

UR No: 90054979

Dr Ref: 00095288

Lab Number: 24-50381949

Patient: BELL, NICHOLAS

Receipt Date: 30/01/2024

Address: 26 COSHAM ST BRIGHTON VIC

Collected: 30/01/2024 08:10 AM

Postcode: 3186

Phone: 0416304601

Reported: 01/02/2024 12:26 PM

DOB: 14/08/1980

Sex: M

Age: 43 years

Tests Requested: SEL, ZNS, CUS, SU, AND, GHB, INS, CRS, COL, AML, BFO, TFT, FHP, HOC, FES, PRL, APP*

*=Tests Outstanding

MBI, CPK, GS, LDH, LIP, VID, SOM, FBE

Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151

Ref by. INTELLIGENT SCREEN,

Selenium

SERUM/PLASMA TRACE ELEMENTS

1.53 umol/L (0.80-1.90)

Zinc

SERUM/PLASMA TRACE ELEMENTS

11.4 umol/L (10.0-18.0)

Copper

SERUM/PLASMA TRACE ELEMENTS

15 umol/L (RI)
(11-22)

RI = Reference Interval

REFERRED WORK

The specimen for : SPECIMEN AS REQUESTED

Has been forwarded to: MONASH MEDICAL CENTRE

BIOCHEM. DPT: LEVEL 4

246 CLAYTON RD

CLAYTON

VIC 3168

Phone: 9594 4538

(No charge has been raised by us for collection or courier costs)

NORMAL
FILE

NOTES
REQUIRED

RECALL
PATIENT

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by. INTELLIGENT SCREEN,

Total Testosterone :	28.0 nmol/L	Ref. Range (10.0-31.0)	
Dehydroepiandrosterone Sulphate :	3.9 umol/L	(3.0-10.5)	
Sex Hormone Binding Globulin :	83 nmol/L	(13-71)	**
Calculated Free Testosterone :	325 pmol/L	(225-725)	

No calculated free testosterone will be reported if testosterone or SHBG is outside our measuring range.

Testosterone, SHBG and DHEA Method: Siemens Immunoassay.

Note: Serum testosterone and DHEAS concentrations may be falsely increased and SHBG concentration may be falsely decreased in people taking biotin supplements. Unless medical contraindicated, supplements should be withheld at least 3-5 days before testing.

BLOOD HAEMOGLOBIN A 1c

Date	Lab.No.	HbA1C %	HbA1c mmol/mol
16/10/23	48516797	4.9	30
30/01/24	50381949	4.3	23

For diagnosis of diabetes mellitus the cut off is 6.5%.

For monitoring diabetic patients use the guidelines below.

Guidelines	HbA1c%	HbA1c mmol/mol
General Target	< 7.1	< 54
Adequate	< 8.1	< 65
Suboptimal	> 8.0	> 64

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PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by: INTELLIGENT SCREEN,

SERUM INSULIN

Collection time: 8:10 am

Insulin: **2** mIU/L

Note: Normal fasting serum insulin is between 3 and 25 mIU/L.

Ultrasensitive C-Reactive Protein : < 0.50 mg/L (< 2.00)

Method: Siemens Immunoassay
Small increases in CRS may be seen with atherosclerosis. Values over 10mg/L usually indicate acute inflammation.

SERUM CORTISOL

Time	Cortisol	Ref.Range
8:10 AM	654 nmol/L	(145-619) *

- Low serum cortisol
1. Adrenal insufficiency (Addison's disease or pituitary failure)
 2. Diurnal variation (high in the morning, low at midnight)
 3. Steroid therapy (steroids suppress endogenous cortisol production)
 4. Normal response to Dexamethasone is serum cortisol < 50 nmol/L
 5. Decreased cortisol binding globulin (e.g. nephrotic syndrome)

- High serum cortisol
1. Stress
 2. Exogenous steroids (prednisone, hydrocortisone, cortisone)
 3. Cushing's syndrome (pituitary, adrenal or ectopic ACTH)
 4. Increased cortisol binding globulin (e.g. pregnancy, oral contraceptive pill)

Method: Siemens Immunoassay

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by. INTELLIGENT SCREEN,

SERUM PANCREATIC STUDIES					
Coll.Date:	16/10/23	05/12/23	30/01/24		
Coll.Time:	09:50	08:15	08:10		
Lab.No:	48516797	30321613	50381949		
				Units	Ref.Range
Amylase:	73	96	107	--	-- U/L (0-100)
Lipase:	47	70	64	--	-- U/L (0-60)

COMMENTS:

Amylase - Note: The elevation of serum amylase in acute pancreatitis is transient, usually returning to normal levels within 48 hours. Other causes of an elevated serum amylase, in the setting of an acute abdomen, include gastrointestinal perforation (including a ruptured peptic ulcer), intestinal obstruction, acute biliary disease, ruptured ectopic pregnancy and intestinal ischaemia or infarction. Serum amylase can also be increased with parotitis.

NORMAL FILE

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by: INTELLIGENT SCREEN,

Date: 16/10/23 30/01/24
Time: 09:50 08:10
Lab.No: 48516797 50381949

			Ref.
			Units Range
Holotranscobalamin :	> 146	> 146	pmol/L (> 27)
Serum Folate :	> 54.0	> 54.0	nmol/L (> 9.0)

Comment:
No vitamin B12 deficiency.

Please note that as of 18/10/2021, Dorevitch changed to the Atellica analyser for Active B12 testing. Comparison studies have shown good agreement between the methods and the reference intervals have not changed. If further information is required, please contact a Chemical Pathologist on 9244 0444.

Method: Siemens Immunoassay

Note: Serum folate concentration may be falsely increased in people taking biotin supplements. Unless medical contraindicated, supplements should be withheld at least one week before testing.

NORMAL FILE

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by. INTELLIGENT SCREEN,

THYROID FUNCTION TESTS (SERUM)

Coll.Date:	16/10/23	05/12/23	30/01/24	
Coll.Time:	09:50	08:15	08:10	
Lab.No:	48516797	30321613	50381949	
				Units Ref.Range
Free T4:	19.0	17.1	14.5	pmol/L (10.0-23.0)
TSH:	2.32	2.67	3.53	mIU/L (0.50-4.00)
Free T3:	5.4	5.7	5.0	pmol/L (3.5-6.5)

Results indicate normal thyroid function.
Note that TSH should NOT be used to adjust thyroxine treatment in people with pituitary disease.
Medical professionals: Please contact a pathologist if required on (03) 9244 0444.

Method: Siemens Immunoassay

Note: Free T4 results should be interpreted with caution in patients taking high-dose biotin therapy due to possible interference with this test.

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by. INTELLIGENT SCREEN,

SERUM HORMONES

		FSH IU/L	LH IU/L	E2 pmol/L	PROG nmol/L
Lab.No	Date				
48516797	16/10/23	14	5		5.9
49437486	28/11/23	14	7		
50381949	30/01/24	15	6		1.2

REFERENCE INTERVALS
Adult Male

1-10 1-10 - 1.2-4.8

Method: Siemens Immunoassay

PLASMA HOMOCYSTEINE

Ref.Range

Plasma Homocysteine : 8.5 umol/L (3.7-13.9)

Method: Siemens Immunoassay

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by: INTELLIGENT SCREEN,

SERUM IRON-STUDIES

	Date:16/10/23	28/11/23	05/12/23	30/01/24	
	Time:09:50	08:10	08:15	08:10	
	Lab.No:48516797	49437486	30321613	50381949	
					Ref.
					Units
					Range
Ferritin:	157	163	135	91 ug/L	(30-320)
Iron:	28		26	9 umol/L	(10-30)
Transferrin:	2.4		2.3	2.2 g/L	(2.0-3.6)
Transferrin Sat:	47		45	16 %	(13-47)

Medical professionals: Please contact a pathologist on 03 9244 0444 if required.

Please note: The Ferritin reference intervals have changed from 20/08/2019

Method: Siemens Immunoassay

PROLACTIN

Serum Prolactin : 328 mIU/L (45-375)

Method: Siemens Immunoassay

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151
Ref by: INTELLIGENT SCREEN,

SERUM/PLASMA BIOCHEMISTRY

	Coll.Date: 16/10/23	28/11/23	05/12/23	30/01/24		Biological
	Coll.Time: 09:50	08:10	08:15	08:10		
	Lab.No: 48516797	49437486	30321613	50381949		
					Units	Ref.Int.
Sodium:	140	137	139	139	-- mmol/L	(135-145)
Potassium:	4.6	4.2	4.3	4.1	-- mmol/L	(3.5-5.2)
Chloride:	106	104	108	105	-- mmol/L	(95-110)
Bicarbonate:	29	29	28	26	-- mmol/L	(22-32)
Urea:	8.0	8.0	10.3	7.7	-- mmol/L	(2.3-7.6)
eGFR(mL/min):	72	85	83	> 90	-- per 1.73sqm(> 60)	
Creatinine:	108	94	96	84	-- umol/L	(60-110)
Bilirubin:	14	12	15	6	-- umol/L	(0-20)
ALT:	47	31	35	37	-- U/L	(0-55)
AST:	32	25	28	29	-- U/L	(0-40)
ALP:	85	71	68	66	-- U/L	(30-110)
GGT:	21	16	16	17	-- U/L	(0-50)
Tot.Protein:	66	61	64	61	-- g/L	(60-80)
Albumin:	43	40	39	38	-- g/L	(36-49)
Globulin:	23	21	25	23	-- g/L	(22-40)
Calcium:	2.48	2.25	2.22	2.26	-- mmol/L	(2.15-2.65)
Cor.Calcium:	2.42	2.25	2.24	2.30	-- mmol/L	(2.15-2.65)
Phosphate:	1.12	1.08	1.08	1.27	-- mmol/L	(0.75-1.50)
Urate:	0.32	--	0.28	0.32	-- mmol/L	(0.18-0.48)
Magnesium:	0.82	0.74	0.80	0.75	-- mmol/L	(0.60-1.10)
Coll.Date:	16/10/23	28/11/23	05/12/23	30/01/24		
Coll.Time:	09:50	08:10	08:15	08:10		

Reference intervals for EUC and LFTs have been updated from 01/08/2017.

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by: INTELLIGENT SCREEN,

SERUM/PLASMA BIOCHEMISTRY

Coll.Date:	16/10/23	28/11/23	05/12/23	30/01/24		
Coll.Time:	09:50	08:10	08:15	08:10		
Lab.No:	48516797	49437486	30321613	50381949		
					Units	Ref.Range
CPK:	175	134	115	93	-- U/L	(0-240)
LDH:	171	--	162	146	-- U/L	(120-250)
Amylase:	73	--	96	--	-- U/L	(0-100)
Spec.Type:	Unknown	Fasting	Unknown	Fasting	--	
Cholesterol:	5.0	5.3	5.6	5.3	-- mmol/L	(0.0-5.0)
Trig:	0.6	0.7	0.7	1.1	-- mmol/L	(< 2.0)
HDL Chol:	1.6	1.5	1.7	1.6	-- mmol/L	(> 1.0)
LDL Chol:	3.1	3.5	3.6	3.2	-- mmol/L	(< 3.0)
CHOL/HDLC:	3.1	3.5	3.3	3.3	--	

Coll.Date: 16/10/23 28/11/23 05/12/23 30/01/24
Coll.Time: 09:50 08:10 08:15 08:10

GLUCOSE

Coll.Date: 16/10/23 28/11/23 05/12/23 30/01/24
Lab.No: 48516797 49437486 30321613 50381949

					Units
Specimen:	Serum	Serum	Serum	Serum	
Time:	9:50 AM	8:10 AM	8:15 AM	8:10 AM	
Type:	Unknown	Fasting	Unknown	Fasting	--
Glucose:	4.9	4.7	4.7	5.1	-- mmol/L

Note (1): Glucose reference ranges: Fasting 4.0-6.0, Random 4.0-7.8
Consider further investigation including glucose tolerance test in
people with fasting glucose 5.5-6.9 or random 7.8-11.0 mmol/L

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SERUM/PLASMA BIOCHEMISTRY

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				Units	Ref.Range
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LDH:	171	--	162	146	-- U/L (120-250)
Amylase:	73	--	96	--	-- U/L (0-100)
Spec.Type:	Unknown	Fasting	Unknown	Fasting	--
Cholesterol:	5.0	5.3	5.6	5.3	-- mmol/L (0.0-5.0)
Trig:	0.6	0.7	0.7	1.1	-- mmol/L (< 2.0)
HDL Chol:	1.6	1.5	1.7	1.6	-- mmol/L (> 1.0)
LDL Chol:	3.1	3.5	3.6	3.2	-- mmol/L (< 3.0)
CHOL/HDL:	3.1	3.5	3.3	3.3	--

Coll.Date: 16/10/23 28/11/23 05/12/23 30/01/24
Coll.Time: 09:50 08:10 08:15 08:10

Please note: The LD assay has changed from 1st June 2020 and the results will be approximately 50% of those reported before. For results BEFORE 1st June 2020 the reference interval was 240-480 U/L. Results from 1st June onwards have a reference interval of 120-250 U/L.

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151 Ref by: INTELLIGENT SCREEN,

SERUM/PLASMA LIPID STUDIES

Coll.Date: 16/10/23 28/11/23 05/12/23 30/01/24					
Coll.Time: 09:50 08:10 08:15 08:10					
Lab.No: 48516797 49437486 30321613 50381949					
	Unknown	Fasting	Unknown	Fasting	Units
Total Chol:	5.0	5.3	5.6	5.3	-- mmol/L
Triglyceride:	0.6	0.7	0.7	1.1	-- mmol/L
HDL - C:	1.6	1.5	1.7	1.6	-- mmol/L
LDL - C:	3.1	3.5	3.6	3.2	-- mmol/L
NON HDL-C:	3.4	3.8	3.9	3.7	-- mmol/L
Chol/HDL:	3.1	3.5	3.3	3.3	--

Therapeutic targets vary depending on the patient's cardiovascular risk profile.

	T.Chol	Trig	HDL-C	LDL-C	Non HDL-C
Primary Prevention:	<4.0	<2.0	>=1.0	<2.0	<2.5
Secondary Prevention:		<2.0	>=1.0	<1.8	<2.5

National Vascular Disease Prevention Alliance Guidelines 2012.
<http://strokefoundation.com.au>

National Heart Foundation Guidelines 2012.
<http://www.heartfoundation.org.au>

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Postcode: 3186

DOB: 14/08/1980

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*=Tests Outstanding

Dr Ref: 00095288

Phone: 0416304601

Sex: M

Age: 43 years

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Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151

Ref by. INTELLIGENT SCREEN,

SERUM 25 - HYDROXY VITAMIN D

Date	Lab. No.	25 - Hydroxy Vitamin D (nmol/L)	Ref.Range (> 50)
16/10/23	48516797	265	***
28/11/23	49437486	257	***
30/01/24	50381949	185	**

Method: DiaSorin Liaison XL immunoassay. Note that this test cannot be used to monitor patients taking exclusively 1,25 dihydroxy Vitamin D (Calcitriol).

SOMATOMEDIN-C

IGF1:	18 nmol/L	Reference Range (10-30)
-------	-----------	----------------------------

IGF1 is analysed using the Diasorin Liaison XL from 01/02/2013.

Please note: As of 10/08/2015, IGF1 reference interval has been changed in accordance with the current Diasorin age and sex specific intervals.

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Patient: BELL, NICHOLAS Receipt Date: 30/01/2024
Address: 26 COSHAM ST BRIGHTON VIC Collected: 30/01/2024 08:10 AM
Postcode: 3186 Phone: 0416304601 Reported: 01/02/2024 12:26 PM
DOB: 14/08/1980 Sex: M Age: 43 years
Tests Requested: SEL, ZNS, CUS, SU, AND, GHB, INS, CRS, COL, AML, BFO, TFT, FHP, HOC, FES, PRL, APP*
*=Tests Outstanding MBI, CPK, GS, LDH, LIP, VID, SOM, FBE

Doctor: INTELLIGENT SCREEN,
PO BOX 8441
Angelo St, South Perth, WA, 6151
Ref by: INTELLIGENT SCREEN,

FULL BLOOD EXAMINATION

	Coll.Date: 16/10/23	28/11/23	05/12/23	30/01/24		
	Coll.Time: 09:50	08:10	08:15	08:10		
	Lab.No: 48516797	49437486	30321613	50381949		
					Units	Ref.Range
Haemoglobin:	159	145	146	137	g/L	(130-180)
WCC:	4.6	3.3	3.1	2.9	x10^9 /L	(4.0-11.0)
Platelets:	268	212	237	232	x10^9 /L	(150-450)
RCC:	5.08	4.63	4.72	4.39	x10^12 /L	(4.50-6.50)
PCV:	0.46	0.42	0.43	0.40	L/L	(0.40-0.54)
MCV:	90	91	91	92	fL	(80-96)
MCH:	31	31	31	31	pg	(27-32)
MCHC:	348	346	340	341	g/L	(320-360)
RDW:	12.4	12.3	12.2	12.6	%	(11.0-16.0)
Neutrophils:	3.0	1.2	1.1	1.2	x10^9 /L	(2.0-8.0)
Lymphocytes:	1.1	1.7	1.6	1.4	x10^9 /L	(1.0-4.0)
Monocytes:	0.4	0.4	0.4	0.3	x10^9 /L	(0.0-1.0)
Eosinophils:	0.0	0.0	0.0	0.0	x10^9 /L	(0.0-0.5)
Basophils:	0.0	0.0	0.0	0.0	x10^9 /L	(0.0-0.2)
ESR:	2	--	--	--	mm/hr	(< 15)

16/10/23 48516797 Red cells, white cells and platelets within normal limits.
28/11/23 49437486 Mild neutropenia.
05/12/23 30321613 Mild neutropenia.
30/01/24 50381949 Mild neutropenia.

NORMAL
FILE

NOTES
REQUIRED

RECALL
PATIENT

☐
URGENT

☐
NON
URGENT