

BIMROSE, ROSEMARY
 5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 677C2302A1 **Lab Reference:** 667555238-C-C847
Laboratory: SNP
Addressee: DR CATRIONA ARNOLD-NOTT **Referred by:** DR CATRIONA
 ARNOLD-NOTT

Name of Test: S- LIPID PROFILE
Requested: 24/01/2022 **Collected:** 27/05/2022 **Reported:** 28/05/2022
 05:05

Clinical notes: hashimotos monitoring. Fasting.

Clinical Notes : hashimotos monitoring. Fasting.

Lipid Profile

Date	02/06/20	09/12/20	26/07/21	27/05/22		
Time F-Fast	0720 F	0738 F	0713 F	0717 F		
Lab Id.	652400449	657132947	661595302	667555238	Units	Reference
Cholesterol	5.2	5.1	5.4	5.4	mmol/L	(<5.6)
Triglyceride	0.7	0.6	0.8	0.8	mmol/L	(<2.1)
HDL	2.08 H	2.27	2.19	2.04	mmol/L	(>1.09)
LDL	2.8	2.6	2.8	3.0	mmol/L	(<4.1)
Chol/HDL Ratio	2.5	2.2	2.5	2.6		(<4.6)
Non HDLC		2.83	3.21	3.36	mmol/L	(<3.81)

Comments on Collection 27/05/22 0717 F:

HDL-Cholesterol

The National Vascular Disease Prevention Alliance (NVDPA) guidelines recommend a target level of less than 2.5 mmol/L for non-HDLC.

TARGET LEVELS:

The National Vascular Disease Prevention Alliance (NVDPA) treatment target levels for high risk people (known coronary heart and other arterial disease, diabetes, chronic renal failure, Aboriginal and Torres Strait Islander peoples and familial hyperlipidaemic conditions) are:

Total Cholesterol	<4.0	mmol/L
HDL-Cholesterol	>=1.00	mmol/L
Fasting Triglycerides	<2.0	mmol/L
Non-HDL Cholesterol	<2.5	mmol/L

Increased non-HDL Cholesterol is the most significant marker for subclinical atherosclerosis (ref: Cardiology Today 2013; 3(2) : pp25-27).

CA

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

Tests Completed: HDL-Cholesterol, Iron Studies, CRP, E/LFT, TPTH, Thyroid Abs

Tests Pending : FBE

Sample Pending :

BIMROSE, ROSEMARY
 5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 677C2302A1 **Lab Reference:** 667555238-C-H245

Laboratory: SNP
Addressee: DR CATRIONA ARNOLD-NOTT **Referred by:** DR CATRIONA ARNOLD-NOTT

Name of Test: .ANAEMIA
Requested: 24/01/2022 **Collected:** 27/05/2022 **Reported:** 28/05/2022
05:05

Clinical notes: hashimotos monitoring. Fasting.

Clinical Notes : hashimotos monitoring. Fasting.

Haematinics

Date	15/10/18	15/01/20	26/07/21	27/05/22		
Time F-Fast	0730 F	1118	0713 F	0717 F		
Lab Id.	644340704	650704264	661595302	667555238	Units	Reference
Iron				14	umol/L	(5-30)
Transferrin				2.3	g/L	(1.9-3.1)
TIBC				57	umol/L	(47-77)
Trans Sat				25	%	(20-45)
Ferritin				139	ug/L	(30-300)
CRP	<1	<1	0.9	1.3	mg/L	(<5)

Comments on Collection 27/05/22 0717 F:
Iron Studies
Normal Iron Status.

CA

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

Tests Completed: HDL-Cholesterol, Iron Studies, CRP, E/LFT, TFTH, Thyroid Abs
Tests Pending : FBE
Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 677C2302A1 **Lab Reference:** 667555238-C-C290
Laboratory: SNP
Addressee: DR CATRIONA ARNOLD-NOTT **Referred by:** DR CATRIONA ARNOLD-NOTT

Name of Test: S-C REACTIVE PROTEIN
Requested: 24/01/2022 **Collected:** 27/05/2022 **Reported:** 28/05/2022
05:05

Clinical notes: hashimotos monitoring. Fasting.

Clinical Notes : hashimotos monitoring. Fasting.

Date	15/10/18	15/01/20	26/07/21	27/05/22		
Time F-Fast	0730 F	1118	0713 F	0717 F		
Lab Id.	644340704	650704264	661595302	667555238	Units	Reference
CRP	<1	<1	0.9	1.3	mg/L	(<5)

Comments on Collection 27/05/22 0717 F:

C Reactive Protein

Interpretation: Elevation in CRP indicates disease activity of an inflammatory, infective or neoplastic nature. CRP is a more sensitive early indicator of an acute phase response than is the ESR. It also returns towards normal more rapidly with improvement or resolution of the disease process.

Artefactually decreased CRP values occur when patients are treated with antibiotics containing carboxypenicillins including Ticarcillin.

CA

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

Tests Completed: HDL-Cholesterol, Iron Studies, CRP, E/LFT, TFTH, Thyroid Abs

Tests Pending : FBE

Sample Pending :

BIMROSE, ROSEMARY

5 KIDD CL, MALANDA. 4885

Phone: 0459032815

Birthdate: 02/09/1961 Sex: F Medicare Number: 4051412181

Your Reference: 677C2302A1 Lab Reference: 667555238-C-C140

Laboratory: SNP

Addressee: DR CATRIONA ARNOLD-NOTT Referred by: DR CATRIONA ARNOLD-NOTT

Name of Test: S-ROUTINE CHEMISTRY

Requested: 24/01/2022 Collected: 27/05/2022 Reported: 28/05/2022 05:05

Clinical notes: hashimotos monitoring. Fasting.

Clinical Notes : hashimotos monitoring. Fasting.

Chemistry (serum)

Date	02/06/20	09/12/20	26/07/21	27/05/22		
Time F-Fast	0720 F	0738 F	0713 F	0717 F		
Lab Id.	652400449	657132947	661595302	667555238	Units	Reference
Sodium	139	137	137	139	mmol/L	(135-145)
Potassium	4.2	4.0	4.1	3.9	mmol/L	(3.5-5.5)
Chloride	102	102	104	104	mmol/L	(95-110)
Bicarbonate	29	28	28	25	mmol/L	(20-32)
Anion Gap	8	7	5	10	mmol/L	(<16)
Calcium (Corr.)	2.33	2.29	2.34	2.34	mmol/L	
(2.10-2.60)						
Phosphate	1.25	1.29	1.29	1.19	mmol/L	
(0.80-1.50)						
Urea	5.1	6.4	5.6	4.9	mmol/L	(3.0-8.5)
Urate	0.219	0.225	0.200	0.184	mmol/L	
(0.150-0.400)						
Creatinine	72	88 H	75	70	umol/L	(45-85)
eGFR	80	62	76	81		(>59)
Fast. Glucose	4.9	5.2	4.7	4.7	mmol/L	(3.6-6.0)
Total Protein	69	68	68	70	g/L	(63-80)

Albumin	42	43	40	42	g/L	(32-44)
Globulin	27	25	28	28	g/L	(23-43)
T Bilirubin	10	10	6	8	umol/L	(<16)
ALP	64	61	55	58	U/L	(30-115)
AST	21	23	20	22	U/L	(10-35)
ALT	17	21	15	17	U/L	(5-30)
GGT	15	16	14	18	U/L	(5-35)
LDH	171	184	174	174	U/L	(120-250)
Cholesterol	5.2	5.1	5.4	5.4	mmol/L	(<5.6)
Triglyceride	0.7	0.6	0.8	0.8	mmol/L	(<2.1)
Magnesium			0.81		mmol/L	
(0.70-1.10)						
Haemolysis Index	6	11	7	6		(<40)

CA

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

Tests Completed: HDL-Cholesterol, Iron Studies, CRP, E/LFT, TFTH, Thyroid Abs

Tests Pending : FBE

Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 677C2302A1 **Lab Reference:** 667555238-E-E030
Laboratory: SNP
Addressee: DR CATRIONA ARNOLD-NOTT **Referred by:** DR CATRIONA ARNOLD-NOTT

Name of Test: S- THYROID FUNCTION
Requested: 24/01/2022 **Collected:** 27/05/2022 **Reported:** 28/05/2022
05:05

Clinical notes: hashimotos monitoring. Fasting.

Clinical Notes : hashimotos monitoring. Fasting.

Thyroid Function Tests

Date	09/12/20	26/07/21	17/01/22	27/05/22		
Time F-Fast	0738 F	0713 F	0739 F	0717 F		
Lab Id.	657132947	661595302	664797671	667555238	Units	Reference
Free T4	10.3	9.3	9.0	10.0	pmol/L	(9.0-19.0)
TSH	7.4 H	9.3 H	9.0 H	9.9 H	mIU/L	(0.3-4.0)

Comments on Collection 27/05/22 0717 F:

Elevated TSH indicates replacement dose may have to be increased. Thyroid hormone equilibrium may take up to 6 weeks with a change of dose.

EA

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

Tests Completed: HDL-Cholesterol, Iron Studies, CRP, E/LFT, TFTH, Thyroid Abs

Tests Pending : FBE

Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 677C2302A1 **Lab Reference:** 667555238-E-E725
Laboratory: SNP
Addressee: DR CATRIONA ARNOLD-NOTT **Referred by:** DR CATRIONA
ARNOLD-NOTT

Name of Test: S- THYROID ANTIBODIES
Requested: 24/01/2022 **Collected:** 27/05/2022 **Reported:** 28/05/2022
05:05

Clinical notes: hashimotos monitoring. Fasting.

Clinical Notes : hashimotos monitoring. Fasting.

Thyroid Antibodies

Date	02/06/20	09/12/20	26/07/21	27/05/22		
Time F-Fast	0720 F	0738 F	0713 F	0717 F		
Lab Id.	652400449	657132947	661595302	667555238	Units	Reference
Peroxidase Ab	656 H	617 H	454 H	721 H	IU/mL	(<6)
Thyroglobulin Ab	250 H	196 H	194 H	343 H	IU/mL	(<4)

Comments on Collection 27/05/22 0717 F:
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.

EA

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

Tests Completed: HDL-Cholesterol, Iron Studies, CRP, E/LFT, TFTH, Thyroid Abs
Tests Pending : FBE
Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 677C2302A1 **Lab Reference:** 667555238-H-H900
Laboratory: SNP
Addressee: DR CATRIONA ARNOLD-NOTT **Referred by:** DR CATRIONA
ARNOLD-NOTT

Name of Test: .BLOOD COUNT
Requested: 24/01/2022 **Collected:** 27/05/2022 **Reported:** 28/05/2022
08:05

Clinical notes: hashimotos monitoring. Fasting.

Clinical Notes : hashimotos monitoring. Fasting.

Haematology

Date	31/05/19	15/01/20	09/12/20	27/05/22		
Time F-Fast	0733 F	1118	0738 F	0717 F		
Lab Id.	647758751	650704264	657132947	667555238	Units	Reference
Haemoglobin	132	134	134	139	g/L	(115-165)
Haematocrit	0.41	0.41	0.41	0.43		
(0.35-0.47)						
RCC	4.3	4.3	4.4	4.4	10*12/L	(3.9-5.6)
MCV	95	95	95	97	fL	(80-100)
WCC	5.8	7.5	5.8	7.7	10*9/L	(3.5-10.0)
Neutrophils	2.00	3.85	2.17	3.55	10*9/L	(1.5-6.5)
Lymphocytes	3.17	3.09	3.06	3.28	10*9/L	(0.8-4.0)
Monocytes	0.48	0.47	0.45	0.62	10*9/L	(0-0.9)
Eosinophils	0.12	0.09	0.11	0.16	10*9/L	(0-0.6)
Basophils	0.05	0.03	0.05	0.06	10*9/L	(0-0.15)
Platelets	303	219	276	281	10*9/L	(150-400)

HA

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

Tests Completed: HDL-Cholesterol, Iron Studies, CRP, E/LFT, TFTH, Thyroid Abs, FBE

Tests Pending :

Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 Sex: F Medicare Number: 4051412181
Your Reference: 7F5F895D9D Lab Reference: 667555116-E-E815
Laboratory: SNP
Addressee: DR LINDA E THOMPSON Referred by: DR LINDA E THOMPSON

Name of Test: S-REVERSE T3

Requested: 06/06/2022 **Collected:** 08/06/2022 **Reported:** 09/06/2022 14:05

Clinical notes: rasied TSH

Clinical Notes : rasied TSH

Date	31/05/19	08/06/22		
Time F-Fast	0733 F	0718		
Lab Id.	647758751	667555116	Units	Reference
Reverse T3	653 H	429	pmol/L	(140-540)

CE

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

Tests Completed: Reverse T3
Tests Pending : Copper (Serum), Zinc, Selenium, R-U-Iodine, TFTH
Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 7F5F895D9D **Lab Reference:** 667555116-C-B091
Laboratory: SNP
Addressee: DR LINDA E THOMPSON **Referred by:** DR LINDA E THOMPSON

Name of Test: COPPER VIRTUAL
Requested: 06/06/2022 **Collected:** 08/06/2022 **Reported:** 09/06/2022
16:05

Clinical notes: rasied TSH

Clinical Notes : rasied TSH

Copper

Copper-serum 15.0 umol/L (13.0 - 25.0)

CA

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

Tests Completed: Copper (Serum), Reverse T3
Tests Pending : Zinc, Selenium, R-U-Iodine, TFTH
Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 **Sex:** F **Medicare Number:** 4051412181
Your Reference: 7F5F895D9D **Lab Reference:** 667555116-C-B099
Laboratory: SNP
Addressee: DR LINDA E THOMPSON **Referred by:** DR LINDA E THOMPSON

Name of Test: ZINC VIRTUAL
Requested: 06/06/2022 **Collected:** 08/06/2022 **Reported:** 09/06/2022
17:05

Clinical notes: rasied TSH

Clinical Notes : rasied TSH

Zinc

Zinc-plasma 13.1 umol/L (9.0 - 19.0)

Comments on Lab Id: 667555116

CA

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

Tests Completed: Copper (Serum), Zinc, Selenium, Reverse T3
Tests Pending : R-U-Iodine, TFTH
Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 Sex: F Medicare Number: 4051412181
Your Reference: 7F5F895D9D Lab Reference: 667555116-C-B096
Laboratory: SNP
Addressee: DR LINDA E THOMPSON Referred by: DR LINDA E THOMPSON

Name of Test: SELENIUM VIRTUAL
Requested: 06/06/2022 Collected: 08/06/2022 Reported: 09/06/2022
17:05

Clinical notes: rasied TSH

Clinical Notes : rasied TSH

Selenium

Selenium-plasma H 2.1 umol/L (0.7 - 1.4)

Comments on Lab Id: 667555116

Toxic effects due to selenium have been reported at concentrations higher than 5 umol/L; however toxicity is dependent on the chemical form (species) of selenium present. Inorganic forms of selenium such as selenite and selenate are more toxic than organic forms such as selenomethionine or selenocysteine which can be found in meat and dairy products, cereals, seafood, and nuts. Sullivan Nicolaides Pathology does not currently offer selenium speciation. Diagnosis of selenium toxicity is based on clinical signs and symptoms, and is supported by laboratory results.

Early signs of acute toxicity include hypotension and tachycardia. Common symptoms include nausea, vomiting, diarrhoea, abdominal pain, tremor, muscle spasms, restlessness, confusion, delirium, and coma. Chronic selenium toxicity (selenosis) is often characterised by alopecia, peripheral neuropathy, and nail changes (namely brittleness, with white spots or longitudinal streaks on the surface). Nail breaks can also occur, which may grow back deformed. As selenosis progresses, decreased cognitive function, weakness, paralysis, and death can occur. A strong garlic-like odour is usually present in both acute and chronic toxicity; this is due to a volatile metabolite called dimethylselenide.

For further information please contact Dr. Lee Price (phone 07 33778672) or Dr. David Kanowski (phone 07 33778779).

SK

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

Tests Completed: Copper (Serum), Zinc, Selenium, Reverse T3
Tests Pending : R-U-Iodine, TFTH
Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 Sex: F Medicare Number: 4051412181
Your Reference: 7F5F895D9D Lab Reference: 667555116-E-E030
Laboratory: SNP
Addressee: DR LINDA E THOMPSON Referred by: DR LINDA E THOMPSON

Name of Test: S- THYROID FUNCTION
Requested: 06/06/2022 Collected: 08/06/2022 Reported: 09/06/2022
18:05

Clinical notes: rasied TSH

Clinical Notes : rasied TSH

Thyroid Function Tests

Date	26/07/21	17/01/22	27/05/22	08/06/22		
Time F-Fast	0713 F	0739 F	0717 F	0718		
Lab Id.	661595302	664797671	667555238	667555116	Units	Reference
Free T4	9.3	9.0	10.0	9.1	pmol/L	(9.0-19.0)
TSH	9.3 H	9.0 H	9.9 H	7.2 H	mIU/L	(0.3-4.0)

Comments on Collection 08/06/22 0718:
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: Copper (Serum), Zinc, Selenium, TFTH, Reverse T3
Tests Pending : R-U-Iodine
Sample Pending :

BIMROSE, ROSEMARY
5 KIDD CL, MALANDA. 4885
Phone: 0459032815
Birthdate: 02/09/1961 Sex: F Medicare Number: 4051412181
Your Reference: 7F5F895D9D Lab Reference: 667555116-C-C763
Laboratory: SNP
Addressee: DR LINDA E THOMPSON Referred by: DR LINDA E THOMPSON

Name of Test: IODINE-R-URINE
Requested: 06/06/2022 Collected: 08/06/2022 Reported: 10/06/2022
15:05

Clinical notes: rasied TSH

Clinical Notes : rasied TSH

Random Urine Iodine

R-U-Creatinine	3.8	mmol/L		
Urine iodine	L 50	ug/L	(	>100)
Creat Corr. Iodine	L 79	ug/L	(	>100)

Comments on Lab Id: 667555116

Iodine levels are interpreted using the WHO criteria. However, the creatinine-corrected iodine level allows for iodine assessment in urine samples which are more dilute or concentrated than usual.

WHO classification of iodine deficiency - Urine Iodine levels:

Not Iodine deficient:	>100 ug/L	urine
Mild Iodine deficiency:	50 - 100 ug/L	urine
Moderate Iodine deficiency:	20 - 49 ug/L	urine
Severe Iodine deficiency:	<20 ug/L	urine

To convert Iodine ug/L to Iodine nmol/L
 $\text{ug/L} \times 7.88 = \text{nmol/L}$

CA

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

Tests Completed: Copper (Serum), Zinc, Selenium, R-U-Iodine, TFTH, Reverse T3
Tests Pending :
Sample Pending :