

Referrer **Dr Fatima Vindhani**

Address **SHENTON AVENUE MEDICAL CENTRE 3A/94 DELAMERE
AVENUE
CURRAMBINE WA 6028**

Phone **0893053232**

Lab ID **420231459**

Your ref. **00137039**

Address **4 OLSEN COURT
WOODVALE WA 6026**

Phone **0408934636**

DOB **23/04/1966 (58 Yrs FEMALE)**

Copy to

Requested **20/05/2024**

Clinical Notes **thyroid nodules hypercholesterolaemia under pathology hx of
hyperparathyroidism**

Collected **21/05/2024 09:44**

Received **21/08/2024 09:46**

Liver Function

Test Name	Result	Units	Reference Interval	Comment
AST	20	U/L	10 - 35	✓
ALT	15	U/L	5 - 30	14
Alk Phos	107	U/L	30 - 110	(119)
Gamma GT	20	U/L	5 - 35	22
Total Bilirubin	7	umol/L	3 - 15	8
Total Protein	69	g/L	63 - 80	68
Albumin	42	g/L	34 - 45	43
Globulin	27	g/L	23 - 39	25

CA

CLINIPATH PATHOLOGY NATA NO: 2619-2612

21-08-2024 14:12

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Thyroid Function Tests

Test Name	Result	Units	Reference Interval	Comment
TSH	1.48	mU/L	0.4 - 4.0	
Free T4	14	pmol/L	9 - 19	
Free T3	3.8	pmol/L	3.0 - 5.5	
Thyroid Peroxidase Ab	<3.0	IU/mL	<6	
● Thyroglobulin Ab	41.8 H $\downarrow$	IU/mL	<4	HIGH $\downarrow$ (66.7).

Comments

Raised Thyroglobulin antibodies can occur in autoimmune thyroid disease and rarely in thyroid cancer.
Increased antibodies may also be seen in prodromal hypothyroidism or in patients with other autoimmune diseases.

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21-08-2024 14:50

Homocysteine

Homocysteine 8.5 umol/L 5 - 15 (11) $\downarrow$

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Reverse T3

Reverse T3

436

pmol/L

140 - 540



(473)

Comments

Testing performed at NATA laboratory accreditation number 1964

SS

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26-08-2024 11:32

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Lipids

Status	Fasting			
Cholesterol	6.1 H	mmol/L	<5.0	5.9
Triglyceride	1.4	mmol/L	<2.0	1.0
HDL Cholesterol	1.1	mmol/L	>1.0	1.2
Chol/HDL Ratio	5.5 H		<3.5	4.9
LDL Cholesterol	4.4 H	mmol/L	<3.0	4.2
Non HDL Cholesterol	5.0 H	mmol/L	<3.9	4.7

Non-fasting samples now accepted for lipids.

Comments

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) 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 a significant marker for subclinical atherosclerosis (ref: Cardiology Today 2013; 3(2) : pp25-27).

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Vitamin B12

Test Name	Result	Units	Reference Interval	Comment
Vitamin B12	577	pmol/L	139 - 651	
● Active B12	> 128 H	pmol/L	23 - 100	HIGH

Comments

Results consistent with adequate vitamin B12.

CL

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21-08-2024 15:36

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Lab ID **420231469**

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25 Hydroxy Vitamin D

Test Name	Result	Units	Reference Interval	Comment
25OH Vitamin D	60	nmol/L	50 - 150	

Comments

If at risk of falls or fractures suggest reassess Vitamin D at end of winter.

Medicare rebates for vitamin D testing are available for patients at risk of Vitamin D deficiency such as all those with chronic lack of sun exposure.

As 37% of Vitamin D requests in our practice show deficiency, we presume that your patient complies with the funding criteria. If this is not the case, please contact our accounts dept.

ANZBMS updated Position Statement Vitamin D and health in adults in Australia and New Zealand MJA 196 (11) 2012.

Vitamin D adequacy: >49 nmol/L at the end of winter (level may need to be 10-20 nmol/L higher at the end of summer, to allow for seasonal decrease).

Mild Deficiency	30-49	nmol/L
Moderate Deficiency	12.5-29	nmol/L
Severe Deficiency	< 12.5	nmol/L

SA

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Phone 0893053232	Phone 0408934636	

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Serum Folate

Folic Acid	16.0	ug/L	>3.8
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21-08-2024 14:46

Intact Parathyroid Hormone

Intact Parathyroid Hormone	9.2 H	pmol/L	1.6 - 9.0
25OH Vitamin D	60	nmol/L	50 - 150
Creatinine	82	umol/L	45 - 85
eGFR	68		>59
Corrected Calcium	2.38	mmol/L	2.20 - 2.60

GK

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Iron Studies

Test Name	Result	Units	Reference Interval	Comment
Iron	19	umol/L	5 - 30	
Transferrin	30	umol/L	25 - 40	
Saturation	32	%	10 - 45	
Ferritin	105	ug/L	30 - 500	

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21-08-2024 14:46

C Reactive Protein

Test Name	Result	Units	Reference Interval	Comment
CRP	2	mg/L	<5	



Comments

Note: This test is not suitable as a prognostic tool for assessing cardiovascular risk. High sensitivity CRP (hsCRP) should be requested in such cases.

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Haematology

Test Name	Result	Units	Reference Interval	Comment
Haemoglobin	131	g/L	115 - 165	
Red cell count	4.7	$\times 10^{12}/L$	3.8 - 5.8	
Haematocrit	0.41		0.36 - 0.47	
MCV	87	fL	80 - 100	
MCH	28	pg	27 - 32	
MCHC	320	g/L	310 - 360	
RDW	13.1		10 - 15	
White cell count	4.6	$\times 10^9/L$	4.0 - 11.0	
Neutrophils	2.0	$\times 10^9/L$	2.0 - 7.5	
Lymphocytes	1.7	$\times 10^9/L$	1.2 - 4.0	
Monocytes	0.4	$\times 10^9/L$	0.2 - 1.0	
Eosinophils	0.5	$\times 10^9/L$	0.0 - 0.5	
Basophils	<0.1	$\times 10^9/L$	0.0 - 0.1	
Platelets	331	$\times 10^9/L$	150 - 400	

Comments

The full blood count parameters are within the acceptable ranges.

HA

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Autoantibody Investigation

Antinuclear Abs (ANA) POSITIVE mixed Homogenous & Speckled (Titre 1:320)

Comments

No change from previous test in 2021.

MJ

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22-08-2024 15:22

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Calcium Studies

Test Name	Result	Units	Reference Interval	Comment
Calcium	2.40	mmol/L		
Albumin	42	g/L	34 - 45	
Corrected Calcium	2.38	mmol/L	2.20 - 2.60	

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General Chemistry

Test Name	Result	Units	Reference Interval	Comment
Urea	5.3	mmol/L	3.0 - 8.0	↓ 5.9
Creatinine	82	umol/L	45 - 85	↓ 94 (H)
eGFR	68		> 59	↑ 58 (L)
Sodium	141	mmol/L	135 - 145	↑ 139
Potassium	4.1	mmol/L	3.5 - 5.5	↑ 4.3
Chloride	110	mmol/L	95 - 110	↑ 107
Bicarbonate	24	mmol/L	20 - 32	↓ 25

eGFR calculated using CKD EPI from 21-05-13.

Comments

The eGFR is ≤ 90 mL/min/1.73m². The previously abnormal eGFR is noted, suggest urine microalbumin. (www.kidney.org.au).

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21-08-2024 14:17