

***LifeLabs Clinical Laboratories  
Victoria Reference Laboratory***

***4464 Markham Road***

***Victoria, B.C. V8Z 7X8***

***Reference Intervals***

***Wednesday, November 3, 2021***

***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	60--210	pmol/L
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**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	75-150	nmol/L
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**5HIAA 24h URINE**

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

ACE	M/F	<150 Y	<79.1	U/L
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**ACTH**

ACTH	M/F	<100 Y	1.6--13.9	pmol/L
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**ACTIVATED PTT**

ACTIVATED PTT	M/F	<100 Y	25--36	s
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**AFP TUMOR MARKER**

AFP TUMOR MARKER (AFP)	M/F	<100 Y	<8.4	ug/L
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	Sex	Age	Interval	Unit
<b>ALBUMIN</b>				
ALBUMIN	M/F	<150 Y	35-50	g/L

### ALCOHOL

ALCOHOL (Serum Alcohol)	M/F	<100 Y	0--20 Negative	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100 Y	21--46 Below Intoxication	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100 Y	47--97 Mild Intoxication	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100 Y	98--299 Intoxication	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100 Y	> 299 Intoxication/CNS depression common	mg/dL

### ALKALINE PHOSPHATASE

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

### 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	14 D - 365D	<5.7	nmol/L
ANDROSTENEDIONE	M/F	1-5 Y	<0.568	nmol/L
ANDROSTENEDIONE	M/F	6-9 Y	<0.917	nmol/L
ANDROSTENEDIONE	M/F	10-11 Y	<2.54	nmol/L

### ANION GAP

ANION GAP	M/F	<100 Y	10.1--19.9	
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	Sex	Age	Interval	Unit
<b>ANTI CCP</b>				
ANTI CCP (Anti-CCP)	M/F	<100 Y	<3.0	U/mL
<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	1.1-2.3	g/L
APOLIPO A-1 (APO A-1)	M	<150 Y	1.0-2.0	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 IMMUNOGLOBU</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>BICARBONATE</b>				
BICARBONATE	M/F	<150 Y	20-30	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	>=70 Y	<0.854	ng/mL
CTX	M	50 - 69 Y	<0.704	ng/mL
CTX	M	18 - 49 Y	<0.584	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	0-100 Y	0.16--0.45	g/L
CERULOPLASMIN	M	0-100 Y	0.15--0.30	g/L
<b>CHLORIDE</b>				
CHLORIDE	M/F	<100 Y	98-108	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	2.2-7.7	nmol/L
CHROMIUM	M/F	<100 Y	0.12-0.40	ug/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****CORTISOL**

CORTISOL (CORTISOL RANDOM)	M/F	<100 Y	Random cortisol should be interpreted in the context of the diurnal variation of cortisol.	nmol/L
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**CORTISOL AM**

CORTISOL AM (CORTISOL A.M.)	M/F	<150 Y	125-536	nmol/L
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**CORTISOL PM**

CORTISOL PM (Cortisol p.m.)	M/F	<100 Y	50--300	nmol/L
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**CREATINE KINASE**

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

**CREATININE**

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)	---	---	No Range	ug/L
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### CYCLOSPORINE TROUGH

CYCLOSPORINE TROUGH (CYCLOSPORINE)	---	---	No Range	ug/L
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### DHEA-S

DHEA-S (DHEAS-S)	F	Prepubertal	<10.8 Prepubertal results expected to be 20% of those for adults.	umol/L
DHEA-S (DHEAS-S)	F	13 - 44 Y	<10.8	umol/L
DHEA-S (DHEAS-S)	F	45 - 75Y	<6.7	umol/L
DHEA-S (DHEAS-S)	F	>75 Y	<4.3	umol/L
DHEA-S (DHEAS-S)	M	Prepubertal	<15.0 Prepubertal results expected to be 20% of those for adults.	umol/L
DHEA-S (DHEAS-S)	M	13 - 44 Y	<15.0	umol/L
DHEA-S (DHEAS-S)	M	45 - 75 Y	<9.8	umol/L
DHEA-S (DHEAS-S)	M	>75 Y	<3.4	umol/L

	Sex	Age	Interval	Unit
<b>DHT</b>				
DHT	F	<100 Y	<=20	ng/dL
DHT	M	<100 Y	12 - 65	ng/dL
<b>DIGOXIN</b>				
DIGOXIN	M/F	<100 Y	0.6--2.6 Therapeutic	nmol/L
<b>DILUTE RUSSELL VIPER VENOM</b>				
DRVVT Screen	M/F	<100 Y	<1.4 LA Not Present	
<b>DIRECT ANTIGLOBULIN TEST</b>				
DIRECT ANTIGLOBULIN TEST (C3D SPECIFIC)	---	---	No Range	
DIRECT ANTIGLOBULIN TEST (IGG SPECIFIC)	---	---	No Range	
<b>DNA AB</b>				
DNA AB (ANTI DNA)	M/F	<100 Y	<=4	IU/mL
<b>ENA</b>				
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
<b>ESR</b>				
ESR (EST)	M/F	<100 Y	2--30	mm/hr

	Sex	Age	Interval	Unit
<b>ESTRADIOL</b>				
ESTRADIOL	F	11 - 14 Y	<355	pmol/L
ESTRADIOL	F	Follicular >=15 Y	<913	pmol/L
ESTRADIOL	F	Mid-Cycle >=15 Y	140-2380	pmol/L
ESTRADIOL	F	Luteal >=15 Y	77-1145	pmol/L
ESTRADIOL	F	Postmenopausal >=15 Y	<113	pmol/L
ESTRADIOL	M	11 - 14 Y	<113	pmol/L
ESTRADIOL	M	15 - 20 Y	<182	pmol/L
ESTRADIOL	M	>20 Y	<157	pmol/L

<b>FERRITIN</b>				
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

<b>FIBRINOGEN</b>				
FIBRINOGEN	M/F	<100 Y	2.00--4.10	g/L

<b>FLUORIDE RANDOM URINE</b>				
FLUORIDE RANDOM URINE (Fluoride Rand Ur)	M/F	<100 Y	<2	mcg/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	<31	U/L
GAMMA GT (GGT)	M	<100 Y	<49	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
<b>GROWTH HORMONE</b>				
GROWTH HORMONE	F	<100 Y	<8.0	ug/L
GROWTH HORMONE	M	<100 Y	<3.0	ug/L

<b>HAPTOGLOBIN</b>				
HAPTOGLOBIN	M/F	<20 Y	0.10-1.30	g/L
HAPTOGLOBIN	M/F	>=20 Y	0.17-2.00	g/L

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

<b>HDL CHOLESTEROL</b>				
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

	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

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
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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### 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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### 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	%

**Sex Age****Interval****Unit****HIPPURIC ACID URINE**

HIPPURIC ACID URINE (Hippuric Acid Ur)	M/F	<100 Y	<1.6	g/L
HIPPURIC ACID URINE (Hippuric Acid/Crea)	M/F	<100 Y	<1.5	g/g Creat

**HLA-B27**

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

HOMOCYSTEINE	M/F	<=12 Y	Reference range data for children is sparse. Levels are lowest in younger children and increase with age. A reference range of <7 umol/L is suggested for children ages 8-12 years.	umol/L
HOMOCYSTEINE	M/F	>12 Y	<15	umol/L

**HYDROCODONE URINE**

HYDROCODONE URINE (Hydrocodone)	M/F	<100Y	Negative	
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**IgA**

IgA	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



	Sex	Age	Interval	Unit
<b>IgG</b>				
IgG	M/F	<1 Y	2.3-14.1	g/L
IgG	M/F	1 - 3 Y	4.5-9.2	g/L
IgG	M/F	4 - 6 Y	5.0-14.7	g/L
IgG	M/F	7 - 9 Y	5.7-14.7	g/L
IgG	M/F	10 - 11 Y	7.0-15.6	g/L
IgG	M/F	12 - 13 Y	7.6-15.5	g/L
IgG	M/F	14 - 15 Y	7.2-17.1	g/L
IgG	M/F	16 - 19 Y	5.5-15.8	g/L
IgG	M/F	>19 Y	7.0-16.0	g/L

<b>IgM</b>				
IgM	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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**Sex Age****Interval****Unit****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
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IRON (SAT)	M/F	<150 Y	0.13-0.50	
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TRANSFERRIN	F	>= 19 Y	2.00--4.00	g/L
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TRANSFERRIN	M	>=19 Y	2.00--3.30	g/L
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TRANSFERRIN	M/F	0 - 2 M	1.11--2.43	g/L
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TRANSFERRIN	M/F	3 - <1 Y	1.15--3.52	g/L
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TRANSFERRIN	M/F	1 - <19 Y	2.38--3.66	g/L
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**JOINT FLUID DIFF**

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

JOINT FLUID GLUCOSE (Glucose Joint Fld)	M/F	<100 Y		mmol/L
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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.

	Sex	Age	Interval	Unit
<b>JOINT FLUID LDH</b>				
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

<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

	Sex	Age	Interval	Unit
<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

<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
LD	M/F	>=16 Y	<225	U/L

	Sex	Age	Interval	Unit
<b>LDH ISOENZYMES</b>				
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	
<b>LEAD BLOOD</b>				
LEAD BLOOD	M/F	<100 Y	No Range	umol/L
<b>LIPASE</b>				
LIPASE	M/F	<100 Y	<75	U/L

**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	<150 Y	<300	mg/L
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**Sex Age****Interval****Unit****LITHIUM**

LITHIUM	M/F	<66 Y	0.50-1.20	mmol/L
LITHIUM	M/F	>=66 Y	0.20-0.80	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**

MAGNESIUM	M/F	<150 Y	0.64-0.98	mmol/L
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**MAGNESIUM RBC**

MAGNESIUM RBC	M/F	<100 Y	1.65-2.52	mmol/L
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	Sex	Age	Interval	Unit
<b>MANGANESE BLOOD</b>				
MANGANESE BLOOD	M/F	<100 Y	5--18	mcg/L

**MANGANESE PLASMA**

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



	Sex	Age	Interval	Unit
<b>MANGANESE URINE</b>				
MANGANESE RANDOM URINE (Creatinine Urine)	F	<=11 Y	2.0--14.7	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	12-19 Y	3.6--25.6	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	20-29 Y	1.9--23.1	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	30-39 Y	1.2--21.4	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	40-49 Y	0.8--18.2	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	50-59 Y	1.1--15.3	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	60-69 Y	1.2--15.5	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	70-79 Y	1.3--15.4	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	F	>79 Y	0.9--10.6	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	<=11 Y	3.5--15.0	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	12-19 Y	4.4--25.4	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	20-29 Y	4.8--27.8	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	30-39 Y	2.5--24.6	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	40-49 Y	2.4--23.7	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	50-59 Y	2.2--21.3	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	60-69 Y	2.7--19.9	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	70-79 Y	2.8--18.5	mmol/L
MANGANESE RANDOM URINE (Creatinine Urine)	M	>79 Y	2.5--15.7	mmol/L
MANGANESE RANDOM URINE (Manganese Urine)	M/F	<100 Y	1.3--9.1	nmol/L
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	<=11 Y	0.14--1.08	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	12-19 Y	0.09--0.66	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	20-29 Y	0.10--0.75	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	30-39 Y	0.13--0.90	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	40-49 Y	0.15--1.07	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	50-59 Y	0.18--1.26	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	60-69 Y	0.17--1.25	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	70-79 Y	0.18--1.30	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	F	>79 Y	0.22--1.60	umol/mol Cr

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	<=11 Y	0.14--1.03	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	12-19 Y	0.09--0.64	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	20-29 Y	0.08--0.57	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	30-39 Y	0.09--0.66	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	40-49 Y	0.10--0.70	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	50-59 Y	0.11--0.81	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	60-69 Y	0.12--0.84	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	70-79 Y	0.13--0.91	umol/mol Cr
MANGANESE RANDOM URINE (Manganese/Cr ratio)	M	>79 Y	0.14--1.03	umol/mol Cr

### **METHYLMALONIC ACID PLASMA**

METHYLMALONIC ACID PLASMA (Methylmalonic Acid)	M/F	<100 Y	0.10 - 0.40	umol/L
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### **MITOCHONDRIAL AB**

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

### **MPO PR3**

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

### **NEUTROPHILIC CYTOPLASMIC AB**

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

NEUTROPHILIC CYTOPLASMIC AB (ANCA Pattern)			No reportable reference interval	
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### **NICKEL PLASMA**

NICKEL PLASMA	M/F	<100 Y	< 2.0	mcg/L
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**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

**PHENYTOIN**

PHENYTOIN	M/F	<=3 M	24-55	umol/L
PHENYTOIN	M/F	4 M-100 Y	40--80	umol/L

	Sex	Age	Interval	Unit
<b>PHOSPHORUS</b>				
PHOSPHORUS	M/F	<=30 D	1.4-3.0	mmol/L
PHOSPHORUS	M/F	1 - 12 M	1.5-2.1	mmol/L
PHOSPHORUS	M/F	>1 Y	0.8-1.5	mmol/L
<b>PLASMA POTASSIUM</b>				
Plasma Potassium	F	<100 Y	3.4-4.4	mmol/L
Plasma Potassium	M	<100 Y	3.5-4.5	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
<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	11 - 14 Y	0.4-2.7	nmol/L
PROGESTERONE	F	Follicular >=15 Y	<1.7	nmol/L
PROGESTERONE	F	Luteal >=15 Y	2.2 - 60	nmol/L
PROGESTERONE	F	Post Menopausal >=15 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	0.4-2.7	nmol/L
PROGESTERONE	M	>15 Y	0.4-1.8	nmol/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<b>PROLACTIN</b>				
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

### **PROLACTIN MONOMER**

PROLACTIN MONOMER	F	<150 Y	1.8-19.9	ug/L
PROLACTIN MONOMER	M	<150 Y	1.5-14.6	ug/L

### **PROTEIN C ACTIVITY**

PROTEIN C (PROTEIN C ACTIVITY)	M/F	<100 Y	=>0.75	U/mL
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### **PROTEIN ELECTROPHORESIS**

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

	Sex	Age	Interval	Unit
<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
<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.	

	Sex	Age	Interval	Unit
<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

### PSA RATIO - MONITORING

PSA RATIO MONITORING (Total PSA)	M/F	<100 Y	<4.0	ug/L
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### QUANTIFERON TB GOLD

QUANTIFERON TB GOLD (QUANTIFERON GOLD)	M/F	<100 Y	NEGATIVE	
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### RENIN (SUPINE)

RENIN SUPINE (ARR SUPINE)	M/F	< 100 Y	<50	
RENIN SUPINE	---	---	No Range	ng/L

### RENIN (UPRIGHT)

RENIN UPRIGHT (ARR UPRIGHT)	M/F	< 100 Y	<50	
RENIN UPRIGHT	M/F	<100 Y	5--75	ng/L

	Sex	Age	Interval	Unit
<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

### REVERSE T3

REVERSE T3	M/F	<100 Y	8 - 25	ng/dL
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### RHEUMATOID FACTOR

RHEUMATOID FACTOR	M/F	<150 Y	<12	kU/L
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### 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



	Sex	Age	Interval	Unit
<b>SEMEN ANALYSIS</b>				
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	

### SODIUM

SODIUM	M/F	<100 Y	135-145	mmol/L
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### SOLUBLE TRANSFERRIN RECEPTOR

SOLUBLE TRANSFERRIN RECEPTOR AB (Transferrin Rcptr)	M/F	< 100 Y	0.6 - 1.6	mg/L
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	Sex	Age	Interval	Unit
<b>SPECIFIC ALLERGEN IgE</b>				
SPECIFIC ALLERGEN IgE (SPECIFIC IGE)	M/F	<100 Y	<0.35	kU/L

### STOOL FAT QUANTITATIVE 24H

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

### STOOL FAT QUANTITATIVE 48H

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

### STOOL FAT QUANTITATIVE 72H

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

### T3 FREE

T3 FREE	F	12-14 Y	3.84--6.06	pmol/L
T3 FREE	F	15-18 Y	3.55--5.70	pmol/L
T3 FREE	M	12-14 Y	4.44--6.65	pmol/L
T3 FREE	M	15-18 Y	3.46--5.92	pmol/L
T3 FREE	M/F	<12 M	3.56--7.48	pmol/L
T3 FREE	M/F	1-11 Y	4.29--6.79	pmol/L
T3 FREE	M/F	>= 19 Y	2.60--5.80	pmol/L

### TACROLIMUS

TACROLIMUS	---	---	No Range	ug/L
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	Sex	Age	Interval	Unit
<b>TESTOSTERONE</b>				
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

### THIOCYANATE

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

### THYROGLOBULIN

THYROGLOBULIN	M/F	<100 Y	<60.0	ug/L
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### THYROGLOBULIN AB

THYROGLOBULIN AB	M/F	<100 Y	<40	IU/mL
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### THYROID PEROXIDASE AB

THYROID PEROXIDASE AB (anti-TPO)	M/F	<100 Y	<35	IU/mL
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**Sex Age****Interval****Unit****TITANIUM**

TITANIUM	M/F	<100 Y	0.0-0.28	ug/L
TITANIUM	M/F	<100 Y	0.0-5.8	nmol/L

**TRANSFERRIN**

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

**TRIGLYCERIDE**

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

**TROPONIN T**

TROPONIN T	M/F	<1 Y	No reference range available.	ng/L
TROPONIN T	M/F	1 - 100 Y	<14	ng/L

**TRYPTASE**

TRYPTASE	M/F	<100 Y	3.8 - 11.4	ug/L
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	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 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
<b>URINE LEAD 24H</b>				
URINE LEAD 24H (Lead urine 24h)	M/F	<100 Y	<0.39	umol/d

	Sex	Age	Interval	Unit
<b>URINE MACROSCOPIC</b>				
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
<b>URINE MAGNESIUM 24H</b>				
URINE MAGNESIUM 24H (Magnesium ur 24h)	M/F	<150 Y	3.0--5.0	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>				
METANEPHRINE 24 UR (Metanephrine)			<200	nmol/d
METANEPHRINE 24 UR (Normetanephrine)	F		<242	nmol/d
METANEPHRINE 24 UR (Normetanephrine)	M		<280	nmol/d



	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--830	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	<100 Y	20--96	nmol/L
<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>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<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

**ZINC**

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

ZINC PROTOPORPHYRIN-PRIVATE PAY (ZPP)	M/F	<100 Y	30-80	mcmol/mol
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**ZOPICLONE URINE**

Zopiclone Urine (Zopiclone)	M/F	<100Y	Negative	
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