



Tweed Health for Everyone Superclinic
 33 - 35 Corporation Circuit, Tweed Heads South NSW 2486
Tweed Health for Everyone Terranora
 2-14 Henry Lawson Drive, Terranora NSW 2486
THE Allied Hub
 4-5/8 Corporation Circuit, Tweed Heads South NSW 2486
 Ph: 07 55 897 555 Fax: 07 55 230 644

Investigations:

FLETCHER, MADELINE
 2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 **Sex:** F **Medicare Number:** 2202798245
Your Reference: 450EE0127B **Lab Reference:** 670433452-C-H245
Laboratory: SNP
Addressee: DR JESSICA M HUGHES **Referred by:** DR JESSICA M HUGHES

Name of Test: .ANAEMIA
Requested: 07/09/2022 **Collected:** 18/11/2022 **Reported:** 19/11/2022 04:24

Haematinics

Date	Latest Results		Reference	Units
	15-Jul-21	18-Nov-22		
Time F-Fast	0832 F	0921		
Lab Id.	659282270	670433452		
Iron	13	11	(5-30)	umol/L
Transferrin	2.9	2.7	(1.9-3.1)	g/L
TIBC	72	68	(47-77)	umol/L
Trans Sat	18 L	16 L	(20-45)	%
Ferritin	17 L	30	(30-250)	ug/L
Vitamin B12		345	(>150)	pmol/L
Active B12		>128	(>35)	pmol/L
Folate serum		37	(>7.0)	nmol/L

Comments on Collection 18-Nov-22 0921:

Iron Studies

The normal ferritin implies normal iron stores. However, a normal ferritin level may be seen in iron deficient patients who have recently taken oral iron, or who have an intercurrent illness causing ferritin elevation.

All patients with low or equivocal vitamin B12 results (380 pmol/L or less) will be routinely tested for holo-transcobalamin (active B12) to clarify the B12 status.

Both tests are now Medicare rebateable. Vitamin B12 concentrations over 380 pmol/L are generally considered replete.

Active B12 (holotranscobalamin) is the biologically active fraction of total serum B12, and should be a superior indicator of B12 status.

Holotranscobalamin level indicates Vitamin B12 deficiency unlikely.

Up to 15% of patients will have a deficiency of carrier protein (haptocorrin) that does not appear to result in a clinically recognisable Vitamin B12 deficiency despite low total Vitamin B12 levels.

EA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies,E/LFT,Vitamin B12,Folate (Serum),LH,FSH,
 Oestradiol,Prolactin,hCG (Abbott),Active B12,
 Thyroid Abs,AMH (Roche Plus),FBE

Tests Pending : TFTH,17-OH Prog,CT

Sample Pending :

FLETCHER, MADELINE
 2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 **Sex:** F **Medicare Number:** 2202798245
Your Reference: 450EE0127B **Lab Reference:** 670433452-C-C140
Laboratory: SNP
Addressee: DR JESSICA M HUGHES **Referred by:** DR JESSICA M HUGHES

Name of Test: S- ROUTINE CHEMISTRY
Requested: 07/09/2022 **Collected:** 18/11/2022 **Reported:** 19/11/2022 04:24

Chemistry (serum)

Date	Latest Results			
	15-Jul-21	18-Nov-22		
Time F-Fast	0832 F	0921		
Lab Id.	659282270	670433452	Reference	Units
Sodium	139	138	(135-145)	mmol/L
Potassium	5.2	4.1	(3.5-5.5)	mmol/L
Chloride	110	106	(95-110)	mmol/L
Bicarbonate	25	26	(20-32)	mmol/L
Anion Gap	4	6	(<16)	mmol/L
Calcium (Corr.)	2.32	2.31	(2.10-2.60)	mmol/L
Phosphate	1.13	1.09	(0.80-1.50)	mmol/L
Urea	3.7	5.4	(2.5-6.5)	mmol/L
Urate	0.247	0.320	(0.150-0.400)	mmol/L
Creatinine	77	73	(45-85)	umol/L
eGFR	>90	>90	(>59)	
Fast. Glucose	5.0		(3.6-6.0)	mmol/L
Random Glucose		4.2	(3.6-7.7)	mmol/L
Total Protein	68	69	(64-81)	g/L
Albumin	38	40	(33-46)	g/L
Globulin	30	29	(23-43)	g/L
T Bilirubin	7	9	(<16)	umol/L
ALP	41	81	(20-105)	U/L
AST	18	22	(10-35)	U/L
ALT	11	12	(5-30)	U/L
GGT	15	17	(5-35)	U/L
LDH	132	147	(120-250)	U/L
Cholesterol	4.6	4.0	(<5.6)	mmol/L
Haemolysis Index	<1	5	(<40)	mg/dL

CA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, Vitamin B12, Folate (Serum), LH, FSH,
 Oestradiol, Prolactin, hCG (Abbott), Active B12,
 Thyroid Abs, AMH (Roche Plus), FBE

Tests Pending : TFTH, 17-OH Prog, CT

Sample Pending :

FLETCHER, MADELINE
 2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 **Sex:** F **Medicare Number:** 2202798245
Your Reference: 450EE0127B **Lab Reference:** 670433452-E-E199
Laboratory: SNP
Addressee: DR JESSICA M HUGHES **Referred by:** DR JESSICA M HUGHES

Name of Test: S- FERTILITY HORMONES
Requested: 07/09/2022 **Collected:** 18/11/2022 **Reported:** 19/11/2022 04:24

Reproductive Hormones

	15-Jul-21	18-Nov-22		
Date	15-Jul-21	18-Nov-22		
Time F-Fast	0832 F	0921		
Lab Id.	659282270	670433452	Reference	Units
FSH	<0.1	5		IU/L
LH	<0.1	4		IU/L
Oestradiol	<50	65		pmol/L

	FSH	LH	Oestradiol
Reference Limits	IU/L	IU/L	pmol/L
Follicular	2 - 10	2 - 7	110 - 180
Mid-Cycle	7 - 24	9 - 74	550 - 1650
Luteal	1 - 10	1 - 9	180 - 840
Menopausal	20 - 140	10 - 65	<200
OCP	<5	<9	<80

EA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, Vitamin B12, Folate (Serum), LH, FSH, Oestradiol, Prolactin, hCG (Abbott), Active B12, Thyroid Abs, AMH (Roche Plus), FBE

Tests Pending : TFTH, 17-OH Prog, CT

Sample Pending :

FLETCHER, MADELINE
 2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 **Sex:** F **Medicare Number:** 2202798245
Your Reference: 450EE0127B **Lab Reference:** 670433452-E-E223
Laboratory: SNP
Addressee: DR JESSICA M HUGHES **Referred by:** DR JESSICA M HUGHES

Name of Test: S- PROLACTIN
Requested: 07/09/2022 **Collected:** 18/11/2022 **Reported:** 19/11/2022 04:24

Prolactin

	15-Jul-21	18-Nov-22		
Date	15-Jul-21	18-Nov-22		
Time F-Fast	0832 F	0921		
Lab Id.	659282270	670433452	Reference	Units
Prolactin	280	168	(<500)	mIU/L

EA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, Vitamin B12, Folate (Serum), LH, FSH, Oestradiol, Prolactin, hCG (Abbott), Active B12, Thyroid Abs, AMH (Roche Plus), FBE

Tests Pending : TFTH, 17-OH Prog, CT

Sample Pending :

FLETCHER, MADELINE
2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 Sex: F Medicare Number: 2202798245
Your Reference: 450EE0127B Lab Reference: 670433452-E-E227
Laboratory: SNP
Addressee: DR JESSICA M HUGHES Referred by: DR JESSICA M HUGHES

Name of Test: S- HCG
Requested: 07/09/2022 Collected: 18/11/2022 Reported: 19/11/2022 04:24

Human Chorionic Gonadotrophin Assays

Human Chorionic Gonadotrophin <2 IU/L

Comments on Collection 670433452

Pregnant - weeks after LMP Reference Ranges

4	20 - 950
5	50 - 15000
6	200 - 150000
7 - 8	1200 - 250000
9 - 10	1400 - 170000
11 - 14	5000 - 140000
15 - 38	6000 - 75000
Non Pregnant	<2

Lower levels are seen in ectopic pregnancy and spontaneous abortion.
Increased levels may be seen with hydatidiform moles.

KG

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, Vitamin B12, Folate (Serum), LH, FSH,
Oestradiol, Prolactin, hCG (Abbott), Active B12,
Thyroid Abs, AMH (Roche Plus), FBE

Tests Pending : TFTH, 17-OH Prog, CT

Sample Pending :

FLETCHER, MADELINE
2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 Sex: F Medicare Number: 2202798245
Your Reference: 450EE0127B Lab Reference: 670433452-E-E725
Laboratory: SNP
Addressee: DR JESSICA M HUGHES Referred by: DR JESSICA M HUGHES

Name of Test: S- THYROID ANTIBODIES
Requested: 07/09/2022 Collected: 18/11/2022 Reported: 19/11/2022 04:24

Thyroid Antibodies

Thyroid Peroxidase Ab 473.1 H (<5.6) IU/mL
Thyroglobulin Ab 47.9 H (<4.1) IU/mL

Comments on Collection 670433452

Thyroid Antibodies: Levels up to 100 IU/mL can occur in normal subjects (5% of males, 15% of females - mainly elderly) and may also occur in non-thyroid autoimmune and chromosomal disorders.

Raised levels may occur in prodromal hypothyroidism before TSH elevations occur and may also be seen in thyrotoxicosis, thyroiditis, non-toxic goitre and thyroid cancer. The levels seen in Graves' Disease and Hashimoto's can vary from normal up to >1000, but are usually elevated.

From the 30th of August 2022 reference intervals and results have been modified to one decimal place for Thyroid Thyroglobulin and Peroxidase antibodies.

EA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, Vitamin B12, Folate (Serum), LH, FSH, Oestradiol, Prolactin, hCG (Abbott), Active B12, Thyroid Abs, AMH (Roche Plus), FBE

Tests Pending : TFTH, 17-OH Prog, CT

Sample Pending :

FLETCHER, MADELINE
2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 Sex: F Medicare Number: 2202798245
Your Reference: 450EE0127B Lab Reference: 670433452-E-E823
Laboratory: SNP
Addressee: DR JESSICA M HUGHES Referred by: DR JESSICA M HUGHES

Name of Test: _AMH VIRTUAL
Requested: 07/09/2022 Collected: 18/11/2022 Reported: 19/11/2022 04:24

Anti-Mullerian Hormone (AMH)

Anti-Mullerian Hormone (Roche Plus) 46.9 (8.7 - 83.6) pmol/L

Comments on Collection 670433452

The reference interval quoted above for the Roche AMH Plus assay is the age-related 2.5 - 97.5 percentile.

Generally accepted fertility criteria (not age-related):

<11.0 pmol/L: Suggestive of reduced ovarian reserve

>24.0 pmol/L: Indicates the possibility of

1. Polycystic Ovarian Syndrome

2. In post-menopausal females - granulosa cell tumour

3. Increased risk of Ovarian Hyperstimulation

Syndrome in a stimulated cycle

AMH is produced by the granulosa cells of developing follicles, and provides an estimate of the number of primordial follicles. Particularly in younger women, a low AMH level does not exclude the possibility of fertility.

Levels may be decreased in the latter part of the menstrual cycle and by the OC pill.

High dose biotin (Vitamin B7) can interfere in the AMH Plus assay, causing a falsely low result. High dose biotin may be used in the treatment of Multiple Sclerosis, and is present in certain vitamin supplements, particularly those for hair and nails. If the patient is taking high dose biotin supplementation (>5 mg/day) this result may not be accurate, please repeat this test after at least 3 days off biotin

Note change to Roche Plus AMH method as of the 29/08/2018.

EA

PDF Image Enhanced Report

A PDF version of this report with images is available until 19-11-2023. Copy and paste the URL below into your web browser and use PIN 7000 to access the report.

<https://sdrviewer.apps.sonichealthcare.com/?GUID=1AC1E698-1445-435A-BCDE-72F4E718C836&hostCode=SNP&shareType=1>

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies,E/LFT,Vitamin B12,Folate (Serum),LH,FSH,
Oestradiol,Prolactin,hCG (Abbott),Active B12,
Thyroid Abs,AMH (Roche Plus),FBE

Tests Pending : TFTH,17-OH Prog,CT

Sample Pending :

FLETCHER, MADELINE
2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 Sex: F Medicare Number: 2202798245
Your Reference: 450EE0127B Lab Reference: 670433452-H-H900
Laboratory: SNP
Addressee: DR JESSICA M HUGHES Referred by: DR JESSICA M HUGHES

Name of Test: .BLOOD COUNT

Requested: 07/09/2022 Collected: 18/11/2022 Reported: 19/11/2022 04:24

Haematology

Date	Latest Results			
	15-Jul-21	18-Nov-22		
Time F-Fast	0832 F	0921		
Lab Id.	659282270	670433452	Reference	Units
Haemoglobin	133	136	(115-165)	g/L
Haematocrit	0.40	0.41	(0.35-0.47)	
RCC	4.4	4.6	(3.9-5.6)	10*12/L
MCV	91	89	(80-100)	fL
WCC	5.6	5.1	(3.5-12.0)	10*9/L
Neutrophils	3.27	3.10	(1.5-8.0)	10*9/L
Lymphocytes	1.80	1.57	(1.0-4.0)	10*9/L
Monocytes	0.41	0.36	(0-0.9)	10*9/L
Eosinophils	0.08	0.05	(0-0.6)	10*9/L
Basophils	0.06	0.03	(0-0.15)	10*9/L
Platelets	238	230	(150-400)	10*9/L

HA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies,E/LFT,Vitamin B12,Folate (Serum),LH,FSH,
Oestradiol,Prolactin,hCG (Abbott),Active B12,
Thyroid Abs,AMH (Roche Plus),FBE

Tests Pending : TFTH,17-OH Prog,CT

Sample Pending :

FLETCHER, MADELINE
2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 Sex: F Medicare Number: 2202798245
Your Reference: 450EE0127B Lab Reference: 670433452-V-V063
Laboratory: SNP
Addressee: DR JESSICA M HUGHES Referred by: DR JESSICA M HUGHES

Name of Test: .AMHR Graph
Requested: 07/09/2022 **Collected:** 18/11/2022 **Reported:** 19/11/2022 04:24

SS

PDF Image Enhanced Report

A PDF version of this report with images is available until 19-11-2023. Copy and paste the URL below into your web browser and use PIN 8186 to access the report.

<https://sdrviewer.apps.sonichealthcare.com/?GUID=1AFB5EAE-BAAE-4BF3-BE72-D2DEED3B60A1&hostCode=SNP&shareType=1>

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, Vitamin B12, Folate (Serum), LH, FSH,
Oestradiol, Prolactin, hCG (Abbott), Active B12,
Thyroid Abs, AMH (Roche Plus), FBE

Tests Pending : TFTH, 17-OH Prog, CT

Sample Pending :

FLETCHER, MADELINE
2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 **Sex:** F **Medicare Number:** 2202798245
Your Reference: 450EE0127B **Lab Reference:** 670433452-E-E030
Laboratory: SNP
Addressee: DR JESSICA M HUGHES **Referred by:** DR JESSICA M HUGHES

Name of Test: S- THYROID FUNCTION
Requested: 07/09/2022 **Collected:** 18/11/2022 **Reported:** 19/11/2022 12:23

Thyroid Function Tests

Free T4 10.2 (9.0 - 19.0) pmol/L
TSH 6.6 H (0.3 - 3.5) mIU/L

Comments on Collection 670433452

Sub-clinical hypothyroidism. Repeat testing in three months may show progression of disease. Patients whose results are stable may not require treatment.

JH

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, TFTH, Vitamin B12, Folate (Serum),
LH, FSH, Oestradiol, Prolactin, hCG (Abbott), Active B12,
Thyroid Abs, AMH (Roche Plus), FBE

Tests Pending : 17-OH Prog, CT

Sample Pending :

FLETCHER, MADELINE
2/1877 GOLD COAST HIGHWAY, BURLEIGH HEADS. 4220
Phone: 0425622350
Birthdate: 03/12/1997 **Sex:** F **Medicare Number:** 2202798245

Your Reference: 450EE0127B **Lab Reference:** 670433452-Z-Y956
Laboratory: SNP
Addressee: DR JESSICA M HUGHES **Referred by:** DR JESSICA M HUGHES
Name of Test: S- 17OH Progesterone
Requested: 07/09/2022 **Collected:** 18/11/2022 **Reported:** 25/11/2022 16:23

17-OH Progesterone

17-Hydroxy Progesterone (LCMS/MS) 0.8 nmol/L

Comments on Collection 670433452

17-Hydroxyprogesterone Reference Range (LC-MS/MS):

Follicular 0.5 - 3.2 nmol/L

Luteal 0.5 - 7.6 nmol/L

Post Menopause < 1.8 nmol/L

17OH Progesterone (LC-MS/MS) testing performed by Pathology Queensland,
RBWH, Herston QLD.

MN

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Iron Studies, E/LFT, TFTH, Vitamin B12, Folate (Serum),
LH, FSH, Oestradiol, Prolactin, hCG (Abbott), Active B12,
Thyroid Abs, AMH (Roche Plus), FBE, 17-OH Prog (LCMS/MS)

Tests Pending : CT

Sample Pending :

Yours faithfully,

.....
Dr Jessica Hughes
FRACGP, MD, AHPRA: MED0001936857