

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

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Reference Intervals

Monday, March 01, 2010

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

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

1,25(OH)2 VITAMIN D (1 25-(OH)2 VIT D)	M/F	<100 Y	40--190	pmol/L
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17OH PROGESTERONE

17OH PROGESTERONE (17OH PROG)	F	Prepubertal	<3.0	nmol/L
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17OH PROGESTERONE (17OH PROG)	F	Follicular	0.3--4.0	nmol/L
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17OH PROGESTERONE (17OH PROG)	F	Luteal	<13.0	nmol/L
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17OH PROGESTERONE (17OH PROG)	M	10-100 Y	0.8--8.8	nmol/L
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17OH PROGESTERONE (17OH PROG)	M/F	<10 Y	<3.0	nmol/L
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1H GESTATIONAL SCREEN

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

25(OH) VITAMIN D (25 OH VITAMIN D)	M/F	<100 Y	25-135	nmol/L
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ACE

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

ACTH	M/F	<100 Y	<15	pmol/L
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ACTIVATED PTT

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

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

ALBUMIN	M/F	<100 Y	35--50	g/L
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Sex Age**Interval****Unit****ALCOHOL**

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

ALKALINE PHOSPHATASE

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

ALPHA 1 ANTITRYPSIN

ALPHA 1 ANTITRYPSIN (A 1 Antitrypsin)	M/F	<100 Y	0.88--2.20	g/L
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Sex Age**Interval****Unit****ALT**

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

AMPHETAMINE URINE

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

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

ANA	M/F	<100 Y	Titre <1:80	
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	Sex	Age	Interval	Unit
ANCA				
ANCA (ANCA IIF)			No reportable reference interval	
MPO	M/F	<100 Y	<20	RU/mL
MPO (PR3)	M/F	<100 Y	<20	RU/mL
ANDROSTENEDIONE				
ANDROSTENEDIONE	F	11-59 Y	1.6-8.8	nmol/L
ANDROSTENEDIONE	F	60-150 Y	<3.5	nmol/L
ANDROSTENEDIONE	M	11-150 Y	1.6-8.8	nmol/L
ANDROSTENEDIONE	M/F	<11 Y	<1.1	nmol/L
ANION GAP				
ANION GAP	M/F	<100 Y	10.1--19.9	
ANTI TISSUE TRANSGLUTAMINASE				
ANTI TISSUE TRANSGLUTAMINASE (TTG ANTIBODY IGA)	M/F	<100 Y	<20	Units
APOLIPO B-100				
APOLIPO B-100 (APO B-100)	M/F	Risk Category High	<0.85	g/L
APOLIPO B-100 (APO B-100)	M/F	Risk Category Moderate	<1.05	g/L
APOLIPO B-100 (APO B-100)	M/F	Risk Category Low	<1.50	g/L
ARSENIC				
ARSENIC (Arsenic blood)	M/F	<100 Y	<930	nmol/L
AST				
AST	M/F	<=29 Y	<30	U/L
AST	M/F	30-100 Y	<35	U/L

Sex Age**Interval****Unit****B2 MICROGLOBULIN**

B2 MICROGLOBULIN (B 2 MICROGLOBULIN)	M/F	<=60 Y	<205	nmol/L
B2 MICROGLOBULIN (B 2 MICROGLOBULIN)	M/F	61-100 Y	<255	nmol/L

BARBITURATE URINE

BARBITURATE URINE (Barbiturate)	M/F	<100 Y	Negative	
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BENZODIAZEPINE URINE

BENZODIAZEPINE URINE (Benzodiazepine)	M/F	<100 Y	Negative	
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BICARBONATE

BICARBONATE	M/F	<100 Y	20--29	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	>14 D	<20	umol/L

	Sex	Age	Interval	Unit
BIOAVAILABLE TESTOSTERONE				
BAT (BIOAVAILABLE T)	F	Premenopausal	<2	nmol/L
BAT (BIOAVAILABLE T)	F	Menopausal	<0.7	nmol/L
BAT (BIOAVAILABLE T)	F	Post Menopausal	<0.7	nmol/L
BAT (BIOAVAILABLE T)	F	<= 10 Y	<2	nmol/L
BAT (BIOAVAILABLE T)	M	< 100 Y	5--20	nmol/L
BAT (FREE T calculated)	F	Premenopausal	<70	pmol/L
BAT (FREE T calculated)	F	Menopausal	<25	pmol/L
BAT (FREE T calculated)	F	Oral Contraceptives	<25	pmol/L
BAT (FREE T calculated)	F	<= 10 Y	<70	pmol/L
BAT (FREE T calculated)	M	< 100 Y	200--800	pmol/L

BLOOD CADMIUM

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

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

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

BH 120 MIN (Br H2 Incr@120 min)	M/F	< 100 Y	<= 20	ul/L
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BH 60 MIN (Br H2 Incr@60 min)	M/F	< 100 Y	<= 20	ul/L
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BREATH HYDROGEN BASELINE (Br H2 Baseline)	M/F	< 100 Y	<= 20	ul/L
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C REACTIVE PROTEIN

C REACTIVE PROTEIN	M/F	< 100 Y	< 5.0	mg/L
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Sex Age**Interval****Unit****CA 125**

CA 125 (CA125)	M/F	< 100 Y	< 26	kU/L
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CA 15-3

CA 15-3 (CA15-3)	M/F	< 100 Y	< 45	kU/L
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CA 19-9

CA 19-9 (CA19-9)	M/F	< 100 Y	< 37	kU/L
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CALCIUM

CALCIUM	M/F	< 100 Y	2.10--2.55	mmol/L
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CALCIUM IONIZED

IONIZED CALCIUM (CALCIUM FREE)	M/F	< 100 Y	1.15--1.35	mmol/L
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CARBAMAZEPINE

CARBAMAZEPINE	M/F	< 100 Y	17-51	umol/L
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CARDIOLIPIN AB

CARDIOLIPIN AB (IGG CARDIOLIPIN AB)	M/F	< 100 Y	< 12 Negative	GPL Units
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CARDIOLIPIN AB (IGG CARDIOLIPIN AB)	M/F	< 100 Y	= > 12 Positive	GPL Units
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CARDIOLIPIN AB (IGM CARDIOLIPIN AB)	M/F	< 100 Y	= > 12 Positive	MPL Units
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CARDIOLIPIN AB (IGM CARDIOLIPIN AB)	M/F	< 100 Y	< 12 Negative	MPL Units
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CERULOPLASMIN

CERULOPLASMIN	M/F	< = 42 D	0.14--0.41	g/L
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CERULOPLASMIN	M/F	43 D-100 Y	0.15--0.60	g/L
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CHLORIDE

CHLORIDE	M/F	< 100 Y	98--106	mmol/L
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	Sex	Age	Interval	Unit
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
CKMB ISOENZYME				
CKMB ISOENZYME (CKMB ISO)	M/F	<100 Y	0--6	ug/L
CKMB ISOENZYME (MB INDEX)	M/F	<100 Y	0--0.030	
CLOZAPINE				
CLOZAPINE	M/F	<100 Y	300--2100	nmol/L
COCAINE URINE				
COCAINE URINE (Cocaine)	M/F	<100 Y	Negative	
COLD AGGLUTININS				
COLD AGGLUTININS (COLD AGG.TITRE)	M/F	<100 Y	Titre <1:64	
COLD AGGLUTININS	M/F	<100 Y	Negative	
COMPLEMENT C3				
COMPLEMENT C3	M/F	<100 Y	1.00--2.00	g/L
COMPLEMENT C4				
COMPLEMENT C4	M/F	<100 Y	0.10--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
CORTISOL AM				
CORTISOL AM (Cortisol a.m.)	M/F	<100 Y	140--690	nmol/L

	Sex	Age	Interval	Unit
CORTISOL PM				
CORTISOL PM (Cortisol p.m.)	M/F	< 100 Y	50--300	nmol/L
CREATINE KINASE				
CREATINE KINASE (CK)	F	< 100 Y	< 200	U/L
CREATINE KINASE (CK)	M	< 100 Y	< 300	U/L
CREATININE				
CREATININE	F	19-150 Y	50--100	umol/L
CREATININE	M	19-150 Y	70--120	umol/L
CREATININE	M/F	<= 5 Y	< 50	umol/L
CREATININE	M/F	6-10 Y	30--80	umol/L
CREATININE	M/F	11-18 Y	35--100	umol/L
CREATININE (eGFR)	M/F	< 100 Y	>= 60	mL/min
CREATININE CLEARANCE 24h				
CREATININE CLEARANCE 24H (Creat Clearance)	F	<= 50 Y	1.14--2.24	mL/s/
CREATININE CLEARANCE 24H (Creat Clearance)	F	51-100 Y	0.87--1.94	mL/s/
CREATININE CLEARANCE 24H (Creat Clearance)	M	<= 50 Y	1.25--2.44	mL/s/
CREATININE CLEARANCE 24H (Creat Clearance)	M	51-100 Y	0.92--2.10	mL/s/
CRYOFIBRINOGEN				
CRYOFIBRINOGEN	M/F	< 100 Y	0.00--0.04	
CRYOGLOBULIN				
CRYOGLOBULIN (CRYOGLOBULINS)	M/F	< 100 Y	0.00--0.04	
CYCLOSPORINE PEAK				
CYCLOSPORINE PEAK (CYCLOSPORINE)	M/F	< 100 Y	400-1600	ug/L

Sex Age**Interval****Unit****CYCLOSPORINE TROUGH**

CYCLOSPORINE TROUGH (CYCLOSPORINE)	M/F	<100 Y	75-340	ug/L
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DHEA-S

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

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

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

DNA AB (ANTI DNA)	M/F	<100 Y	0--34	kU/L
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EARLY PREG TEST

EARLY PREG TEST (SERUM PREGNANCY)	F	non-pregnant	<5.0	IU/L
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ENA

ENA			No reportable reference interval	
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	Sex	Age	Interval	Unit
ESTRADIOL				
ESTRADIOL	F	Mid-Follicular	110--184	pmol/L
ESTRADIOL	F	Ovulatory Peak	550--1650	pmol/L
ESTRADIOL	F	Mid-Luteal	550--845	pmol/L
ESTRADIOL	F	Pregnancy	<=70000	pmol/L
ESTRADIOL	F	Post Menopausal	<=220	pmol/L
ESTRADIOL	M	<100 Y	<=220	pmol/L
ESTRADIOL	M/F	Prepubertal child	<90	pmol/L

ESTRADIOL (FERTILITY)

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

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

FIBRINOGEN

FIBRINOGEN	M/F	<100 Y	1.90--4.60	g/L
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	Sex	Age	Interval	Unit
FOETAL HEMOGLOBIN				
FOETAL HEMOGLOBIN (HB F)	M/F	0-29 D	60--95	%
FOETAL HEMOGLOBIN (HB F)	M/F	30-59 D	35--86	%
FOETAL HEMOGLOBIN (HB F)	M/F	2-3 M	11--56	%
FOETAL HEMOGLOBIN (HB F)	M/F	4-5 M	3--14	%
FOETAL HEMOGLOBIN (HB F)	M/F	6-12 M	1--4	%
FOETAL HEMOGLOBIN (HB F)	M/F	13-18 M	0.5--2.9	%
FOETAL HEMOGLOBIN (HB F)	M/F	19-24 M	0.2--2.6	%
FOETAL HEMOGLOBIN (HB F)	M/F	25 M -100 Y	<2.0	%

FOLATE

FOLATE	M/F	<100 Y	>12	nmol/L
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FREE T4

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

FREE TESTOSTERONE

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

	Sex	Age	Interval	Unit
FSH				
FSH	F	Prepubertal	<3.0	IU/L
FSH	F	Follicular/Luteal	<9.0	IU/L
FSH	F	Mid-Cycle	4.0--20.0	IU/L
FSH	F	Post Menopausal	20.0--135	IU/L
FSH	M	10-100 Y	<10.0	IU/L
FSH	M	<10 Y	<3.0	IU/L
GAMMA GT				
GAMMA GT (GGT)	M/F	<100 Y	10--58	U/L
GESTATIONAL GLUCOSE TOLERANCE 3H				
GESTATIONAL TOLERANCE 1H (Glucose 1h)	F	<100 Y	3.3--9.9	mmol/L
GESTATIONAL TOLERANCE 2H (Glucose 2h)	F	<100 Y	3.3--8.5	mmol/L
GESTATIONAL TOLERANCE 3H (Glucose 3h)	F	<100 Y	3.3--7.7	mmol/L
GESTATIONAL TOLERANCE FASTING (Glucose fasting)	F	<100 Y	3.3--5.2	mmol/L
GLOBULIN				
GLOBULIN (A/G Ratio)	M/F	<100 Y	1.0--2.5	
GLOBULIN	M/F	<100 Y	20--35	g/L
GLUCOSE				
GLUCOSE (Glucose random)	M/F	<100 Y	3.3--11.0	mmol/L
GLUCOSE 2h pc				
GLUCOSE 2H PC	M/F	<100 Y	3.3--11.0	mmol/L
GLUCOSE FASTING				
GLUCOSE FASTING	M/F	<100 Y	3.3--6.0	mmol/L

Sex Age**Interval****Unit****GLUCOSE TOLERANCE 0.5H**

GLUCOSE TOLERANCE 0.5H (Glucose 0.5)	M/F	<100 Y	3.3--11.0	mmol/L
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GLUCOSE TOLERANCE 1H

GLUCOSE TOLERANCE 1H (Glucose 1h)	M/F	<100 Y	3.3--11.0	mmol/L
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GLUCOSE TOLERANCE 2H

GLUCOSE TOLERANCE 2H (Glucose 2h)	M/F	<100 Y	3.3--7.7	mmol/L
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GLUCOSE TOLERANCE FASTING (Glucose Fasting)	M/F	<100 Y	3.3--6.0	mmol/L
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GLUCOSE TOLERANCE 3H

GLUCOSE TOLERANCE 3H (Glucose 3h)	M/F	<100 Y	3.3--7.7	mmol/L
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GROWTH HORMONE

GROWTH HORMONE	F	18-100 Y	<10.0	ug/L
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GROWTH HORMONE	M	18-100 Y	<1.0	ug/L
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GROWTH HORMONE	M/F	<3 M	<27.1	ug/L
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GROWTH HORMONE	M/F	3 M-9 Y	<3.1	ug/L
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GROWTH HORMONE	M/F	10-17 Y	<8.6	ug/L
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	Sex	Age	Interval	Unit
HCG (hCG-Beta)	F	Non pregnant	<5.0	IU/L
HCG (hCG-Beta)	F	Non pregnant	<5.0	IU/L
HCG (hCG-Beta)	F	Pregnant 0-1 W	5.0--50.0	IU/L
HCG (hCG-Beta)	F	Pregnant 0-1 W	5.0--50.0	IU/L
HCG (hCG-Beta)	F	Pregnant 1-2 W	40.0--300	IU/L
HCG (hCG-Beta)	F	Pregnant 1-2 W	40.0--300	IU/L
HCG (hCG-Beta)	F	Pregnant 2-3 W	100--1000	IU/L
HCG (hCG-Beta)	F	Pregnant 2-3 W	100--1000	IU/L
HCG (hCG-Beta)	F	Pregnant 3-4 W	500--6000	IU/L
HCG (hCG-Beta)	F	Pregnant 3-4 W	500--6000	IU/L
HCG (hCG-Beta)	F	Pregnant 1-2 M	5000--200,000	IU/L
HCG (hCG-Beta)	F	Pregnant 1-2 M	5000--200,000	IU/L
HCG (hCG-Beta)	F	Pregnant 2-3 M	10,000--100,000	IU/L
HCG (hCG-Beta)	F	Pregnant 2-3 M	10,000--100,000	IU/L
HCG (hCG-Beta)	F	2nd Trimester	3000--50,000	IU/L
HCG (hCG-Beta)	F	2nd Trimester	3000--50,000	IU/L
HCG (hCG-Beta)	F	3rd Trimester	1000--50,000	IU/L
HCG (hCG-Beta)	F	3rd Trimester	1000--50,000	IU/L
HCG (hCG-Beta)	F	Post Partum	detectable levels for 30 days	IU/L
HCG (hCG-Beta)	F	Post Partum	detectable levels for 30 days	IU/L
HCG (hCG-Beta)	M	<100 Y	<5.0	IU/L
HCG (hCG-Beta)	M	<100 Y	<5.0	IU/L

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

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

	Sex	Age	Interval	Unit
DIFFERENTIAL (WBC)	M/F	30-59 D	5.0--19.5	giga/L
DIFFERENTIAL (WBC)	M/F	2-5 M	5.5--18.0	giga/L
DIFFERENTIAL (WBC)	M/F	6-11 M	5.0--15.0	giga/L
DIFFERENTIAL (WBC)	M/F	1-4 Y	5.0--16.0	giga/L
DIFFERENTIAL (WBC)	M/F	5-18 Y	3.9--10.2	giga/L
DIFFERENTIAL (WBC)	M/F	19-100 Y	4.0--10.0	giga/L

	Sex	Age	Interval	Unit
HEMATOLOGY PANEL (HEMATOCRIT)	F	12-15 Y	0.35--0.44	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	F	16-18 Y	0.35--0.44	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	F	19-100 Y	0.35--0.43	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M	12-15 Y	0.37--0.47	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M	16-18 Y	0.38--0.49	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M	19-100 Y	0.38--0.50	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	<= 7 D	0.45--0.67	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	8-29 D	0.39--0.66	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	30-59 D	0.31--0.55	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	2-5 M	0.28--0.42	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	6-11 M	0.31--0.39	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	1-4 Y	0.33--0.39	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	5 Y	0.34--0.40	(no SI unit)
HEMATOLOGY PANEL (HEMATOCRIT)	M/F	6-11 Y	0.35--0.43	(no SI unit)
HEMATOLOGY PANEL (HEMOGLOBIN)	F	12-18 Y	117--149	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	F	19-100 Y	120--150	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M	12-15 Y	125--165	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M	16-18 Y	131--169	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M	19-100 Y	133--165	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	<= 7 D	145--225	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	8-29 D	125--215	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	30-59 D	102--182	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	2-5 M	95--135	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	6-11 M	103--135	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	1-4 Y	107--131	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	5 Y	107--147	g/L
HEMATOLOGY PANEL (HEMOGLOBIN)	M/F	6-11 Y	118--146	g/L
HEMATOLOGY PANEL (MCH)	M/F	<= 29 D	31.0--37.0	pg
HEMATOLOGY PANEL (MCH)	M/F	30-59 D	29.0--36.0	pg

	Sex	Age	Interval	Unit
HEMATOLOGY PANEL (MCH)	M/F	2-5 M	26.0--34.0	pg
HEMATOLOGY PANEL (MCH)	M/F	6-11 M	25.0--35.0	pg
HEMATOLOGY PANEL (MCH)	M/F	1-4 Y	23.0--31.0	pg
HEMATOLOGY PANEL (MCH)	M/F	5 Y	24.0--30.0	pg
HEMATOLOGY PANEL (MCH)	M/F	6-15 Y	25.8--31.7	pg
HEMATOLOGY PANEL (MCH)	M/F	16-18 Y	25.0--33.8	pg
HEMATOLOGY PANEL (MCH)	M/F	19-100 Y	27.5--33.5	pg
HEMATOLOGY PANEL (MCHC)	M/F	<= 7 D	300--366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	8-29 D	300--366	g/L
HEMATOLOGY PANEL (MCHC)	M/F	30-59 D	280--360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	2-5 M	290--370	g/L
HEMATOLOGY PANEL (MCHC)	M/F	6-11 M	290--360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	1-4 Y	300--360	g/L
HEMATOLOGY PANEL (MCHC)	M/F	5 Y	310--370	g/L
HEMATOLOGY PANEL (MCHC)	M/F	6-100 Y	305--365	g/L
HEMATOLOGY PANEL (MCV)	F	12-15 Y	77--92	fl
HEMATOLOGY PANEL (MCV)	F	16-18 Y	80--95	fl
HEMATOLOGY PANEL (MCV)	F	19-100 Y	82--98	fl
HEMATOLOGY PANEL (MCV)	M	12-15 Y	77--92	fl
HEMATOLOGY PANEL (MCV)	M	16-18 Y	80--95	fl
HEMATOLOGY PANEL (MCV)	M	19-100 Y	82--98	fl
HEMATOLOGY PANEL (MCV)	M/F	<= 7 D	95--121	fl
HEMATOLOGY PANEL (MCV)	M/F	8-29 D	88--126	fl
HEMATOLOGY PANEL (MCV)	M/F	30-59 D	86--124	fl
HEMATOLOGY PANEL (MCV)	M/F	2-5 M	76--111	fl
HEMATOLOGY PANEL (MCV)	M/F	>5 M-2 Y	70-86	fl
HEMATOLOGY PANEL (MCV)	M/F	>2 Y-5 Y	75--86	fl
HEMATOLOGY PANEL (MCV)	M/F	6-11 Y	77--92	fl
HEMATOLOGY PANEL (PLATELET COUNT)	M/F	1-7 D	150-450	giga/L

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

Sex Age**Interval****Unit****HEMODIALYSIS FLUID CELL COUNT & DIFF**

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

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

HEMOGLOBIN A1C

HEMOGLOBIN A1C	M/F	< 100 Y	4.5--6.0	% (percent)
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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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HEPATITIS B CORE AB

HEPATITIS B CORE AB (HEP B CORE AB)	M/F	< 100 Y	Negative	
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Sex Age**Interval****Unit****HEPATITIS B SURFACE AB**

HEPATITIS B SURFACE AB (HEP B SURFACE AB)	M/F	<100 Y	>10.0 Pos/Immune	IU/L
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HEPATITIS B SURFACE AB (HEP B SURFACE AB)	M/F	<100 Y	0.0--10.0 Below threshold of 10 IU/L associated with immunity	IU/L
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HEPATITIS B SURFACE AG

HEPATITIS B SURFACE AG (HEP B SURFACE AG)	M/F	<100 Y	Negative	
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HGB INVESTIGATION

HEMOGLOBIN A2 (HB A2)	M/F	<100 Y	2.0--3.5	%
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HLA-B27

HLA-B27	M/F	<100 Y	Negative	
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HOMOCYSTEINE

HOMOCYSTEINE (TOTAL HOMOCYSTEINE)	F	>12 Y	<=13	umol/L
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HOMOCYSTEINE (TOTAL HOMOCYSTEINE)	M	>12 Y	<=13	umol/L
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IgA

IgA	M/F	6 M - 1 Y	0.18--1.03	g/L
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IgA	M/F	2-3 Y	0.38--1.81	g/L
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IgA	M/F	4-6 Y	0.40--2.15	g/L
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IgA	M/F	7-9 Y	0.45--2.37	g/L
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IgA	M/F	10-15 Y	0.56-2.87	g/L
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IgA	M/F	16-17 Y	0.65--3.38	g/L
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IgA	M/F	18-100 Y	0.78--3.58	g/L
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	Sex	Age	Interval	Unit
IGE				
IGE	M/F	<=2 Y	<120	ug/L
IGE	M/F	3-11 Y	<240	ug/L
IGE	M/F	12-14 Y	<290	ug/L
IGE	M/F	Adult	<430	ug/L

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

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

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

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

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

	Sex	Age	Interval	Unit
INSULIN TOLERANCE EXTRA				
INSULIN TOLERANCE EXTRA (INSULIN)	M/F	< 100 Y	15--130	pmol/L
INSULIN TOLERANCE TEST				
INSULIN TOLERANCE 1H (INSULIN 1h)	M/F	< 100 Y	15--130	pmol/L
INSULIN TOLERANCE 2H (INSULIN 2h)	M/F	< 100 Y	15--130	pmol/L
INSULIN TOLERANCE FASTING (INSULIN FASTING)	M/F	< 100 Y	15--130	pmol/L
IRON PROFILE				
IRON	M/F	< 100 Y	10--33	umol/L
IRON BINDING CAPACITY (SAT)	M/F	< 100 Y	0.20--0.55	
IRON BINDING CAPACITY (TIBC)	M/F	< 100 Y	37--72	umol/L
JOINT FLUID ANA				
JOINT FLUID ANA (ANA)	M/F	< 100 Y	Titre < 1:80	
JOINT FLUID DIFF				
JOINT FLUID DIFF (FLUID LYMPHOCYTES)	M/F	< 100 Y	0--78	%
JOINT FLUID DIFF (FLUID MONONUCLEAR)	M/F	< 100 Y	0--65	%
JOINT FLUID DIFF (FLUID NEUTROPHILS)	M/F	< 100 Y	0--25	%
JOINT FLUID DIFF (FLUID WBC'S)	M/F	< 100 Y	< 150	mega/L
JOINT FLUID GLUCOSE				
JOINT FLUID GLUCOSE (Glucose Joint Fld)			No reportable referenece interval	mmol/L
JOINT FLUID PROTEIN				
JOINT FLUID PROTEIN (Protein Joint Fld)			No reportable referenece interval	g/L
JOINT FLUID URIC ACID				
JOINT FLUID URIC ACID (Uric Acid Joint Fld)			No reportable referenece interval	umol/L

Sex Age**Interval****Unit****KETO ACIDS**

KETO ACIDS (KETONES)	M/F	<100 Y	Negative	
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LACTATE

LACTATE	M/F	<100 Y	0.7--2.1	mmol/L
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LDH

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

LEAD BLOOD	M/F	<15 Y	<0.48	umol/L
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LEAD BLOOD	M/F	15-100 Y	<1.45	umol/L
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	Sex	Age	Interval	Unit
LH				
LH	F	Prepubertal	<3.0	IU/L
LH	F	Follicular/Luteal	<13.0	IU/L
LH	F	Midcycle	14.0--100	IU/L
LH	F	Post Menopausal	15.0--65.0	IU/L
LH	M	10-100 Y	<10.0	IU/L
LH	M/F	<10 Y	<3.0	IU/L
LIPASE				
LIPASE	M/F	<100 Y	16--65	U/L
LIPOPROTEIN (a)				
LIPOPROTEIN (a) (Lp(a))	M/F	<100 Y	<300	mg/L
LITHIUM				
LITHIUM	M/F	<66 Y	0.50--1.20	mmol/L
LITHIUM	M/F	66-100 Y	0.20--0.80	mmol/L
MACROPROLACTIN				
MACROPROLACTIN	M/F	<100 Y	0.50--1.00	recovery
MAGNESIUM				
MAGNESIUM	M/F	<100 Y	0.70--1.05	mmol/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
NEONATAL BILIRUBIN				
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	1 D	<172	umol/L
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	2-3 D	<217	umol/L
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	4-14 D	<217	umol/L
NEONATAL BILIRUBIN (Bilirubin Total)	M/F	15-28 D	<20	umol/L
OLANZAPINE				
OLANZAPINE	M/F	<100Y	32-256	nmol/L
OPIATES URINE				
OPIATES URINE (Opiate)	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	<6.4	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	
PERITONEAL FLUID CELL COUNT & DIFF				
FLUID CELL COUNT & DIFF (FLUID LYMPHOCYTES)	M/F	<100 Y	0	%
FLUID CELL COUNT & DIFF (FLUID MONONUCLEAR)	M/F	<100 Y	0	%
FLUID CELL COUNT & DIFF (FLUID NEUTROPHILS)	M/F	<100 Y	0	%
FLUID CELL COUNT & DIFF (FLUID RBC)	M/F	<100 Y	0	/HPF
FLUID CELL COUNT & DIFF (FLUID WBC)	M/F	<100 Y	0	mega/L

	Sex	Age	Interval	Unit
PHENOBARBITAL				
PHENOBARBITAL	M/F	<=10 Y	43--172	umol/L
PHENOBARBITAL	M/F	11-100 Y	65--172	umol/L

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

PHOSPHORUS				
PHOSPHORUS	M/F	<=1 M	1.71--3.16	mmol/L
PHOSPHORUS	M/F	2 M-1 Y	1.36--2.29	mmol/L
PHOSPHORUS	M/F	2-5 Y	1.23--2.20	mmol/L
PHOSPHORUS	M/F	6-10 Y	1.16--2.00	mmol/L
PHOSPHORUS	M/F	11-20 Y	0.94--1.78	mmol/L
PHOSPHORUS	M/F	21-100 Y	0.80--1.40	mmol/L

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

	Sex	Age	Interval	Unit
PLATELET COUNT CITRATE				
PLATELET COUNT	M/F	1-7 D	150-450	giga/L
PLATELET COUNT	M/F	>7 D-2 M	170-500	giga/L
PLATELET COUNT	M/F	>2 M-6 M	210-650	giga/L
PLATELET COUNT	M/F	>6 M-5 Y	200-520	giga/L
PLATELET COUNT	M/F	>5 Y-16 Y	180-400	giga/L
PLATELET COUNT	M/F	>16 Y	150--400	giga/L
POTASSIUM				
POTASSIUM	M/F	<100 Y	3.5--5.0	mmol/L
PROGESTERONE				
PROGESTERONE	F	Follicular	<5	nmol/L
PROGESTERONE	F	Luteal	8-90	nmol/L
PROGESTERONE	F	Mid Luteal	18-90	nmol/L
PROGESTERONE	F	Post Meno/Oral contraceptives	<5	nmol/L
PROGESTERONE	M	<100 Y	<5	nmol/L
PROLACTIN				
PROLACTIN	F	<100 Y	<25.0	ug/L
PROLACTIN	M	<100 Y	<15.0	ug/L
PROSTATE SPECIFIC AG				
PROSTATE SPECIFIC AG (PSA)	M	<50 Y	<2.5	ug/L
PROSTATE SPECIFIC AG (PSA)	M	50-59 Y	<3.5	ug/L
PROSTATE SPECIFIC AG (PSA)	M	60-69Y	<4.5	ug/L
PROSTATE SPECIFIC AG (PSA)	M	>= 70 Y	<6.5	ug/L

Sex Age**Interval****Unit****PROTEIN ELECTROPHORESIS**

PROTEIN ELECTROPHORESIS (ALBUMIN)	M/F	< 100 Y	37--55	g/L
PROTEIN ELECTROPHORESIS (ALPHA-1)	M/F	< 100 Y	1--3	g/L
PROTEIN ELECTROPHORESIS (ALPHA-2)	M/F	< 100 Y	5--9	g/L
PROTEIN ELECTROPHORESIS (BETA)	M/F	< 100 Y	5--10	g/L
PROTEIN ELECTROPHORESIS (GAMMA)	M/F	< 100 Y	5.0--12.5	g/L

PROTEIN TOTAL

PROTEIN (Protein total)	M/F	< 100 Y	60--80	g/L
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PROTHROMBIN TIME

PROTHROMBIN TIME (INR)	M/F	< 100 Y	0.8--1.2 Recommend ed therapeutic ranges: Thromboem bolism: 2.0--3.0 Mechanical Heart Valves: 2.5--3.5	
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RBC FOLATE

RBC FOLATE	M/F	< 100 Y	> 630	nmol/L
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RENIN

RENIN			5--75	ng/L
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RETIC COUNT

RETIC COUNT (ABSOLUTE RETIC)	M/F	< 100 Y	35--120	giga/L
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	Sex	Age	Interval	Unit
RETICULOYCTE COUNT				
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	F	19-100Y	3.0--15.9	%
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	F	<19Y	No established Reference Interval Adult Range is 3.0-15.9%	%
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	M	19-100Y	2.3--13.4	%
IMMATURE RETIC FRACTION (IMM.RETIC FRAC.)	M	<19Y	No established Reference Interval Adult Range is 2.3-13.4%	%
RHEUMATOID FACTOR				
RHEUMATOID FACTOR	M/F	<100 Y	<14 Negative	Ku/L
RHEUMATOID FACTOR	M/F	<100 Y	14--30 Indeterminate	Ku/L
RHEUMATOID FACTOR	M/F	<100 Y	>30 Positive	Ku/L
ROHYPNOL URINE				
BENZODIAZEPINE URINE (Benzodiazepine)	M/F	<100 Y	Negative	
SED RATE				
ESR (WESTERGREN)	F	<100 Y	0--20	mm/h
ESR (WESTERGREN)	M	<100 Y	0--10	mm/h
SELENIUM				
SELENIUM (Selenium serum)	M/F	>1 Y	1.20--2.09	umol/L

Sex Age**Interval****Unit****SEMEN ANALYSIS**

SEMEN ANALYSIS (HRS OLD)	M	< 100 Y	0--2	h
SEMEN ANALYSIS (MOTILITY)	M		= > 50	%
SEMEN ANALYSIS (SPERM COUNT)	M		= > 20	giga/L
SEMEN ANALYSIS (SPERM VIABILITY)	M		= > 50	%
SEMEN ANALYSIS (VOLUME)	M		= > 2	mL

SPERM MORPHOLOGY (ABNORMAL FORMS)	M	< 100 Y	< = 86	%
SPERM MORPHOLOGY (IMMATURE FORMS)	M	< 100 Y	< 3	/100 SPERM
SPERM MORPHOLOGY (NORMAL FORMS)	M	< 100 Y	= > 14	%

SEX HORMONE BINDING GLOBULIN

SEX HORMONE BINDING GLOBULIN (SHBG)	F	< = 10 Y	30--180	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	F	> 10 Y	20--100	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	M	< = 12 Y	40--110	nmol/L
SEX HORMONE BINDING GLOBULIN (SHBG)	M	> 12 Y	10--70	nmol/L

SIROLIMUS

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

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

SODIUM

SODIUM	M/F	< 100 Y	134-145	mmol/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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	Sex	Age	Interval	Unit
T3 FREE				
T3 FREE	M/F	< 100 Y	3.5--6.5	pmol/L
TACROLIMUS				
TACROLIMUS	M/F	< 100 Y	4.0--12.0	ug/L
TESTOSTERONE				
TESTOSTERONE (TESTOSTERONE (T))	F	< 100 Y	< 4.5	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	<= 11Y	< 3.1	nmol/L
TESTOSTERONE (TESTOSTERONE (T))	M	12-100 Y	10.0--30.0	nmol/L
THEOPHYLLINE				
THEOPHYLLINE	M/F	< 100 Y	55--110	umol/L
THYROGLOBULIN				
THYROGLOBULIN	M/F	< 100 Y	0--60	ug/L
THYROGLOBULIN AB				
THYROGLOBULIN	M/F	< 100 Y	0--60	ug/L
THYROGLOBULIN AB	M/F	< 100 Y	< 40	IU/mL
TRANSFERRIN				
TRANSFERRIN	M/F	< 100 Y	1.47--3.38	g/L
TRANSFERRIN SATURATION				
TRANSFERRIN SAT (Transferrin Saturation)	M/F	< 100 Y	0.20--0.55	
TRIGLYCERIDE				
TRIGLYCERIDE	M/F	<= 18 Y	0.40--1.29	mmol/L
TRIGLYCERIDE	M/F	>= 19 Y	0.45--2.29	mmol/L

	Sex	Age	Interval	Unit
TROPONIN I				
TROPONIN I	M/F	< 100 Y	< 0.10	ug/L
TROPONIN I	M/F	< 100 Y	0.10--.80 suggests myocardial injury	ug/L
TROPONIN I	M/F	< 100 Y	> .80 is compatible with MI	ug/L
TSH				
TSH	M/F	< 100 Y	0.38--5.5	mU/L
UREA				
UREA	M/F	< 56 Y	2.5--7.0	mmol/L
UREA	M/F	56-100 Y	2.5--9.0	mmol/L
UREA CLEARANCE				
UREA CLEARANCE	M/F	< 100 Y	0.98--1.58	mL/s
URIC ACID				
URIC ACID	F	<= 15 Y	177--371	umol/L
URIC ACID	F	16-55 Y	162--427	umol/L
URIC ACID	F	56-100 Y	172--458	umol/L
URIC ACID	M	<= 15 Y	171--438	umol/L
URIC ACID	M	16-55 Y	234--529	umol/L
URIC ACID	M	56-100 Y	234--529	umol/L
URINE ALBUMIN 12H				
URINE MICROALBUMIN 12H (ACR 12h)	F	< 100 Y	< 2.8	mg/mmol
URINE MICROALBUMIN 12H (ACR 12h)	M	< 100 Y	< 2.0	mg/mmol
URINE MICROALBUMIN 12H (Albumin urine 12h)	M/F	< 100 Y	< 20	ug/min

	Sex	Age	Interval	Unit
URINE ALBUMIN 24H				
URINE MICROALBUMIN 24H (Albumin urine 24h)	M/F	< 100 Y	< 30	mg/d
URINE ALBUMIN QNT				
URINE MICROALBUMIN QNT (ACR)	F	< 100 Y	< 2.8	mg/mmol
URINE MICROALBUMIN QNT (ACR)	M	< 100 Y	< 2.0	mg/mmol
URINE AMPHETAMINE CONFIRM IF POS				
AMPHETAMINE URINE (Amphetamine)	M/F	< 100 Y	Negative	
URINE AMYLASE				
AMYLASE URINE	M/F	< 100 Y	< 500	U/L
URINE BARBITURATE CONFIRM IF POS				
BARBITURATE URINE (Barbiturate)	M/F	< 100 Y	Negative	
URINE BENZODIAZEPINE CONFIRM IF POS				
BENZODIAZEPINE URINE (Benzodiazepine)	M/F	< 100 Y	Negative	
BENZODIAZEPINE URINE (Benzodiazepine)	M/F	< 100 Y	Negative	
URINE CAL/CRE RATIO				
URINE CAL/CRE RATIO (Calcium/Creat rdm)	M/F	< 100 Y	0.01--0.39	
URINE CALCIUM 24H				
URINE CALCIUM 24H (Calcium urine 24h)	M/F	< 100 Y	2.2--6.4	mmol/d
URINE CALCIUM/CREATININE RATIO 2H				
URINE CAL/CRE RATIO 2H (Ca/Creat 2h ratio)	M/F	< 100 Y	0.2--0.4	
URINE CHLORIDE				
CHLORIDE URINE (Choride urine)	M/F	< 100 Y	110--250	mmol/L

	Sex	Age	Interval	Unit
URINE CHLORIDE 24H				
CHLORIDE 24h URINE (Chloride urine 24h)	M/F	< 100 Y	110--250	mmol/d
URINE CITRATE				
URINE CITRATE (Citrate urine)	M/F	< 100 Y	0.4--2.5	mmol/L
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	
COCAINE URINE (Cocaine)	M/F	< 100 Y	Negative	
URINE CORTISOL 24H				
URINE CORTISOL 24H (URINE CORTISOL)	M/F	< 100 Y	30--220	nmol/d
URINE CREATININE 24H				
URINE CREATININE 24H (Creatinine 24h)	M/F	<= 5 Y	0.9--5.3	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	6-7 Y	2.7--6.2	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	8-9 Y	3.5--8.0	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	10-11 Y	3.5--10.6	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	12-13 Y	4.4--14.1	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	14-15 Y	7.1--15.9	mmol/d
URINE CREATININE 24H (Creatinine 24h)	M/F	16-100 Y	7.1--17.7	mmol/d
URINE D-PYR CROSSLINKS				
URINE D-PYR CROSSLINKS (D-PYR CROSSLINKS)	F	< 100 Y	3.0--7.4	nmol/mmol
URINE D-PYR CROSSLINKS (D-PYR CROSSLINKS)	M	< 100 Y	2.5--5.5	nmol/mmol
URINE GLUCOSE 24h				
GLUCOSE URINE 24H	M/F	< 100 Y	< 1.4	mmol/d

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

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

URINE MACROSCOPIC (SPECIFIC GRAVITY)	M/F	< 100 Y	1.003--1.035	
URINE MACROSCOPIC (URINE APPEARANCE)	M/F	< 100 Y	Clear	
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

URINE MAGNESIUM 24H

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

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

URINE METANEPHRINE 24H (UR METANEPHRINE)	M/F	< 100 Y	0.4--1.5	umol/d
URINE METANEPHRINE 24H (UR NORMETANEPHRINE)	M/F	< 100 Y	0.6--1.9	umol/d

	Sex	Age	Interval	Unit
URINE MICROSCOPIC				
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

URINE OPIATES CONFIRM IF POS

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

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

Sex Age**Interval****Unit****URINE URIC ACID 24H**

URINE URIC ACID 24H (Uric Acid ur 24h)	F	<100 Y	1.0--3.8	mmol/d
URINE URIC ACID 24H (Uric Acid ur 24h)	M	<100 Y	1.0--4.8	mmol/d

URINE VMA 24H

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

VISCOSITY	M/F	<100 Y	1.4--1.8	
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VITAMIN B12

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

WBC	M/F	<=7 D	9.0--30.0	giga/L
WBC	M/F	8-29 D	5.0--20.0	giga/L
WBC	M/F	30-59 D	5.0--19.5	giga/L
WBC	M/F	2-5 M	5.5--18.0	giga/L
WBC	M/F	6-11 M	5.0--15.0	giga/L
WBC	M/F	1-4 Y	5.0--16.0	giga/L
WBC	M/F	5-18 Y	3.9--10.2	giga/L
WBC	M/F	19-100 Y	4.0--10.0	giga/L

ZINC

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