

NEWMAN, LAUREN EASTLAKES. 2018
 3/10 EVANS AVE, Sex: F Medicare Number: 2666557506
 Birthdate: 18/08/1980 Lab Reference: 19-17835297-LIP-0^
 Your Reference: 00016334
 Laboratory: Lavery Pathology
 Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: LIPID STUDIES (LIP-0)
 Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019
 13:50

LIPID STUDIES

Specimen Type: Serum

Reference intervals are included for reference only, and interpretation / treatment goals should be guided by patient-specific cardiovascular risk assessment (see Australian Cardiovascular Risk Charts. Alternatively, the web-site www.cvdcheck.org.au can be accessed in order to complete a risk assessment for individual patients.)

Haemolysis Nil
 Icterus Nil
 Lipaemia Nil

	Fasting		
Total Cholesterol	3.5	mmol/L	(3.6-5.2)
Triglycerides	0.3	mmol/L	(0.5-1.7)
HDL Cholesterol	1.2	mmol/L	(1.0-2.0)
LDL Cholesterol	2.2	mmol/L	(1.5-3.4)
Non-HDL Cholesterol	2.3	mmol/L	(< 3.4)
Cholesterol/HDL-C Ratio	2.9		(< 4.5)

NVDPA TARGET LIPID RANGES (MMOL/L) FOR PATIENTS AT HIGH / MODERATE RISK OF CARDIOVASCULAR DISEASE:

TOTAL CHOLESTEROL	<4.0
TRIGS (FASTING)	<2.0
HDL-C	>= 1.0
LDL-C	<2.0
NON HDL-C	<2.5

LDL-C exceeds target for higher risk patients and may be excessive in some individuals.

Requested Tests : VBF*, TFT*, TAA*, SOM*, GLU, CDG*, MBA, LIP, IMM, FE*, FBE, DVI*, COE*, APL*, A1C

NEWMAN, LAUREN EASTLAKES. 2018
 3/10 EVANS AVE, Sex: F Medicare Number: 2666557506
 Birthdate: 18/08/1980 00016334 Lab Reference: 19-17835297-MBA-Q^
 Your Reference: 00016334
 Laboratory: Lavery Pathology
 Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: SERUM CHEMISTRY (MBA-0)
 Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019
 13:50

SERUM CHEMISTRY

Specimen Type: Serum

Haemolysis Nil
 Icterus Nil
 Lipaemia Nil

Sodium	141	mmol/L	(135-145)
Potassium	4.2	mmol/L	(3.6-5.4)
Chloride	108	mmol/L	(95-110)
Bicarbonate	25	mmol/L	(22-32)
Anion Gap	12	mmol/L	(10-20)
Urea	5.5	mmol/L	(2.5-8.0)
Creatinine	50	umol/L	(45-90)
eGFR	> 90		mL/min/1.73m ²
Bilirubin	7	umol/L	(< 15)
AST	21	U/L	(< 30)
ALT	20	U/L	(< 30)
GGT	9	U/L	(< 30)
Alkaline Phosphatase	58	U/L	(20-105)
Protein	67	g/L	(60-82)
Albumin	44	g/L	(38-50)
Globulin	23	g/L	(20-39)

eGFR ≥ 90 mL/min/1.73m² usually indicates normal kidney function but does not exclude patients with early kidney damage (those with albuminuria, haematuria or abnormal kidney imaging).

Requested Tests : VBF*, TFT*, TAA*, SOM*, GLU, CDG*, MBA, LIP, IMM, FE*, FBE, OVI*, COE*, APL*, A1C

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, 18/08/1980 Sex: F Medicare Number: 2666557506
Birthdate: 18/08/1980 00016334 Lab Reference: 19-17835297-TFT-0~
Your Reference: 00016334
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: THYROID FUNCTION TEST (TFT-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019
14:03

		THYROID PROFILE	
Request Number		22956764	17835297
Date Collected		21 Jun 16	30 Mar 19
Time Collected		16:05	08:30
Specimen Type:	Serum		
TSH	(0.5-4.0) mIU/L	0.96	1.1
FT4	(10-20) pmol/L	17	
FT3	(3.5-6) pmol/L	3.4	

Result(s) consistent with euthyroidism.

Please note the above reference intervals have been developed from a non-pregnant healthy general population study.

Please note that without a specific indication, Medicare does not fund FT4 and FT3 testing in patients with normal TSH results. If these tests are clinically indicated please contact the laboratory.

Requested Tests : VBF*, TFT, TAA*, SOM*, GLU, CDG*, MBA, LIP, IMM, FE*, FBE, DVI*, COE*, APL*, A1C

LAUREN EASTLAKES. 2018 Medicare Number: 2666557506
NEWMAN, 3/10 EVANS AVE, EASTLAKES. 2018
Birthdate: 18/08/1980 Sex: F Medicare Number: 2666557506
Your Reference: 00016335 Lab Reference: 19-17835298-HOR-0^
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: HORMONE PROFILE (HOR-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019
14:10

SERUM HORMONE PROFILE

Specimen Type: Serum					
Request	Date	FSH	LH	OEST2	PROG
Number	Collected	IU/L	IU/L	pmol/L	nmol/L
17835298	30 Mar 19	9	4.0	85	
Reference Ranges					
Follicular		2-12	2-12	100-530	0.5-4.5
Midcycle		12-30	>15	235-1300	
Luteal		2-12	2-15	205-790	10.6-89.1
Menopausal		>25	>10	<100	
Prepubertal		<6	<4		

Requested Tests : PRL, HOR, AND*

2018
NEWMAN, LAUREN EASTLAKES.
3/10 EVANS AVE, 18/08/1980 Sex: F
Birthdate: 18/08/1980
Your Reference: 00016334
Laboratory: Lavery Pathology
Addressee: DR DAVINA HILEY

2018
Medicare Number: 2666557506
Lab Reference: 19-17835297-VBF-0~

Referred by: DR DAVINA HILEY

Name of Test: B12, FOLATE, R.C.FOLATE (VBF-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019
14:14

VITAMIN B12 AND FOLATE STUDIES

Vitamin B12 415 pmol/L (301-740)
Serum Folate > 54.0 nmol/L (> 9.0)

Folate Interpretation:

	DEFICIENCY	BORDERLINE	SUFFICIENCY
Serum Folate:	<4.5 nmol/L	4.5 - 9.0 nmol/L	>9.0 nmol/L
RBC Folate:	<340 nmol/L	340 - 570 nmol/L	>570 nmol/L

Serum Folate Assay:

In the absence of recent oral intake, a serum folate >9.0 nmol/L effectively rules out folate deficiency.

Please note that Medicare requirements for folate testing reflect current best practice. Red cell folate will be reserved for patients with borderline values for serum folate (between 4.5 and 9.0 nmol/L.)

Requested Tests : VBF, TFT, TAA*, SOM*, GLU, CDG*, MBA, LIP, IMM, FE, FBE, DVI*, COE*, APL*, A1C

LAUREN EASTLAKES. 2018 Medicare Number: 2666557506
3/10 EVANS AVE, EASTLAKES. F 19-17835298-AND-0^

NEWMAN, LAUREN EASTLAKES. 2018 Medicare Number: 2666557506
18/08/1980 Sex: F
Your Reference: 00016334
Laboratory: Lavery Pathology
Addressee: DR DAVINA HILEY
Lab Reference: 19-17835297-TAA-0^

Referred by: DR DAVINA HILEY

Name of Test: THYROID AUTOANTIBODIES (TAA-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 01/04/2019
16:38

THYROID AUTOANTIBODIES

Specimen Type: Serum

Anti-Thyroglobulin Abs (Immulite)	< 20	IU/mL	(< 41)
Anti-Thyroidal Peroxidase Abs	< 28	IU/ml	(< 60)

Over 90% of patients with autoimmune thyroiditis show moderate to high levels of Anti-Thyroidal Peroxidase Abs (anti-TPO) with Anti-Thyroglobulin Abs (anti-Tg) also present in about 90% of such patients. Up to 75% of patients with Graves' hyperthyroidism show increased anti-TPO with anti-Tg present in 50-60%. Low levels of both anti-TPO and anti-Tg may be found in up to 10% of "normal" asymptomatic adults. In most cases of autoimmune thyroid disease increased anti-TPO is the predominant finding although a small proportion of patients show a predominant increase in anti-Tg.

Requested Tests : VBF, TFT, TAA, SOM*, GLU, CDG*, MBA, LIP, IMM, FE, FBE, DVI
COE*, APL*, A1C

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Birthdate: 18/08/1980 Sex: F Medicare Number: 2666557506
Your Reference: 00016334 Lab Reference: 19-17835297-COE-0^
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: COELIAC MASTER PANEL (COE-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 01/04/2019
17:14

COELIAC DISEASE SEROLOGY

Deamidated gliadin peptide IgA	1 U/mL	(< 15)
Deamidated gliadin peptide IgG	< 1 U/mL	(< 15)
Total IgA	2.41 g/L	(0.40-3.50)
Transglutaminase IgA	< 1 U/mL	(< 15)

No serological evidence of coeliac disease or dermatitis herpetiformis. False negative results may occur in affected individuals compliant with a gluten-free diet. Affected children aged under 5 years may also be negative for IgA- tissue transglutaminase antibodies.

All testing performed on serum or plasma unless otherwise specified.

Requested Tests : VBF, TFT, TAA, SOM*, GLU, CDG*, MBA, LIP, IMM, FE, FBE, DVI*, COE, APL*, A1C

NEWMAN, LAUREN
3/10 EVANS AVE, EASTLAKES. 2018
Birthdate: 18/08/1980 Sex: F Medicare Number: 2666557506
Your Reference: 00016334 Lab Reference: 19-17835297-APL-0
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: ANTI-PHOSPHOLIPID ABS (APL-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 01/04/2019
17:23

<u>ANTI PHOSPHOLIPID ANTIBODIES</u>			
Cardiolipin IgG	Negative	< 20	GPL (< 20)
Cardiolipin IgM	Negative	< 20	MPL (< 20)

Anti-cardiolipin antibodies were not detected. A proportion of patients with the anti-phospholipid syndrome are negative for anti-cardiolipin antibodies. Further testing for lupus anticoagulant and beta2-glycoprotein 1 antibodies is recommended.

All testing performed on serum or plasma unless otherwise specified.

Requested Tests : VBF, TET, TAA, SOM*, GLU, CDG*, MBA, LIP, IMM, FE, FBE, DVI*, COE, APL, A1C

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Birthdate: 18/08/1980 Sex: F Medicare Number: 2666557506
Your Reference: 00016334 Lab Reference: 19-17835297-SOM-0^
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: SOMATOMEDIN (SOM-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 01/04/2019
19:17

INSULIN-LIKE GROWTH FACTOR-1 (IGF-1)

Specimen Type: Serum

IGF-1 (Somatomedin C) 37 nmol/L (11-37)

Insulin-like growth factor 1 (IGF1) and insulin-like growth factor-binding protein 3 (IGFBP3) measurements can be used to assess growth hormone (GH) excess or deficiency. For all applications, IGF1 measurement has generally been shown to have superior diagnostic accuracy. In particular, for the diagnosis and follow-up of acromegaly and gigantism, IGFBP3 measurement adds little extra diagnostic information.

Requested Tests : VBF, TFT, TAA, SOM, GLU, CDG*, MBA, LIP, IMM, FE, FBE, DVI, COE, APL, A1C

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Sex: F Medicare Number: 2666557506
Birthdate: 18/08/1980
Your Reference: 00016334
Lab Reference: 19-17835297-DVI-0^
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: VITAMIN D (DVI-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 01/04/2019
19:17

VITAMIN D

Serum 25(OH) Vitamin D 88 nmol/L

Suggested decision limits for Vitamin D status:

Sufficiency	51 -200	nmol/L
Mild deficiency	25 - 50	nmol/L
Marked deficiency	< 25	nmol/L
Toxicity	>250	nmol/L

References: Vitamin D and health in adults in Australia and New Zealand:
Position Statement. MJA 2012 June 18; 196(11), 686-687.

Requested Tests : VBF, TFT, TAA, SOM, GLU, CDG*, MBA, LIP, IMM, FE, FBE, DVI,
COE, APL, A1C

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Sex: F Medicare Number: 2666557506
Birthdate: 18/08/1980
Your Reference: 00016335 Lab Reference: 19-17835298-AND-0^
Laboratory: Lavery Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: ANDROGENS (AND-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 01/04/2019

	SERUM ANDROGENS		
Sex Hormone Binding Globulin	92	nmol/L	(20-118)
DHEAS	6.2	umol/L	(1.9-7.3)
Androstenedione	9.5	nmol/L	(2.6-8.5)

Requested Tests : PRL, HOR, AND

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Birthdate: 18/08/1980 Sex: F Medicare Number: 2666557506
Your Reference: 00016334 Lab Reference: 19-17835297-FBE-0^
Laboratory: Lavery Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: HAEMATOLOGY (FBE-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 30/03/2019 20:31

HAEMATOLOGY

Date Collected
Time Collected
Specimen Type: EDTA

30 Mar 19
08:30

Hb	142 g/L	(115-165)	WBC	3.2 x10 ⁹ /L	(4.0-11.0)
RCC	4.1 x10 ¹² /L	(3.9-5.8)	Neut	1.7 x10 ⁹ /L	(2.0-7.5)
Hct	0.40	(0.34-0.47)	Lymp	1.3 x10 ⁹ /L	(1.0-4.0)
MCV	98 fL	(79-99)	Mono	0.2 x10 ⁹ /L	(0.2-1.0)
MCH	34 pg	(27-34)	Eos	0.0 x10 ⁹ /L	(< 0.7)
MCHC	351 g/L	(320-360)	Baso	0.0 x10 ⁹ /L	(< 0.2)
RDW	11.8 %	(10.0-17.0)			
Plat	199 x10 ⁹ /L	(150-400)			

HAEMATOLOGY: Slight neutropenia.

Requested Tests : VBF*, TFT*, TAA*, SOM*, GLU*, CDG*, MBA*, LIP*, IMM*, FE*, FBE, PL*, A1C

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Sex: F Medicare Number: 2666557506
Birthdate: 18/08/1980 00016334 Lab Reference: 19-17835297-FE-0^
Your Reference: 00016334
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY
Name of Test: IRON STUDIES (FE-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019

IRON STUDIES

Specimen Type: Serum			
Serum Iron	8	umol/L	(10-30)
Transferrin	29	umol/L	(32-48)
Transferrin Saturation	14	%	(13-45)
Serum Ferritin	32	ug/L	(30-165)

Transferrin may be decreased by inflammation (acute or chronic) or protein deficiency or loss.

Requested Tests : VBF, TFT, TAA*, SOM*, GLU, CDG*, MBA, LIP, IMM, FE, FBE, I

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NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Sex: F Medicare Number: 2666557506
Birthdate: 18/08/1980
Your Reference: 00016334 Lab Reference: 19-17835297-IMM-0^
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: IMMUNOGLOBULINS (IMM-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019
13:50

SERUM IMMUNOGLOBULINS

IgG	6.83	g/L	(6.50-16.00)
IgA	2.41	g/L	(0.40-3.50)
IgM	1.04	g/L	(0.53-3.00)

Requested Tests : VBF*, TFT*, TAA*, SOM*, GLU, CDG*, MBA, LIP, IMM, FE*, FBE,
DVI*, COE*, APL*, A1C

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Birthdate: 18/08/1980 Sex: F Medicare Number: 2666557506
Your Reference: 00016334 Lab Reference: 19-17835297-GLU-0^
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: GLUCOSE (GLU-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 31/03/2019
13:50

	<u>SERUM/PLASMA GLUCOSE</u>	
Fasting status	Fasting	
Serum	4.9 mmol/L	(3.4-5.4)

Normal glucose concentration.

Requested Tests : VBF*, TFT*, TAA*, SOM*, GLU, CDG*, MBA, LIP, IMM, FE*, FBE,
DVI*, COE*, APL*, A1C

NEWMAN, LAUREN
3/10 EVANS AVE, EASTLAKES. 2018
Birthdate: 18/08/1980 Sex: F Medicare Number:
Your Reference: 00016335 Lab Reference: 19-178
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HI

Name of Test: SERUM PROLACTIN (PRL-0)
Requested: 28/03/2019 Collected: 30/03/2019 Rep
13:02

PROLACTIN

Specimen Type: Serum

Request Number	Date Collected Ref Range	Prolactin mIU/L (40-570)
17835298	30/03/19	149

Requested Tests : PRL, HOR*, AND*

NEWMAN, LAUREN EASTLAKES. 2018
3/10 EVANS AVE, Birthdate: 18/08/1980 Sex: F Medicare Number: 2666557506
Your Reference: 00016334 Lab Reference: 19-17835297-A1C-0^
Laboratory: Laverty Pathology
Addressee: DR DAVINA HILEY Referred by: DR DAVINA HILEY

Name of Test: GLYCATED HAEMOGLOBIN (A1C-0)
Requested: 28/03/2019 Collected: 30/03/2019 Reported: 30/03/2019

20:22

GLYCATED HAEMOGLOBIN (HbA1c)

Specimen Type: EDTA

HbA1c- NGSP	5.0	%	(4.0-6.0)
HbA1c- IFCC	31	mmol/mol	(20-42)

The WHO recommends that an HbA1c cut-off of $\geq 6.5\%$ (48 mmol/mol) is used to diagnose type 2 diabetes.

While it is recognised that HbA1c levels approaching this cut-off place patients at increasingly higher risk of developing diabetes ($<6.5\%$), there is no consensus as to exactly which cut-off at the lower end of the continuum to use for categorising patients as high risk. Various groups quote lower limits for at-risk patients that vary between 5.5% and 6.0% (37 and 42 mmol/mol).

Please note that HbA1c should not be used for diagnosing diabetes mellitus in the following circumstances:

- Children and young people
- Pregnancy, - current or within the past 2 months
- Suspected Type 1 diabetes mellitus
- Symptoms of diabetes for <2 months
- Patients who are acutely ill
- Patients taking drugs that can cause rapid onset hyperglycaemia such as corticosteroids, antipsychotic drugs
- Acute pancreatic damage or pancreatic surgery
- Kidney failure
- Patients being treated for HIV infection

Please be cautious when requesting or interpreting HbA1c when patients:

- May have an abnormal haemoglobin
- May be anaemic
- May have an altered red cell lifespan (e.g. post-splenectomy)
- May have had a recent blood transfusion

Requested Tests : VBF*, TFT*, TAA*, SOM*, GLU*, CDG*, MBA*, LIP*, IMM*, FE