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-RACHEAL LEE (NPINS)
SHOP 6/115 SHINGLEY DRIVE
AIRLIE BEACH QLD 4802

AMANDA GOODHEW
13-Nov-1976 **Female**

19 LLOYD STREET
NARRABRI NSW 2390

LAB ID : 3888065
UR NO. : 6190842
Collection Date : 02-May-2023
Received Date : 04-May-2023



3888065

GENOMIC ASSESSMENTS

SWAB, Buccal Result Range Units

MTHFR Gene Mutation

MethyleneTetraHydroFolate Reductase (MTHFR) Gene Mutation.

MTHFR Gene Mutation (A1298C): **HETEROZYGOUS** for the mutation.

MTHFR Gene Mutation (C677T): **HETEROZYGOUS** for the mutation.

Method: Quantitative Real-time Polymerase Chain Reaction (qRT-PCR)

Comment:

The patient has one copy of the MTHFR C677T mutation and one copy of the A1298C mutation. This is associated with a 40 - 50% loss of function and an increase in plasma homocysteine levels.

MethyleneTetraHydroFolate Reductase (MTHFR) is a regulatory enzyme in folate-dependent homocysteine remethylation.

A common polymorphism in the MTHFR gene at position 677 is associated with a thermolabile enzyme with decreased activity. The prevalence of the homozygous mutation ranges from 8- 18% in various populations.

Clinically, homozygotes for the mutation have an increased risk of thromboembolism as well as premature vascular disease.

A second mutation (A1298C) has also been described. This mutation is associated with an increased risk of thromboembolism, when only found together with the C677T mutation.

Assessment of other biochemical markers involved in the methylation cycles will give a more in-depth assessment of the patient's methylation status/function.

Assessments include Methylation Profile, Methionine Metabolism Profile, Folate Metabolism Profile, SAME/SAH ratio, Homocysteine.

Test performed by accredited laboratory NATA: 20082

Tests ordered: MTHFR, GenomPEI

GOODHEW , AMANDA LEIGH

19 Lloyd Street Narrabri 2390

Phone:

Birthdate: 13/11/1976

Sex: F

Medicare
Number:

Your
Reference: 4005234285

Lab
Reference: 5005428206

Laboratory: RIS.HNEI

Addressee: Dr PULAHINGE MANORI
LASANGIKA RODRIGO

Referred
by: Dr PULAHINGE MANORI LASANGIKA
RODRIGO

Name of test: Ultrasound Pelvis - Female

Requested 30/09/2022

Collected: 30/09/2022

Reported: 01/10/2022
10:11:00

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For GENIE users to view full multimedia report and images please [click here](#)

Narrabri Radiology

Ref Dr: Dr Manori Rodrigo
Bridge Medical Centre, 98 Maitland Street
Narrabri NSW 2390
Fax: 02 6792 5521 Delivery Method: EDI

MRN: 2372974/N0202357 Ward/Clinic: NDH Outside Referral
Patient: AMANDA GOODHEW
DOB: 13/11/1976 Reported By: Dr John Pedersen (Lumus)
Address: 19 LLOYD STREET
NARRABRI 2390

Exam Date: 30/09/2022 10:00 AM

ULTRASOUND PELVIS

HISTORY:

Irregular bleeding for 2 years.

FINDINGS:

Heterogeneous myometrium consistent with adenomyosis. Uterus 86 cc in volume. It appears to be anteverted.

There are 2 nabothian cysts in the cervix.

Endometrial thickness is 5.7 mm on transvaginal imaging. Ovaries NAD both around 3 cc in volume.

COMMENT:

Possible adenomyosis of the uterine myometrium.

Electronically Signed by: John Pedersen
Alternate Patient ID2372974HNE

Sonographer: J Read 9350

Signed by: Dr John Pedersen (Lumus) 01/10/2022 10:09 AM

GOODHEW, AMANDA
19 LLOYD STREET, NARRABRI. 2390
Phone: 0429924823
Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
Your Reference: 6373431 Lab Reference: 6373431Z045
Laboratory: SYDPATH
Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: Lipid Studies
Requested: 10/01/2024 Collected: 26/02/2024 Reported: 26/02/2024
09:46

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only	
Date:	26/02/24	21/07/20	
Reference			
Time:	08:40	08:15	(for
this			
Request No.:	6373431	6175238	Units
collection)			
Lipid Studies			
Fasting status	Fasting	Fasting	
Cholesterol	4.7	5.5	mmol/L 0.0-6.0
Triglyceride	0.6	0.8	mmol/L 0.0-2.0
HDL Cholesterol	1.5	1.7	mmol/L >1.0
LDL Cholesterol	2.9	3.4	mmol/L 0.0-4.0
Non-HDL Chol.	3.2	3.8	mmol/L 0.0-4.0
Chol:HDL ratio	3.1	3.2	
Lipids comment	liprng	liprng	

Comments: (26/02/2024 08:40 Episode No. 6373431)

liprng: Lipid targets for patients at high risk of cardiovascular disease:
Total Cholesterol <4.0 mmol/L HDL Cholesterol >1.0 mmol/L
Non-HDL Cholesterol <2.5 mmol/L Triglycerides <2.0 mmol/L
LDL Cholesterol <2.0 mmol/L, <1.8 mmol/L for secondary prevention.
(Lipid target ranges from Australian Heart Foundation)

For cardiovascular risk prediction including lipid see www.cvdcheck.org.au.
Reference limits for lipids are provided for general advice only and identify
approximately 15% of the adult population.

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: 25VitD, HbA1c, TSH, ESR (Manual), Vit B12, Iron Studies, Ferritin

GOODHEW, AMANDA
 19 LLOYD STREET, NARRABRI. 2390
 Phone: 0429924823
 Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
 Your Reference: 6373431 Lab Reference: 6373431Z001
 Laboratory: SYDPATH
 Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: Routine Chemistry
 Requested: 10/01/2024 Collected: 26/02/2024 Reported: 26/02/2024
 09:46

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only				
Date:	26/02/24	14/07/23	30/09/22	06/09/22		
Reference						
Time:	08:40	09:15	10:05	12:10		(for
this						
Request No.: collection)	6373431	6359820	6332010	6330811	Units	
Electrolytes (serum/plasma)						
Sodium	139	140		140	mmol/L	135-145
Potassium	4.3	4.1		3.7	mmol/L	3.5-5.2
Chloride	105	105		106	mmol/L	95-110
Bicarbonate	26	28		25	mmol/L	22-32
Urea	3.7	3.1		6.4	mmol/L	3.0-7.0
Creatinine	52	57		50	umol/L	45-90
eGFR	>90	>90		>90	mL/min/1.73m2	>60
Calcium	2.33		2.32		mmol/L	
2.10-2.60						
Magnesium	0.76		0.83		mmol/L	
0.70-1.10						
Inorganic Phospha	0.97		1.02		mmol/L	
0.70-1.50						
Liver Function Tests (serum/plasma)						
Total protein	65	69		66	g/L	60-80
Albumin	38	42		39	g/L	33-48
Bilirubin total	11	14		7	umol/L	0-20
Alkaline phosphat	82	101		78	U/L	30-110
ALT	20	21		12	U/L	0-35
AST	22	18		21	U/L	0-30
GGT	9	10		11	U/L	0-35
LDH	164	143		171	U/L	0-430
Glucose Testing						
Glucose (fasting)	5.2				mmol/L	3.0-5.5

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: 25VitD, HbA1c, TSH, ESR (Manual), Vit B12, Iron Studies, Ferritin

GOODHEW, AMANDA
19 LLOYD STREET, NARRABRI. 2390
Phone: 0429924823
Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
Your Reference: 6373431 Lab Reference: 6373431I102
Laboratory: SYDPATH
Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: C-reactive protein measurement
Requested: 10/01/2024 Collected: 26/02/2024 Reported: 26/02/2024
09:46

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only			
Date:	26/02/24	14/07/23	06/09/22	21/07/20	
Reference					
Time:	08:40	09:15	12:10	08:15	(for
this					
Request No.:	6373431	6359820	6330811	6175238	Units
collection)					

Acute Phase Reactants (serum/plasma)

C-Reactive protei	3.9	2.8			mg/L	<5.0
CRP			<5.0	<5.0	mg/L	
CRP Comment			CRPBCOM	CRPBCOM		

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: 25VitD,HbA1c,TSH,ESR (Manual),Vit B12,Iron Studies,Ferritin

GOODHEW, AMANDA
 19 LLOYD STREET, NARRABRI. 2390
 Phone: 0429924823
 Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
 Your Reference: 6373431 Lab Reference: 6373431Z020
 Laboratory: SYDPATH
 Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: Haematology
 Requested: 10/01/2024 Collected: 26/02/2024 Reported: 26/02/2024
 10:54

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only				
Date:	26/02/24	14/07/23	06/09/22	21/07/20		
Reference Time:	08:40	09:15	12:10	08:15	(for	
this Request No.:	6373431	6359820	6330811	6175238	Units	
collection)						
Full Blood Count						
White Cell Count	6.2	5.9	5.9	5.0	10 ⁹ /L	
4.0-11.0						
Red Cell Count	4.0	4.8	3.8	4.4	10 ¹² /L	3.8-5.8
Haemoglobin	127	142	120	131	g/L	115-165
Haematocrit	0.37	0.43	0.35 L	0.39		
0.37-0.47						
MCV	91	91	91	89	fL	76-96
MCH	31.4	29.8	31.4	30.0	pg	
27.0-32.0						
MCHC	346	329	343	339	g/L	320-360
RDW	12.6	13.5	13.6	11.8	%	
11.5-14.5						
Platelet Count	225	257	232	241	10 ⁹ /L	150-400
Neutrophils	3.3	3.0	3.3	2.3	10 ⁹ /L	2.0-7.5
Lymphocytes	2.3	2.4	2.1	2.2	10 ⁹ /L	1.5-4.0
Monocytes	0.5	0.5	0.4	0.5	10 ⁹ /L	0.2-1.0
Eosinophils	0.1	0.1	0.1	0.2	10 ⁹ /L	0.0-0.4
Basophils	0.0	0.0	0.0	0.1	10 ⁹ /L	0.0-0.1
Manual Haematology Tests						
ESR (Manual)	20 H		10	13 H	mm/h	0-10

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: 25VitD, HbA1c, TSH, Vit B12, Iron Studies, Ferritin

GOODHEW, AMANDA
19 LLOYD STREET, NARRABRI. 2390
Phone: 0429924823
Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
Your Reference: 6373431 Lab Reference: 6373431Z040
Laboratory: SYDPATH
Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: Thyroid Function Tests
Requested: 10/01/2024 Collected: 26/02/2024 Reported: 26/02/2024
21:33

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result 26/02/24	Previous results for comparison only				
Date:		06/09/22	21/07/20	09/01/20		
Reference						
Time:	08:40	12:10	08:15	09:15		(for
this						
Request No.:	6373431	6330811	6175238	6164082	Units	
collection)						

Thyroid Testing (serum/plasma)

TSH	2.32	2.72	2.67	2.44	mIU/L
0.40-4.80					
Free T4		12.2			pmol/L
Free T3		5.3			pmol/L
TFT com.	TFTCOM1	TFTCOM1			

Comments: (26/02/2024 08:40 Episode No. 6373431)

TFTCOM1: THYROID FUNCTION TESTS: TSH, free T4 and free T3 measured using Beckman-Coulter method (Dr Graham Jones).

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: 25VitD, HbA1c, Vit B12, Ferritin

GOODHEW, AMANDA
19 LLOYD STREET, NARRABRI. 2390
Phone: 0429924823
Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
Your Reference: 6373431 Lab Reference: 6373431Z047
Laboratory: SYDPATH
Addressee: Dr YANKIA WU Referred by: Dr YANKIA WU

Name of Test: Iron Studies
Requested: 10/01/2024 Collected: 26/02/2024 Reported: 26/02/2024
21:39

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only				
Date:	26/02/24	14/07/23	06/09/22	21/07/20		
Reference						
Time:	08:40	09:15	12:10	08:15	(for	
this						
Request No.:	6373431	6359820	6330811	6175238	Units	
collection)						
Iron Studies						
Ferritin serum	76	125	35	38	ug/L 15-150	
Iron serum	13	20	13	15	umol/L 10-30	
Transferrin	2.3	2.5	2.5	2.7	g/L 2.0-3.5	
Transferrin satn	23	32	21	22	% 15-50	
Ferritin com.					FERCOM	

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: 25VitD,HbA1c,Vit B12

GOODHEW, AMANDA
 19 LLOYD STREET, NARRABRI. 2390
 Phone: 0429924823
 Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
 Your Reference: 6373431 Lab Reference: 6373431Z048
 Laboratory: SYDPATH
 Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: B12 and Folate
 Requested: 10/01/2024 Collected: 26/02/2024 Reported: 26/02/2024
 21:45

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only				
Date:	26/02/24	06/09/22	21/07/20	09/01/20		
Reference						
Time:	08:40	12:10	08:15	09:15		(for
this						
Request No.:	6373431	6330811	6175238	6164082	Units	
collection)						
B12 and Folate						
Vitamin B12 serum	234	453	188	267	pmol/L	>140
Active B12			69		pmol/L	
Total B12 Comment	HIGHB12	HIGHB12		HIGHB12		
Active B12 Commen			INDETB12			
Folate serum			24.1		nmol/L	

Comments: (26/02/2024 08:40 Episode No. 6373431)

HIGHB12: VITAMIN B12. Total Vitamin B12 result greater than or equal to 200 pmol/L makes significant deficiency of vitamin B12 unlikely.

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: 25VitD,HbA1c

GOODHEW, AMANDA
 19 LLOYD STREET, NARRABRI. 2390
 Phone: 0429924823
 Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
 Your Reference: 6373431 Lab Reference: 6373431Z004
 Laboratory: SYDPATH
 Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: Endocrinology
 Requested: 10/01/2024 Collected: 26/02/2024 Reported: 27/02/2024
 10:31

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only				
Date:	26/02/24	30/09/22	06/09/22	09/01/20		
Reference						
Time:	08:40	10:05	12:10	09:15		(for
this						
Request No.:	6373431	6332010	6330811	6164082	Units	
collection)						
Endocrinology						
LH			3.2	4.2	IU/L	
FSH			9.8	5.1	IU/L	
DHEAS				4.9	umol/L	
Oestradiol			193	339	pmol/L	
Progesterone			0.7	38.7	nmol/L	
Testosterone				1.0	nmol/L	
25 OH Vitamin D	63	71		63	nmol/L	50-150
Prolactin				166	mIU/L	
LH comment			lhrfn1	lhrfn		
FSH comment			fshfbc1	fshfbc		
DHEAS comment				dhsnf		
Oestradiol commen			e2rfbc	e2rfbc		
Progesterone comm			pgsfbc	pgsfbc		
Vitamin D comment	25DCOM	25DCOM		25DCOM		
PRL com.				PRLCOM		
Androgens com.				ANDCOM		

Comments: (26/02/2024 08:40 Episode No. 6373431)

25DCOM: Vitamin D clinical decision point for 25-hydroxy vitamin D:
 (Med J Aust 2005;182:281-5)
 Mild deficiency: 25 - 50 nmol/L
 Moderate deficiency: 13 - 25 nmol/L
 Severe deficiency: < 13 nmol/L

Clinical History: PALPITATIONS, HX OF LOW IRON

Tests Pending: HbA1c

GOODHEW, AMANDA
19 LLOYD STREET, NARRABRI. 2390
Phone: 0429924823
Birthdate: 13/11/1976 Sex: F Medicare Number: 2457747468
Your Reference: 6373431 Lab Reference: 6373431Z007
Laboratory: SYDPATH
Addressee: Dr YANXIA WU Referred by: Dr YANXIA WU

Name of Test: HbA1c
Requested: 10/01/2024 Collected: 26/02/2024 Reported: 27/02/2024
12:14

Clinical notes: PALPITATIONS, HX OF LOW IRON

	Current Result	Previous results for comparison only	
Date:	26/02/24	21/07/20	
Reference			
Time:	08:40	08:15	(for
this			
Request No.:	6373431	6175238	Units
collection)			
HbA1c			
HbA1c	5.1	5.2	% 0.0-5.9
HbA1c (mmol/mol)	32	33	mmol/mol 0-41
HbA1c comment	hbacom	hbacom	

Comments: (26/02/2024 08:40 Episode No. 6373431)

hbacom: HbA1c (IFCC): In keeping with Australian guidelines SydPath is now reporting
HbA1c in conventional units (%) and restandardised units (mmol/mol). (MJA 2011; 195: 45-46)

Clinical History: PALPITATIONS, HX OF LOW IRON