LA Not Present	
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### DIRECT ANTIGLOBULIN TEST

DIRECT ANTIGLOBULIN TEST (C3D SPECIFIC)	---	---	No Range	
DIRECT ANTIGLOBULIN TEST (IGG SPECIFIC)	---	---	No Range	

### DNA AB

DNA AB (ANTI DNA)	M/F	<100 Y	<=4	IU/mL
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**Sex Age****Interval****Unit****ENA**

ENA BREAKDOWN (Jo-1)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (RNP)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (Scl-70)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (Sm)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (SS-A)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (SS-B)	M/F	<100 Y	<1.0	AI

**ESR**

ESR (EST)	M/F	<100 Y	2--30	mm/hr
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**ESTRADIOL**

ESTRADIOL	F	<1 Y	<93	pmol/L
ESTRADIOL	F	1 - 8 Y	<40	pmol/L
ESTRADIOL	F	9 - 10 Y	<177	pmol/L
ESTRADIOL	F	11 Y	<346	pmol/L
ESTRADIOL	F	12 - 13 Y	<632	pmol/L
ESTRADIOL	F	14 - 18 Y	<937	pmol/L
ESTRADIOL	F	Follicular >18 Y	77 - 921	pmol/L
ESTRADIOL	F	Mid-Cycle >18 Y	139 - 2382	pmol/L
ESTRADIOL	F	Luteal >18 Y	77 - 1145	pmol/L
ESTRADIOL	F	Postmenopausal >18 Y	<103	pmol/L
ESTRADIOL	M	<1 Y	<93	pmol/L
ESTRADIOL	M	1 - 10 Y	<47	pmol/L
ESTRADIOL	M	11 - 12 Y	<96	pmol/L
ESTRADIOL	M	13 - 14 Y	<103	pmol/L
ESTRADIOL	M	15 - 18 Y	<142	pmol/L
ESTRADIOL	M	>18 Y	<162	pmol/L

**Sex Age****Interval****Unit****FERRITIN**

FERRITIN	F	<6 M	31-1454	ug/L
FERRITIN	F	6 M - 1 Y	19-401	ug/L
FERRITIN	F	2 - 5 Y	12-224	ug/L
FERRITIN	F	6 - 14 Y	31-177	ug/L
FERRITIN	F	15 - 18 Y	15-152	ug/L
FERRITIN	F	>18 Y	15-247	ug/L
FERRITIN	M	<6 M	31-1454	ug/L
FERRITIN	M	6 M - 1 Y	19-401	ug/L
FERRITIN	M	2 - 5 Y	12-224	ug/L
FERRITIN	M	6 - 14 Y	31-177	ug/L
FERRITIN	M	15 - 18 Y	28-186	ug/L
FERRITIN	M	>18 Y	24-444	ug/L

**FIBRINOGEN**

FIBRINOGEN	M/F	<100 Y	2.00--4.10	g/L
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**FLUORIDE RANDOM URINE**

FLUORIDE RANDOM URINE (Creatinine urine)	F	>12 Y	20-275	mg/dL
FLUORIDE RANDOM URINE (Creatinine urine)	M	>12 Y	20-320	mg/dL
FLUORIDE RANDOM URINE (Creatinine urine)	M/F	<=6 M	2-28	mg/dL
FLUORIDE RANDOM URINE (Creatinine urine)	M/F	7-11 M	2-31	mg/dL
FLUORIDE RANDOM URINE (Creatinine urine)	M/F	1-2 Y	2-110	mg/dL
FLUORIDE RANDOM URINE (Creatinine urine)	M/F	3-8 Y	2-130	mg/dL
FLUORIDE RANDOM URINE (Creatinine urine)	M/F	9-12 Y	2-160	mg/dL
FLUORIDE RANDOM URINE	M/F	<100 Y	0.20-3.20	mg/L

	Sex	Age	Interval	Unit
<b>FREE T4</b>				
FREE T4 (T4 Free)	F	<12 M	11.0-20.6	pmol/L
FREE T4 (T4 Free)	F	1 - 5 Y	11.7-18.6	pmol/L
FREE T4 (T4 Free)	F	6 - 10 Y	10.9-19.0	pmol/L
FREE T4 (T4 Free)	F	11 - 14 Y	10.0-16.9	pmol/L
FREE T4 (T4 Free)	F	15 - 20 Y	10.2 - 17.3	pmol/L
FREE T4 (T4 Free)	F	15 - 20 Y	Gestational reference intervals: 1st Trimester 10.6-19.7 pmol/L 2nd Trimester 8.7-16.2 pmol/L 3rd Trimester 7.8-14.6 pmol/L	pmol/L
FREE T4 (T4 Free)	F	20 - 50 Y	10.6 - 19.7	pmol/L
FREE T4 (T4 Free)	F	20 - 50 Y	Gestational reference intervals: 1st Trimester 10.6-19.7 pmol/L 2nd Trimester 8.7-16.2 pmol/L 3rd Trimester 7.8-14.6 pmol/L	pmol/L
FREE T4 (T4 Free)	M	<12 M	11.9-23.6	pmol/L
FREE T4 (T4 Free)	M	1 - 5 Y	11.0-20.8	pmol/L
FREE T4 (T4 Free)	M	6 - 10 Y	10.9 - 19.0	pmol/L
FREE T4 (T4 Free)	M	11 - 14 Y	10.0 - 16.9	pmol/L
FREE T4 (T4 Free)	M	15 - 20 Y	10.2-17.3	pmol/L
FREE T4 (T4 Free)	M	20 - 50 Y	10.6 - 19.7	pmol/L
FREE T4 (T4 Free)	M/F	>50 Y	10.6-19.7	pmol/L



	Sex	Age	Interval	Unit
<b>FSH</b>				
FSH	F	<12 M	1.8-20.3	U/L
FSH	F	1 - 5 Y	0.6-6.1	U/L
FSH	F	6 - 10 Y	<4.6	U/L
FSH	F	11 - 14 Y	0.2-8.0	U/L
FSH	F	Follicular/Luteal >= 15Y	<8.7	U/L
FSH	F	Mid-cycle >=15 Y	4.2-19.0	U/L
FSH	F	Post menopausal >=15 Y	16-110.0	U/L
FSH	M	<12 M	<3.5	U/L
FSH	M	1 - 5 Y	<1.5	U/L
FSH	M	6 - 10 Y	<3.0	U/L
FSH	M	11 - 14 Y	0.4-6.3	U/L
FSH	M	15 - 20 Y	0.5-10.0	U/L
FSH	M	>20 Y	<9.5	U/L

### GAD-65 ANTIBODIES

GAD-65 ANTIBODIES (GAD-65 Antibody)	M/F	<100 Y	<5	IU/mL
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### GALECTIN-3

GALECTIN-3	M/F	<100 Y	<17.9	ng/mL
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### GAMMA GT

GAMMA GT (GGT)	F	<100 Y	<44	U/L
GAMMA GT (GGT)	M	<100 Y	<65	U/L

### GLUCOSE

GLUCOSE (Glucose random)	M/F	<100 Y	3.3-11.0	mmol/L
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### GLUCOSE FASTING

GLUCOSE FASTING	M/F	<100 Y	3.3-5.5	mmol/L
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**Sex Age****Interval****Unit****GLUCOSE-6-PD**

GLUCOSE-6-PD (G6PD)	M/F	<100 Y	6.8-15.0	U/g Hb
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**GROWTH HORMONE**

GROWTH HORMONE	F	<100 Y	<8.0	ug/L
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GROWTH HORMONE	M	<100 Y	<3.0	ug/L
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**HAPTOGLOBIN**

HAPTOGLOBIN	M/F	<100 Y	0.30-2.00	g/L
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**HCG**

HCG (hCG-Beta)	F	Non pregnant	<3	U/L
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HCG (hCG-Beta)	F	3rd Week	6-71	U/L
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HCG (hCG-Beta)	F	4th Week	10-750	U/L
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HCG (hCG-Beta)	F	5th Week	217-7138	U/L
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HCG (hCG-Beta)	F	6th Week	158-31795	U/L
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HCG (hCG-Beta)	F	7th Week	3697-163563	U/L
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HCG (hCG-Beta)	F	8-9th Week	32065-151410	U/L
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HCG (hCG-Beta)	F	10th Week	46509-186977	U/L
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HCG (hCG-Beta)	F	12th Week	27832-210612	U/L
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HCG (hCG-Beta)	F	14th Week	13950-62530	U/L
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HCG (hCG-Beta)	F	15th Week	12039-70971	U/L
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HCG (hCG-Beta)	F	16th Week	9040-56451	U/L
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HCG (hCG-Beta)	F	17-18th Week	8175-58176	U/L
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HCG (hCG-Beta)	M	<150 Y	<3	U/L
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**HDL CHOLESTEROL**

HDL CHOLESTEROL (HDL-Cholesterol)	F	>= 18 Y	>1.19	mmol/L
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HDL CHOLESTEROL (HDL-Cholesterol)	M	>= 18 Y	>0.99	mmol/L
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HDL CHOLESTEROL (HDL-Cholesterol)	M/F	3 - 17 Y	>1.09	mmol/L
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	Sex	Age	Interval	Unit
<b>HEMATOLOGY PANEL</b>				
HEMATOLOGY PANEL (HEMATOCRIT)	F	12-15 Y	0.35--0.44	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	F	16-18 Y	0.35--0.44	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	F	=>19 Y	0.35 - 0.45	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M	12-15 Y	0.37--0.47	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M	16-18 Y	0.38--0.49	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M	=>19 Y	0.40 - 0.50	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	1 - 6 D	0.45--0.67	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	7 - 13 D	0.42 - 0.66	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	14 - 29 D	0.39 - 0.63	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	1 M	0.31 - 0.55	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	2 M	0.28 - 0.42	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	3 - 5 M	0.29 - 0.41	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	6 M - 1 Y	0.31 - 0.39	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	2 - 5 Y	0.33 - 0.39	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	6-11 Y	0.35--0.43	L/L
HEMATOLOGY PANEL (HEMOGLOBIN)	F	12 - 15 Y	117--149	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	F	16 - 18 Y	117--149	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	F	=>19 Y	115 - 155	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 Y	135 - 170	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	1 - 6 D	145--225	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	7 - 13 D	135 - 215	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	14 - 29 D	125 - 205	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	1 M	100 - 180	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	2 M	90 - 140	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	3 - 5 M	95 - 135	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	6 M - 1 Y	103 - 135	g/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	2 - 5 Y	105 - 135	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	6 - 11 Y	118 - 146	g/L
HEMATOLOGY PANEL (MCH)	M/F	1 - 6 D	31.0 - 37.0	pg
HEMATOLOGY PANEL (MCH)	M/F	7 D - 2 M	28.0 - 40.0	pg
HEMATOLOGY PANEL (MCH)	M/F	3 M	26.0 - 34.0	pg
HEMATOLOGY PANEL (MCH)	M/F	4 - 5 M	25.0 - 35.0	pg
HEMATOLOGY PANEL (MCH)	M/F	6 M - 1 Y	24.0 - 31.0	pg
HEMATOLOGY PANEL (MCH)	M/F	2 - 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 Y	27.5 - 33.5	pg
HEMATOLOGY PANEL (MCHC)	M/F	1 - 29 D	300--366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	1 M	280 - 360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	2 - 5 M	290 - 370	g/L
HEMATOLOGY PANEL (MCHC)	M/F	6 M - 1 Y	290 - 360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	2 - 5 Y	310 - 360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	6 - 18 Y	305 - 365	g/L
HEMATOLOGY PANEL (MCHC)	M/F	=>19 Y	300 - 370	g/L
HEMATOLOGY PANEL (MCV)	M/F	1 - 6 D	95--121	fl
HEMATOLOGY PANEL (MCV)	M/F	7 - 13 D	88--126	fl
HEMATOLOGY PANEL (MCV)	M/F	14 - 29 D	86--124	fl
HEMATOLOGY PANEL (MCV)	M/F	1 M	85 - 123	fl
HEMATOLOGY PANEL (MCV)	M/F	2 M	77 - 115	fl
HEMATOLOGY PANEL (MCV)	M/F	3 - 5 M	74 - 108	fl
HEMATOLOGY PANEL (MCV)	M/F	6 M - 1 Y	70 - 86	fl
HEMATOLOGY PANEL (MCV)	M/F	2 - 5 Y	75 - 87	fl
HEMATOLOGY PANEL (MCV)	M/F	6 - 15 Y	77--92	fl
HEMATOLOGY PANEL (MCV)	M/F	16-18 Y	80--95	fl
HEMATOLOGY PANEL (MCV)	M/F	=>19 Y	82--98	fl

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	1 D - 1 M	170 - 500	10*9/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	2 M - 5 M	210 - 650	10*9/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	6 M - 1 Y	200 - 550	10*9/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	2 - 5 Y	200 - 490	10*9/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	6 - 15 Y	180 - 440	10*9/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	16 - 18 Y	165 - 397	10*9/L
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	=> 19 Y	150 - 400	10*9/L
HEMATOLOGY PANEL (RBC)	F	12 - 15 Y	4.05 - 4.98	10*12/L
HEMATOLOGY PANEL (RBC)	F	16 - 18 Y	4.00 - 4.87	10*12/L
HEMATOLOGY PANEL (RBC)	F	=>19 Y	3.50 - 5.00	10*12/L
HEMATOLOGY PANEL (RBC)	M	12 - 15 Y	4.43 - 5.53	10*12/L
HEMATOLOGY PANEL (RBC)	M	16 - 18 Y	4.41--5.71	10*12/L
HEMATOLOGY PANEL (RBC)	M	=>19 Y	4.20--5.40	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	1 - 6 D	4.00--6.60	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	7 - 13 D	3.90--6.30	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	14 - 29 D	3.60 - 6.20	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	1 M	3.00 - 5.40	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	2 M	2.70 - 4.90	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	3 - 5 M	3.10 - 4.50	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	6 M - 1 Y	3.70 - 5.30	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	2 - 5 Y	3.90 - 5.30	10*12/L
HEMATOLOGY PANEL (RBC)	M/F	6 - 11 Y	4.05 - 5.15	10*12/L
HEMATOLOGY PANEL (RDW)	M/F	1 D - 5 M	No established Reference Interval available. Adult range is 11.5 - 14.5 %.	%
HEMATOLOGY PANEL (RDW)	M/F	6 M - 5 Y	11.7 - 15.7	%
HEMATOLOGY PANEL (RDW)	M/F	6 - 15 Y	11.6 - 14.8	%
HEMATOLOGY PANEL (RDW)	M/F	16 - 18 Y	11.2 - 14.8	%

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (RDW)	M/F	=> 19 Y	11.5 - 14.5	%
HEMATOLOGY PANEL (WBC)	M/F	1 - 6 D	9.4 - 34.0	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	7 - 13 D	5.0 - 21.0	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	14 - 29 D	5.0 - 20.0	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	1 - 2 M	5.0 - 19.5	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	3 - 5 M	5.0 - 17.5	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	6 M - 5 Y	5.3 - 16.0	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	6 - 18 Y	3.9 - 10.2	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	=>19 Y	4.0--10.0	10*9/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
WBC DIFFERENTIAL (BASOPHILS)	M/F	1 - 6 D	0.0 - 0.6	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	7 D - 5 Y	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	6 - 18 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	=> 19 Y	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	1 - 13 D	0.2 - 0.6	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	14 D - 5 M	0.2 - 0.8	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	6 M - 5 Y	0.0 - 0.5	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	6 - 16 Y	0.0 - 0.7	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	16 - 18 Y	0.0 - 0.5	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	=> 19 Y	0.0 - 0.7	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	1 - 29 D	No established Reference Interval available. Adult range is 0.0-0.1 10*9/L."	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	=> 1 M	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	1 - 6 D	2.0 - 11.5	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	7 - 29 D	2.0--17.0	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	1 - 5 M	2.5 - 16.5	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	6 M - 1Y	4.0 - 13.5	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	2 - 5 Y	2.0 - 8.0	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	6 - 11 Y	1.5 - 4.2	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	12 - 18 Y	1.0 - 3.6	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	=> 19 Y	1.0 - 4.0	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	1 D - 5 M	0.5 - 1.8	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	6 M - 5 Y	0.0 - 0.9	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	6 - 18 Y	0.1 - 0.7	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	=> 19 Y	0.1 - 0.8	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	1 - 6 D	5.0 - 21.0	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	7 - 13 D	1.5--10.0	10*9/L

	Sex	Age	Interval	Unit
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	14 - 29 D	1.0 - 9.5	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	1 - 5 M	1.0 - 9.0	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	6 M - 1 Y	1.0 - 8.5	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	2 - 5 Y	1.5 - 8.5	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	6 - 11 Y	1.5 - 8.0	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	12 - 15 Y	1.5 - 7.4	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	16 - 18 Y	1.8 - 6.8	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	=> 19 Y	2.0 - 7.5	10*9/L

### HEMOGLOBIN A1C

HEMOGLOBIN A1C	M/F	<100 Y	4.5--6.0	% (percent)
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### HEPARIN ADSORPTION INR

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

HEPARIN ADSORPTION PTT (Hep Adsorb PTT)	M/F	<100 Y	27--38	
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### HEPATITIS B SURFACE AB

HEPATITIS B SURFACE AB (HEP B SURFACE AB)	M/F	<100 Y	An HBsAb level of at least 10 IU/L is consistent with immunity to HBV if HBsAg is non-reactive. Patients with lower levels are also considered immune if they previously had a protective HBsAb level.	
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**Sex Age****Interval****Unit****HGB INVESTIGATION**

HGB ELECTROPHORESIS (Hemoglobin A2)	M/F	<100 Y	< 2.2 Decreased	%
HGB ELECTROPHORESIS (Hemoglobin A2)	M/F	<100 Y	2.2 - 3.2 Normal	%
HGB ELECTROPHORESIS (Hemoglobin A2)	M/F	<100 Y	3.3 - 3.7 Borderline Elevated	%
HGB ELECTROPHORESIS (Hemoglobin A2)	M/F	<100 Y	>3.7 Elevated	%
HGB ELECTROPHORESIS (Hemoglobin F)	M/F	<1 Y	No reference range available.	%
HGB ELECTROPHORESIS (Hemoglobin F)	M/F	=> 1 Y	0.0 - 0.9	%

**HIPPURIC ACID URINE**

HIPPURIC ACID URINE (Creatinine urine)	F	<100 Y	273-2170	mg/L
HIPPURIC ACID URINE (Creatinine urine)	M	<100 Y	495-2540	mg/L
HIPPURIC ACID URINE (Hippuric Acid)	M/F	<100 Y	Normal for unexposed populations is generally less than 1.6 g/L	g/L
HIPPURIC ACID URINE (Hippuric Acid/Creatinine)	M/F	<100 Y	Normal for unexposed populations is generally less than 1.5 g/g creatinine	g/g Creat
HIPPURIC ACID URINE (Specific Gravity)	M/F	<100 Y	Physiologic Range: 1.010- 1.030	

**HLA-B27**

HLA-B27	---	---	No Range	
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**HOMOCYSTEINE**

HOMOCYSTEINE	M/F	<100 Y	5.1 - 15.4	umol/L
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	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<b>IgA</b>	M/F	<1 Y	<0.84	g/L
IgA	M/F	1 - 3 Y	0.20-1.00	g/L
IgA	M/F	4 - 6 Y	0.27-1.95	g/L
IgA	M/F	7 - 9 Y	0.34-3.05	g/L
IgA	M/F	10 - 11 Y	0.53-2.04	g/L
IgA	M/F	12 - 13 Y	0.58-3.58	g/L
IgA	M/F	14 - 15 Y	0.47-2.49	g/L
IgA	M/F	16 - 19 Y	0.61-3.48	g/L
IgA	M/F	>19 Y	0.7-4.0	g/L

<b>IgG</b>	M/F	<1 Y	2.32-14.11	g/L
IgG	M/F	1 - 3 Y	4.53-9.16	g/L
IgG	M/F	4 - 6 Y	5.04-14.65	g/L
IgG	M/F	7 - 9 Y	5.74-14.74	g/L
IgG	M/F	10 - 11 Y	7.00-15.60	g/L
IgG	M/F	12 - 13 Y	7.60-15.50	g/L
IgG	M/F	14 - 15 Y	7.20-17.11	g/L
IgG	M/F	16 - 19 Y	5.49-15.84	g/L
IgG	M/F	>19 Y	7.00-16.00	g/L

	Sex	Age	Interval	Unit
<b>IgM</b>	M/F	<1 Y	<1.46	g/L
IgM	M/F	1 - 3 Y	0.19-1.46	g/L
IgM	M/F	4 - 6 Y	0.24-2.10	g/L
IgM	M/F	7 - 9 Y	0.31-2.08	g/L
IgM	M/F	10 - 11 Y	0.31-1.79	g/L
IgM	M/F	12 - 13 Y	0.35-2.39	g/L
IgM	M/F	14 - 15 Y	0.15-1.88	g/L
IgM	M/F	16 - 19 Y	0.23-2.59	g/L
IgM	M/F	>19 Y	0.40-2.30	g/L

### IMMUNO FAECAL OCCULT BLOOD

IMMUNO FAECAL OCCULT BLOOD (Immunochem. OB)	---	---	No Range	
IMMUNO FAECAL OCCULT BLOOD (Immunochem. OB)	---	---	No Range	

### INSULIN FASTING

INSULIN FASTING	M/F	<100 Y	20--180	pmol/L
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### INSULIN TOLERANCE TEST

INSULIN TOLERANCE FASTING (INSULIN FASTING)	M/F	<100 Y	20--180	pmol/L
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### IRON PROFILE

IRON	M/F	<150 Y	10.6-33.8	umol/L
TRANSFERRIN	F	>= 19 Y	2.00--4.00	g/L
TRANSFERRIN	M	>=19 Y	2.00--3.30	g/L
TRANSFERRIN	M/F	0 - 2 M	1.11--2.43	g/L
TRANSFERRIN	M/F	3 - <1 Y	1.15--3.52	g/L
TRANSFERRIN	M/F	1 - <19 Y	2.38--3.66	g/L

	Sex	Age	Interval	Unit
<b>JOINT FLUID DIFF</b>				
JOINT FLUID DIFF (Basophils)	M/F	<100 Y	0	10*6/L
JOINT FLUID DIFF (Eosinophils)	M/F	<100 Y	0	10*6/L
JOINT FLUID DIFF (FLUID WBC'S)	M/F	<100 Y	1-150	10*6/L
JOINT FLUID DIFF (Lymphocytes)	M/F	<100 Y	0-117	10*6/L
JOINT FLUID DIFF (Mononuclear)	M/F	<100 Y	0-98	10*6/L
JOINT FLUID DIFF (Neutrophils)	M/F	<100 Y	0-38	10*6/L

**JOINT FLUID GLUCOSE**

JOINT FLUID GLUCOSE (Glucose Joint Fld)	M/F	<100 Y	The reference range and other method performance specifications have not been established for this fluid test(s). The test result should be integrated into the clinical context for interpretation.	mmol/L
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**JOINT FLUID LDH**

JOINT FLUID LDH (LDH Joint Fluid)	M/F	<100 y	The reference range and other method performance specifications have not been established for this fluid test(s). The test result should be integrated into the clinical context for interpretation.	U/L
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	Sex	Age	Interval	Unit
<b>JOINT FLUID PROTEIN</b>				
JOINT FLUID PROTEIN (Protein Joint Fld)	M/F	<100 Y	The reference range and other method performance specifications have not been established for this fluid test(s). The test result should be integrated into the clinical context for interpretation.	g/L

<b>JOINT FLUID RA</b>				
JOINT FLUID RA (RF Joint Fluid)	M/F	<100 Y	The reference range and other method performance specifications have not been established for this fluid test(s). The test result should be integrated into the clinical context for interpretation.	kU/L

<b>JOINT FLUID URIC ACID</b>				
JOINT FLUID URIC ACID (Uric Acid Joint Fld)	M/F	<100 Y	The reference range and other method performance specifications have not been established for this fluid test(s). The test result should be integrated into the clinical context for interpretation.	umol/L

	Sex	Age	Interval	Unit
<b>LD</b>				
LD	M/F	<=30 D	225-600	U/L
LD	M/F	31 - 365 D	170-450	U/L
LD	M/F	1 - 6 Y	155-350	U/L
LD	M/F	7 - 15 Y	120-300	U/L

### LDH ISOENZYMES

LD ISOENZYMES (LD Total)	M/F	<1 Y	155-350 Reference interval not established for this age. Interval provided is that for 1-6 years old.	U/L
LD ISOENZYMES (LD Total)	M/F	1-6 Y	155-130	U/L
LD ISOENZYMES (LD Total)	M/F	6-15 Y	120-300	U/L
LD ISOENZYMES (LD Total)	M/F	>15 Y	110-230	U/L
LD ISOENZYMES (LD1)	M/F	<100 Y	0.16-0.32	
LD ISOENZYMES (LD2)	M/F	<100 Y	0.23-0.39	
LD ISOENZYMES (LD3)	M/F	<100 Y	0.21-0.29	
LD ISOENZYMES (LD4)	M/F	<100 Y	0.06-0.12	
LD ISOENZYMES (LD5)	M/F	<100 Y	0.03-0.17	
LD ISOENZYMES (Ratio LD1/LD2)	M/F	<100 Y	<1.0	

### LEAD BLOOD

LEAD BLOOD	M/F	<100 Y	No Range	umol/L
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### LIPASE

LIPASE	M/F	<100 Y	<75	U/L
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**Sex Age****Interval****Unit****LIPID PROFILE FULL**

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

HDL CHOLESTEROL (HDL-Cholesterol)	F	>=18 Y	>1.19	mmol/L
HDL CHOLESTEROL (HDL-Cholesterol)	M	>=18 Y	>0.99	mmol/L
HDL CHOLESTEROL (HDL-Cholesterol)	M/F	3 - 17 Y	>1.09	mmol/L

LDL CHOLESTEROL	M/F	<=2 Y	No Range	mmol/L
LDL CHOLESTEROL	M/F	3 - 17 Y	1.60-2.80	mmol/L
LDL CHOLESTEROL	M/F	18 - 29 Y	1.50-3.00	mmol/L
LDL CHOLESTEROL	M/F	>=30 Y	1.50-3.40	mmol/L

TRIGLYCERIDE	M/F	<2 Y	No Range	mmol/L
TRIGLYCERIDE	M/F	2 - 17 Y	<1.21	mmol/L
TRIGLYCERIDE	M/F	>17 Y	<2.21	mmol/L

**LIPID PROFILE PARTIAL**

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

HDL CHOLESTEROL (HDL-Cholesterol)	F	>=18 Y	>1.19	mmol/L
HDL CHOLESTEROL (HDL-Cholesterol)	M	>=18 Y	>0.99	mmol/L
HDL CHOLESTEROL (HDL-Cholesterol)	M/F	3 - 17 Y	>1.09	mmol/L

**LIPOPROTEIN (a)**

LIPOPROTEIN (a) (Lp (a))	M/F	<100 Y	<100	nmol/L
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	Sex	Age	Interval	Unit
<b>LITHIUM</b>				
LITHIUM	M/F	<=59 Y	0.6-1.2	mmol/L
LITHIUM	M/F	60 - 79 Y	0.4-0.8	mmol/L
LITHIUM	M/F	=>80 Y	0.4-0.7	mmol/L

### LUPUS ANTICOAGULANT

APTT Screen	M/F	<100 Y	<1.4 LA Not Present	
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### LUTEINIZING HORM

LUTEINIZING HORM (LH)	F	<12 M	<3.3	U/L
LUTEINIZING HORM (LH)	F	1 - 5 Y	<0.3	U/L
LUTEINIZING HORM (LH)	F	6 - 10 Y	<0.5	U/L
LUTEINIZING HORM (LH)	F	11 - 14 Y	<15.3	U/L
LUTEINIZING HORM (LH)	F	Follicular/Luteal >=15 Y	2.4-6.6	U/L
LUTEINIZING HORM (LH)	F	Mid-cycle >=15 Y	9.1-74.2	U/L
LUTEINIZING HORM (LH)	F	Post Menopausal >=15 Y	11.3-58.0	U/L
LUTEINIZING HORM (LH)	M	<12 M	<6.3	U/L
LUTEINIZING HORM (LH)	M	1 - 5 Y	<0.9	U/L
LUTEINIZING HORM (LH)	M	6 - 10 Y	<1.0	U/L
LUTEINIZING HORM (LH)	M	11 - 14 Y	<5.4	U/L
LUTEINIZING HORM (LH)	M	15 - 20 Y	0.8-4.9	U/L
LUTEINIZING HORM (LH)	M	>20 Y	1.1-8.8	U/L

### MAGNESIUM RBC

MAGNESIUM RBC	M/F	<100 Y	4.0-6.4	mg/dL
MAGNESIUM RBC	M/F	<100 Y	4.0-6.4	mg/dL

### MANGANESE BLOOD

MANGANESE BLOOD	M/F	<100 Y	5--18	mcg/L
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	Sex	Age	Interval	Unit
<b>MANGANESE PLASMA</b>				
MANGANESE PLASMA	M/F	< 1 Y	7.3--50.2	nmol/L
MANGANESE PLASMA	M/F	1-5 Y	14.9--67.0	nmol/L
MANGANESE PLASMA	M/F	6-9 Y	5.3--40.8	nmol/L
MANGANESE PLASMA	M/F	10-13 Y	7.6--36.4	nmol/L
MANGANESE PLASMA	M/F	>= 14 Y	8.0--20.7	nmol/L

<b>MANGANESE URINE</b>				
MANGANESE RANDOM URINE (Creatinine Urine)	F	<100 Y	2.6-20.0	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	<100 Y	294-2262	mg/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	<100 Y	3.5-25.0	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	<100 Y	396-2828	mg/L
MANGANESE RANDOM URINE (Manganese Urine)	M/F	<100 Y	0.05-1.42	umol/mol cr
MANGANESE RANDOM URINE (Manganese Urine)	M/F	<100 Y	0.02-0.69	ug/g creatin

<b>METHYLMALONIC ACID PLASMA</b>				
METHYLMALONIC ACID PLASMA (Homocysteine)	F	<100 Y	<10.4	umol/L
METHYLMALONIC ACID PLASMA (Homocysteine)	M	<100 Y	<11.4	umol/L
METHYLMALONIC ACID PLASMA (Methylmalonic Acid)	M/F	<100Y	87-318	nmol/L

<b>MITOCHONDRIAL AB</b>				
MITOCHONDRIAL AB (AMA TITRE)	M/F	<100 Y	Titre <1:20	
MITOCHONDRIAL AB	M/F	<100 Y	Negative	

<b>MPO PR3</b>				
MPO PR3 (MPO)	M/F	<100 Y	<1.0	AI
MPO PR3 (PR3)	M/F	<100 Y	<1.0	AI

<b>NICKEL PLASMA</b>				
NICKEL PLASMA	M/F	<100 Y	< 2.0	mcg/L

**Sex Age****Interval****Unit****NICKEL RANDOM URINE**

NICKEL RANDOM URINE (Nickel Rand Urine)	M/F	<100 Y	<6.0	mcg/L
NICKEL RANDOM URINE (Nickel/Creat Urine)	M/F	<100 Y	<6	mcg/ g crea

**OLANZAPINE**

OLANZAPINE	M/F	<100 Y	32-256	nmol/L
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**OPIATES URINE**

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

OSMOLALITY	M/F	<=60 Y	270--295	mOsmol/kg
OSMOLALITY	M/F	>60 Y	280--300	mOsmol/kg

**PARATHYROID HORMONE**

PARATHYROID HORMONE (PTH)	M/F	<100 Y	<7.0	pmol/L
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**PARIETAL CELL AB**

PARIETAL CELL AB (APCA TITRE)	M/F	<100 Y	Titre <1:20	
PARIETAL CELL AB	M/F	<100 Y	Negative	

**PEANUT COMPONENT PANEL**

PEANUT COMPONENT (Peanut rAra h1)	M/F	<100 Y	<0.35	KU/L
PEANUT COMPONENT (Peanut rAra h2)	M/F	<100 Y	<0.35	KU/L
PEANUT COMPONENT (Peanut rAra h3)	M/F	<100 Y	<0.35	KU/L
PEANUT COMPONENT (Peanut rAra h8)	M/F	<100 Y	<0.35	KU/L
PEANUT COMPONENT (Peanut rAra h9)	M/F	<100 Y	<0.35	KU/L

	Sex	Age	Interval	Unit
<b>PENTACHLOROPHENOL</b>				
PENTACHLOROPHENOL	M/F	<100 Y	Pentachlorophenol in the general population is usually less than 0.04 mcg/mL in serum. The blood to plasma ratio is 0.5.	mcg/mL
<b>PHENOBARBITAL</b>				
PHENOBARBITAL	M/F	<100 Y	43--172	umol/L
<b>PHENYTOIN</b>				
PHENYTOIN	M/F	<100 Y	40--80	umol/L
<b>PLASMA POTASSIUM</b>				
Plasma Potassium	M/F	<100 Y	3.4-5.0	mmol/L
<b>POST VASECTOMY</b>				
POST VASECTOMY (Sperm Estimate)	M	<100 Y	<100000	sperm/mL
<b>POTASSIUM</b>				
POTASSIUM	M/F	<100 Y	3.5-5.0	mmol/L

	Sex	Age	Interval	Unit
<b>PROGESTERONE</b>				
PROGESTERONE	F	<4 D	No Range	nmol/L
PROGESTERONE	F	4 D - 1 Y	<4.2	nmol/L
PROGESTERONE	F	2 - 10 Y	<1.1	nmol/L
PROGESTERONE	F	Follicular $\geq$ 11 Y	<1.7	nmol/L
PROGESTERONE	F	Luteal $\geq$ 11 Y	2.2 - 60	nmol/L
PROGESTERONE	F	Post Menopausal $\geq$ 11 Y	<0.7	nmol/L
PROGESTERONE	M	<30 D	No Range	nmol/L
PROGESTERONE	M	30 D - 1 Y	<2.1	nmol/L
PROGESTERONE	M	2 - 10 Y	<1.1	nmol/L
PROGESTERONE	M	11 - 15 Y	<2.8	nmol/L
PROGESTERONE	M	>15 Y	<1.9	nmol/L

### PROLACTIN

PROLACTIN	F	<12 M	3.3-110.0	ug/L
PROLACTIN	F	1 - 5 Y	3.9-32.0	ug/L
PROLACTIN	F	6 - 10 Y	2.9-35.0	ug/L
PROLACTIN	F	11 - 14 Y	4.2-23.0	ug/L
PROLACTIN	F	15 - 20 Y	4.2-23.0	ug/L
PROLACTIN	F	>20 Y	4.2-28.2	ug/L
PROLACTIN	M	<12 M	3.3-110.0	ug/L
PROLACTIN	M	1 - 5 Y	3.9-32.0	ug/L
PROLACTIN	M	6 - 10 Y	2.9-35.0	ug/L
PROLACTIN	M	11 - 14 Y	3.5-16.3	ug/L
PROLACTIN	M	15 - 20 Y	4.6-21.0	ug/L
PROLACTIN	M	>20 Y	3.8-20.6	ug/L

	Sex	Age	Interval	Unit
<b>PROLACTIN MONOMER</b>				
PROLACTIN MONOMER	F	<150 Y	1.8-19.9	ug/L
PROLACTIN MONOMER	M	<150 Y	1.5-14.6	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	<150 Y	35.0--50.0	g/L
PROTEIN ELECTROPHORESIS (ALPHA-1)	M/F	<150 Y	2.0--4.0	g/L
PROTEIN ELECTROPHORESIS (ALPHA-2)	M/F	<150 Y	5.0--9.0	g/L
PROTEIN ELECTROPHORESIS (BETA-1)	M/F	<150 Y	3.0--6.0	g/L
PROTEIN ELECTROPHORESIS (BETA-2)	M/F	<150 Y	2.0--5.0	g/L
PROTEIN ELECTROPHORESIS (GAMMA)	M/F	<150 Y	7.0--14.0	g/L
Total Protein (Protein total)	M/F	<150 Y	60--80	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 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 Therapeutic INR range may vary based on patient's condition. Please consult with Specialist/Healthcare Provider for the appropriate therapeutic range.	

<b>PSA</b>				
PSA	F	<50 Y	<2.5 The reference range is based on males.	ug/L
PSA	F	50 - 59 Y	<3.5 The reference range is based on males.	ug/L
PSA	F	60 - 69 Y	<4.5 The reference range is based on males.	ug/L
PSA	F	>69 Y	<6.0 The reference range is based on males.	ug/L
PSA	M	<50 Y	<2.5	ug/L
PSA	M	50 - 59 Y	<3.5	ug/L
PSA	M	60 - 69 Y	<4.5	ug/L
PSA	M	>69 Y	<6.0	ug/L

<b>PSA RATIO - MONITORING</b>				
PSA RATIO MONITORING (Total PSA)	M/F	<100 Y	<4.0	ug/L

<b>QUANTIFERON TB GOLD</b>				
QUANTIFERON TB GOLD (QUANTIFERON GOLD)	M/F	<100 Y	NEGATIVE	

	Sex	Age	Interval	Unit
<b>QUANTIFERON TB GOLD 1 TUBE</b>				
QUANTIFERON TB GOLD 1 TUBE (QUANTIFERON GOLD)	M/F	<100 Y	NEGATIVE	
<b>RENIN (SUPINE)</b>				
RENIN SUPINE (ARR SUPINE)	M/F	< 100 Y	<50	
RENIN SUPINE	---	---	No Range	ng/L
<b>RENIN (UPRIGHT)</b>				
RENIN UPRIGHT (ARR UPRIGHT)	M/F	< 100 Y	<50	
RENIN UPRIGHT	M/F	<100 Y	5--75	ng/L
<b>RETICULOCYTE COUNT</b>				
RETICULOCYTE COUNT (ABSOLUTE RETICULOCYTE)	M/F	1 D - 5 M	100--300	10*9/L
RETICULOCYTE COUNT (ABSOLUTE RETICULOCYTE)	M/F	6 M - 5 Y	40--120	10*9/L
RETICULOCYTE COUNT (ABSOLUTE RETICULOCYTE)	M/F	6 Y - 18 Y	30--180	10*9/L
RETICULOCYTE COUNT (ABSOLUTE RETICULOCYTE)	M/F	=> 19 Y	35--120	10*9/L
RETICULOCYTE COUNT (IMMATURE RETICULOCYTE FRACTION)	M/F	< 19 Y	No established Reference Interval available. Adult range is 2.0 - 13.1 %.	%
RETICULOCYTE COUNT (IMMATURE RETICULOCYTE FRACTION)	M/F	=> 19 Y	2.0--13.1	%
RETICULOCYTE COUNT (RETICULOCYTE HGB CONTENT)	M/F	< 19 Y	No established Reference Interval available. Adult Range is 28.6 - 36.3 pg.	pg
RETICULOCYTE COUNT (RETICULOCYTE HGB CONTENT)	M/F	=> 19 Yr	28.6--36.3	pg
<b>REVERSE T3</b>				
REVERSE T3	M/F	<100 Y	8 - 25	ng/dL

	Sex	Age	Interval	Unit
<b>RHEUMATOID FACTOR</b>				
RHEUMATOID FACTOR	M/F	<150 Y	<30	kU/L

### SELENIUM

SELENIUM (Selenium serum)	M/F	<= 1 Y	No Range	umol/L
SELENIUM (Selenium serum)	M/F	>1 Y	1.20--2.09	umol/L

### SEMEN ANALYSIS

SEMEN ANALYSIS3 (Immature Forms)	M	<100 Y	<3	/100 sperm
SEMEN ANALYSIS3 (Normal Forms)	M	<100 Y	=>4	%
SEMEN ANALYSIS2 (Prog.Motility)	M	<100 Y	=>32	%
SEMEN ANALYSIS2 (Sperm Concen)	M	<100 Y	=>15	10*6/mL
SEMEN ANALYSIS2 (Total Motility)	M	<100 Y	=>40	%
SEMEN ANALYSIS2 (Total Sperm Count)	M	<100 Y	=>39	10*6/ejac
SEMEN ANALYSIS2 (Vitality)	M	<100 Y	=>58	%
SEMEN ANALYSIS2 (Volume)	M	<100 Y	=>1.5	mL

### SEX HORMONE BINDING GLOBULIN

SEX HORMONE BINDING GLOBULIN (SHBG)	F	<13 Y	20.0--180.0 Reference intervals are for adults.	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	F	13-100 Y	20.0--180.0	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	M	<13 Y	10.0--70.0 Reference intervals are for adults.	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	M	13-50 Y	10.0--70.0	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	M	>50 Y	19.0--76.0	nmol/L

### 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	135-145	mmol/L

**SOLUBLE TRANSFERRIN RECEPTOR**

SOLUBLE TRANSFERRIN RECEPTOR AB (Transferrin Rcptr)	M/F	< 100 Y	0.6 - 1.6	mg/L
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**SPECIFIC ALLERGEN IgE**

SPECIFIC ALLERGEN IgE (SPECIFIC IGE)	M/F	<100 Y	<0.35	kU/L
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**STOOL FAT QUANTITATIVE 24H**

STOOL FAT QUANTITATIVE 24H (TOTAL GRAMS FAT PER D)	M/F	<7 Y	<2	g/d
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STOOL FAT QUANTITATIVE 24H (TOTAL GRAMS FAT PER D)	M/F	7 - 150 Y	<7	g/d
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**STOOL FAT QUANTITATIVE 48H**

STOOL FAT QUANTITATIVE 48H (TOTAL GRAMS FAT PER D)	M/F	<7 Y	<2	g/d
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STOOL FAT QUANTITATIVE 48H (TOTAL GRAMS FAT PER D)	M/F	7 - 150 Y	<7	g/d
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**STOOL FAT QUANTITATIVE 72H**

STOOL FAT QUANTITATIVE 72H (TOTAL GRAMS FAT PER D)	M/F	<7 Y	<2	g/d
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STOOL FAT QUANTITATIVE 72H (TOTAL GRAMS FAT PER D)	M/F	7 - 150 Y	<7	g/d
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	Sex	Age	Interval	Unit
<b>T3 FREE</b>				
T3 FREE	F	12-14 Y	3.8 - 6.1	pmol/L
T3 FREE	F	15-18 Y	3.6 - 5.7	pmol/L
T3 FREE	M	12-14 Y	4.4 - 6.6	pmol/L
T3 FREE	M	15-18 Y	3.5 - 5.9	pmol/L
T3 FREE	M/F	<12 M	3.6 - 7.5	pmol/L
T3 FREE	M/F	1-11 Y	4.3 - 6.8	pmol/L
T3 FREE	M/F	>= 19 Y	2.6 - 5.8	pmol/L

### TACROLIMUS

TACROLIMUS	M/F	<100 Y	4.0--15.0	ug/L
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### TESTOSTERONE

TESTOSTERONE (TESTOSTERONE (T))	F	11 Y - 50 Y	<1.8	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	F	>50 Y	<1.5	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	11Y - 14Y	<20.0	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	15 Y - 18 Y	1.7--27.0	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	> 18 Y	8.4--28.8	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M/F	<6 M	<0.2 Reference interval is for children between 6 months and 10 years of age.	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M/F	6 M - 10 Y	<0.2	nmol/L

### THEOPHYLLINE

THEOPHYLLINE	M/F	<100 Y	55--110	umol/L
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	Sex	Age	Interval	Unit
<b>THIOCYANATE</b>				
THIOCYANATE	M/F	<100 Y	Normal:	mcg/mL
THIOCYANATE	M/F	<100 Y	Non-Smokers: Usually less than 8 mcg/mL	mcg/mL
THIOCYANATE	M/F	<100 Y	Smokers: Usually less than 16 mcg/mL	mcg/mL
THIOCYANATE	M/F	<100 Y	Nitroprusside therapeutic range: 6-29 mcg/mL	mcg/mL
<b>THYROGLOBULIN</b>				
THYROGLOBULIN	M/F	<100 Y	<60.0	ug/L
<b>THYROGLOBULIN AB</b>				
THYROGLOBULIN AB	M/F	<100 Y	<40	IU/mL
<b>THYROID PEROXIDASE AB</b>				
THYROID PEROXIDASE AB (anti-TPO)	M/F	<100 Y	<35	IU/mL
<b>TITANIUM</b>				
TITANIUM	M/F	<100 Y	0.0-5.8	nmol/L
TITANIUM	M/F	<100 Y	0.0-0.28	ug/L
<b>TRANSFERRIN</b>				
TRANSFERRIN	F	>= 19 Y	2.00--4.00	g/L
TRANSFERRIN	M	>=19 Y	2.00--3.30	g/L
TRANSFERRIN	M/F	0 - 2 M	1.11--2.43	g/L
TRANSFERRIN	M/F	3 - <1 Y	1.15--3.52	g/L
TRANSFERRIN	M/F	1 - <19 Y	2.38--3.66	g/L

	Sex	Age	Interval	Unit
<b>TRIGLYCERIDE</b>				
TRIGLYCERIDE	M/F	<2 Y	No Range	mmol/L
TRIGLYCERIDE	M/F	2 - 17 Y	<1.21	mmol/L
TRIGLYCERIDE	M/F	>17 Y	<2.21	mmol/L
<b>TROPONIN T</b>				
TROPONIN T	M/F	<1 Y	No reference range available.	ng/L
TROPONIN T	M/F	1 - 100 Y	<14	ng/L
<b>TRYPTASE</b>				
TRYPTASE	M/F	<100 Y	<11.0	mcg/L

	Sex	Age	Interval	Unit
<b>TSH</b>				
TSH	F	<12 M	0.88-5.42	mU/L
TSH	F	1 - 5 Y	0.66-4.74	mU/L
TSH	F	6 - 10 Y	0.70-4.17	mU/L
TSH	F	11 - 14 Y	0.47-4.13	mU/L
TSH	F	15 - 20 Y	0.47-3.41	mU/L
TSH	F	15 - 20 Y	Gestational reference intervals: 1st Trimester 0.10-3.50 mU/L 2nd Trimester 0.30-3.50 mU/L 3rd Trimester 0.45-4.00 mU/L	mU/L
TSH	F	21 - 50 Y	0.32 - 5.04	mU/L
TSH	F	21 - 50 Y	Gestational reference intervals: 1st Trimester 0.10-3.50 mU/L 2nd Trimester 0.30-3.50 mU/L 3rd Trimester 0.45-4.00 mU/L	mU/L
TSH	M	<12 M	0.88-5.42	mU/L
TSH	M	1 - 5 Y	0.67-4.50	mU/L
TSH	M	6 - 10 Y	0.70-4.17	mU/L
TSH	M	11 - 14 Y	0.58-3.59	mU/L
TSH	M	15 - 20 Y	0.47-3.41	mU/L
TSH	M	21 - 50 Y	0.32 - 5.04	mU/L
TSH	M/F	>50 Y	0.32-5.04	mU/L
<b>UREA</b>				
UREA	M/F	<100 Y	2.0-9.0	mmol/L

	Sex	Age	Interval	Unit
<b>URIC ACID</b>				
URIC ACID	F	<100 Y	140-360	umol/L
URIC ACID	M	<100 Y	150-430	umol/L
<b>URINE ALBUMIN 24H</b>				
URINE MICROALBUMIN 24H (Albumin urine 24h)	M/F	<150 Y	<30	mg/d
<b>URINE ALBUMIN QNT</b>				
URINE MICROALBUMIN QNT (ACR)	F	<150 Y	<2.8	mg/mmol
URINE MICROALBUMIN QNT (ACR)	M	<150 Y	<2.0	mg/mmol
<b>URINE ALDOSTERONE 24H</b>				
URINE ALDOSTERONE 24H (UR ALDOSTERONE)	M/F	< 150 Y	10-39	nmol/d
<b>URINE AMPHETAMINE CONFIRM IF POS</b>				
AMPHETAMINE URINE (Amphetamines)	M/F	<100 Y	Negative	
<b>URINE AMYLASE</b>				
AMYLASE URINE (Amylase Urine Random)	M/F	<150 Y	<500	U/L
<b>URINE ARSENIC 24H</b>				
ARSENIC URINE 24H	M/F	<100 Y	<1600	nmol/d
<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	<150 Y	1.0--7.0	mmol/d
<b>URINE CALCIUM/CREATININE RATIO</b>				
URINE CAL/CRE RATIO (Calcium/Creat rdm)	M/F	<150 Y	0.01--0.39	

	Sex	Age	Interval	Unit
<b>URINE CALCIUM/CREATININE RATIO 2H</b>				
URINE CAL/CRE RATIO 2H (Ca/Creat 2h ratio)	M/F	<150 Y	0.01--0.39	
<b>URINE CATECHOLAMINES 24H</b>				
URINE CATECHOLAMINES 24H (Dopamine)	M/F	<100 Y	<3300	nmol/d
URINE CATECHOLAMINES 24H (Epinephrine)	M/F	<100 Y	<80	nmol/d
URINE CATECHOLAMINES 24H (Norepinephrine)	M/F	<100 Y	<650	nmol/d
<b>URINE CHLORIDE 24H</b>				
URINE CHLORIDE 24h (Chloride urine 24h)	M/F	<=61 Y	95--195	mmol/d
URINE CHLORIDE 24h (Chloride urine 24h)	M/F	>61 Y	110--250	mmol/d
<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 COPPER 24H</b>				
URINE COPPER 24h (Copper urine 24h)	M/F	<100 Y	<0.94	umol/d
<b>URINE CORTISOL 24H</b>				
CORTISOL 24h URINE (Urine Cortisol)	F	18-100 Y	8--119	nmol/d
CORTISOL 24h URINE (Urine Cortisol)	M	18-100 Y	12--166	nmol/d
<b>URINE CREATININE 24H</b>				
URINE CREATININE 24H (Creatinine 24h)	F	>=16 Y	5.0--16.0	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M	>=16 Y	7.0--18.0	mmol/d
<b>URINE GLUCOSE 24h</b>				
URINE GLUCOSE 24H (Glucose urine 24h)	M/F	<150 Y	<1.0	mmol/d

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

URINE LEAD 24H (Lead urine 24h)	M/F	<100 Y	<0.39	umol/d
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**URINE MACROSCOPIC**

URINE MACROSCOPIC (Glucose)	M/F	<100 Y	Negative	mmol/L
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URINE MACROSCOPIC (Hemoglobin)	M/F	<100 Y	Negative	RBC/uL
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URINE MACROSCOPIC (Ketones)	M/F	<100 Y	Negative	mmol/L
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URINE MACROSCOPIC (Leukocytes)	M/F	<100 Y	Negative	WBC/uL
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URINE MACROSCOPIC (Nitrite)	M/F	<100 Y	Negative	
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URINE MACROSCOPIC (PH)	M/F	<100 Y	5.0-8.0	
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URINE MACROSCOPIC (Protein)	M/F	<100 Y	Negative	g/L
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**URINE MAGNESIUM 24H**

URINE MAGNESIUM 24H (Magnesium ur 24h)	M/F	<150 Y	3.0--5.0	mmol/d
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**URINE MERCURY 24H**

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

METANEPHRINE 24 UR (Metanephrine)			<200	nmol/d
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METANEPHRINE 24 UR (Normetanephrine)	F		<242	nmol/d
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METANEPHRINE 24 UR (Normetanephrine)	M		<280	nmol/d
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	Sex	Age	Interval	Unit
<b>URINE MICROSCOPIC</b>				
URINE MICROSCOPIC (Epithelial Casts)	M/F	<100 Y	Negative	/HPF
URINE MICROSCOPIC (Fatty Casts)	M/F	<100 Y	Negative	/HPF
URINE MICROSCOPIC (Granular Casts)	M/F	<100 Y	Negative	/HPF
URINE MICROSCOPIC (Non Squamous Epi)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (Pathologic Casts)	M/F	<100 Y	Negative	/HPF
URINE MICROSCOPIC (RBC)	M/F	<100 Y	0-2	/HPF
URINE MICROSCOPIC (RBC Casts)	M/F	<100 Y	Negative	/HPF
URINE MICROSCOPIC (Waxy Casts)	M/F	<100 Y	Negative	/HPF
URINE MICROSCOPIC (WBC)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (WBC Casts)	M/F	<100 Y	Negative	/HPF

### URINE OPIATES CONFIRM IF POS

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

URINE OSMOLALITY (u-Osmolality)	M/F	<100 Y	50--1200	mOsmol/kg
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### URINE OSMOLALITY 24H

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

URINE OXALATE 24H (Oxalate urine 24h)	F	>= 13 Y	40--340	umol/d
URINE OXALATE 24H (Oxalate urine 24h)	M	>= 13 Y	80--490	umol/d
URINE OXALATE 24H (Oxalate urine 24h)	M/F	<13 Y	No Reference Range	umol/d

### URINE PHOSPHORUS 24H

URINE PHOSPHORUS 24H (Phosphorus ur 24h)	M/F	<150 Y	<32	mmol/d
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### URINE POTASSIUM 24H

URINE POTASSIUM 24H (Potassium ur 24h)	M/F	<150 Y	35--90	mmol/d
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	Sex	Age	Interval	Unit
<b>URINE PROTEIN 12H</b>				
URINE PROTEIN 12H (Protein urine 12h)	M/F	<150 Y	<0.15	g/L
<b>URINE PROTEIN ELECTROPHORESIS 24H</b>				
Protein Urine 24h	M/F	<100 Y	<0.15	g/d
URINE CREATININE 24H (Creatinine 24h)	F	>=16 Y	5.0--16.0	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M	>=16 Y	7.0--18.0	mmol/d
<b>URINE PROTEIN/CREAT RATIO</b>				
URINE PROTEIN/CREAT (Prot/Creat ratio)	M/F	<100 Y	<30	g/mol
<b>URINE PROTEIN/CREAT RATIO 24H</b>				
URINE PROTEIN/CREAT 24H (Prot/Creat 24h)	M/F	<100 Y	<30	g/mol
<b>URINE SODIUM 24H</b>				
URINE SODIUM 24H (Sodium urine 24h)	M/F	<150 Y	40--220	mmol/d
<b>URINE THALLIUM 24H</b>				
THALLIUM URINE 24H	M/F	<100 Y	<49	nmol/d
<b>URINE UREA 24H</b>				
URINE UREA 24H (Urea urine 24h)	M/F	<150 Y	180--610	mmol/d
<b>URINE URIC ACID 24H</b>				
URINE URIC ACID 24H (Uric Acid ur 24h)	M/F	<150 Y	<5.9	mmol/d
<b>URINE VMA 24H</b>				
VMA 24H URINE (VMA)	M/F	<100 Y	<38	umol/d
<b>URINE ZINC 24H</b>				
URINE ZINC 24h (Zinc urine 24h)	M/F	<100 Y	1.5-9.2	nmol/d

	Sex	Age	Interval	Unit
<b>VALPROIC ACID</b>				
VALPROIC ACID	M/F	<100 Y	350-700	umol/L
<b>VANADIUM RANDOM URINE</b>				
VANADIUM RANDOM UR (Vanadium Rand Ur)	M/F	<100 Y	<1	mcg/L
VANADIUM RANDOM UR (Vanadium/Creat Ur)	M/F	<100 Y	<1	mcg/g crea
<b>VISCOSITY</b>				
VISCOSITY	M/F	<100 Y	1.4--1.8	
<b>VITAMIN A</b>				
VITAMIN A	M/F	<100 Y	1.2 - 2.8	umol/L
<b>VITAMIN B1</b>				
VITAMIN B1	M/F	<100 Y	78-185	nmol/L
<b>VITAMIN B12</b>				
VITAMIN B12	M/F	5 D - 1 Y	191-1163	pmol/L
VITAMIN B12	M/F	2 - 8 Y	209-1190	pmol/L
VITAMIN B12	M/F	9 - 13 Y	186-830	pmol/L
VITAMIN B12	M/F	14 - 16 Y	180-655	pmol/L
VITAMIN B12	M/F	17 - 18 Y	150-599	pmol/L
VITAMIN B12	M/F	>18 Y	153-655	pmol/L
<b>VITAMIN B6</b>				
VITAMIN B6	M/F	<=1 Y	No established reference range	ng/mL
VITAMIN B6	M/F	2-17 Y	3.0-35.0	ng/mL
VITAMIN B6	M/F	=>18 Y	2.1-21.7	ng/mL

	Sex	Age	Interval	Unit
<b>VITAMIN C</b>				
VITAMIN C (Ascorbic Acid)	M/F	<100 Y	Deficient: <11	umol/L
VITAMIN C (Ascorbic Acid)	M/F	<100 Y	Suboptimal: 11-28	umol/L
VITAMIN C (Ascorbic Acid)	M/F	<100 Y	Adequate: >28	umol/L

<b>VITAMIN E</b>				
VITAMIN E	M/F	0 - 2 M	2.3 - 8.1	umol/L
VITAMIN E	M/F	3 - 6 M	5 - 14	umol/L
VITAMIN E	M/F	7 M - 1 Y	8 - 19	umol/L
VITAMIN E	M/F	2 Y - 12 Y	12 - 21	umol/L
VITAMIN E	M/F	>12 Y	12 - 46	umol/L

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

<b>ZINC PROTOPORPHYRIN-PRIVATE PAY</b>				
ZINC PROTOPORPHYRIN-PRIVATE PAY (ZPP)	M/F	<100 Y	30-80	mcmol/mol

<b>ZOPICLONE URINE</b>				
Zopiclone Urine (Zopiclone)	M/F	<100Y	Negative	