

Lab ID 851501990

DOB 22/07/2007 (17 Yrs MALE)

Referrer Ms Suzanne Ellis

Your ref.

Address SUZANNE ELLIS HERBALIST 14A HARE STREET
GLENBROOK NSW 2773

Address 131 RIVER ROAD
EMU PLAINS NSW 2750

Phone 0413923791

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Requested 22/08/2024

Clinical Notes FASTING

Collected 22/08/2024 09:26

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Biochemistry

Test Name	Result	Units	Reference Interval	Comment
Status	Fasting			
Sodium	141	mmol/L	135 - 145	
Potassium	4.2	mmol/L	3.5 - 5.5	
Chloride	106	mmol/L	95 - 110	
Bicarbonate	27	mmol/L	20 - 32	
Urea	5.8	mmol/L	3.0 - 7.5	
Creatinine	85	umol/L	60 - 110	
Urate	0.40	mmol/L	0.20 - 0.50	
Calcium	2.46	mmol/L	2.25 - 2.65	
Corrected Calcium	2.28	mmol/L	2.25 - 2.60	
Phosphate	1.11	mmol/L	0.8 - 1.5	
● Total Bilirubin	86 H	umol/L	4 - 20	HIGH
Alk Phos	151	U/L	60 - 200	
Gamma GT	16	U/L	5 - 40	
LDH	195	U/L	120 - 250	
AST	25	U/L	10 - 40	
ALT	21	U/L	5 - 40	
Total Protein	74	g/L	65 - 82	
● Albumin	52 H	g/L	39 - 50	HIGH
● Globulin	22 L	g/L	23 - 39	LOW
Cholesterol	2.9	mmol/L	<5.5	
Triglycerides	0.8	mmol/L	<2.0	

Comments

Increased total bilirubin. In the absence of haemolysis, a mildly elevated indirect bilirubin may be due to Gilbert's syndrome. If indicated, bilirubin fractionation is suggested.

NATA ACCREDITATION NO 2178

23-08-2024 06:30

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Iron Studies

Test Name	Result	Units	Reference Interval	Comment
Iron	23.2	umol/L	5.0 - 30.0	
Transferrin	2.5	g/L	2.0 - 3.2	
TIBC (Calculated)	56	umol/L	46 - 70	
Saturation	41	%	10 - 45	
Ferritin	70	ug/L	30 - 300	

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23-08-2024 00:50

25-OH Vitamin D

Test Name	Result	Units	Reference Interval	Comment
Vitamin D	94	nmol/L	50 - 140	

Comments

According to the Position Statement 'Vitamin D and health in adults in Australia and New Zealand' MJA, 196(11):686-687, 2012, Vitamin D status is defined as:

Mild Deficiency	30	-	49 nmol/L
Moderate Deficiency	12.5	-	29 nmol/L
Severe Deficiency	<12.5		nmol/L

Vitamin D adequacy can be defined as a level >49 nmol/L at the end of winter - the level may need to be 10 - 20 nmol/L higher at the end of summer, to allow for seasonal decrease.
From 1st November 2014, Medicare rebates for vitamin D testing will apply to patients at risk of Vitamin D deficiency such as chronic lack of sun exposure.

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23-08-2024 01:06

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Heavy Metals

Serum Copper	12	umol/L	12 - 22
Serum Zinc	16	umol/L	10 - 18

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26-08-2024 18:47

Glucose

Test Name	Result	Units	Reference Interval	Comment
Glucose Fasting	5.0	mmol/L	3.6 - 6.0	

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22-08-2024 19:37

Thyroid Function

Test Name	Result	Units	Reference Interval	Comment
TSH	0.88	mIU/L	0.35 - 6.00	
Free T4	14.0	pmol/L	8.0 - 22.0	
Free T3	4.9	pmol/L	2.6 - 6.0	

Comments

Euthyroid values.

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Haemoglobin A1c

Test Name	Result	Units	Reference Interval	Comment
HbA1c (IFCC)	31	mmol/mol	20 - 38	
HbA1c (NGSP)	5.0	%	4.0 - 5.6	

Comments

HbA1c less than 48 mmol/mol (6.5%) does not exclude a diagnosis of diabetes mellitus based upon elevated glucose results. The existing diagnostic criteria for fasting and random glucose levels and for oral glucose tolerance testing remain valid, and are the diagnostic tests of choice for type 1 diabetes and in the presence of conditions that interfere with HbA1c measurement. Conditions which may affect the measured HbA1c value include any of the haemolytic anaemias, anaemia of chronic disease, severe liver disease, vitamin B12 and/or folate deficiency, the haemoglobinopathies and regular phlebotomy performed for medical indications or for blood donation. It also should be noted that further investigation is required for any inexplicably low HbA1c level or significant discrepancy between HbA1c and glucose results.

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22-08-2024 23:59

Vitamin B12 and Folate

Test Name	Result	Units	Reference Interval	Comment
Vitamin B12	621	pmol/L	135 - 650	
Serum Folate	18.7	nmol/L	>7.0	

Comments

From 27 November 2023, active B12 (holotranscobalamin) testing will be performed on all patients with low or equivocal (at or below 400 pmol/L) total B12 results. Both tests are eligible for a Medicare rebate under these circumstances.

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23-08-2024 07:45

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Haematology

Test Name	Result	Units	Reference Interval	Comment
● Haemoglobin	181 H	g/L	130 - 180	HIGH
Red cell count	6.2	$\times 10^{12}/L$	4.5 - 6.5	
Haematocrit	0.51		0.39 - 0.54	
MCV	82	fL	78 - 96	
MCH	29.2	pg	26.0 - 32.0	
MCHC	356	g/L	310 - 360	
RDW	11.7		10.0 - 15.0	
White cell count	5.3	$\times 10^9/L$	4.0 - 11.0	
Neutrophils	3.14	$\times 10^9/L$	1.8 - 8.0	
Lymphocytes	1.54	$\times 10^9/L$	1.0 - 4.0	
Monocytes	0.44	$\times 10^9/L$	0.0 - 1.0	
Eosinophils	0.10	$\times 10^9/L$	0.0 - 0.5	
Basophils	0.04	$\times 10^9/L$	0.0 - 0.3	
NRBC	<1.0	/100 WBC	<1	
Platelets	210	$\times 10^9/L$	150 - 450	
ESR	2	mm/h	1 - 15	

Comments

Hb elevated slightly

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