

Pathology

Patient: DENNARD, Scott
Patient ID: 503903
DOB: 02/07/1994 (28 yrs)
Sex: Male

Date: 08/02/2023

Order Details

Test Name: GENERAL CHEMISTRY, LIPID STUDIES, ROUTINE HAEMATOLOGY, THYROID STIMULATING HORM, GLYCATED HAEMOGLOBIN, LYMPHOCYTE SURFACE MARKER, PROTEIN STUDIES **Collected Date:** 11:30 AM 08/02/2023

Requesting Doctor: DR ANTHONY CHUANG (461613DT)
Copies To: DR ANTHONY CHUANG
Sending Facility: AUSTRALIAN CLINICAL LABS **Consulting Doctor:** DR ANTHONY CHUANG (461613DT)
Attending Doctor: **Admitting Doctor:**

Order Status:
Tests Requested:
Clinical Notes:

Results

Item	Result	Units	Range	Abnormal
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PROTEIN STUDIES

CLINICAL NOTES: Not provided.

PROTEIN STUDIES

Serum Electrophoresis

Date: 08/02/23
Coll. Time: 11:30
Lab Number: 73984239

Total Protein	67	g/L	(60 - 82)	
Albumin	40	g/L	(35 - 50)	
Globulins	27	g/L	(23 - 39)	

73984239 Interpretation of protein electrophoretic pattern:

Mild increase in alpha 1 globulins (acute phase reactants). Consistent with a mild inflammatory reaction.

No paraprotein detected in serum.

GHB-R TSH-R EPG-C FBE-R LIP-R MBA-R LSM-R

All tests on this request have now been completed

Total Protein	67 g/L	(60-82)	N
Albumin	40 g/L	(35-50)	N
Globulin	27 g/L	(23-39)	N
COMMENT			N

GLYCATED HAEMOGLOBIN

CLINICAL NOTES: Not provided.

BIOCHEMISTRY

HAEMOGLOBIN A1c

SPECIMEN: WHOLE BLOOD

Date	Coll Time	Req. No.	IFCC HbA1c (mmol/mol)	DCCT HbA1c (%)
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08/02/23 11:30 73984239 34 5.3

73984239 Specialist management noted.

INTERPRETATION CRITERIA

DIAGNOSIS.

A HbA1c greater than or equal to 48 mmol/mol (6.5 %) is consistent with diabetes

MONITORING.

The usual treatment target is less than or equal to 53 mmol/mol (7%) but may vary depending on the clinical situation.

Please note that Hb A1c results may be influenced by conditions affecting red cells or their survival times such as haemoglobinopathies, anaemias, recent transfusion or blood loss.

GHB-C TSH-R EPG-W FBE-R LIP-R MBA-R LSM-W

This request has other tests in progress at the time of reporting

HbA1c	5.3 %	(<6.5)	N
IFCC HbA1c	34 mmol/mol		N
GHB Comment:			N
COMMENT			N

ROUTINE HAEMATOLOGY

CLINICAL NOTES: Not provided.

HAEMATOLOGY

SPECIMEN: WHOLE BLOOD

Date:	08/02/23	23/05/22	07/04/22	(# Refers to current result only)
Coll. Time:	11:30	10:50	10:34	
Lab Number:	73984239	61624682	61624547	
HAEMOGLOBIN	* 176	168	* 176	(125 - 175) g/L
RBC	5.64	5.21	5.55	(4.50 - 6.50) x10 ¹² /L
HCT	0.51	0.48	0.51	(0.40 - 0.55)
MCV	91	93	91	(80 - 99) fL
MCH	31.2	32.2	31.7	(27.0 - 34.0) pg
MCHC	343	347	348	(310 - 360) g/L
RDW	13.3	13.2	12.6	(11.0 - 15.0) %
WCC	5.2	5.1	* 3.9	(4.0 - 11.0) x10 ⁹ /L
Neutrophils	3.8	3.1	2.1	(2.0 - 8.0) x10 ⁹ /L
Lymphocytes	** 0.4	1.2	1.0	(1.0 - 4.0) x10 ⁹ /L
Monocytes	0.8	0.4	0.4	(< 1.1) x10 ⁹ /L
Eosinophils	0.2	0.4	0.3	(< 0.7) x10 ⁹ /L
Basophils	0.0	0.0	< 0.1	(< 0.3) x10 ⁹ /L
PLATELETS	158	166	168	(150 - 450) x10 ⁹ /L

#73984239 : There is a mildly increased haemoglobin.

GHB-W TSH-W EPG-W FBE-C LIP-R MBA-R LSM-W

This request has other tests in progress at the time of reporting

HAEMOGLOBIN	176 g/L	(125-175)	H
RCC	5.64 x10 ¹² /L	(4.5-6.5)	N
HCT	0.51	(0.4-0.6)	N
MCV	91 fL	(80-99)	N
Platelets	158 x10 ⁹ /L	(150-450)	N
White Cell Count	5.2 x10 ⁹ /L	(4.0-11.0)	N
Lymphocytes	0.4 x10 ⁹ /L	(1.0-4.0)	L
MCH	31.2 pg	(27.0-34.0)	N
Monocytes	0.8 x10 ⁹ /L	(<1.1)	N
Neutrophils	3.8 x10 ⁹ /L	(2.0-8.0)	N
Eosinophils	0.2 x10 ⁹ /L	(<0.7)	N
Basophils	0 x10 ⁹ /L	(<0.3)	N
RDW	13.3 %	(11.0-15.0)	N
MCHC	343 g/L	(310-360)	N
COMMENT			N

#73984239 : There is a mildly increased haemoglobin.

LYMPHOCYTE SURFACE MARKER

CLINICAL NOTES: Not provided.

FLOW CYTOMETRY

SPECIMEN: BLOOD

LYMPHOCYTE SURFACE MARKERS

Total Leucocytes 5200 cells/uL
Lymphocytes 8 % 416 cells/uL

Description	Antibody	%	cells/uL	RR
T-CELL SUBSETS				
* T4 Helper Cell	CD4+3+	52.6	219	(400 - 1600)
* T8 Suppressor Cell	CD8+3+	9.6	40	(270 - 900)
* Mature T3 Lymphocyte	CD3	72.8	303	(700 - 2700)
non-MHC Restricted T Cell	CD56+3+	4.6	19	(5 - 90)
* T HELP/T SUPPRESSOR T4:T8 ratio			5.5	(1.0 - 2.4)
B-CELL SUBSETS				
* Total B Lymphocyte	CD19	7.7	32	(70 - 400)
OTHER SUBSETS				
Natural Killer Cells	CD16+56+3-	14.5	60	(90 - 400)

COMMENT

There is a pan-lymphopenia of all major lymphocyte subsets present.

GHB-R TSH-R EPG-W FBE-R LIP-R MBA-R LSM-C

This request has other tests in progress at the time of reporting

LEUCOCYTES, ABSOLUTE(FC1)	5200 cells/uL		N
Lymphocytes	8 %		N
LYMPHOCYTES ABSOLUTE(FC1)	416 cells/uL		N
CD4 T helper cell	52.6 %		N
T HELPER ABSOLUTE(CD4)	219 cells/uL	(400-1600)	L
CD8 T suppresor cell	9.6 %		N
T SUPPRESSOR ABSOL.(CD8)	40 cells/uL	(270-900)	L
CD3 Mature T cell	72.8 %		N
T CELLS ABSOLUTE (CD3)	303 cells/uL	(700-2700)	L
CD19 Pan-B cell	7.7 %		N
B CELLS ABSOLUTE(CD19)	32 cells/uL	(70-400)	L
NON-MHC RESTRICT. T CELL	4.6 %		N
NON-MHC RESTRICT. T CELL	19 cells/uL	(5-90)	N
HELPER/SUPPRESSOR RATIO	5.5	(1.0-2.4)	H
% CD16+(KILLERCELLS)	14.5 %		N
% CD16+(KILLERCELLS)	60 cells/uL	(90-400)	L
FC COMMENT & BILLING			N

LIPID STUDIES

CLINICAL NOTES: Not provided.

BIOCHEMISTRY

LIPID STUDIES

SPECIMEN: SERUM

Date:	08/02/23	07/04/22	Desirable Range	
Lab Number:	73984239	61624547	(Fasting)	
Fasting Status	Random	Fasting		
Total Chol.	3.4	4.3	(< 5.6)	mmol/L
HDL Chol.	1.7	1.9	(> 1.0)	mmol/L
LDL Chol.	1.4	2.2	(< 2.5)	mmol/L
Non-HDL Chol.	1.7	2.4	(< 3.9)	mmol/L
Triglyceride	0.6	0.5	(< 2.0)	mmol/L
LDL/HDL Ratio	0.8	1.2		
Chol/HDL Ratio	2.0	2.3		

73984239 Acceptable lipid profile.

Desirable ranges for high CV risk patients are:
LDL Cholesterol < 2.0 mmol/L
Non-HDL Cholesterol <2.5 mmol/L

GHB-W TSH-W EPG-W FBE-V LIP-C MBA-R LSM-W

This request has other tests in progress at the time of reporting

Fasting status	Random		N
Total Cholesterol	3.4 mmol/L		N
Triglycerides	0.6 mmol/L	(<2.0)	N
H.D.L. Cholesterol	1.7 mmol/L	(>1.0)	N
L.D.L. Cholesterol	1.4 mmol/L	(<2.5)	N
Non-HDL Cholesterol	1.7 mmol/L	(<3.9)	N
LDL/HDL Ratio (Risk Factor)	0.8		N
Chol/HDL Ratio (Risk Factor)	2		N
Lipid Comment:			N
Acceptable lipid profile.			
Ref Range			N
Desirable Range (Fasting)			
HIGH RISK LDL REF RANGE			N

GENERAL CHEMISTRY

CLINICAL NOTES: Not provided.

GENERAL CHEMISTRY

SPECIMEN: SERUM

Sodium	138 mmol/L (135 - 145)	Calcium	2.24 mmol/L (2.10 - 2.60)
Pot.	4.6 mmol/L (3.5 - 5.2)	Adj. Ca	2.24 mmol/L (2.10 - 2.60)
Chlor.	101 mmol/L (95 - 110)		
Bicarb.	29 mmol/L (22 - 32)	Phos.	1.12 mmol/L (0.75 - 1.50)
		T.Prot.	67 g/L (60 - 82)
Urea	3.8 mmol/L (3.5 - 8.0)	Albumin	40 g/L (35 - 50)
Creat.	78 umol/L (60 - 110)	Glob.	27 g/L (23 - 39)
eGFR	> 90 mL/min/1.73m2 (> 59)	Alk.Phos	61 U/L (30 - 120)
Urate	0.40 mmol/L (0.18 - 0.47)	Bili.	10 umol/L (< 25)
		GGTP	16 U/L (< 51)
		AST	27 U/L (< 41)
		ALT	24 U/L (< 51)
		LD	148 U/L (50 - 280)

Specialist management noted.

GHB-W TSH-W EPG-W FBE-V LIP-W MBA-C LSM-W

This request has other tests in progress at the time of reporting

Sodium	138 mmol/L	(135-145)	N
Potassium	4.6 mmol/L	(3.5-5.2)	N
Chloride	101 mmol/L	(95-110)	N
Bicarbonate	29 mmol/L	(22-32)	N
Urea	3.8 mmol/L	(3.5-8.0)	N
Creatinine	78 umol/L	(60-110)	N
Urate	0.4 mmol/L	(0.2-0.5)	N
Calcium	2.24 mmol/L	(2.1-2.6)	N
Phosphate	1.12 mmol/L	(0.8-1.5)	N
Total Protein	67 g/L	(60-82)	N
Albumin	40 g/L	(35-50)	N
Alkaline Phosphatase	61 U/L	(30-120)	N
Bilirubin (Total)	10 umol/L	(<25)	N
Gamma GT	16 U/L	(<51)	N
AST	27 U/L	(<41)	N
LD	148 U/L	(50-280)	N
ALT	24 U/L	(<51)	N
Comment:			N
Specialist management noted.			
eGFR	> 90 mL/min/1.7	(>59)	N
Adjusted Calcium	2.24 mmol/L	(2.1-2.6)	N
Globulin	27 g/L	(23-39)	N

THYROID STIMULATING HORM

CLINICAL NOTES: Not provided.

ENDOCRINOLOGY

THYROID FUNCTION ASSAYS

SPECIMEN: SERUM

Date: 08/02/23 07/04/22
Coll. Time: 11:30 10:34
Lab Number: 73984239 61624547

TSH	0.87	1.12	mIU/L (0.40 - 4.00)
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73984239 Specialist management noted.

GHB-W TSH-C EPG-W FBE-R LIP-R MBA-R LSM-W

This request has other tests in progress at the time of reporting

Thyroid Stimulating Hormone	0.87 mIU/L	(0.4-4.0)	N
Comment:			N

Specialist management noted.