

LifeLabs Clinical Laboratories

Burnaby Reference Laboratory

3680 Gilmore Way

Burnaby, B.C. V5G 4V8

Reference Intervals

Thursday, April 27, 2023

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

	Sex	Age	Interval	Unit
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

11-DEOXYCORTISOL

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

17OH PROGESTERONE

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

25(OH) VITAMIN D

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

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

ACE	M/F	<100 Y	<79.1	U/L
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	Sex	Age	Interval	Unit
ACTH				
ACTH	M/F	<100 Y	1.6--13.9	pmol/L
ACTIVATED PTT				
ACTIVATED PTT	M/F	<100 Y	27--38	s
AFP TUMOR MARKER				
AFP TUMOR MARKER (AFP)	M/F	<100 Y	<8.4	ug/L
ALBUMIN				
ALBUMIN	M/F	<150 Y	35-50	g/L
ALDOSTERONE				
ALDOSTERONE	M/F	<100 Y	90-1000	pmol/L
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

Sex Age**Interval****Unit****ALPHA 1 ANTITRYPSIN**

ALPHA 1 ANTITRYPSIN (A 1 Antitrypsin)	M/F	<150 Y	0.9-2.18	g/L
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ALT

ALT	F	>=1 Y	<36	U/L
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ALT	M	>=1 Y	<50	U/L
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ALT	M/F	<1 Y	<60	U/L
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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
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ANDROSTENEDIONE	F	15-18 Y	0.48--6.45	nmol/L
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ANDROSTENEDIONE	F	>18 Y	Pre-menopausal 0.91--7.47	nmol/L
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ANDROSTENEDIONE	F	>18 Y	Post-menopausal 0.45--2.86	nmol/L
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ANDROSTENEDIONE	M	12-14 Y	0.51--2.01	nmol/L
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ANDROSTENEDIONE	M	15-18 Y	0.87--3.55	nmol/L
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ANDROSTENEDIONE	M	>18 Y	0.80--3.11	nmol/L
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ANDROSTENEDIONE	M/F	< 14 D	<2.54	nmol/L
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ANDROSTENEDIONE	M/F	1-5 Y	<0.568	nmol/L
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ANDROSTENEDIONE	M/F	14 D - 365D	<5.7	nmol/L
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ANDROSTENEDIONE	M/F	6-9 Y	<0.917	nmol/L
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ANDROSTENEDIONE	M/F	10-11 Y	<2.54	nmol/L
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	Sex	Age	Interval	Unit
ANION GAP				
ANION GAP	M/F	<100 Y	8-17	
ANTI CCP				
ANTI CCP (Anti-CCP)	M/F	<100 Y	<3.0	U/mL
ANTI ISLET CELL ANTIBODY				
ANTI ISLET CELL ANTIBODY (Islet Cell Ab Scn)	M/F	<100 Y	Negative	
ANTI ISLET CELL ANTIBODY (Reflex Titre)	M/F	<100 Y	<1.25	JDF Units
ANTI TISSUE TRANSGLUTAMINASE				
ANTI TISSUE TRANSGLUTAMINASE (TTG Antibody IgA)	M/F	<100 Y	<12.0	U/mL
ANTI-INSULIN ANTIBODIES				
ANTI-INSULIN ANTIBODIES (Anti-Insulin Ab)	M/F	<100 Y	<0.4	kU/L

	Sex	Age	Interval	Unit
ANTI-MULLERIAN HORMONE				
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
ANTITHROMBIN				
ANTITHROMBIN III (ANTITHROMBIN)	M/F	<100 Y	=>0.80	U/mL
APOLIPO A-1				
APOLIPO A-1 (APO A-1)	F	<150 Y	1.10-2.30	g/L
APOLIPO A-1 (APO A-1)	M	<150 Y	1.00-2.00	g/L
APOLIPO B-100				
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
ARSENIC				
ARSENIC (Arsenic blood)	M/F	<100 Y	<930	nmol/L

	Sex	Age	Interval	Unit
AST				
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	
BETA-2 GLYCOPROTEIN 1 ANTIBODIES IMMUNOGLOBULI				
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
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
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
BLOOD MERCURY				
BLOOD MERCURY (Mercury blood)	M/F	<100 Y	<29	nmol/L
BNP				
BNP	M/F	<150 Y	<100	ng/L
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
C REACTIVE PROTEIN				
C REACTIVE PROTEIN	M/F	<100 Y	<5.0	mg/L

	Sex	Age	Interval	Unit
C TELEPEPTIDE 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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CALCIUM

CALCIUM	M/F	<100 Y	2.10-2.60	mmol/L
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	Sex	Age	Interval	Unit
CALCIUM IONIZED				
IONIZED CALCIUM	M/F	<100 Y	1.15--1.40	mmol/L
CARBAMAZEPINE				
CARBAMAZEPINE	M/F	<100 Y	17-51	umol/L
CARBON DIOXIDE				
Carbon Dioxide (Bicarbonate)	M/F	<100 Y	20-30	mmol/L
CARDIOLIPIN AB				
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
CAROTENE				
CAROTENE	M/F	<100Y	1.0--4.0	umol/L
CEA PP				
CEA PP (CEA ROCHE)	M/F	<150 Y	<4.7	ug/L
CERULOPLASMIN				
CERULOPLASMIN	F	<100 Y	0.20-0.45	g/L
CERULOPLASMIN	M	<100 Y	0.19-0.31	g/L
CHLORIDE				
CHLORIDE	M/F	<100 Y	102-113	mmol/L
CHOLESTEROL				
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
CHOLINESTERASE PLASMA				
CHOLINESTERASE PLASMA	M/F	<100 Y	2600-6900	U/L
CHOLINESTERASE RBC				
CHOLINESTERASE RBC	M/F	<100 Y	5300-10000	U/L
CHROMIUM				
CHROMIUM	M/F	<100 Y	<=1.2	mcg/L
CHROMIUM RANDOM URINE				
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
CLOZAPINE				
CLOZAPINE	M/F	<100 Y	300--2100	nmol/L
COBALT RANDOM URINE				
COBALT RANDOM URINE (Cobalt Rand Ur)	M/F	<100 Y	<2.0	mcg/L
COCAINE URINE				
COCAINE URINE (Cocaine)	M/F	<100 Y	Negative	
COMPLEMENT C3				
COMPLEMENT C3	M/F	<150 Y	1.00-1.90	g/L
COMPLEMENT C4				
COMPLEMENT C4	M/F	<150 Y	0.09-0.50	g/L
COPPER				
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	80-535	nmol/L
CORTISOL AM				
CORTISOL AM (CORTISOL A.M.)	M/F	<100 Y	140-535	nmol/L
CORTISOL AM FOLLOWING DEX				
DEXAM (Cortisol a.m.)	M/F	<100 Y	<130 The reference interval is for low dose dexamethasone (1mg).	nmol/L
CORTISOL PM				
CORTISOL PM (CORTISOL P.M.)	M/F	<100 Y	80-477	nmol/L
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
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--1400	ug/L
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CYCLOSPORINE TROUGH

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

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

DHEA-S (DHEAS-S)	F	<= 5Y	<1.5	umol/L
DHEA-S (DHEAS-S)	F	6 - 10 Y	<6.1	umol/L
DHEA-S (DHEAS-S)	F	11 - 15 Y	<12.3	umol/L
DHEA-S (DHEAS-S)	F	16 - 44 Y	<10.8	umol/L
DHEA-S (DHEAS-S)	F	45 - 75 Y	<6.7	umol/L
DHEA-S (DHEAS-S)	F	>75 Y	<4.3	umol/L
DHEA-S (DHEAS-S)	M	<= 5Y	<2.4	umol/L
DHEA-S (DHEAS-S)	M	6 - 10 Y	<6.1	umol/L
DHEA-S (DHEAS-S)	M	11 - 15 Y	<7.7	umol/L
DHEA-S (DHEAS-S)	M	16 - 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
DHT				
DHT	F	Cord Blood	<= 0.17	nmol/L
DHT	F	<= 6 M	<= 4.13	nmol/L
DHT	F	Tanner Stage I >6 M and prepubertal	<= 0.17	nmol/L
DHT	F	Tanner Stage II-V	<= 1.02	nmol/L
DHT	F	20-55 Y	<=1.03	nmol/L
DHT	F	>55 Y	<= 0.44	nmol/L
DHT	M	Cord blood	<= 0.34	nmol/L
DHT	M	<6 M	<= 4.13	nmol/L
DHT	M	Tanner Stage I >6 M and prepubertal	<= 0.17	nmol/L
DHT	M	Tanner Stage II	<= 0.69	nmol/L
DHT	M	Tanner Stage III	0.28 - 1.14	nmol/L
DHT	M	Tanner Stage IV	0.76 - 1.79	nmol/L
DHT	M	Tanner Stage V	0.83 - 2.24	nmol/L
DHT	M	>19 Y	0.39 - 3.20	nmol/L

DIGOXIN

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

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

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

DNA AB

DNA AB (ANTI DNA)	M/F	<100 Y	<=4	IU/mL
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	Sex	Age	Interval	Unit
ENA				
ENA BREAKDOWN (Jo-1)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (RNP)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (Scl-70)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (Sm)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (SS-A)	M/F	<100 Y	<1.0	AI
ENA BREAKDOWN (SS-B)	M/F	<100 Y	<1.0	AI

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

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

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

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

FIBRINOGEN

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

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

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

GAD-65 ANTIBODIES

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

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

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

GLUCOSE

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

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

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

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

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

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

HDL CHOLESTEROL (HDL-Cholesterol)	F	>= 18 Y	>1.19	mmol/L
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HDL CHOLESTEROL (HDL-Cholesterol)	M	>= 18 Y	>0.99	mmol/L
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HDL CHOLESTEROL (HDL-Cholesterol)	M/F	3 - 17 Y	>1.09	mmol/L
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	Sex	Age	Interval	Unit
HEMATOLOGY PANEL				
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

	Sex	Age	Interval	Unit
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

	Sex	Age	Interval	Unit
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	%

	Sex	Age	Interval	Unit
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

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

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

HEMOGLOBIN A1C

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

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

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

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

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

HIPPURIC ACID URINE

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

HLA-B27

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

HOMOCYSTEINE	M/F	<100 Y	5.1 - 15.4	umol/L
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	Sex	Age	Interval	Unit
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

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

	Sex	Age	Interval	Unit
IgM				
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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INSULIN TOLERANCE TEST

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

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

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

JOINT FLUID GLUCOSE

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

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

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

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

	Sex	Age	Interval	Unit
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

LDH ISOENZYMES

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

LEAD BLOOD

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

LIPASE	M/F	<150 Y	<75	U/L
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Sex Age**Interval****Unit****LIPID PROFILE FULL**

CHOLESTEROL	M/F	<= 18 Y	2.00-4.39	mmol/L
CHOLESTEROL	M/F	19 - 29 Y	2.00-4.59	mmol/L
CHOLESTEROL	M/F	>=30 Y	2.00-5.19	mmol/L

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

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

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

LIPID PROFILE PARTIAL

CHOLESTEROL	M/F	<= 18 Y	2.00-4.39	mmol/L
CHOLESTEROL	M/F	19 - 29 Y	2.00-4.59	mmol/L
CHOLESTEROL	M/F	>=30 Y	2.00-5.19	mmol/L

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

LIPOPROTEIN (a)

LIPOPROTEIN (a) (Lp (a))	M/F	<100 Y	<100	nmol/L
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Sex Age**Interval****Unit****LITHIUM**

LITHIUM	M/F	<=59 Y	0.6-1.2	mmol/L
LITHIUM	M/F	60 - 79 Y	0.4-0.8	mmol/L
LITHIUM	M/F	=>80 Y	0.4-0.7	mmol/L

Lp-PLA2

Lp-PLA2 (LP-PLA2 ACTIVITY)	M/F	<100 Y	<=123	nmol/min/m
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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	<100 Y	0.64-0.98	mmol/L
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	Sex	Age	Interval	Unit
MAGNESIUM RBC				
MAGNESIUM RBC	M/F	<100 Y	4.0-6.4	mg/dL
MAGNESIUM RBC	M/F	<100 Y	4.0-6.4	mg/dL

MANGANESE BLOOD

MANGANESE BLOOD	M/F	<100 Y	5--18	mcg/L
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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

MANGANESE URINE

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

METHYLMALONIC ACID PLASMA

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

MITOCHONDRIAL AB

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

	Sex	Age	Interval	Unit
MPO PR3				
MPO PR3 (MPO)	M/F	<100 Y	<1.0	AI
MPO PR3 (PR3)	M/F	<100 Y	<1.0	AI
MYELOPEROXIDASE				
MYELOPEROXIDASE	M/F	<100 Y	<470	pmol/L
NICKEL PLASMA				
NICKEL PLASMA	M/F	<100 Y	< 2.0	mcg/L
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
OPIATES URINE				
OPIATES URINE (Opiates)	M/F	<100 Y	Negative	
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
PARIETAL CELL AB				
PARIETAL CELL AB (APCA TITRE)	M/F	<100 Y	Titre <1:20	
PARIETAL CELL AB	M/F	<100 Y	Negative	

	Sex	Age	Interval	Unit
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

PENTACHLOROPHENOL

PENTACHLOROPHENOL	M/F	<100 Y	Pentachlorophenol in the general population is usually less than 0.04 mcg/mL in serum. The blood to plasma ratio is 0.5.	mcg/mL
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PHENOBARBITAL

PHENOBARBITAL	M/F	<100 Y	43--172	umol/L
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PHENYTOIN

PHENYTOIN	M/F	<100 Y	40--80	umol/L
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PHOSPHORUS

PHOSPHORUS	M/F	<= 30D	0.8-1.5	mmol/L
PHOSPHORUS	M/F	1 - 12 M	1.4-3.0	mmol/L
PHOSPHORUS	M/F	> 1 Y	0.8-1.5	mmol/L

PLASMA POTASSIUM

Plasma Potassium	M/F	<100 Y	3.4-5.0	mmol/L
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POST VASECTOMY

POST VASECTOMY (Sperm Estimate)	M	<100 Y	<100000	sperm/mL
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Sex Age**Interval****Unit****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	Follicular ≥ 11 Y	<1.7	nmol/L
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PROGESTERONE	F	Luteal ≥ 11 Y	2.2 - 60	nmol/L
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PROGESTERONE	F	Post Menopausal ≥ 11 Y	<0.7	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	<2.8	nmol/L
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PROGESTERONE	M	>15 Y	<1.9	nmol/L
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PROLACTIN

PROLACTIN	F	<12 M	3.3-110.0	ug/L
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PROLACTIN	F	1 - 5 Y	3.9-32.0	ug/L
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PROLACTIN	F	6 - 10 Y	2.9-35.0	ug/L
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PROLACTIN	F	11 - 14 Y	4.2-23.0	ug/L
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PROLACTIN	F	15 - 20 Y	4.2-23.0	ug/L
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PROLACTIN	F	>20 Y	4.2-28.2	ug/L
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PROLACTIN	M	<12 M	3.3-110.0	ug/L
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PROLACTIN	M	1 - 5 Y	3.9-32.0	ug/L
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PROLACTIN	M	6 - 10 Y	2.9-35.0	ug/L
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PROLACTIN	M	11 - 14 Y	3.5-16.3	ug/L
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PROLACTIN	M	15 - 20 Y	4.6-21.0	ug/L
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PROLACTIN	M	>20 Y	3.8-20.6	ug/L
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	Sex	Age	Interval	Unit
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
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
PROTEIN S ACTIVITY				
PROTEIN S (PROTEIN S ACTIVITY)	F	<100 Y	=>0.60	U/mL
PROTEIN S (PROTEIN S ACTIVITY)	M	<100 Y	=>0.65	U/mL
PROTEIN TOTAL				
PROTEIN TOTAL	M/F	<100 Y	60-80	g/L

	Sex	Age	Interval	Unit
PROTHROMBIN TIME				
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.	

PSA				
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

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

	Sex	Age	Interval	Unit
QUANTIFERON TB GOLD 1 TUBE				
QUANTIFERON TB GOLD 1 TUBE (QUANTIFERON GOLD)	M/F	<100 Y	NEGATIVE	
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
RETICULOCYTE COUNT				
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

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

SELENIUM

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

SEMEN ANALYSIS

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

SEX HORMONE BINDING GLOBULIN

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

SMOOTH MUSCLE AB

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

Sex Age**Interval****Unit****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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SPECIFIC ALLERGEN IgE

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

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

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

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

TACROLIMUS

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

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

THEOPHYLLINE

THEOPHYLLINE	M/F	<100 Y	55--110	umol/L
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	Sex	Age	Interval	Unit
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
THYROGLOBULIN AB				
THYROGLOBULIN AB	M/F	<100 Y	<40	IU/mL
THYROID PEROXIDASE AB				
THYROID PEROXIDASE AB (anti-TPO)	M/F	<100 Y	<35	IU/mL
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

	Sex	Age	Interval	Unit
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	<11.0	mcg/L

	Sex	Age	Interval	Unit
TSH				
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
UREA				
UREA	M/F	<100 Y	2.0-9.0	mmol/L

	Sex	Age	Interval	Unit
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
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
URINE AMPHETAMINE CONFIRM IF POS				
AMPHETAMINE URINE (Amphetamines)	M/F	<100 Y	Negative	
URINE AMYLASE				
AMYLASE URINE (Amylase Urine Random)	M/F	<150 Y	<500	U/L
URINE ARSENIC 24H				
ARSENIC URINE 24H	M/F	<100 Y	<1600	nmol/d
URINE BENZODIAZEPINE CONFIRM IF POS				
BENZODIAZEPINE URINE (Benzodiazepines)	M/F	<100 Y	Negative	
URINE CALCIUM 24H				
URINE CALCIUM 24H (Calcium urine 24h)	M/F	<150 Y	1.0--7.0	mmol/d
URINE CALCIUM/CREATININE RATIO				
URINE CAL/CRE RATIO (Calcium/Creat rdm)	M/F	<150 Y	0.01--0.39	

	Sex	Age	Interval	Unit
URINE CALCIUM/CREATININE RATIO 2H				
URINE CAL/CRE RATIO 2H (Ca/Creat 2h ratio)	M/F	<150 Y	0.01--0.39	
URINE CATECHOLAMINES 24H				
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
URINE CHLORIDE 24H				
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
URINE CITRATE 24H				
URINE CITRATE 24H (Citrate urine 24h)	M/F	<100 Y	0.7--4.9	mmol/d
URINE COCAINE CONFIRM IF POS				
COCAINE URINE (Cocaine)	M/F	<100 Y	Negative	
URINE COPPER 24H				
URINE COPPER 24h (Copper urine 24h)	M/F	<100 Y	<0.94	umol/d
URINE CORTISOL 24H				
CORTISOL 24h URINE (Urine Cortisol)	F	18-100 Y	8--119	nmol/d
CORTISOL 24h URINE (Urine Cortisol)	M	18-100 Y	12--166	nmol/d
URINE CREATININE 24H				
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
URINE GLUCOSE 24h				
URINE GLUCOSE 24H (Glucose urine 24h)	M/F	<150 Y	<1.0	mmol/d

	Sex	Age	Interval	Unit
URINE LEAD 24H				
URINE LEAD 24H (Lead urine 24h)	M/F	<100 Y	<0.39	umol/d
URINE MACROSCOPIC				
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
URINE MAGNESIUM 24H				
URINE MAGNESIUM 24H (Magnesium ur 24h)	M/F	<150 Y	3.0--5.0	mmol/d
URINE MERCURY 24H				
URINE MERCURY 24H (Mercury urine 24h)	M/F	<100 Y	<50	nmol/d
URINE METANEPHRINE 24H				
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
URINE MICROSCOPIC				
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
URINE PROTEIN 12H				
URINE PROTEIN 12H (Protein urine 12h)	M/F	<150 Y	<0.15	g/L
URINE PROTEIN ELECTROPHORESIS 24H				
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
URINE PROTEIN/CREAT RATIO				
URINE PROTEIN/CREAT (Prot/Creat ratio)	M/F	<100 Y	<30	g/mol
URINE PROTEIN/CREAT RATIO 24H				
URINE PROTEIN/CREAT 24H (Prot/Creat 24h)	M/F	<100 Y	<30	g/mol
URINE SODIUM 24H				
URINE SODIUM 24H (Sodium urine 24h)	M/F	<150 Y	40--220	mmol/d
URINE THALLIUM 24H				
THALLIUM URINE 24H	M/F	<100 Y	<49	nmol/d
URINE UREA 24H				
URINE UREA 24H (Urea urine 24h)	M/F	<150 Y	180--610	mmol/d
URINE URIC ACID 24H				
URINE URIC ACID 24H (Uric Acid ur 24h)	M/F	<150 Y	<5.9	mmol/d
URINE VMA 24H				
VMA 24H URINE (VMA)	M/F	<100 Y	<38	umol/d
URINE ZINC 24H				
URINE ZINC 24h (Zinc urine 24h)	M/F	<100 Y	1.5-9.2	nmol/d

	Sex	Age	Interval	Unit
VALPROIC ACID				
VALPROIC ACID	M/F	<100 Y	350-700	umol/L

VANADIUM RANDOM URINE

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

VITAMIN A

VITAMIN A	M/F	<100 Y	1.2 - 2.8	umol/L
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VITAMIN B1

VITAMIN B1	M/F	<100 Y	78-185	nmol/L
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VITAMIN B12

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

VITAMIN B6

VITAMIN B6	M/F	<=1 Y	No established reference range	ng/mL
VITAMIN B6	M/F	2-17 Y	3.0-35.0	ng/mL
VITAMIN B6	M/F	=>18 Y	2.1-21.7	ng/mL

VITAMIN C

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

	Sex	Age	Interval	Unit
VITAMIN E				
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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