

PATIENT NAME



DOB	AGE	SEX	SAMPLE RECEIVE DATE/TIME	YOUR REF	REFERRING DOCTOR
	35 Y	F	APR 04 2025 06:20	-	NOT PROVIDED

ANALYTE	RESULT	SI UNIT	REF RANGE	RESULT	CONV UNIT	REF RANGE
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Transfusion Serology

ABO Typing with Rh B Rh(D) Positive

Complete Blood Count

Red Cell Count	4.70	10 ¹² /L	3.80 - 5.50		
Hemoglobin	142	g/L	115 - 165		
HCT	0.42	L/L	0.35 - 0.47		
MCV	90	fL	78 - 99		
MCH	30	pg	27 - 32		
MCHC	337	g/L	300 - 360		
RDW-CV	13.4	%	11.0 - 15.0		
White Cell Count	6.41	10 ⁹ /L	4.00 - 11.00		
Neutrophils	3.60	10 ⁹ /L	2.00 - 8.00	56.2	%
Lymphocytes	2.13	10 ⁹ /L	1.00 - 4.00	33.2	%
Monocytes	0.45	10 ⁹ /L	<= 1.10	7.0	%
Eosinophils	0.17	10 ⁹ /L	<= 0.70	2.7	%
Basophils	0.06	10 ⁹ /L	<= 0.10	0.9	%
Platelet Count	▼ 110	10 ⁹ /L	150 - 400		

Results have been verified with repeat analysis, slide and/or scattergram review.

Anaemia Studies

Iron	14.1	umol/L	9.0 - 30.4	79	ug/dL	50 - 170
TIBC	66.7	umol/L	44.7 - 71.6	373	ug/dL	250 - 400
Ferritin	14.32	ng/mL	4.63 - 204.00	14.32	ng/mL	4.63 - 204.00
Transferrin	255	mg/dL	202 - 336	32.0	umol/L	25.4 - 42.2
% Transferrin Saturation	21	%	14 - 50			

Renal Function

Sodium	137	mmol/L	136 - 145	137	meq/L	136 - 145
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RESULT FLAGS ▼ Low ▼▼ Critical Low ▲ High ▲▲ Critical High

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ANALYTE	RESULT	SI UNIT	REF RANGE	RESULT	CONV UNIT	REF RANGE
Creatinine (with eGFR)	58.6	umol/L	50.4 - 98.1	0.662	mg/dL	0.570 - 1.109
eGFR	117.2*	mL/min/1.73m ²	>= 60.0			

Estimated glomerular filtration rate (eGFR) is invalid for pregnant women, those with extreme body size, muscle mass and nutritional status.

*The CKD-EPI equation is applicable only for 18 years old and above. All estimating equations used in adult populations become less accurate as GFR increases, such as in people with normal kidney function. Please correlate clinically.

Potassium	4.5	mmol/L	3.5 - 5.1	4.5	meq/L	3.5 - 5.1
Chloride	103	mmol/L	98 - 107	103	meq/L	98 - 107
Urea / BUN	3.9	mmol/L	2.5 - 6.7	11	mg/dL	7 - 19
Uric Acid	309	umol/L	150 - 350	5.28	mg/dL	2.57 - 5.99

Mineral and Vitamin Studies

Calcium	2.31	mmol/L	2.15 - 2.55	9.2	mg/dL	8.6 - 10.2
25-OH Vitamin D	▼ 49.4	nmol/L	75.0 - 100.0	19.76	ng/mL	30.00 - 40.00
Phosphorus	1.26	mmol/L	0.74 - 1.51	3.92	mg/dL	2.30 - 4.70
Magnesium	0.87	mmol/L	0.66 - 1.07	2.11	mg/dL	1.60 - 2.60

Anaemia Studies

Vitamin B12	265.0	pmol/L	138.0 - 652.0	359	pg/mL	187 - 883
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Liver Function

Total Protein	73.0	g/L	64.0 - 83.0	7.30	g/dL	6.40 - 8.30
Albumin	43.0	g/L	35.0 - 52.0	4.30	g/dL	3.50 - 5.20
Globulin	30.0	g/L	21.0 - 35.0	3.00	g/dL	2.10 - 3.50
A/G Ratio	1.4	ratio	0.8 - 2.0	1.4	ratio	0.8 - 2.0
ALT (SGPT)	13	IU/L	< 55	13	U/L	< 55

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ANALYTE	RESULT	SI UNIT	REF RANGE	RESULT	CONV UNIT	REF RANGE
AST (SGOT)	23	U/L	5 - 34	23	U/L	5 - 34
GGT	17	U/L	9 - 36	17	U/L	9 - 36
Alkaline Phosphatase (ALP)	62.0	IU/L	40.0 - 150.0	62.0	U/L	40.0 - 150.0
Bilirubin (Total)	6.9	umol/L	3.4 - 20.5	0.40	mg/dL	0.20 - 1.20
Bilirubin (Direct)	2.2	umol/L	0.0 - 8.6	0.13	mg/dL	0.00 - 0.50
Bilirubin (Indirect)	4.7	umol/L		0.28	mg/dL	

No established reference value for this test. Please correlate clinically.

Lipid Studies

Total Cholesterol	▲ 5.52	mmol/L	< 5.20	213	mg/dL	< 200
HDL Cholesterol	1.75	mmol/L	> 1.03	68	mg/dL	> 40
Non-HDL Cholesterol	▲ 3.77	mmol/L	< 3.36	146	mg/dL	< 130
Triglycerides	1.14	mmol/L	< 1.70	101	mg/dL	< 150
LDL Cholesterol	▲ 3.25	mmol/L	< 2.58	126	mg/dL	< 100
VLDL Cholesterol	0.52	mmol/L	< 0.80	20	mg/dL	< 31
Total Cholesterol/HDL	3.15	ratio	< 5.00	3.2	ratio	< 5.0
Apolipoprotein A1	1.78	g/L	1.01 - 2.23	178	mg/dL	101 - 223
Apolipoprotein B	1.03	g/L	0.53 - 1.82	103	mg/dL	53 - 182
Lipoprotein a - Lp(a)	7.4	mg/dL	< 30.0	0.1	g/L	< 0.3

Cardiac and Vascular Markers

Creatine Kinase (CK)	53	U/L	29 - 168	53	IU/L	29 - 168
CK-MB	▲ 36	IU/L	< 25	36	IU/L	< 25
CK-MM	17.0	U/L		17.0	U/L	
CK-MM Activity %	▼ 32.1	%	96.0 - 100.0	32.1	%	96.0 - 100.0

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ANALYTE	RESULT	SI UNIT	REF RANGE	RESULT	CONV UNIT	REF RANGE
LDH	220	U/L	125 - 220	220	U/L	125 - 220
hsCRP	0.6	mg/L	<= 5.0	0.06	mg/dL	<= 0.50
		Lower risk	< 1.0		Lower risk	< 0.10
		Average risk	1.0 - 3.0		Average risk	0.10 - 0.30
		Higher risk	> 3.0		Higher risk	> 0.30
		Inflammation	> 10.0		Inflammation	> 1.00

Cardiovascular disease risk classification presented according to American Heart Association and U.S. Centers for Disease Control and Prevention.

hsTroponin I <10.0 pg/mL < 15.60 <10.0 ng/L < 15.6

No established reference range available for those beyond the age group of 21 - 75 years old for female patient and 21 - 73 years old for male patient.

Reference range:
 Male 21 - 73 years old: <34.20 pg/mL
 Female 21 - 75 years old: <15.60 pg/mL

Diabetic Studies

Glucose (Fasting)	5.37	mmol/L	3.89 - 5.83	96.76	mg/dL	70.09 - 105.04
HbA1c (IFCC)	35.0	mmol/mol	20.2 - 37.7	35.0	mmol/mol	20.2 - 37.7
		Non-diabetic: 20.2 - 37.7 mmol/mol Pre-diabetes: 38.8 - 46.4 mmol/mol Diabetic: >=47.5 mmol/mol				
HbA1c (NGSP)	5.30	%	4.00 - 5.60	5.30	%	4.00 - 5.60
		Non-diabetic: 4.0 - 5.6 % Pre-diabetes: 5.7 - 6.4 % Diabetic: >=6.5 %				

Estimated Average Glucose (eAG) 5.9 mmol/L 105 mg/dL

Method: Ion Exchange High Performance Liquid Chromatography (HPLC)

Insulin (Fasting) 6.6 uIU/mL 4.0 - 10.0 46.0 pmol/L 27.9 - 69.8

Pancreatic Studies

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Lipase	45	IU/L	8 - 78	45	U/L	8 - 78
Amylase	97	U/L	25 - 125	97	U/L	25 - 125

Thyroid Function

TSH	2.309	mIU/L	0.350 - 4.940	2.309	uIU/mL	0.350 - 4.940
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Please note the revision in reference interval due to the change in methodology from Roche Electrochemiluminescence Immunoassay to Abbott Chemiluminescent Microparticle Immunoassay.

FT4	11.23	pmol/L	9.00 - 19.00	0.87	ng/dL	0.70 - 1.48
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Please note the revision in reference interval due to the change in methodology from Roche Electrochemiluminescence Immunoassay to Abbott Chemiluminescent Microparticle Immunoassay.

FT3	4.08	pmol/L	2.43 - 6.01	266	pg/dL	158 - 391
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Please note the revision in reference interval due to the change in methodology from Roche Electrochemiluminescence Immunoassay to Abbott Chemiluminescent Microparticle Immunoassay.

Arthritis Studies

Anti-CCP	1.6	IU/mL	< 2.50	1.6	kU/L	< 2.5
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Rheumatoid Factor (RF)	<20.0	IU/mL	< 30.0	<20.0	kIU/L	< 30.0
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Important Notice

This lab report is intended to be interpreted by a qualified medical doctor in conjunction with clinical evaluation and other diagnostic procedures.

Validated by

Scientist
 Pathologist

Sample Collection Date/Time

EDTA WB Apr 04 2025 06:22
 FluorideF Apr 04 2025 06:22
 Serum Apr 04 2025 06:22

Test Status

Released SGD5FOR50

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