

CLINICAL HISTORY:FUNCTIONAL SERIAL

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701		REQUEST DETAILS: LAB REF: 25-33881282-MBI-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 10/10/25 09:39 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009
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CLINICAL HISTORY:

GENERAL CHEMISTRY

SPECIMEN: Serum

Date 09/10/2025
Collection Time 08:20
Request 25-33881282

Electrolytes / Renal Function		Units	Reference Range
Sodium	140	mmol/L	135 - 145
Potassium	4.4	mmol/L	3.5 - 5.2
Chloride	107	mmol/L	95 - 110
Bicarbonate	26	mmol/L	22 - 32
Urea	9.4*	mmol/L	3.5 - 8.0
Creatinine	80	µmol/L	60 - 110
eGFR	> 90	mL/min/1.73m ²	> 59
Calcium	2.37	mmol/L	2.10 - 2.60
Adjusted Calcium	2.37	mmol/L	2.10 - 2.60
Phosphate	1.06	mmol/L	0.75 - 1.50
Magnesium	0.84	mmol/L	0.70 - 1.10
Uric Acid	0.38	mmol/L	0.18 - 0.47

Liver Function		Units	Reference Range
Total Protein	67	g/L	60 - 80
Albumin	40	g/L	35 - 50
Alkaline Phosphatase	49	U/L	30 - 110
Total Bilirubin	12	µmol/L	3 - 20
Gamma GT	11	U/L	5 - 50
AST	33	U/L	5 - 35
ALT	33	U/L	5 - 40
LD	177	U/L	120 - 250
Globulin	27	g/L	23 - 39

Comments:

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-R,GHB-R,INS-R,OHD-R,THA-R,TSI-R,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701	REQUEST DETAILS: LAB REF: 25-33881282-TSI-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 10/10/25 09:22 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009
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CLINICAL HISTORY:

BIOCHEMISTRY

THYROID STIMULATING IMMUNOGLOBULINS (TSI)

SPECIMEN: SERUM

		Thyroid Stimulating	TSH Receptor
Date	Lab Number	Immunoglobulins (TSI)	Antibody IU/L

09/10/25 33881282 < 0.10 IU/L (< 0.55)

COMMENT: TSI level is within the Reference Interval.

Thyroid Stimulating Immunoglobulin (TSI) measures the stimulating thyroid receptor autoantibodies which are considered more specific markers in the assessment of Graves' Disease. Quantitative analysis of TSI is performed on IMMULITE 2000 Systems Analysers.

Validated by Dr. Mirette Saad

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PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-R,GHB-R,INS-R,OHD-R,THA-R,TSI-R,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777		
PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701	REQUEST DETAILS: LAB REF: 25-33881282-GLU-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 10/10/25 06:35 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009

CLINICAL HISTORY:

GLUCOSE **SPECIMEN: Fluoride oxalate**

Date	09/10/2025
Collection Time	08:20
Request	25-33881282

		Units	Reference Range
Glucose Time	08:20		
Collection type	Fasting		
Glucose	4.5	mmol/L	3.0 - 5.4

Comments:
Glucose Reference Ranges
Random 3.0 - 6.9 mmol/L
Fasting 3.0 - 5.4 mmol/L
1 Hour post prandial 3.0 - 11.0 mmol/L
2 Hour post prandial 3.0 - 7.7 mmol/L
Specimen Legend:
FI-ox = Fluoride oxalate, serum = Serum, np = Non-Preserved

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LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701		REQUEST DETAILS: LAB REF: 25-33881282-GHB-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 10/10/25 06:32 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009
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CLINICAL HISTORY:

HAEMOGLOBIN A1c

SPECIMEN: Whole blood

Date 09/10/2025
Collection Time 08:20
Request 25-33881282

		Units	Reference Range
IFCC HbA1c	37	mmol/mol	
DCCT HbA1c	5.5	%	< 6.5

Comments:

INTERPRETATION CRITERIA
DIAGNOSIS.
A HbA1c greater than or equal to 48 mmol/mol (6.5 %) is consistent with diabetes. Consider OGTT or repeat HbA1c for confirmation.
HbA1c 6.0 - 6.4% is consistent with prediabetes. Repeat testing annually is recommended. (ADS position statement 2020)
MONITORING.
The Australian Diabetes Society (ADS) recommends individualised HbA1c targets depending on the patient's age, comorbidities and any
Hypoglycaemia (ADS position statement 2009).
A general target of less than or equal to 53 mmol/mol (7.0%) is often used.
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.

HbA1c tested on Roche c513 using Gen. 4 assay.

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-R,INS-R,OHD-R,THA-R,TSI-V,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT:

MR CONNOR REGAN

C/O IMEDICAL 1 UNION ST

PYRMONT NSW 2009

PH:

DOB: 18/11/1985

SEX: MALE

UR#:

REF: 299701

REQUEST DETAILS:

LAB REF: 25-33881282-HAE-0

REFERRED: 05/10/25

COLLECTED: 09/10/25 08:20

REPORTED: 10/10/25 01:55

TESTED: 09/10/25

BATCH: 0 0

IMEDICAL LIFE

IMEDICAL LIFE

1 UNION ST

PYRMONT NSW 2009

CLINICAL HISTORY:

GENERAL HAEMATOLOGY

SPECIMEN: Whole blood

Date 09/10/2025

Collection Time 08:20

Request 25-33881282

			Units	Reference Range
Haemoglobin	144		g/L	125 - 175
RBC	4.83		x10 ¹² /L	4.50 - 6.50
HCT	0.43			0.40 - 0.55
MCV	90		fL	80 - 99
MCH	29.8		pg	27.0 - 34.0
MCHC	331		g/L	310 - 360
RDW	14.1		%	11.0 - 15.0
White Cell Count	3.5*		x10 ⁹ /L	4.0 - 11.0
Neutrophils	1.4**		x10 ⁹ /L	2.0 - 8.0
Lymphocytes	1.6		x10 ⁹ /L	1.0 - 4.0
Monocytes	0.3		x10 ⁹ /L	< 1.1
Eosinophils	0.1		x10 ⁹ /L	< 0.7
Basophils	< 0.1		x10 ⁹ /L	< 0.3
Platelets	196		x10 ⁹ /L	150 - 450

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Comments:

#33881282 : Mild neutropenia with otherwise normal analyser differential. Consider medication effect, autoimmune or post viral causes. Follow up FBE is recommended in 4 - 6 weeks.

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-R,TSI-V,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT:

MR CONNOR REGAN

C/O IMEDICAL 1 UNION ST
PYRMONT NSW 2009

PH:

DOB: 18/11/1985

SEX: MALE

UR#:

REF: 299701

REQUEST DETAILS:

LAB REF: 25-33881282-BFM-0

REFERRED: 05/10/25

COLLECTED: 09/10/25 08:20

REPORTED: 10/10/25 01:55

TESTED: 09/10/25

BATCH: 0 0

IMEDICAL LIFE

IMEDICAL LIFE

1 UNION ST

PYRMONT NSW 2009

CLINICAL HISTORY:

VITAMIN B12 AND FOLATE

SPECIMEN: Serum/Blood

Date 09/10/2025

Collection Time 08:20

Request 25-33881282

		Units	Reference Range
Vitamin B12	471	pmol/L	
Serum Folate	24.0	nmol/L	
Homocysteine	11.7	μmol/L	5.0 - 15.0

Comments:

Normal B12 and folate results. Normal homocysteine level. Vitamin B12 deficiency is unlikely.

Note: B12 levels are an imperfect indicator of B12 deficiency.

Both the pathology results and clinical features need to be considered together.

RANGES

B12 (pmol/L)

<150 Deficient

150-260 Indeterminate level. There is a moderate risk of B12 deficiency.

260-350 Low normal level. There is a low risk of B12 deficiency.

>350 B12 deficiency is unlikely.

Active B12 (pmol/L)

<30 Deficient

30-70 B12 deficiency may still be present in some of this group

>70 B12 deficiency is unlikely

Serum Folate (nmol/L) Red Cell Folate (nmol/L)

<5 Deficient <350 Deficient

5 - 10 Equivocal 350 - 350 Equivocal

>10 Normal >450 Normal

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-R,TSI-V,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

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CLINICAL HISTORY:

ENDOCRINOLOGY **SPECIMEN: SERUM**

HORMONE STUDIES

Oestradiol < 60 pmol/L (< 150)

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-R,TSI-V,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701	REQUEST DETAILS: LAB REF: 25-33881282-THA-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 09/10/25 23:02 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009
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CLINICAL HISTORY:

IMMUNOLOGY **SPECIMEN: SERUM**

THYROID AUTOANTIBODIES

Anti-ThyroGlobulin assay aTGII	< 1.3	IU/mL	(< 4.5)
Thyroid Peroxidase (TPOII) antibodies	< 6.6	IU/mL	(< 13.8)

Normal thyroid antibodies.

Key:
aTGII - anti-thyroglobulin antibodies
aTPOII - anti-thyroid peroxidase antibodies II
aTPO - anti-thyroid peroxidase antibodies

Anti-ThyroGlobulin assay (aTGII) is standardised to the WHO International Reference Preparation, Human (NIBSC 65/093) and is performed on the Siemens Centaur/Atellica Immunoassay systems.

From 28/04/2025 ACL has introduced an improved aTPOII method.
Please note, the numerical results will be different from the old method and are not comparable.

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-R,TSI-W,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777		
PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701	REQUEST DETAILS: LAB REF: 25-33881282-ISM-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 09/10/25 23:02 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009

CLINICAL HISTORY:

IRON STUDIES SPECIMEN: Serum

Date	09/10/2025
Collection Time	08:20
Request	25-33881282

		Units	Reference Range
Iron	22.1	µmol/L	10.0 - 30.0
Transferrin	2.01*	g/L	2.10 - 3.80
Transferrin Saturation	44	%	15 - 50
Ferritin	149	µg/L	30 - 500

Comments:

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LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT:

MR CONNOR REGAN

C/O IMEDICAL 1 UNION ST

PYRMONT NSW 2009

PH:

DOB: 18/11/1985

SEX: MALE

UR#:

REF: 299701

REQUEST DETAILS:

LAB REF: 25-33881282-LS-0

REFERRED: 05/10/25

COLLECTED: 09/10/25 08:20

REPORTED: 09/10/25 23:02

TESTED: 09/10/25

BATCH: 0 0

IMEDICAL LIFE

IMEDICAL LIFE

1 UNION ST

PYRMONT NSW 2009

CLINICAL HISTORY:

LIPID STUDIES

SPECIMEN: Serum

Date 09/10/2025

Collection Time 08:20

Request 25-33881282

		Units	Desirable Range (Fasting)
Fasting status	Fasting		
Cholesterol	8.2**	mmol/L	< 5.6
H.D.L. Cholesterol	1.9	mmol/L	> 0.9
L.D.L. Cholesterol	6.0**	mmol/L	< 3.1
Non-HDL Cholesterol	6.3*	mmol/L	< 4.1
Triglyceride	0.6	mmol/L	< 2.1
LDL/HDL Ratio (Risk Factor)	3.2		
Chol/HDL Ratio (Risk Factor)	4.3		

Comments:

Recommended targets for high risk patients are

Total cholesterol < 4.0 mmol/L

HDL Cholesterol > 1.0 mmol/L

LDL Cholesterol < 2.5 mmol/L (< 1.8 mmol/L for very high risk) Non-HDL Cholesterol < 3.3 mmol/L (< 2.5 mmol/L for very high risk) Fasting triglycerides < 2.0 mmol/L

Lipid ranges and targets are from the AACB Guideline for Harmonised Lipid Reporting (2018)

Target values need to be individualised based on clinical assessment of overall risk.

See the AusCVD Risk calculator at www.cvdcheck.org.au

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-R,TSI-W,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420

BFF: 299701

BATCH: 0 0

CLINICAL HISTORY:

BIOCHEMISTRY

CARDIAC/MUSCLE MARKERS

SPECIMEN: SERUM/PLASMA/WHOLE BLOOD

* CK

285

U/L

(< 201)

Elevated CK is consistent with muscle damage.

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PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-R,TSI-W,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777		
PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701	REQUEST DETAILS: LAB REF: 25-33881282-AGN-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 09/10/25 23:02 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009

CLINICAL HISTORY:

ANDROGEN STUDIES SPECIMEN: Serum

Date	09/10/2025
Collection Time	08:20
Request	25-33881282

		Units	Reference Range
Testosterone	24.9	nmol/L	6.0 - 28.0
SHBG re-std.	51*	nmol/L	15 - 50
Free Testosterone	420	pmol/L	200 - 600

Comments:

Testosterone II and SHBG are assayed on the Siemens Centaur/Atellica.

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PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-W,TSI-W,FAI-R,FTE-R,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701	REQUEST DETAILS: LAB REF: 25-33881282-INS-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 09/10/25 23:02 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009
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CLINICAL HISTORY:

INSULIN STUDIES

SPECIMEN: Serum

Date	Time	Request	Serum Insulin
09/10/2025	08:20	25-33881282	2
Units			mU/L
Reference Ranges			See below

Comments:

Insulin Reference Ranges:
Fasting 2 - 12 mU/L
2hr post prandial 5 - 30 mU/L

ENDOCRINOLOGY

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-R,OHD-R,THA-W,TSI-W,FAI-W,FTE-W,BFO-R,HCY+++

LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777		
PATIENT: MR CONNOR REGAN C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: DOB: 18/11/1985 SEX: MALE UR#: REF: 299701	REQUEST DETAILS: LAB REF: 25-33881282-TMA-0 REFERRED: 05/10/25 COLLECTED: 09/10/25 08:20 REPORTED: 09/10/25 22:34 TESTED: 09/10/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009

CLINICAL HISTORY:

THYROID FUNCTION TEST

SPECIMEN: Serum

Date	09/10/2025
Collection Time	08:20
Request	25-33881282

			Units	Reference Range
Free thyroxine (FT4)	16.8		pmol/L	9.0 - 25.0
Thyroid Stimulating Hormone	1.79		mIU/L	0.40 - 4.00
Free Tri-iodothyronine (FT3)	5.4		pmol/L	3.5 - 6.5

Comments:

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LABORATORY 3427-3420 1868 DANDENONG RD CLAYTON VIC 3168 PH: 03 9538 6777

PATIENT:

MR CONNOR REGAN

C/O IMEDICAL 1 UNION ST

PYRMONT NSW 2009

PH:

DOB: 18/11/1985

SEX: MALE

UR#:

REF: 299701

REQUEST DETAILS:

LAB REF: 25-33881282-OHD-0

REFERRED: 05/10/25

COLLECTED: 09/10/25 08:20

REPORTED: 09/10/25 22:34

TESTED: 09/10/25

BATCH: 0 0

IMEDICAL LIFE

IMEDICAL LIFE

1 UNION ST

PYRMONT NSW 2009

CLINICAL HISTORY:

VITAMIN D

SPECIMEN: Serum

Date 09/10/2025

Collection Time 08:20

Request 25-33881282

Units

25-hydroxy Vitamin D

62

nmol/L

Comments:

Within normal limits.

Interpretation:

Vitamin D deficiency <50 nmol/L

Severe deficiency <20 nmol/L

COMMENT: Vitamin D sufficiency is defined as greater than or equal to 50 nmol/L at the end of winter (level may need to be 10-20 nmol/L higher at the end of summer).

Reference: Position Statement. Vitamin D and Health in Adults in Australia and New Zealand. MJA,196(11): 686-687, 2012.

PATIENT: MR CONNOR REGAN

PANEL CODES: PFS-R,RT3-W,GLU-W,GHB-W,INS-W,OHD-R,THA-W,TSI-W,FAI-W,FTE-W,BFO-R,HCY+++