

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

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

***Reference Intervals***

***Friday, August 16, 2019***

***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--120	pmol/L
<b>17OH PROGESTERONE</b>				
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
<b>25(OH) VITAMIN D</b>				
25(OH) VITAMIN D (25 OH VITAMIN D)	M/F	<100 Y	75-150	nmol/L
<b>5HIAA 24h URINE</b>				
HIAA 24h URINE (5HIAA)	M/F	<100 Y	<50	umol/d
<b>ACE</b>				
ACE	M/F	<150 Y	<79.1	U/L
<b>ACTH</b>				
ACTH	M/F	<100 Y	1.6--13.9	pmol/L
<b>ACTIVATED PTT</b>				
ACTIVATED PTT	M/F	<100 Y	25--36	s
<b>AFP TUMOR MARKER</b>				
AFP TUMOR MARKER (AFP)	M/F	<100 Y	<8.4	ug/L

	Sex	Age	Interval	Unit
<b>ALBUMIN</b>				
ALBUMIN	M/F	<150 Y	35-50	g/L

### ALCOHOL

ALCOHOL (Serum Alcohol)	M/F	<100	0--20 Negative	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100	21--46 Below Intoxication	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100	47--97 Mild Intoxication	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100	98--299 Intoxication	mg/dL
ALCOHOL (Serum Alcohol)	M/F	<100	> 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
<b>ALUMINUM RANDOM URINE</b>				
ALUMINUM RANDOM URINE (Aluminum Rand Ur)	M/F	<100 Y	5--30	mcg/L
<b>AMPHETAMINE URINE</b>				
AMPHETAMINE URINE (Amphetamines)	M/F	<100 Y	Negative	
<b>AMYLASE</b>				
AMYLASE	M/F	<150 Y	0-100	U/L
<b>ANCA</b>				
ANCA (ANCA IIF)			No reportable reference interval	
MPO PR3 (MPO)	M/F	<100 Y	<1.0	AI
MPO PR3 (PR3)	M/F	<100 Y	<1.0	AI

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

### ANION GAP

ANION GAP	M/F	<100 Y	10.1--19.9	
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### ANTI CCP

ANTI CCP (Anti-CCP)	M/F	<100 Y	<3.0	U/mL
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### ANTI TISSUE TRANSGLUTAMINASE

ANTI TISSUE TRANSGLUTAMINASE (TTG Antibody IgA)	M/F	<100 Y	<12.0	U/mL
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### ANTI-INSULIN ANTIBODIES

ANTI-INSULIN ANTIBODIES (Anti-Insulin Ab)	M/F	<100 Y	<0.4	kU/L
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	Sex	Age	Interval	Unit
<b>ANTI-MULLERIAN HORMONE</b>				
AMH	F	< 20 Y	AMH increases until puberty when it reaches and may exceed adult levels (8.7 - 83.6 pmol/L)	pmol/L
AMH	F	20 - 24 Y	8.7--83.6	pmol/L
AMH	F	25 - 29 Y	6.4--70.3	pmol/L
AMH	F	30 - 34 Y	4.1--58.0	pmol/L
AMH	F	35 - 39 Y	1.1--53.5	pmol/L
AMH	F	40 - 44 Y	0.2--39.1	pmol/L
AMH	F	45 - 100 Y	<19.4	pmol/L
AMH	M	<18 Y	AMH decreases until puberty, when it reaches the adult levels (10.2 - 82.8 pmol/L)	pmol/L
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
<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

	Sex	Age	Interval	Unit
<b>AST</b>				
AST	M/F	<1 Y	<72	U/L
AST	M/F	>= 1 Y	<36	U/L

### BENZODIAZEPINE URINE

BENZODIAZEPINE URINE (Benzodiazepines)	M/F	<100 Y	Negative	
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### BETA-2 GLYCOPROTEIN 1 ANTIBODIES IMMUNOGLOBU

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-Hydroxybutyrate

B-Hydroxybutyrate	M/F	<150 Y	<0.3	mmol/L
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### BICARBONATE

BICARBONATE	M/F	<150 Y	20-30	mmol/L
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### BILIRUBIN DIRECT

BILIRUBIN CONJUGATED (Conjugated Bili)	M/F	<=14 D	2-30	umol/L
BILIRUBIN CONJUGATED (Conjugated Bili)	M/F	>14 D	<8	umol/L

### BILIRUBIN TOTAL

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

	Sex	Age	Interval	Unit
<b>BIOAVAILABLE TESTOSTERONE</b>				
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
<b>BLOOD CADMIUM</b>				
BLOOD CADMIUM (Cadmium blood)	M/F	<100 Y	<44	nmol/L
<b>BLOOD MERCURY</b>				
BLOOD MERCURY (Mercury blood)	M/F	<100 Y	<29	nmol/L
<b>BNP</b>				
BNP	M/F	<150 Y	<100	ng/L
<b>BREATH HYDROGEN</b>				
BREATH HYDROGEN BASELINE (Br H2 Baseline)	M/F	<100 Y	<=20	uL/L
BREATH HYDROGEN 120m (Br H2 Incr@120 min)	M/F	<100 Y	<=20	uL/L
BREATH HYDROGEN 60m (Br H2 Incr@60 min)	M/F	<100 Y	<=20	uL/L
<b>C REACTIVE PROTEIN</b>				
C REACTIVE PROTEIN	M/F	<100 Y	<4.8	mg/L



	Sex	Age	Interval	Unit
<b>C TELEPEPTIDE RANDOM</b>				
CTX	F	>=18 Y	Premenopausal: 0.025 - 0.573 Postmenopausal: 0.104 - 1.008	ng/mL
CTX	M	50 - 69 Y	<0.704	ng/mL
CTX	M	>=70 Y	<0.854	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
<b>CA 125</b>				
CA 125	M/F	<100 Y	<36	kU/L
<b>CA 15-3</b>				
CA 15-3	M/F	<100 Y	<23	kU/L
<b>CA 19-9</b>				
CA 19-9	M/F	<100 Y	<27	kU/L
<b>CALCIUM</b>				
CALCIUM	M/F	<100 Y	2.10-2.60	mmol/L
<b>CALCIUM IONIZED</b>				
IONIZED CALCIUM	M/F	<100 Y	1.12--1.31	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

	Sex	Age	Interval	Unit
<b>CAROTENE</b>				
CAROTENE	M/F	<100 Y	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
<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 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

	Sex	Age	Interval	Unit
<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
<b>CORTISOL</b>				
CORTISOL (CORTISOL RANDOM)	M/F	<100 Y	Random cortisol should be interpreted in the context of the diurnal variation of cortisol.	nmol/L
<b>CORTISOL AM</b>				
CORTISOL AM (CORTISOL A.M.)	M/F	<150 Y	125-536	nmol/L
<b>CORTISOL PM</b>				
CORTISOL PM (Cortisol p.m.)	M/F	<100 Y	50--300	nmol/L

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

**CREATININE CLEARANCE 24h**

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	400-1600	ug/L
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**CYCLOSPORINE TROUGH**

CYCLOSPORINE TROUGH (CYCLOSPORINE)	M/F	<100 Y	75-340	ug/L
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	Sex	Age	Interval	Unit
<b>DHEA-S</b>				
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
<b>DHT</b>				
DHT	F	<100 Y	5 - 46	ng/dL
DHT	M	<100 Y	16 - 79	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

	Sex	Age	Interval	Unit
<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

### ESTRADIOL

ESTRADIOL	F	11 - 14 Y	<355	pmol/L
ESTRADIOL	F	Follicular $\geq 15$ Y	<913	pmol/L
ESTRADIOL	F	Mid-Cycle $\geq 15$ Y	140-2380	pmol/L
ESTRADIOL	F	Luteal $\geq 15$ Y	77-1145	pmol/L
ESTRADIOL	F	Postmenopausal $\geq 15$ 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

	Sex	Age	Interval	Unit
<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	12-152	ug/L
FERRITIN	F	>18 Y	5-247	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 (Fluoride Rand Ur)	M/F	<100 Y	<2	mcg/L
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### FREE T4

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)	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/F	6 - 10 Y	10.9-19.0	pmol/L
FREE T4 (T4 Free)	M/F	11 - 14 Y	10.0-16.9	pmol/L
FREE T4 (T4 Free)	M/F	15 - 20 Y	10.2-17.3	pmol/L
FREE T4 (T4 Free)	M/F	>20 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	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	16-18 Y	0.35--0.44	L/L
HEMATOLOGY PANEL (HEMATOCRIT)	F	=>19 Y	0.35 - 0.45	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	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	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	=>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	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	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	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	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	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	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	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	2 - 5 Y	0.33 - 0.39	L/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	6-11 Y	0.35--0.43	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
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)	F	12 - 15 Y	25.8 - 31.7	pg
HEMATOLOGY PANEL (MCH)	F	16 - 18 Y	25.0--33.8	pg
HEMATOLOGY PANEL (MCH)	F	=>19 Y	27.5--33.5	pg
HEMATOLOGY PANEL (MCH)	M	12 - 15 Y	5.8 - 31.7	pg
HEMATOLOGY PANEL (MCH)	M	16 - 18 Y	25.0--33.8	pg
HEMATOLOGY PANEL (MCH)	M	=>19 Y	27.5 - 33.5	pg
HEMATOLOGY PANEL (MCH)	M/F	1 - 6 D	31.0 - 37.0	pg
HEMATOLOGY PANEL (MCH)	M/F	7 - 13 D	28.0 - 40.0	pg
HEMATOLOGY PANEL (MCH)	M/F	14 - 29 D	28.0 - 40.0	pg
HEMATOLOGY PANEL (MCH)	M/F	1 M	28.0 - 40.0	pg
HEMATOLOGY PANEL (MCH)	M/F	2 M	26.0 - 34.0	pg
HEMATOLOGY PANEL (MCH)	M/F	3 - 5 M	24.0 - 31.0	pg

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (MCH)	M/F	6 M - 1 Y	25.8 - 31.7	pg
HEMATOLOGY PANEL (MCH)	M/F	2 - 5 Y	24.0 - 30.0	pg
HEMATOLOGY PANEL (MCH)	M/F	6 - 11 Y	25.8 - 31.7	pg
HEMATOLOGY PANEL (MCHC)	F	12 - 15 Y	305 - 365	g/L
HEMATOLOGY PANEL (MCHC)	F	16 - 18 Y	305 - 365	g/L
HEMATOLOGY PANEL (MCHC)	F	=>19 Y	300 - 370	g/L
HEMATOLOGY PANEL (MCHC)	M	12 - 15 Y	305 - 365	g/L
HEMATOLOGY PANEL (MCHC)	M	16 - 18 Y	305 - 365	g/L
HEMATOLOGY PANEL (MCHC)	M	=>19 Y	300 - 370	g/L
HEMATOLOGY PANEL (MCHC)	M/F	1 - 6 D	300--366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	7 - 13 D	300--366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	14 - 29 D	300 - 366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	1 M	280 - 360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	2 M	290 - 370	g/L
HEMATOLOGY PANEL (MCHC)	M/F	3 - 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 - 11 Y	305 - 365	g/L
HEMATOLOGY PANEL (MCV)	F	12-15 Y	77--92	fl
HEMATOLOGY PANEL (MCV)	F	16-18 Y	80--95	fl
HEMATOLOGY PANEL (MCV)	F	=>19 Y	82--98	fl
HEMATOLOGY PANEL (MCV)	M	12-15 Y	77--92	fl
HEMATOLOGY PANEL (MCV)	M	16-18 Y	80--95	fl
HEMATOLOGY PANEL (MCV)	M	=>19 Y	82--98	fl
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

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
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 - 11 Y	77--92	fl
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	4.20--5.40	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)	F	12 - 15 Y	11.6 - 14.8	%
HEMATOLOGY PANEL (RDW)	F	16 - 18 Y	11.2 - 14.8	%
HEMATOLOGY PANEL (RDW)	F	=>19 Y	11.5 - 14.5	%

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
HEMATOLOGY PANEL (RDW)	M	12 - 15 Y	11.6 - 14.8	%
HEMATOLOGY PANEL (RDW)	M	16 - 18 Y	11.2 - 14.8	%
HEMATOLOGY PANEL (RDW)	M	=>19 Y	11.5 - 14.5	%
HEMATOLOGY PANEL (RDW)	M/F	1 - 6 D	No established Reference Interval available. Adult range is 11.5 - 14.5 %.	%
HEMATOLOGY PANEL (RDW)	M/F	6 M - 1 Y	11.7 - 15.7	%
HEMATOLOGY PANEL (RDW)	M/F	2 - 5 Y	11.7 - 15.7	%
HEMATOLOGY PANEL (RDW)	M/F	6 - 11 Y	11.6 - 14.8	%
HEMATOLOGY PANEL (WBC)	F	12 - 15 Y	3.9 - 10.2	10*9/L
HEMATOLOGY PANEL (WBC)	F	16 - 18 Y	3.9 - 10.2	10*9/L
HEMATOLOGY PANEL (WBC)	F	=>19 Y	4.0--10.0	10*9/L
HEMATOLOGY PANEL (WBC)	M	12 - 15 Y	3.9 - 10.2	10*9/L
HEMATOLOGY PANEL (WBC)	M	16 - 18 Y	3.9 - 10.2	10*9/L
HEMATOLOGY PANEL (WBC)	M	=>19 Y	4.0--10.0	10*9/L
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 M	5.0 - 19.5	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	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 - 1 Y	5.3 - 16.0	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	2 - 5 Y	5.3 - 16.0	10*9/L
HEMATOLOGY PANEL (WBC)	M/F	6 - 11 Y	3.9 - 10.2	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 - 13 D	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	14 - 29 D	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	1 M	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	2 M	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	3 - 5 M	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	6 M - 1Y	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	2 - 5 Y	0.0 - 0.2	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	6 - 11 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	12 - 15 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (BASOPHILS)	M/F	16 - 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 - 6 D	0.2 - 0.6	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	7 - 13 D	0.2 - 0.6	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	14 - 29 D	0.2 - 0.8	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	1 M	0.2 - 0.8	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	2 M	0.2 - 0.8	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	3 - 5 M	0.2 - 0.8	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	6 M - 1Y	0.0 - 0.5	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	2 - 5 Y	0.0 - 0.5	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	6 - 11 Y	0.0 - 0.7	10*9/L
WBC DIFFERENTIAL (EOSINOPHILS)	M/F	12 - 15 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 - 6 D	No established Reference Interval available. Adult range is 0.0-0.1 10*9/L."	10*9/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	7 - 13 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	14 - 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 (IMMATURE GRANULOCYTES)	M/F	2 M	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	3 - 5 M	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	6 M - 1 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	2 - 5 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	6 - 11 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	12 - 15 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	16 - 18 Y	0.0 - 0.1	10*9/L
WBC DIFFERENTIAL (IMMATURE GRANULOCYTES)	M/F	=> 19 Y	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 - 13 D	2.0--17.0	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	14 - 29 D	2.0--17.0	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	1 M	2.5 - 16.5	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	2 M	2.5 - 16.5	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	3 - 5 M	2.5 - 16.5	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	6 M - 1 Y	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 - 15 Y	1.0 - 3.6	10*9/L
WBC DIFFERENTIAL (LYMPHOCYTES)	M/F	16 - 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 - 6 D	0.5 - 1.8	10*9/L



	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
WBC DIFFERENTIAL (MONOCYTES)	M/F	7 - 13 D	0.5 - 1.8	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	14 - 29 D	0.5 - 1.8	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	1 M	0.5 - 1.8	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	2 M	0.5 - 1.8	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	3 - 5 M	0.5 - 1.8	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	6 M - 1Y	0.0 - 0.9	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	2 - 5 Y	0.0 - 0.9	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	6 - 11 Y	0.1 - 0.7	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	12 - 15 Y	0.1 - 0.7	10*9/L
WBC DIFFERENTIAL (MONOCYTES)	M/F	16 - 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
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	14 - 29 D	1.0 - 9.5	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	1 M	1.0 - 9.0	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	2 M	1.0 - 9.0	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	3 - 5 M	1.0 - 9.0	10*9/L
WBC DIFFERENTIAL (NEUTROPHILS)	M/F	6 M - 1Y	1.5--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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	Sex	Age	Interval	Unit
<b>HEPATITIS B SURFACE AB</b>				
HEPATITIS B SURFACE AB (HEP B SURFACE AB)	M/F	<100 Y	Post-vaccine HBsAb levels of at least 10 IU/L are protective. Patients with lower levels are also considered immune if they have previously had a protective HBsAb level.	
<b>HGB INVESTIGATION</b>				
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	%
<b>HIPPURIC ACID URINE</b>				
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
<b>HLA-B27</b>				
HLA-B27	M/F	<100 Y	Negative	

**Sex Age****Interval****Unit****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)	M/F	<100 Y	<50	ng/mL
IMMUNO FAECAL OCCULT BLOOD (Immunochem. OB)	M/F	<100 Y	<50	ng/mL

### **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 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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**Sex Age**

**Interval**

**Unit**

**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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**JOINT FLUID PROTEIN**

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
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**JOINT FLUID RA**

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
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**Sex Age****Interval****Unit****JOINT FLUID URIC ACID**

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
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**LD**

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

**LDH ISOENZYMES**

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	

**Sex Age****Interval****Unit****LEAD BLOOD**

LEAD BLOOD	F	<=50 Y	<0.24	umol/L
LEAD BLOOD	F	51-100 Y	<1.45	umol/L
LEAD BLOOD	M	<=19 Y	<0.24	umol/L
LEAD BLOOD	M	20-100 Y	<1.45	umol/L

**LIPASE**

LIPASE	M/F	<100 Y	<75	U/L
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**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



**Sex Age****Interval****Unit****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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**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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	Sex	Age	Interval	Unit
<b>LUTEINIZING HORM</b>				
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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### 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

	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	

### **NICKEL PLASMA**

NICKEL PLASMA	M/F	<100 Y	< 2.0	mcg/L
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### **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	<100Y	32-256	nmol/L
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### **OPIATES URINE**

OPIATES URINE (Opiates)	M/F	<100 Y	Negative	
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	Sex	Age	Interval	Unit
<b>OSMOLALITY</b>				
OSMOLALITY	M/F	<=60 Y	270--295	mOsmol/kg
OSMOLALITY	M/F	>60 Y	280--300	mOsmol/kg
<b>PARATHYROID HORMONE</b>				
PARATHYROID HORMONE (PTH)	M/F	<100 Y	<7.0	pmol/L
<b>PARIETAL CELL AB</b>				
PARIETAL CELL AB (APCA TITRE)	M/F	<100 Y	Titre <1:20	
PARIETAL CELL AB	M/F	<100 Y	Negative	
<b>PEANUT COMPONENT PANEL</b>				
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
<b>PHENYTOIN</b>				
PHENYTOIN	M/F	<=3 M	24-55	umol/L
PHENYTOIN	M/F	4 M-100 Y	40--80	umol/L
<b>PHOSPHORUS</b>				
PHOSPHORUS	M/F	<=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

**Sex Age****Interval****Unit****POST VASECTOMY**

POST VASECTOMY (Sperm Estimate)	M	<100 Y	<100000	sperm/mL
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**POTASSIUM**

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

PROGESTERONE	F	<4 D	no range	nmol/L
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PROGESTERONE	F	4 D - 1 Y	<4.2	nmol/L
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PROGESTERONE	F	2 - 10 Y	<1.1	nmol/L
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PROGESTERONE	F	11 - 14 Y	0.4-2.7	nmol/L
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PROGESTERONE	F	Follicular $\geq$ 15 Y	< 1.6	nmol/L
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PROGESTERONE	F	Luteal $\geq$ 15 Y	<35.0	nmol/L
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PROGESTERONE	F	Post Menopausal/ Oral Contraceptive $\geq$ 15 Y	<1.8	nmol/L
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PROGESTERONE	M	<30 D	no range	nmol/L
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PROGESTERONE	M	30 D - 1 Y	<2.1	nmol/L
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PROGESTERONE	M	2 - 10 Y	<1.1	nmol/L
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PROGESTERONE	M	11 - 15 Y	0.4-2.7	nmol/L
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PROGESTERONE	M	>15 Y	0.4-1.8	nmol/L
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	Sex	Age	Interval	Unit
<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 Recommended therapeutic ranges: Warfarin treatment: 2.0-- 3.0 Mechanical Heart Valves: 2.5--3.5	
<b>PSA</b>				
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	
<b>RENIN</b>				
RENIN			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)	F/M	1 D - 5 M	No established Reference Interval available. Adult range is 2.0 - 13.1 %.	%
RETICULOCYTE COUNT (IMMATURE RETICULOCYTE FRACTION)	F/M	6 M - 5 Y	No established Reference Interval available. Adult range is 2.0 - 13.1 %.	%
RETICULOCYTE COUNT (IMMATURE RETICULOCYTE FRACTION)	F/M	6 Y - 18 Y	No established Reference Interval available. Adult range is 2.0 - 13.1 %.	%
RETICULOCYTE COUNT (IMMATURE RETICULOCYTE FRACTION)	F/M	=>19 Y	2.0--13.1	%
RETICULOCYTE COUNT (RETICULOCYTE HGB CONTENT)	M/F	1 D - 5 M	No established Reference Interval available. Adult Range is 28.6 - 36.3 pg.	pg
RETICULOCYTE COUNT (RETICULOCYTE HGB CONTENT)	M/F	6 M - 5 Y	No established Reference Interval available. Adult Range is 28.6 - 36.3 pg.	pg
RETICULOCYTE COUNT (RETICULOCYTE HGB CONTENT)	M/F	6 Y - 18 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

	Sex	Age	Interval	Unit
<b>REVERSE T3</b>				
REVERSE T3	M/F	<100 Y	8 - 25	ng/dL
<b>RHEUMATOID FACTOR</b>				
RHEUMATOID FACTOR	M/F	<150 Y	<12	kU/L
<b>SED RATE</b>				
ESR (WESTERGREN) (EST)	M/F	<100 Y	2--30	mm/hr
<b>SELENIUM</b>				
SELENIUM (Selenium serum)	M/F	>1 Y	1.20--2.09	umol/L
<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
<b>SEX HORMONE BINDING GLOBULIN</b>				
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

	Sex	Age	Interval	Unit
<b>SMOOTH MUSCLE AB</b>				
SMOOTH MUSCLE AB (ASMA TITRE)	M/F	<100 Y	Titre <1:20	
SMOOTH MUSCLE AB	M/F	<100 Y	Negative	
<b>SODIUM</b>				
SODIUM	M/F	<100 Y	135-145	mmol/L
<b>SOLUBLE TRANSFERRIN RECEPTOR</b>				
SOLUBLE TRANSFERRIN RECEPTOR AB (Transferrin Rcptr)	M/F	< 100 Y	0.76 - 1.76	mg/L
<b>SPECIFIC ALLERGEN IgE</b>				
SPECIFIC ALLERGEN IgE (SPECIFIC IGE)	M/F	<100 Y	<0.35	kU/L
<b>STOOL FAT QUANTITATIVE 24H</b>				
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
<b>STOOL FAT QUANTITATIVE 48H</b>				
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
<b>STOOL FAT QUANTITATIVE 72H</b>				
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

	Sex	Age	Interval	Unit
<b>T3 FREE</b>				
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	>= 19Y	2.60--5.80	pmol/L

### TACROLIMUS

TACROLIMUS	M/F	<100 Y	4.0--12.0	ug/L
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### TESTOSTERONE

TESTOSTERONE (TESTOSTERONE (T))	F	<13 Y	<1.8 Reference intervals are for adults.	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	F	13-50 Y	<1.8	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	F	>50 Y	<1.5	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	<13Y	8.4--28.8 Reference intervals are for adults.	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	13-100 Y	8.4--28.8	nmol/L

### 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
<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
<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	3.8 - 11.4	ug/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<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	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	0.70-1.47	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/F	>20 Y	0.32-5.04	mU/L

### **UREA**

UREA	M/F	<100 Y	2.0-9.0	mmol/L
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### **URIC ACID**

URIC ACID	F	<100 Y	140-360	umol/L
URIC ACID	M	<100 Y	150-430	umol/L

### **URINE ALBUMIN 24H**

URINE MICROALBUMIN 24H (Albumin urine 24h)	M/F	<150 Y	<30	mg/d
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### **URINE ALBUMIN QNT**

URINE MICROALBUMIN QNT (ACR)	F	<150 Y	<2.8	mg/mmol
URINE MICROALBUMIN QNT (ACR)	M	<150 Y	<2.0	mg/mmol

### **URINE ALDOSTERONE 24H**

URINE ALDOSTERONE 24H (UR ALDOSTERONE)	M/F	< 150 Y	10-39	nmol/d
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	Sex	Age	Interval	Unit
<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	
<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	400--3300	nmol/d
URINE CATECHOLAMINES 24H (Epinephrine)	M/F	<100 Y	<90	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



	Sex	Age	Interval	Unit
<b>URINE CITRATE 24H</b>				
URINE CITRATE 24H (Citrate urine 24h)	M/F	<100 Y	0.7--4.9	mmol/d
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
<b>URINE MACROSCOPIC</b>				
URINE MACROSCOPIC (SPECIFIC GRAVITY)	M/F	<100 Y	1.003--1.035	
URINE MACROSCOPIC (URINE GLUCOSE)	M/F	<100 Y	<6	mmol/L
URINE MACROSCOPIC (URINE HEMOGLOBIN)	M/F	<100 Y	Neg	
URINE MACROSCOPIC (URINE KETONES)	M/F	<100 Y	<1.5	mmol/L
URINE MACROSCOPIC (URINE LEUKOCYTES)	M/F	<100 Y	Neg	
URINE MACROSCOPIC (URINE NITRITE)	M/F	<100 Y	Neg	
URINE MACROSCOPIC (URINE PH)	M/F	<100 Y	5.0--8.5	
URINE MACROSCOPIC (URINE PROTEIN)	M/F	<100 Y	<0.3	g/L

	<b>Sex</b>	<b>Age</b>	<b>Interval</b>	<b>Unit</b>
<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 24h UR (Metanephrine)	M/F	<100 Y	<0.20	umol/d
METANEPHRINE 24h UR (Normetanephrine)	M/F	<100 Y	<0.40	umol/d
<b>URINE MICROSCOPIC</b>				
URINE MICROSCOPIC (BROAD CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (EPITHELIAL CASTS)	M/F	<100 Y	0-1	/LPF
URINE MICROSCOPIC (FAT)	M/F	<100 Y	None present	
URINE MICROSCOPIC (FATTY CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (GRANULAR CASTS)	M/F	<100 Y	0-1	/LPF
URINE MICROSCOPIC (HYALINE CASTS)	M/F	<100 Y	0-5	/LPF
URINE MICROSCOPIC (MIXED CELL CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (NON-SQUAMOUS EPI)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (RBC CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (RENAL EPITHELIAL)	M/F	<100 Y	0-1	/HPF
URINE MICROSCOPIC (TRANSITIONAL EPI)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (URINE RBC)	M/F	<100 Y	0-3	/HPF
URINE MICROSCOPIC (URINE WBC)	M/F	<100 Y	0-5	/HPF
URINE MICROSCOPIC (WAXY CASTS)	M/F	<100 Y	None present	/LPF
URINE MICROSCOPIC (WBC CASTS)	M/F	<100 Y	None present	/LPF
<b>URINE OPIATES CONFIRM IF POS</b>				
OPIATES URINE (Opiates)	M/F	<100 Y	Negative	

**Sex Age****Interval****Unit****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 - 150 Y	40-340	umol/d
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URINE OXALATE 24H (Oxalate urine 24h)	F	13 - 150 Y	40--340	umol/d
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URINE OXALATE 24H (Oxalate urine 24h)	F	13 - 150 Y	40-340	umol/d
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URINE OXALATE 24H (Oxalate urine 24h)	M	13 - 150 Y	80--490	umol/d
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URINE OXALATE 24H (Oxalate urine 24h)	M	13 - 150 Y	80-490	umol/d
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URINE OXALATE 24H (Oxalate urine 24h)	M	13 - 150 Y	80-490	umol/d
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**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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**URINE PROTEIN 12H**

URINE PROTEIN 12H (Protein urine 12h)	M/F	<150 Y	<0.15	g/L
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**URINE PROTEIN ELECTROPHORESIS 24H**

Protein Urine 24h	M/F	<100 Y	<0.15	g/d
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URINE CREATININE 24H (Creatinine 24h)	F	>=16 Y	5.0--16.0	mmol/d
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URINE CREATININE 24H (Creatinine 24h)	M	>=16 Y	7.0--18.0	mmol/d
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**URINE PROTEIN/CREAT RATIO**

URINE PROTEIN/CREAT (Prot/Creat ratio)	M/F	<150 Y	<30.0	g/mol
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URINE PROTEIN/CREAT (Prot/Creat ratio)	M/F	<100 Y	<30	g/mol
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	Sex	Age	Interval	Unit
<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--22-	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
<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

	Sex	Age	Interval	Unit
<b>VITAMIN B1</b>				
VITAMIN B1	M/F	<150 Y	8--30	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>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

	Sex	Age	Interval	Unit
<b>ZOPICLONE URINE</b>				
Zopiclone Urine (Zopiclone)	M/F	<100Y	Negative	