



4131609

BIOCHEMISTRY

BLOOD - SERUM

Result Range Units

UEC (Renal)

Sodium	136	135 - 145	mmol/L	
Potassium	4.1	3.5 - 5.2	mmol/L	
Chloride	101	95 - 110	mmol/L	
Bicarbonate	23	20 - 32	mmol/L	
Anion Gap	17 *H	8 - 16	mmol/L	
Urea	3.1	2.5 - 7.0	mmol/L	
Creatinine (mmol/L)	0.07	0.05 - 0.10	mmol/L	
Creatinine	75	45 - 90	umol/L	
Estimated GFR	90	> 90	ml/min/1.73m2	

UEC Comment

ELEVATED ANION GAP:

An elevated anion gap indicates metabolic acidosis. In uncontrolled diabetes, there is an increase in ketoacids due to metabolism of ketones. In these conditions, bicarbonate concentrations decrease by acting as a buffer against the increased presence of acids (as a result of the underlying condition). The bicarbonate is consumed resulting in a high anion gap.

ESTIMATED GFR COMMENT:

eGFR (mL/min/1.73m2) is calculated by the laboratory using the CKD-EPI formula
eGFR > 90 mL/min/1.73 sq.m - Normal GFR

LIVER FUNCTION TESTS

Bilirubin (Total)	42 *H	0 - 20	umol/L	
ALP	55	30 - 110	units/L	
GGT	6	5 - 35	units/L	
ALT	12	10 - 35	units/L	
AST	22	10 - 35	units/L	
Protein - Total	69	60 - 80	g/L	
Albumin	42	33 - 48	g/L	
Globulin	27	26 - 39	g/L	

LFT Comment

ELEVATED TOTAL BILIRUBIN:

Total bilirubin comprises unconjugated, conjugated and delta bilirubin, whereas direct bilirubin comprises conjugated and delta bilirubin.
High levels of total and direct bilirubin are seen with hepatocellular disease or biliary disease (intra- or extra-hepatic).

Ferritin	124	30 - 150	ug/L	
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1/39 WAGAWN STREET
TUGUN QLD 4224

ANIK LEVAC
03-Jul-1991 **Female**

2/51 WINCHESTER STREET
SOUTHPORT QLD 4215

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Iron Studies Comment

FERRITIN COMMENT:

Serum ferritin levels >30 µg/L demonstrates healthy iron stores as long as co-existing inflammatory disease or hepatocellular damage are not present.

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LIPIDS

Cholesterol	4.4	0.0 - 5.5	mmol/L	
Triglycerides	1.1	0.0 - 2.0	mmol/L	

LIPID STUDIES

HDL(Protective)	2.0	1.0 - 2.2	mmol/L	
Non-HDL Cholesterol	2.46	< 4.0	mmol/L	
LDL(Atherogenic)	2.0	0.0 - 3.4	mmol/L	
Cholesterol/HDL Ratio	2.2			
LDL/HDL RATIO (Risk Factor)	1.0	0.0 - 3.2		
Trig/HDL Ratio	0.6	0.5 - 1.7	RATIO	

Lipid Profile Comment

Target Levels for the general population and the National Vascular Disease Prevention Alliance (NVDPA) treatment target levels for high-risk people (known coronary heart and other arterial diseases, diabetes, chronic renal failure, Aboriginal and Torres Strait Islander peoples and familial hyperlipidaemic conditions) are:

	Tot. Cholesterol	LDL-Cholesterol	HDL-Cholesterol
General population:	<5.5 mmol/L	<3.0 mmol/L	M: >=1.0, F: >=1.0 mmol/L
At risk individuals:	<4.0 mmol/L	<2.5 mmol/L	

At risk:

Fasting Triglycerides:	<2.0 mmol/L
Non-HDL Cholesterol:	<3.3 mmol/L

National guidelines generally specify specific targets, refer to www.cvdcheck.org.au

Insulin (Fasting)	7.2	0.0 - 17.0	mU/L	
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BLOOD - EDTA

GHB Profile

Glycosylated Hb	5.5	3.5 - 6.0	%	
Glycosylated Hb (IFCC)	37.0	15.0 - 42.0	mmol/mol	
Estimated Average Glucose	6.2		mmol/L	

Glycated Haemoglobin Comment

GLYCOSYLATED HAEMOGLOBIN COMMENT:

Comment:

HbA1c: 3.5 - 6.0% (15-42 mmol/mol) .
HbA1c: 6.1 - 6.4% (43-47 mmol/mol) indeterminate.
HbA1c: >=6.5% (>=48 mmol/mol) diagnostic of diabetes.

The result reflects the average glucose concentration over the life of the red cells although some methods give a falsely high reading if the patient is hyperglycaemic when the blood is collected.



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SPECIMEN RECEPTION

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Test Verification

PLEASE NOTE:

The results for this episode that are out of range have been verified through repeat testing of the specimen.

Tests ordered: BioPEI,CFee,eGFR,FATS,FERR,GHB,GOG257,GOG258,GOG259,GOG260,INSF,ISCom,LFT,LIP,UEC,UECom,VERIF

(*) Result outside normal reference range

(H) Result is above upper limit of reference range