

Report to	HAYNE, LISA Shop 7, 63-65 Maitland St , Narrabri, NSW, 2390	Patient	GARBUTT, SONIA 21 RIVERSIDE DR NARRABRI NSW 2390				
		Phone	67933155	Age	48 years	Sex	F
		D.O.B	15/06/1975				
Ref. by/copy to	HAYNE, LISA	Collect date	11/03/2024	Lab ref	24-25952360		
		Collect time	08:41 AM	Your ref			
		Reported	18/03/2024		02:02 PM		
Tests requested	RT3, STE, UTE, TFT, FE, I12, TAA, LIP, GLU, MBA, DVI						
Clinical notes							

Clinical Notes : On Thyroxine last taken 05:50am 11/3/24.

Serum Reverse T3 (RT3) 363 pmol/L (170-539)

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PLASMA TRACE ELEMENTS

(RI)

Zinc	12.3	umol/L	(10.0-18.0)
Selenium	3.47	umol/L	(0.80-1.90)

Excess selenium may cause toxicity with common symptoms including diarrhoea, fatigue, hair loss and nail discolouration. A recent Cochrane review (2018) found NO beneficial effect of selenium supplementation in reducing cancer risk in randomised controlled trials of more than 27,000 people.

RI = Reference Interval

Abnormal result/results reported above have been confirmed by repeat assay.

SURGERY USE

Normal
No Action/File
Patient Notified
Make Appoint.
Further Tests
Notes Required
Speak with Dr.
On Correct Treatment

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URINE TRACE METALS

		(RI)	BOEL
Total Volume	Random		
Urine Creatinine	10.5 mmol/L		N/A
Urine Iodine (ug/L)	242 ug/L		N/A
Urine Iodine (Crt corrected)	186 ug/L	(> 100)	

WHO Criteria for assessing iodine nutrition based on median urinary iodine concentrations in 6 years or older:

- Severe Iodine deficiency : < 20 ug/L
- Moderate Iodine deficiency : 20-49 ug/L
- Mild Iodine deficiency : 50-99 ug/L
- Adequate Iodine intake : 100-199 ug/L
- Iodine intake above requirement : 200-299 ug/L
- Excessive Iodine intake : >= 300 ug/L

Urine iodine (creatinine corrected) adjusts the measured result to account for changes in urine concentration. Please note: due to a high variability of an individual's urinary iodine concentration, spot urine iodine concentration is not useful for the diagnosis and treatment of individuals. For more detail refer to:

"https://apps.who.int/iris/bitstream/handle/10665/85972/WHO_NMH_NHD_EP_G_13.1_eng.pdf"

BOEL = Biological Occupational Exposure Limit
RI = Reference Interval

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THYROID PROFILE

Specimen Type: Serum

TSH	1.5	mIU/L	(0.5-4.0)
FT4	14	pmol/L	(10-20)
FT3	4.6	pmol/L	(3.5-6.5)

Result(s) consistent with euthyroidism.

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

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IRON STUDIES

Specimen Type: Serum

Serum Iron	17	umol/L	(10-30)
Transferrin	30	umol/L	(32-48)
Transferrin Saturation	29	%	(13-45)
Serum Ferritin	34	ug/L	(30-165)

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

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SERUM VITAMIN B12

Request Number	25952360
Date Collected	11 Mar 24
Time Collected	08:41
B12 (156-740) pmol/L	418

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THYROID AUTOANTIBODIES

Specimen Type: Serum

Anti-Thyroglobulin Abs (aTGII)	13	IU/mL	(< 4.5)
Anti-Thyroidal Peroxidase Abs	> 1300	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.

Please note that as of 08/09/2021, Lavery Pathology changed to a reformulated Atellica anti-thyroglobulin antibody (aTGII) assay. The reference interval has been updated. Differences in individual patient results may be observed compared to the previous method. If further information is required please contact a Chemical Pathologist on 9005 7000.

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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 status	Random
Total Cholesterol	4.9 mmol/L (3.9-5.2)
Triglycerides	0.9 mmol/L (0.5-1.7)

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

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SERUM/PLASMA GLUCOSE

Fasting status Random
Serum 4.9 mmol/L (3.4-7.7)

Normal glucose concentration.

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SERUM CHEMISTRY

Specimen Type: Serum

Haemolysis	Nil
Icterus	Nil
Lipaemia	Nil
Sodium	140 mmol/L (135-145)
Potassium	4.1 mmol/L (3.6-5.4)
Chloride	102 mmol/L (95-110)
Bicarbonate	26 mmol/L (22-32)
Anion Gap	16 mmol/L (10-20)
Urea	3.2 mmol/L (2.5-8.0)
Creatinine	55 umol/L (45-90)
eGFR	> 90 mL/min/1.73m ² (0.14-0.36)
Urate	0.34 mmol/L (< 0.36)
Bilirubin	19 umol/L (< 15)
AST	15 U/L (< 30)
ALT	20 U/L (< 30)
GGT	20 U/L (< 35)
Alkaline Phosphatase	62 U/L (20-105)
Protein	72 g/L (60-82)
Albumin	46 g/L (38-50)
Globulin	26 g/L (20-39)
Calcium	2.38 mmol/L (2.10-2.60)
Corrected Calcium	2.32 mmol/L (2.10-2.60)
Phosphate	1.25 mmol/L (0.75-1.50)

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).

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VITAMIN D

Haemolysis	Nil
Serum 25(OH) Vitamin D	79 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.

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