

Referrer Dr Maureen Harrington

Address LEVEL 8 309 PITT STREET

SYDNEY NSW 2000

Copy to Ms Alexandra Middleton (0410503376)

### JAN KENNINGS

Lab ID 295862833

DOB 05/09/1961 (57 Y FEMALE)

Your ref.

Address 16 KENDALL ST

WOOLLAHRA NSW 2025

Phone 0404362334

Requested 07/02/2019

Collected 11/02/2019 07:42 AEDT Received 11/02/2019 07:44 AEDT

Phone 0292678793

Biochemistry

Test Name	Result	Units	Reference Interval	
Status	Fasting			
Sodium	139	mmol/L	135 - 145	
Potassium	4.2	mmol/L	3.5 - 5.5	
Chloride	105	mmol/L	95 - 110	
Bicarbonate	25	mmol/L	20 - 32	
Urea	5.3	mmol/L	3.0 - 8.0	
Creatinine	60	umol/L	45 - 85	
eGFR	>90	mL/min/1.73m2	>59	
Urate	0.20	mmol/L	0.15 - 0.40	
Calcium	2.45	mmol/L	2.15 - 2.55	
Corrected Calcium	2.41	mmol/L	2.15 - 2.55	
Phosphate	1.22	mmol/L	0.8 - 1.5	
Total Bilirubin	37 H	umol/L	3 - 15	
Alk Phos	58	U/L	30 - 115	
Gamma GT	15	U/L	5 - 35	
LDH	170	U/L	120 - 250	
AST	22	U/L	10 - 35	
ALT	27	U/L	5 - 30	
Total Protein	68	g/L	64 - 83	
Albumin	45	g/L	36 - 47	
Globulin	23	g/L	23 - 39	
Cholesterol	5.9 H	mmol/L	3.9 - 5.5	
Triglycerides	0.6	mmol/L	0.5 - 1.7	

### Comments

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

eGFR (mL/min/1.73m2) calculated by CKD-EPI formula - see www.kidney.org.au

Supervising Pathologist: GC, NT







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#### Iron Studies

Test Name	Result	Units	Reference Interval	
Iron	11.2	umol/L	5.0 - 30.0	
Transferrin	2.8	g/L	2.0 - 3.2	
TIBC (Calculated)	62	umol/L	46 - 70	
Saturation	18	%	10 - 45	
Ferritin	77	ug/L	30 - 300	

Supervising Pathologist: GC, NT

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#### Microalbumin, Random Urine

Test Name	Result	Units	Reference Interval	
U-Creatinine	6.6	mmol/L		
R U-Albumin	<3.0	mg/L		
R U-Albumin/Creat	<0.5	mg/mmol	<3.5	

#### Comments

The urine microalbumin concentration is below the test's lower limit of detection (<3.0 mg/L). The above calculated microalbumin:creatinine ratio is expressed as maximum possible value.

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#### 25-OH Vitamin D

Test Name	Result	Units	Reference Interval	
Vitamin D	84	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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#### Lipids and HDL

Test Name	Result	Units	Reference Interval	
Status	Fasting			
<ul><li>Cholesterol</li></ul>	5.9 H	mmol/L	3.9 - 5.5	
Triglycerides	0.6	mmol/L	0.5 - 1.7	
HDL Cholesterol	2.3 H	mmol/L	0.9 - 2.1	
LDL Cholesterol	3.3	mmol/L	1.7 - 3.5	

#### Comments

According to current guidelines (Position Statement 2005),

suggested targets are:

HDL Cholesterol >1.0 mmol/L

LDL Cholesterol <2.0 mmol/L (for patients at high risk)

< 2.5 mmol/L (for patients at lower risk)

Triglycerides <1.5 mmol/L

Supervising Pathologist: GC, NT

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#### Glucose

Test Name	Result	Units	Reference Interval	
Glucose Fasting	4.7	mmol/L	3.6 - 6.0	

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13/03/2019 16:22:42 AEST Accredited for compliance with NPAAC standards and ISO 15189



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#### Thyroid Function

Test Name	Result	Units	Reference Interval	
TSH	2.30	mIU/L	0.40 - 4.00	

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#### Haemoglobin A1c

Test Name	Result	Units	Reference Interval	
HbA1c (IFCC)	32	mmol/mol	20 - 38	
HbA1c	5.1	%	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 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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#### Vitamin B12 and Folate

Test Name	Result	Units	Reference Interval	
• Vitamin B12	651 H	pmol/L	135 - 650	
Serum Folate	35.7	nmol/L	>7.0	

#### Comments

From 8 March 2014, active B12 (holotranscobalamin) testing will be performed on all patients with low or equivocal (at or below 340 pmol/L) total B12 results. Both tests are eligible for a Medicare rebate under these circumstances.

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#### Haematology

Test Name	Result	Units	Reference Interval	
Haemoglobin	135	g/L	119 - 160	
Red cell count	4.4	x10^12/L	3.8 - 5.8	
Haematocrit	0.41		0.35 - 0.48	
MCV	94	fL	80 - 100	
MCH	31.0	pg	27.0 - 32.0	
MCHC	330	g/L	310 - 360	
RDW	13.7		10.0 - 15.0	
<ul> <li>White cell count</li> </ul>	23.0 H	x10^9/L	4.0 - 11.0	
<ul><li>Neutrophils</li></ul>	1.45 L	x10^9/L	2.0 - 7.5	
<ul><li>Lymphocytes</li></ul>	20.42 H	x10^9/L	1.0 - 4.0	
Monocytes	0.87	x10^9/L	0.0 - 1.0	
Eosinophils	0.17	x10^9/L	0.0 - 0.5	
Basophils	0.06	x10^9/L	0.0 - 0.3	
NRBC	<1.0	/100 WBC	<1	
Platelets	150	x10^9/L	150 - 450	

#### Comments

Red Cell Morphology: Anisocytosis +, Poikilocytosis +.

Mild neutropenia Moderate lymphocytosis with smudge cells Consistent with known chronic lymphocytic leukaemia

Supervising Pathologist: FH







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#### Coeliac Serology

Deamidated Gliadin IgA	<1	U/mL	<15
Deamidated Gliadin IgG	<1	U/mL	<15
Tissue Transglutaminase IgA	<1	U/mL	<15
Tissue Transolutaminase IgG	<1	U/mI	< 15

#### Comments

From 03/06/2013, all requests for coeliac serology will be analysed by a multiplex assay which simultaneously detects deamidated gliadin IgA and IgG as well as tissue transglutaminase IgA and IgG antibodies. All four results are reported regardless of request and if selective IgA deficiency is detected (<0.07 g/L) which would render IgA-based serology non-informative this is also reported.

In a person eating wheat, the presence of one positive antibody may occur without coeliac disease while multiple positive antibodies strongly predict coeliac disease which should be confirmed by biopsy. For monitoring coeliac disease, IgA antibodies may become negative after 6-9 months of gluten restriction while IgG antibodes may take 9-12 months; persistent positive serology suggests non-compliance. Risk of coeliac disease may be effectively excluded if HLA-DQ2 or HLA-DQ8 are not detected in persons with discordant serology or positive family history. Endomysial IgA antibodies can be performed on request but we believe they have limited clinical utility with our new deamidated gliadin and TTG assays.

Supervising Pathologist: KB

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