

REFERENCE INTERVALS - HAEMATOLOGY



Labtests

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COMPLETE BLOOD COUNT				
	UNITS	Male	Female	Antenatal
Red Blood Count	10 ¹² /L	4.3-6.0	3.6-5.6	3.4-5.0
Haemoglobin	g/L	130-175	115-155	100-145
HCT (PCV)	ratio (L/L)	0.40-0.52	0.35-0.46	0.30-0.44
MCV	f/L	80-99	80-99	80-99
MCH	pg	27-33	27-33	27-33
MCHC	g/L	320-360	320-360	320-360
RDW	%	11.5-15	11.5-15	
Platelet Count	10 ⁹ /L	150-400	150-400	150-400
White Blood Count	10 ⁹ /L	4.0-11.0	4.0-11.0	5.0-14.5
Neutrophils	10 ⁹ /L	1.9-7.5	1.9-7.5	1.9-11.0
Lymphocytes	10 ⁹ /L	1.0-4.0	1.0-4.0	1.0-4.0
Monocytes	10 ⁹ /L	0.2-1.0	0.2-1.0	0.2-1.0
Eosinophils	10 ⁹ /L	0-0.50	0-0.50	0-0.50
Basophils	10 ⁹ /L	0-0.20	0-0.20	0-0.20
Reticulocytes (absolute)	10 ⁹ /L	20 - 100	20 - 100	
Ret- He	pg	28.9 – 36.3	28.9 – 36.3	

ESR		
Female	< 19 yrs	< 16 mm/hr
	20 – 23 yrs	< 18 mm/hr
	24 – 29 yrs	< 21 mm/hr
	30 – 33 yrs	< 23 mm/hr
	34 – 39 yrs	< 26 mm/hr
	40 – 43 yrs	< 28 mm/hr
	>44 yrs	0 – 30 mm/hr
Antenatal		< 46 mm/hr
Male	0 – 29 yrs	< 16 mm/hr
	30 – 33 yrs	< 18 mm/hr
	34 – 39 yrs	< 21 mm/hr
	40 – 43 yrs	< 23 mm/hr
	> 44 yrs	0 – 25 mm/hr

COAGULATION		
Prothrombin time		9 - 14.0 secs
INR	Normal Interval	0.8 - 1.2
	Therapeutic Interval (Standard Risk)	2.0 - 3.0
	Therapeutic Interval (High Risk)	2.5 – 3.5
A.P.T.T.		22.0 - 34.0 secs
Fibrinogen		1.5 - 4.0 g/L
Dilute Thrombin clotting Time		< 21 secs
D-Dimer		Cut Off
	< 50 yrs	500 ug/L
	51 – 60 yrs	600 ug/L
	61 – 70 yrs	700 ug/L
	71 – 80 yrs	800 ug/L
	81 – 90 yrs	900 ug/L
	> 90 yrs	1000 ug/L

Last Reviewed:	Authorized	Quality Manager, Labtests Auckland	Haematologist, Labtests Auckland
AUGUST 2021	Date: 18/8//21	Saad Mansour	Dr Lesley Overend

REFERENCE INTERVALS - CLINICAL CHEMISTRY

RENAL FUNCTION

Test Group – Renal Function	Detail	Range	Units	Source
Sodium	<1mth	134 - 148	mmol/L	
	adult	135 - 145	mmol/L	
Potassium	<1mth	4.5 – 6.0	mmol/L	
	Adult	3.5 – 5.2	mmol/L	
Chloride	Adult	95 – 110	mmol/L	
Urea	<1mth	1 - 4	mmol/L	
	1mth – 1yr	1.4 – 5.4	mmol/L	
	1 yr – 4yr	1.8 – 5.4	mmol/L	
	Adult	3.2 – 7.7	mmol/L	
Creatinine	0 – 1wk	<95	umol/L	ARQAG
	1wk – 4wk	<50	umol/L	ARQAG
	4wk – 2yrs	<40	umol/L	ARQAG
	2yrs – 6yrs	<50	umol/L	ARQAG
	6 – 12yrs	<65	umol/L	ARQAG
	12yrs – 15yrs	<80	umol/L	ARQAG
	Female 15yrs – 19yrs	<90	umol/L	ARQAG
	Male 15yrs – 19yrs	<105	umol/L	ARQAG
	Adult female	45 - 90	umol/L	ARQAG
	Adult male	60 – 105	umol/L	ARQAG
Uric Acid	Female	0.14 – 0.36	mmol/L	
	Male	0.20 – 0.42	mmol/L	
eGFR		> 90	mL/min/1.73m ²	
Creatinine Clearance	Female <40yrs	88 – 182	mL/min	
	Female 40 – 49yrs	80 – 174	mL/min	
	Female 50 – 59	72 – 160	mL/min	
	Female 60 – 69	64 – 158	mL/min	
	Female >70	56 - 150	mL/min	
	Male <40yrs	97 - 186	mL/min	
	Male 40 – 49yrs	91 - 180	mL/min	
	Male 50 – 59	85 - 175	mL/min	
	Male 60 – 69	66 - 164	mL/min	
	Male >70	60 - 156	mL/min	

DIABETIC

Test Group – Diabetic	Detail	Range	Units
Glucose	Fasting	3.5 – 5.4	mmol/L
	Non Fasting	3.5 – 7.7	mmol/L
Glucose Challenge		< 7.8	mmol/L
Glucose Tolerance	Non-Pregnant Fasting	3.5 – 5.4	mmol/L
	Non-Pregnant 2 hour	< 7.8	mmol/L
	Pregnant Fasting	3.5 – 5.4	mmol/L
	Pregnant 2 hour	< 9.0	mmol/L
HbA1c		<41	mmol/mol
Bicarbonate	<2yrs	17 – 27	mmol/L
	≥2yrs	22 – 31	mmol/L
Albumin/Creatinine Ratio (Microalbumin ratio)	Female	<3.5	mg/mmol
	Male	<2.5	mg/mmol

Last Reviewed:	Authorized	Quality Manager, Labtests Auckland	Chemical Pathologist, Labtests Auckland
January 2021	Date: 5/1/21	Saad Mansour	Dr Charles Ng



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LIVER FUNCTION



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Test Group – Liver Function	Detail		Range	Units	Source
Total Bilirubin	Up to 24 hours		<150	µmol/L	
	24 to 48 hours		<200	µmol/L	
	48 to 72 hours		<250	µmol/L	
	3 to 7 days		<300	µmol/L	
	7 days to 3 weeks		<100	µmol/L	
	3 to 4 weeks		<50	µmol/L	
	4 weeks to Adult		<25	µmol/L	
Direct Bilirubin	<1mth		<20	µmol/L	
	Adult		< 5	µmol/L	
ALP	Female	0 to <6 months	80 - 600	U/L	
		6 months to <10yrs	80 - 450	U/L	
		10 to <13yrs	45 - 460	U/L	
		13 to <15yrs	45 - 300	U/L	
		15 to <22yrs	45 - 150	U/L	
		22 to <50yrs	40 - 110	U/L	
		50 to <60yrs	40 - 120	U/L	
		60yrs and over	40 - 130	U/L	
	Male	0 to <6 months	80 - 600	U/L	
		6 months to <10yrs	80 - 450	U/L	
		10 to <15yrs	45 - 500	U/L	
		15 to <17yrs	45 - 380	U/L	
		17 to <19yrs	45 - 220	U/L	
		19 to <22yrs	45 - 150	U/L	
		22 to <50yrs	40 - 110	U/L	
		50 to <60yrs	40 - 120	U/L	
		60yrs and over	40 - 130	U/L	
GGT	<6mth		<150	IU/L	
	Adult female		<50	IU/L	
	Adult male		<60	IU/L	
ALT			< 45	U/L	
AST	<2yrs		<80	U/L	
	2 – 10yrs		<60	U/L	
	>10yrs		<45	U/L	
	Adult		<45	U/L	
Total Protein	<1mth		45 - 75	g/L	LPL
	1 – 2mth		45 - 65	g/L	
	2 – 6mth		50 - 75	g/L	
	6mth – 1yrs		55 - 80	g/L	
	1 – 70yrs		66 - 84	g/L	
	>70yrs		64 - 82	g/L	
Albumin	0 – 3mths		25 - 40	g/L	
	3 – 12mths		32 - 45	g/L	
	≥1yr		32 - 48	g/L	
Globulin	0 – 90 days		> 16	g/L	Laboratory data
	90 – 365 days		> 18	g/L	
	1 – 4 yrs		22 - 35	g/L	
	>4 yrs		25 - 41	g/L	
Amylase	serum		25 - 135	U/L	

Last Reviewed:	Authorized	Quality Manager, Labtests Auckland	Chemical Pathologist, Labtests Auckland
January 2021	Date: 5/1/21	Saad Mansour	Dr Charles Ng

Reference range for Quantitative Assays

STREPTOCOCCAL

Test Name	Interval	Units
Anti-Streptolysin O	<240	IU/mL
aDNase B	<200	U/mL

AUTOIMMUNITY

Test Name	Interval	Units
ANA Titre	<80	Titre
Anti-dsDNA	Negative: ≤4	IU/mL
	Indeterminate: 5-9	
	Positive: ≥10	
Cardiolipin IgG	<20	GPL
Cardiolipin IgM	<20	MPL
Anti-Myeloperoxidase	<1.0	AI
Anti-Proteinase 3	<1.0	AI
Anti-Tissue Transglutaminase IgA	<15	U/mL
Deamidated Gliadin Peptide IgG	<15	U/mL

Last Reviewed:	Authorized	Quality Manager, Labtests Auckland
May 2017	Date: 2/5/2017	Saad Mansour

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THYROID FUNCTION

Test Group Thyroid Function	Detail	Range	Units	Source
Free T4	>=4 days - 1 mth	10 - 40	pmol/L	
	>1 mth - 1 year	10 - 30	pmol/L	
	>1 yr - 12 yrs	11 - 22	pmol/L	Laboratory data
	>12 yrs	12 - 22		
TSH	4 days - 1 mth	0.4 - 16.0	mIU/L	
	1 mth - 1 yr	0.6 - 8.0	mIU/L	
	>1 yr - 18 yrs	0.5 - 4.5	mIU/L	
	>18 yrs	0.27 - 4.2	mIU/L	
Free T3	>=4 days - 7 yrs	3 - 10	pmol/L	
	>7 yrs - 19 yrs	3.5 - 8.0	pmol/L	
	>19 yrs	3.9 - 6.8	pmol/L	

REPRODUCTIVE HORMONES

Test Group – Reproductive Hormones	Detail	Range	Units
FSH	<15yrs	<6.4	IU/L
	Follicular	3 – 10	IU/L
	Midcycle	4 – 25	IU/L
	Luteal	2 – 8	IU/L
	Post menopausal	>19	IU/L
	Pregnant	<1	IU/L
	Male	2 - 12	IU/L
LH	<15yrs	<2.4	IU/L
	Follicular	2 – 9	IU/L
	Midcycle	10 - 75	IU/L
	Luteal	2 – 8	IU/L
	Post menopausal	>14	IU/L
	Pregnant	<1	IU/L
	Male	2 – 9	IU/L
Progesterone	Ovulation unlikely	<6	nmol/L
	Ovulation possible	6 - 25	nmol/L
	Ovulation confirmed	>25	nmol/L
	Post menopausal	<3	nmol/L
Oestradiol	Follicular	50 - 850	pmol/L
	Mid-cycle	150 - 1450	pmol/L
	Luteal	85 - 1250	pmol/L
	Post Menopausal	< 180	pmol/L
	Follicular	50 - 850	
Prolactin	Female	<500	mIU/L
	Male	<350	mIU/L
Monomeric prolactin	Female	< 400	mIU/L
	Male	< 280	mIU/L
HCG		< 5	IU/L

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NON-FUNDED

Test Group – Non-Funded	Detail	Range	Units
Vitamin D	Moderate to severe deficiency	<25	nmol/L
	Mild deficiency	25 – 50	nmol/L
	Optimal target range for bone health	50-150	nmol/L
	Vitamin D intoxication has been reported at this level, but is rare at levels <500nmol/L	>250	nmol/L
Insulin		5 – 13	mU/L
Homocysteine		5 – 15	umol/L
DHEAS	<7 days	2.7 - 20.4	umol/L
	7 to <28d	0.80 - 13.6	umol/L
	28d to <1y	0.0 - 6.7	umol/L
	1y to <5y	0.0 - 0.70	umol/L
	Female	5 to <10y	0 - 2.6
		10 to <15Y	0.7 - 8.8
		15 to <20y	1.4 - 11.5
		20 to <25y	3.9 - 11.6
		25 to <35y	1.9 - 11.0
		35 to <45y	1.5 - 10.9
		45 to <55y	0.8 - 8.7
		55 to <65y	0.5 - 8.0
		65 to <75y	0.2 - 7.5
		= or >75y	0.2 - 4.5
	Male	10 to <15Y	0.4 - 7.6
		15 to <20y	1.4 - 14.3
		20 to <25y	5.1 - 13.6
		25 to <35y	4.0 - 13.9
		35 to <45y	1.8 - 12.6
		45 to <55y	1.0 - 10.0
		55 to <65y	1.0 - 8.6
		65 to <75y	0.9 - 7.0
		= or >75y	0.4 - 5.7
SHBG	Female	1 to <11y	19 - 137
		11y to <20y Pre-pubertal	19 - 137
		11y to <20y Post-pubertal	23 - 120
		20 - 49y	23 - 120
		50y +	19 - 121
	Male	1 to <11y	18 - 153
		11y to <20y Pre-pubertal	18 - 153
		11y to <20y Post-pubertal	13 - 49
		20 - 49y	13 - 49
		50y +	15 - 71
Free testosterone	Female	20 – 50yrs	0 - 37
		> 50yrs	0 - 24
	Male	20 – 50yrs	218 - 681
		> 50yrs	179 - 520

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MISCELLANEOUS



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Test Group – Miscellaneous	Detail	Range	Units	Reference range origin
NT Pro BNP		<35	pmol/L	
CRP		< 5	mg/L	
CCP antibodies		<5	U/mL	
Rheumatoid Factor		<16	IU/mL	
IgG	Newborn - <2 wks	3.0 – 13.7	g/L	CALIPER – 3 platforms
	≥2 - <6 wks	1.2 – 6.0	g/L	Composite CALIPER and ARQAG
	≥6 wks - <6 mths	1.2 – 7.0	g/L	Composite CALIPER and ARQAG
	≥6 - <12 mths	3.0 – 10.5	g/L	ARQAG
	>1 - <4 yrs	3.0 – 11.2	g/L	CALIPER – 3 platforms
	≥4 - <10 yrs	5.0 – 13.3	g/L	CALIPER – 3 platforms
	≥10 - <19 yrs	6.0 – 15.0	g/L	ARQAG
	Adult (≥19 - <70 yrs)	7.0 – 16.0	g/L	ARQAG
IgA	Newborn to <1 yr	<0.4	g/L	CALIPER – 3 platforms
	≥1 - <3 yrs	<1.1	g/L	CALIPER – 3 platforms
	≥3 - <6 yrs	<1.7	g/L	Composite CALIPER and ARQAG
	≥6 - <14 yrs	0.3 – 2.4	g/L	CALIPER – 3 platforms
	≥14 - <19 yrs	0.4 – 3.1	g/L	CALIPER – 3 platforms
	Adult (≥19 - <70 yrs)	0.8 – 4.0	g/L	ARQAG
	≥70 yrs	0.8 – 4.0	g/L	ARQAG
IgM	Newborn < 2 wks	<0.5	g/L	CALIPER – 3 platforms
	≥2 - <13 wks	0.1 – 0.7	g/L	CALIPER – 3 platforms
	≥13 wks - <1 yr	0.1 – 0.9	g/L	CALIPER – 3 platforms
	≥1 - <19 yrs	0.4 – 1.8	g/L	CALIPER – 3 platforms
	Adult (≥19 - <70 yrs)	0.4 – 2.5	g/L	ARQAG
	≥70 yrs	0.4 – 2.4	g/L	ARQAG
IgE		<100	kIU/L	
PTH		1.7 - 7.3	pmol/L	
Serum Cortisol	morning peak	170 - 500	nmol/L	
Testosterone	Female	<10yrs	<0.6	nmol/L
		10 – 15yrs	<1.5	nmol/L
		>15yrs	<1.9	nmol/L
	Male	10 – 14yrs	0 - 28	nmol/L
		15 – 19yrs	7.6 - 28	nmol/L
		20 -50yrs	8.7 - 29	nmol/L
		>50yrs	6.7 - 26	nmol/L
Thyroperoxidase Ab		<60	U/mL	
Total PSA	<51 yrs	<2.5	ug/L	
	51 – 60 yrs	<3.5	ug/L	
	61 -70 yrs	<4.0	ug/L	
	>70 yrs	<6.5	ug/L	

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REFERENCE INTERVALS - CLINICAL CHEMISTRY



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TUMOUR MARKERS

Test Group – Tumour Markers	Detail	Range	Units
AFP		<10	ug/L
CEA	Non smokers	< 3.0	ug/L

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SEROLOGY ANTIBODIES

Test Group – Serology Antibodies	Detail	Range	Units
Hepatitis A Total Ab	Considered protective	≥20	mIU/mL
Hepatitis B surface Ab	Considered protective	≥10	mIU/mL
Rubella IgG	Non-Immune	<10	IU/mL
	May be protective	10-30	IU/mL
	Considered protective	>30	IU/mL

URINE

Test Group – Urine	Detail	Range	Units
Urine Creatinine	Female	4 – 17	mmol/collection
	Male	7 – 24	mmol/collection
Urine Potassium		35 – 90	mmol/collection
Urine Sodium		100 - 250	mmol/collection
Urine Chloride		110 - 250	mmol/collection
Protein Creatinine Ratio		<23	mg/mmol
Urine calcium/creatinine ratio	6m – 1yr	< 2.2	
	1-2 yrs	< 1.5	mmol/mmol
	2- 3yrs	< 1.4	mmol/mmol
	3-5 yrs	< 1.1	mmol/mmol
	5-7 yrs	< 0.7	mmol/mmol
	7-17 yrs	< 0.7	mmol/mmol
	Adult	< 0.6	mole ratio

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ENZYMES

Test Group – Enzymes	Detail	Range	Units	Source
LDH	0 – 14 days	<1200	U/L	ARQAG
	15 days to <1 yr	<450		
	1 year to <10yrs	<320		
	>10yrs	120 - 250		
CK	Female	30 – 180	U/L	
	Male	60 - 220	U/L	
Troponin T		<15	ng/L	

B12 / FOLATE

Test Group – B12 / Folate	Detail	Range	Units
Vitamin B12	Normal	170 - 800	pmol/L
	Borderline	110 - 170	pmol/L
Serum Folate	Normal	5 – 45	nmol/L

DRUGS

Test Group – Drugs	Detail	Range	Units
Lithium	Trough (12 hrs post dose)	0.5 – 1.0	mmol/L
Carbamazepine	Therapeutic range	17 – 40	µmol/L
Digoxin	Therapeutic range	0.60 – 2.00	nmol/L
Phenytoin	Therapeutic range	40 – 80	µmol/L
Valproic Acid	Therapeutic range	350 – 700	µmol/L

LIPIDS

Test Group – Lipids	Detail	Range	Units
Status	Fasting		
Cholesterol	0 - 14 days	1.2 – 3.2	mmol/L
	15 days – 1 year	1.6 – 6.2	mmol/L
	1 – 19 years	2.9 – 5.4	mmol/L
	>19 years	<5.0	mmol/L
Triglycerides	0 - 14 days	0.9 – 3.0	mmol/L
	15 days – 1 year	0.6 – 3.0	mmol/L
	1 – 19 years	0.5 – 2.3	mmol/L
	>19 years	<2.0	mmol/L
HDL Cholesterol	0 - 14 days	0.40 – 1.10	mmol/L
	15 days – 1 year	0.30 – 1.90	mmol/L
	1 - 19 year	0.80 – 1.90	mmol/L
	>19 years	>1.00	mmol/L
LDL Cholesterol		<3.4	mmol/L
Chol/HDL ratio		<4.5	mmol/L

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BONE

Test Group – Bone	Detail	Range	Units
Calcium	1 – 3days	1.80 – 2.80	mmol/L
	4days – 1yr	2.10 – 2.80	mmol/L
	>1yrs	2.10 – 2.55	mmol/L
Adjusted Calcium	<4days	1.80 – 2.80	mmol/L
	4days – 1yr	2.10 – 2.80	mmol/L
	>1yrs	2.10 – 2.55	mmol/L
Phosphate	<1yr	1.00 – 2.50	mmol/L
	1 – 6yrs	1.00 – 2.00	mmol/L
	7 – 11yrs	1.00 – 1.85	mmol/L
	12 – 14yrs	0.90 – 1.65	mmol/L
	15 – 16yrs	0.90 – 1.80	mmol/L
	>16yrs	0.70 – 1.50	mmol/L
Magnesium		0.70 – 1.0	mmol/L

IRON METABOLISM

Test Group – Iron Metabolism	Detail		Range	Units
Iron	0 - 2 months		10 – 31	µmol/L
	2 months - 1year		4.0 – 27	µmol/L
	1 - 3 years		5.0 – 23	µmol/L
	3 - 10 years		6.0 – 25	µmol/L
	10 - 18 years		8.0 – 32	µmol/L
	Adult		10 - 30	µmol/L
Transferrin			1.7 – 3.4	g/L
Transferrin Saturation	0 – 2mths		0.35 – 0.94	
	2mths – 1yr		0.1 – 0.46	
	1 – 3yrs		0.1 – 0.42	
	3 – 10yrs		0.14 – 0.45	
	10 – 18yrs		0.15 – 0.50	
	>18yrs		0.15 – 0.50	
Ferritin	Female	0 - 5 months	15 - 400	ug/L
		5 - 11 months	15 - 80	ug/L
		1 - 14 years	15 - 150	ug/L
		15 - 19 years	15 - 170	ug/L
		20 - 29 years	20 - 170	ug/L
		30 - 40 years	20 - 190	ug/L
		>40 years	20 - 380	ug/L
	Male	0 - 5months	15 - 400	ug/L
		5 - 11 months	15 - 80	ug/L
		1 - 14 years	15 - 150	ug/L
		15 - 19 years	15 - 170	ug/L
		20 - 29 years	20 - 320	ug/L
		30 - 40 years	20 - 400	ug/L
		>40 years	20 - 450	ug/L

Last Reviewed:	Authorized	Quality Manager, Labtests Auckland	Chemical Pathologist, Labtests Auckland
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