

Start Patient : BORTHWICK,DEBORAH
28 PRISTINE CT, VARSITY LAKES QLD 4227
Birthdate: 23/05/1958 Age: Y67 Sex: F
Telephone: 0417002326

Your Reference : 4090
QML Reference : 25-92832531
Medicare Number: 2190235044
Phone Enquiries: (07) 3121 4555

Referred By : KING,DR. PENELOPE
Copy To : LEE,DR. MARK
Copy To : UNKNOWN DOCTOR,COPY CODE
Addressee : LEE,DR. MARK 0493463L
Lab. Reference: 25-92832531-VD-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: VITAMIN D,SERUM
Provider name: QML Pathology

CUMULATIVE SERUM VITAMIN D

Date	30/12/24	14/03/25	04/07/25
Time	08:35	10:10	14:11
Lab No	75573310	78252168	92832531
Vitamin D3	82	71 -	47 nmol/L (> 49)

92832531

** Progress report.

Interpretation:

Result of 30-49 nmol/L - mild deficiency.

Result of 12.5-29 nmol/L - moderate deficiency.

Follow-up:

Review after 3 months of therapy will confirm if the deficiency
has been rectified.

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Lab. Reference: 25-92832531-ISM-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: MASTER IRON STUDIES
Provider name: QML Pathology

IRON STUDIES

Serum Iron	14	umol/L	(10-33)
Transferrin IBC	55	umol/L	(45-70)
Transferrin Saturation	26	%	(16-50)
Serum Ferritin Assay	303	ug/L	(30-320)

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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-BFM-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: MASTER VITAMIN B12 FOLATE
Provider name: QML Pathology

Serum Vitamin B12 Assay	378 pmol/L	(162-811)
Serum Folate Assay	45.3 nmol/L	(8.4-55.0)

Comment:

Serum Folate Assay:
Adequate Serum Folate.
In the absence of recent oral intake, a serum folate >13 nmol/L effectively rules out folate deficiency. Consider repeat fasting Folate, if there has been inadequate fasting, and clinical concern remains.

Serum Vitamin B12 Assay:
Vitamin B12 within reference interval. Tissue deficiency is unlikely.

Methodology:
B12 and Active B12 (HoloTC) assays performed on Siemens Atellica analyser.

For Doctor clinical enquiries, please contact Dr Peter Davidson 07 3121 4444.
Patients should contact their referring doctor in regard to this result.

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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-CRP-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: C REACTIVE PROTEIN
Provider name: QML Pathology

CUMULATIVE SERUM C-REACTIVE PROTEIN (CRP)	14/03/25	04/07/25
Date	10:10	14:11
Time		

Lab No

78252168

92832531

CRP

< 5

< 5 mg/L(0-6)

C-reactive protein (CRP) is a non-specific indicator of tissue damage.

The level rises rapidly (within 6-10 hours) after tissue injury, peaks at 48-72 hours and returns to normal within a few days. Common causes of markedly increased CRP include infection (particularly bacterial), trauma, surgery, myocardial infarction, many malignancies and inflammatory disorders.

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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-25T-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: E/LFT (MASTER)
Provider name: QML Pathology

CUMULATIVE SERUM BIOCHEMISTRY				
Date	30/12/24	14/03/25	04/07/25	
Time	08:35	10:10	14:11	
Lab No	75573310	78252168	92832531	
	FASTING	FASTING	RANDOM	RANDOM
Sodium	143	144	144	mmol/L (137-147)
Potass.	4.4	4.4	4.4	mmol/L (3.5-5.0)
Chloride	108	107	108	mmol/L (96-109)
Bicarb	26	28	27	mmol/L (25-33)
An.Gap	13	13	13	mmol/L (4-17)
Gluc	5.2	5.0		mmol/L
Urea	5.3	4.0	5.2	mmol/L (2.5-7.5)
Creat	71	63	68	umol/L (50-120)
eGFR	76	88	80	mL/min (over 59)
Urate	0.27			mmol/L
T.Bili	14	14	10	umol/L (2-20)
Alk.P	75	74	79	U/L (30-115)
GGT	22	24	20	U/L (0-45)
ALT	24	20	19	U/L (0-45)
AST	23	18	16	U/L (0-41)
LD	222	206	189	U/L (80-250)
Calcium	2.50			mmol/L
Corr.Ca	2.37			mmol/L
Phos	1.1			mmol/L
T.Prot	68	70	71	g/L (60-82)
Alb	47	44	46	g/L (35-50)
Glob	21	26	25	g/L (20-40)
Chol	3.6	3.6	3.9	mmol/L (3.6-7.3)
Trig	0.5	0.4	0.8	mmol/L (0.3-4.0)
Lab No	75573310	78252168	92832531	
Date	30/12/24	14/03/25	04/07/	

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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-HDL-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: HDL CHOLESTEROL, SERUM
Provider name: QML Pathology

CUMULATIVE LIPID RISK REPORT

Date	30/12/24	04/07/25	
Time	08:35	14:11	
Lab No	75573310	92832531	
	FASTING	RANDOM	
			Target if HIGH RISK
Total Cholesterol	3.6	3.9 mmol/L	(below 4.0)
Triglycerides	0.5	0.8 mmol/L	(below 2.0)

CHOLESTEROL FRACTIONS

HDL	1.75	1.87 mmol/L	(above 1.0)
LDL (calculated)*	1.62	1.67 mmol/L	(below 2.5)
Non-HDL cholesterol*	1.85	2.03 mmol/L	(below 3.3)
Total/HDL ratio**	2.1	2.1	

* Secondary prevention LDL and non-HDL cholesterol targets are lower.

** The ratio is for use with the cardiovascular risk calculator.

Web-search: "Australian cardiovascular risk calculator"

92832531 Treatment is recommended if clinically indicated or if calculated risk exceeds 15% absolute risk of CVD events over 5 years.

NVDPA 2012 Target ranges refer to HIGH RISK PATIENTS.

As of 7/3/22 LDL will no longer be measured routinely. LDL results will be calculated, in accordance with National harmonisation.

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Copy To : LEE, DR. MARK
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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-MG-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: MAGNESIUM, SERUM
Provider name: QML Pathology

Serum Magnesium

0.9 mmol/L

(0.7-1.1)

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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-CBC-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: MASTER FULL BLOOD COUNT
Provider name: QML Pathology

CUMULATIVE FULL BLOOD EXAMINATION

Date	30/12/24	14/03/25	04/07/25
Time	08:35	10:10	14:11
Lab No	75573310	78252168	92832531

Hb	143	145	146	g/L	(115-160)
RCC	4.8	4.7	4.8	x10 ¹² /L	(3.6-5.2)
Hct	0.44	0.44	0.44		(0.33-0.46)
MCV	93	93	91	fL	(80-98)
MCH	30	31	31	pg	(27-35)
Plats	217	233	251	x10 ⁹ /L	(150-450)
WCC	7.2	7.3	6.6	x10 ⁹ /L	(4.0-11.0)
Neuts	5.0	4.9	56 %	3.7 x10 ⁹ /L	(2.0-7.5)
Lymphs	1.7	1.9	34 %	2.2 x10 ⁹ /L	(1.1-4.0)
Monos	0.4	0.4	7 %	0.5 x10 ⁹ /L	(0.2-1.0)
Eos	0.07	0.07	2 %	0.13 x10 ⁹ /L	(0.04-0.40)
Basos	0.00	0.00	1 %	0.07 x10 ⁹ /L	(< 0.21)

92832531 Automated Comment:
As per ISLH guidelines - Film not reviewed. If a film review is truly indicated, contact the laboratory within 24 hours of collection. Otherwise investigate any highlighted abnormalities as clinically appropriate.

All haematology parameters are within normal limits for age and sex.

** FINAL REPORT - Please destroy previous report **

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Copy To : LEE, DR. MARK
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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-APO-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: APOLIPOPROTEIN E GENOTYPE
Provider name: QML Pathology

APOLIPOPROTEIN E GENOTYPE BY PCR

Specimen: Peripheral blood
Referral reason: Nil stated

RESULTS: e4/e3

Comment:

The e3 allele is the most commonly observed APOE allele in the general population. The e2 and e4 alleles have several disease associations, including an association between e4 and late onset Alzheimer disease, and homozygosity for e2 and hyperlipoproteinaemia type III (PMIDs 32818802, 19034316). However, the detection of these alleles is not considered specifically diagnostic for, or predictive of, disease.

This separate collection confirms the previous APO-E genetic results.

Test description:

An in-house real-time PCR analysis was performed to determine the APOE alleles (e2, e3 and e4) present. The e2 allele is determined by the presence of the NM_000041.4:c.526C>T variant; while the e4 is determined by the presence of the NM_000041.4:c.388T>C variant (PMID: 10388491).

For enquiries consult Dr Abhijit Kulkarni.

Tests Completed:TSH, FREE T4, IRON STUDIES, SE CORTISOL, FBC, SERUM FOLATE
Tests Completed:SERUM VITAMIN B12, SE U/C/ELECTS, SE TRIGS, SE LFT, SE CHOL, SE VIT D
Tests Completed:SE HDL, SE C-REACTIVE PROTEIN, SE MG, ESR, BL LEAD
Tests Completed:APOLIPOPROTEIN E GENOTYPE
Tests Pending :

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Copy To : LEE, DR. MARK
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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-ESR-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: ERYTHROCYTE SEDIMENT RATE
Provider name: QML Pathology

CUMULATIVE ERYTHROCYTE SEDIMENTATION RATE			
Date	30/12/24	14/03/25	04/07/25
Time	08:35	10:10	14:11
Lab No	75573310	78252168	92832531
ESR	2	2	2 (1-30)

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Addressee : LEE, DR. MARK 0493463L
Lab. Reference: 25-92832531-BPB-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: LEAD, BLOOD
Provider name: QML Pathology

Blood Lead	< 0.10	umol/L	(0.00-0.23)
Blood Lead (mass units)	< 2.1	ug/dL	(0.0-4.9)

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Lab. Reference: 25-92832531-AS-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: ARSENIC, BLOOD
Provider name: QML Pathology

Blood Arsenic	0.033	umol/L	(< 0.160)
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Lab. Reference: 25-92832531-CD-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: CADMIUM,BLOOD
Provider name: QML Pathology

Blood Cadmium < 6 nmol/L (0-40)

Note: in cigarette smokers, the blood cadmium may be up to 54 nmol/L.

As information on blood cadmium is scant compared with that on urinary cadmium, monitoring of urinary levels is recommended. If the blood level exceeds 45 nmol/L which is equivalent to 5 ug/L, urinary level should be assessed promptly.

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Lab. Reference: 25-92832531-HG-0  
Requested: Monday, 16 June 2025  
Performed: Friday, 4 July 2025  
Test name: MERCURY,BLOOD  
Provider name: QML Pathology

Blood Mercury < 0.01 umol/L (up to 0.06)

Occupational Guidelines (WHS QLD 2010)  
Blood mercury is for acute exposure - accidental spills.  
Dietary seafood can interfere in the blood test.  
Total inorganic mercury in blood at end of shift at end of work week should be below 0.08 umol/L.

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Lab. Reference: 25-92832531-THY-0  
Requested: Monday, 16 June 2025  
Performed: Friday, 4 July 2025  
Test name: THYROID TEST MASTER  
Provider name: QML Pathology

CUMULATIVE SERUM THYROID FUNCTION TESTS

|         |          |          |          |                        |
|---------|----------|----------|----------|------------------------|
| Date    | 15/11/18 | 30/12/24 | 14/03/25 | 04/07/25               |
| Time    | 09:45    | 08:35    | 10:10    | 14:11                  |
| Lab No  | 66367431 | 75573310 | 78252168 | 92832531               |
| TSH     | 0.78     | 1.2      | 0.77     | 1.00 mIU/L (0.50-4.00) |
| free T4 |          |          | 21       | 19 pmol/L (10-20)      |

Progress value

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Addressee : LEE, DR. MARK
Lab. Reference: 25-92832531-COR-0
Requested: Monday, 16 June 2025
Performed: Friday, 4 July 2025
Test name: ADRENAL MASTER
Provider name: QML Pathology

ADRENAL STUDIES

Serum Cortisol	200 nmol/L	(140 - 440)
Collection time: 2:11 pm		