

RESULTS ENQUIRIES 13 39 36



F

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HAYNE, LISA

Shop 7, 63-65 Maitland St

HAYNE, LISA

, Narrabri, NSW, 2390

Patient CHERYLEE, GOLD

134 BARWAN ST NARRABRI NSW 2390

Phone 0417301727

D.O.B 13/03/1987 Age 37 years Lab ref

Collect date 22/03/2024 24-25952426 Your ref Collect time 08:01 AM

Reported 25/03/2024 12:06 PM

Tests requested UTE, A1C, HOR, COR, AND, DVI, TFT, I12, VBF, TAA, FE, INS, ESR, LIP, CRP, MBA, GLU, FBE RT3*

Clinical notes

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URINE TRACE METALS

(RI) **BOEL**

Total Volume Random

Urine Creatinine 16.1 mmol/L N/A

Urine Iodine (ug/L) 210 ug/L N/A

Urine Iodine (Crt corrected) 114 ug/L (> 100)

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

< 20 ug/L - Severe Iodine deficiency : - 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

For Pregnant women

- Insufficient Iodine intake : < 150 ug/L - Adequate Iodine intake : 150-249 ug/L - Iodine intake above requirement : 250-499 ug/L - Excessive Iodine intake : >= 500 ug/L

For Lactating women

- Adequate Iodine intake : >= 100 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

SURGERY USE

Normal

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GLYCATED HAEMOGLOBIN (HBA1c)

Specimen Type: EDTA

HbA1c - NGSP 5.2 (4.0-6.0)HbA1c - IFCC mmol/mol (20-42)33

The WHO recommends that an HbA1c cut-off of >=6.5% (48 mmol/mol) is used to diagnose type 2 diabetes.

While it is recognised that HbA1c levels approaching this cut-off place patients at increasingly higher risk of developing diabetes (<6.5%), there is no consensus as to exactly which cut-off at the lower end of the continuum to use for categorising patients as high risk. Various groups quote lower limits for at-risk patients that vary between 5.5% and 6.0% (37 and 42 mmol/mol).

Please note that HbA1c should not be used for diagnosing diabetes mellitus in the following circumstances:

- Children and young people
- Pregnancy current or within the past 2 months
- Suspected Type 1 diabetes mellitus
- Symptoms of diabetes for <2 months
- Patients who are acutely ill
- Patients taking drugs that can cause rapid onset hyperglycaemia such as corticosteroids, antipsychotic drugs
- Acute pancreatic damage or pancreatic surgery
- Kidney failure
- Patients being treated for HIV infection

Please be cautious when requesting or interpreting HbA1c when patients:

- May have an abnormal haemoglobin
- May be anaemic
- May have an altered red cell lifespan (e.g. post-splenectomy)
- May have had a recent blood transfusion

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SERUM HORMONE PROFILE

Specimen Type: Serum Request Date Number Collected 25952426 22 Mar 24	FSH IU/L	LH IU/L	PROG nmol/L 31	E2(ATEL) E2(BECK) pmol/L pmol/L 236	LH/FSH Ratio
Reference Ranges	FSH	LH	PROG	OESTRADIOL	
Follicular	2-12	2-12	0.5-4.5	100-530	
Midcycle	12-30	>15		235-1300	
Luteal	2-12	2-15	10.6-89.1	205-790	
Menopausal	>25	>10		<100	
Prepubertal	<6	<4			

PLEASE NOTE:

'E2 (ATEL)' - Oestradiol by Siemens Atellica assay 'E2 (BECK)' - Oestradiol by Beckman Access assay

SERUM CORTISOL

Time 08:01

Cortisol 409 nmol/L

AM Reference Interval 120-620 nmol/L

SERUM ANDROGENS

Total Testosterone (Siemens) 0.8 (0.4-1.4)nmol/L **DHEAS** 3.9 umol/L (1.9-7.3)

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VITAMIN D

Haemolysis Nil

Serum 25(OH) Vitamin D 76 nmol/L

Suggested decision limits for Vitamin D status:

References: Vitamin D and health in adults in Australia and New Zealand:

Position Statement. MJA 2012 June 18; 196(11),686-687.

THYROID PROFILE

Specimen Type: Serum

TSH 2.1 mIU/L (0.5-4.0) FT4 14 pmol/L (10-20) FT3 6.2 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.

SERUM VITAMIN B12

Request Number 25952426
Date Collected 22 Mar 24
Time Collected 08:01

B12 (156-740) pmol/L 646

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On Correct Treatment LAV_RTE001_AV3_07/23



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VITAMIN B12 AND FOLATE STUDIES

Serum Folate 35.0 nmol/L (> 9.0)

Folate Interpretation:

1	DEFICIENCY	BORDERLINE	SUFFICIENCY
Serum Folate:	<4.5 nmol/L	4.5 - 9.0 nmol/L	>9.0 nmol/L
		340 - 570 nmol/L	

Serum Folate Assay:

In the absence of recent oral intake, a serum folate >9.0 nmol/L effectively rules out folate deficiency.

Red cell folates (RCF) are no longer processed routinely. If you have requested a RCF, and require a result for appropriate clinical reasons, this will need to be discussed and agreed with a Consultant Haematologist on +61290027085 or Dr. Lucinda Wallman, Consultant Pathologist in Immunology and Medical Director on telephone number +61 290057179

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THYROID AUTOANTIBODIES

Specimen Type: Serum

Anti-Thyroglobulin Abs (aTGII) < 1.3 IU/mL (< 4.5)(< 60)Anti-Thyroidal Peroxidase Abs IU/ml

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, Laverty 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.

IRON STUDIES

Specimen Type: Serum Serum Iron 18 umo1/L (10-30)Transferrin 26 umol/L (32-48)Transferrin Saturation 35 % (13-45)Serum Ferritin (30-165)101 ug/L

Transferrin may be decreased by inflammation (acute or chronic), or protein deficiency or loss. The ferritin concentration excludes iron deficiency.

> SURGERY USE Normal

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SERUM INSULIN

Fasting status Random Haemolysis Nil

Insulin 8 mU/L (< 10)

ASSESSMENT OF INSULIN RESISTANCE (FASTING SAMPLES ONLY)

< 10 - normal insulin sensitivity 10-14 - mild insulin resistance

> 14 - insulin resistance

Insulin results from non-fasting samples are difficult to interpret although any result >= 60 mU/L is likely to indicate insulin resistance.

HAEMATOLOGY

Request Number 25952426 22 Mar 24 Date Collected Time Collected 08:01

Specimen Type: EDTA

ESR (< 30)mm/hr 6

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LIPID STUDIES

Specimen Type: Serum

HAYNE, LISA

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	5.1	mmol/L	(3.6-5.2)
Triglycerides	1.2	mmol/L	(0.5-1.7)
HDL Cholesterol	1.8	mmol/L	(1.0-2.0)
LDL Cholesterol	2.8	mmol/L	(1.5-3.4)
Non-HDL Cholesterol	3.3	mmol/L	(< 3.4)
Cholesterol/HDL-C Ratio	2.8		(< 4.5)

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

LDL-C exceeds target for higher risk patients and may be excessive in some individuals.

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C-REACTIVE PROTEIN

Specimen Type: Serum

Serum CRP < 4.0 mg/L (< 6.0)

SERUM CHEMISTRY

Specimen Type: Serum			
Haemolysis	Nil		
Icterus	Nil		
Lipaemia	Nil		
Sodium	139	mmol/L	(135-145)
Potassium	4.6	mmol/L	(3.6-5.4)
Chloride	103	mmol/L	(95-110)
Bicarbonate	25	mmol/L	(22-32)
Anion Gap	16	mmol/L	(10-20)
Urea	4.7	mmol/L	(2.5-8.0)
Creatinine	60	umol/L	(45-90)
eGFR	> 90		mL/min/1.73m^2
Urate	0.26	mmol/L	(0.14-0.36)
Bilirubin	6	umol/L	(< 15)
AST	14	U/L	(< 30)
ALT	21	U/L	(< 30)
GGT	19	U/L	(< 30)
Alkaline Phosphatase	54	U/L	(20-105)
Protein	68	g/L	(60-82)
Albumin	46	g/L	(38-50)
Globulin	22	g/L	(20-39)
Calcium	2.31	mmol/L	(2.10-2.60)
Corrected Calcium	2.25	mmol/L	(2.10-2.60)
Phosphate	1.02	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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SERUM/PLASMA GLUCOSE

Random Fasting status

Serum 5.8 mmol/L (3.4-7.7)

Follow-up assessment with an oral glucose tolerance test or HbA1c has been recommended for patients with random glucose concentrations of $5.5\,$ -11.0 mmol/L to maximise detection of type 2 diabetes.

HAEMATOLOGY

Date Collected 22 Mar 24 Time Collected 08:01

Specimen Type: EDTA

(115-165)6.3 x10⁹ /L (4.0-11.0) Hb 141 g/L WRC. **RCC** 4.8 x10^12 /L (3.9-5.8) 3.8 x10⁹ /L (2.0-7.5) Neut Hct 0.43 (0.34 - 0.47)Lymp 1.9 x10^9 /L (1.0-4.0) MCV 89 fL (79-99)Mono 0.4 x10^9 /L (0.2-1.0) (27-34) /L (< 0.7) MCH 29 0.1 x10^9 Eos pg 330 (320 - 360)Baso 0.1 x10^9 **MCHC** /L (< 0.2)g/L RDW 11.9 % (10.0-17.0)Plat 239 x10^9 /L (150-400)

HAEMATOLOGY: FBC parameters are within reference range.

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