

LABORATORY 20102-2906 23 WALTERS DRIVE OSBORNE PARK WA 6017 PH: 08 9442 7444

PATIENT: MR JONATHAN MARSH C/O IMEDICAL 1 UNION ST PYRMONT NSW 2009 PH: 0409346959 DOB: 27/07/1973 SEX: MALE UR#:	REQUEST DETAILS: LAB REF: 25-27502273-MBI-0 REFERRED: 15/02/25 COLLECTED: 19/02/25 09:20 REPORTED: 19/02/25 18:29 TESTED: 19/02/25 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009
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CLINICAL HISTORY:

GENERAL CHEMISTRY

SPECIMEN: Serum

Date	19/02/2025
Collection Time	09:20
Request	25-27502273

Electrolytes / Renal Function		Units	Reference Range
Sodium	139	mmol/L	135 - 145
Potassium	4.3	mmol/L	3.5 - 5.2
Chloride	103	mmol/L	95 - 110
Bicarbonate	29	mmol/L	22 - 32
Anion Gap	11	mmol/L	9 - 19
Urea	3.4*	mmol/L	4.0 - 9.0
Creatinine	78	µmol/L	60 - 110
eGFR	> 90	mL/min/1.73m ²	> 59
Calcium	2.40	mmol/L	2.10 - 2.60
Adjusted Calcium	2.38	mmol/L	2.10 - 2.60
Phosphate	0.94	mmol/L	0.75 - 1.50
Magnesium	0.88	mmol/L	0.70 - 1.10
Uric Acid	0.34	mmol/L	0.21 - 0.43

Liver Function		Units	Reference Range
Total Protein	69	g/L	60 - 80
Albumin	41	g/L	35 - 50
Alkaline Phosphatase	66	U/L	30 - 110
Total Bilirubin	18	µmol/L	3 - 20
Gamma GT	37	U/L	5 - 50
AST	24	U/L	5 - 35
ALT	28	U/L	5 - 40
Globulin	28	g/L	23 - 39

Comments:

tm

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-R,GH-W,SCR-R,DHE-R,IGF-W,FAI-R,FBE-R,LFH-R,OST-R,PRG-R,PRL-R,IS-R+++

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CLINICAL HISTORY:

ENDOCRINOLOGY SPECIMEN: SERUM

HORMONE STUDIES

** Follicle Stimulating Hormone < 1 IU/L (2 - 18)
 Luteinizing Hormone < 1 IU/L (< 6)
 * Oestradiol 195 pmol/L (< 150)
 Progesterone 2 nmol/L (< 5)
 Prolactin (mIU/L) 106 mIU/L (45 - 375)

tm

ENDOCRINOLOGY

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-R,GH-W,SCR-R,DHE-R,IGF-W,FAI-R,FBE-R,LFH-R,OST-R,PRG-R,PRL-R,IS-R+++

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SURGERY USE: NORMAL NO ACTION CONTACT PATIENT SEE PATIENT FURTHER TESTS

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CLINICAL HISTORY:

DHEA SULPHATE

SPECIMEN: Serum

Date	Time	Request	DHEA-Sulphate
19/02/2025	09:20	25-27502273	7.3
19/08/2024	08:30	24-22935815	5.1
20/02/2024	NS	24-86323787	7.4
Units			μmol/L
Reference Ranges			2.2 - 15.2

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-R,GH-W,SCR-R,DHE-R,IGF-W,FAI-R,FBE-R,LFH-V,OST-V,PRG-V,PRL-V,IS-R+++

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CLINICAL HISTORY:

GENERAL HAEMATOLOGY

SPECIMEN: Whole blood

Date	19/02/2025	19/08/2024	20/02/2024
Collection Time	09:20	08:30	NS
Request	25-27502273	24-22935815	24-86323787

			Units	Reference Range
Haemoglobin	171	154	g/L	125 - 175
RBC	5.37	4.96	$\times 10^{12}/L$	4.50 - 6.50
HCT	0.48	0.44		0.40 - 0.55
MCV	90	89	fL	80 - 99
MCH	31.8	31.0	pg	27.0 - 34.0
MCHC	356	350	g/L	310 - 360
RDW	12.4	13.2	%	11.0 - 15.0
White Cell Count	5.8	6.7	$\times 10^9/L$	4.0 - 11.0
Neutrophils	3.2	4.3	$\times 10^9/L$	2.0 - 8.0
Lymphocytes	1.8	1.4	$\times 10^9/L$	1.0 - 4.0
Monocytes	0.5	0.5	$\times 10^9/L$	< 1.1
Eosinophils	0.2	0.4	$\times 10^9/L$	< 0.7
Basophils	< 0.1	< 0.1	$\times 10^9/L$	< 0.3
Platelets	281	256	$\times 10^9/L$	150 - 450
MPV	9.2	9.0	fL	7.1 - 11.2

Comments:

#27502273 : The red cell, white cell and platelet parameters are within normal limits.

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-R,GH-W,SCR-R,DHE-W,IGF-W,FAI-R,FBE-R,LFH-V,OST-V,PRG-V,PRL-V,IS-R+++

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CLINICAL HISTORY:

LIPID STUDIES

SPECIMEN: Serum

Date 19/02/2025

Collection Time 09:20

Request 25-27502273

		Units	Desirable Range (Fasting)
Fasting status	Fasting		
Cholesterol	4.5	mmol/L	< 5.6
H.D.L. Cholesterol	1.4	mmol/L	> 0.9
L.D.L. Cholesterol	2.8	mmol/L	< 3.1
Non-HDL Cholesterol	3.1	mmol/L	< 4.1
Triglyceride	0.7	mmol/L	< 2.1
LDL/HDL Ratio (Risk Factor)	2.0		
Chol/HDL Ratio (Risk Factor)	3.2		

Comments:

The Heart Foundation of Australia recommend calculation of the absolute cardiovascular risk using the NVDPA's calculator at www.cvdcheck.org.au. LDL-c target depends on the absolute CVD risk.

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

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PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-R,GH-W,SCR-R,DHE-W,IGF-W,FAI-R,FBE-W,LFH-W,OST-W,PRG-W,PRL-W,IS-R+++

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CLINICAL HISTORY:

IRON STUDIES

SPECIMEN: Serum

Date 19/02/2025

Collection Time 09:20

Request 25-27502273

		Units	Reference Range
Iron	17.2	µmol/L	10.0 - 30.0
Transferrin	2.55	g/L	2.10 - 3.80
Transferrin Saturation	27	%	15 - 50
Ferritin	162	µg/L	30 - 500

Comments:

BIOCHEMISTRY

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-R,GH-W,SCR-R,DHE-W,IGF-W,FAI-R,FBE-W,LFH-W,OST-W,PRG-W,PRL-W,IS-R+++

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SURGERY USE: NORMAL NO ACTION CONTACT PATIENT SEE PATIENT FURTHER TESTS

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CLINICAL HISTORY:

GLUCOSE

SPECIMEN: Serum

Date 19/02/2025

Collection Time 09:20

Request 25-27502273

Units Reference Range

Glucose Time	09:20		
Collection type	Fasting		
Glucose	4.7	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:

Fl-ox = Fluoride oxalate, serum = Serum, np = Non-Preserved

BIOCHEMISTRY

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-R,GH-W,SCR-R,DHE-W,IGF-W,FAI-R,FBE-W,LFH-W,OST-W,PRG-W,PRL-W,IS-R+++

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CLINICAL HISTORY:

BIOCHEMISTRY

C REACTIVE PROTEIN (hsCRP) SPECIMEN: SERUM

hsCRP 0.8 mg/L see below

For assessment of cardiovascular risk in the WELL individual see the following table (Reference: American Heart Association)

CRP (mg/L) Relative Risk.

- < 1.0 Low risk
- 1.0 – 3.0 Average risk
- > 3.0 High risk

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-W,GH-W,SCR-R,DHE-W,IGF-W,FAI-R,FBE-W,LFH-W,OST-W,PRG-W,PRL-W,IS-W+++

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CLINICAL HISTORY:

THYROID FUNCTION TEST

SPECIMEN: Serum

Date 19/02/2025

Collection Time 09:20

Request 25-27502273

		Units	Reference Range
Free thyroxine (FT4)	15.7	pmol/L	9.0 - 25.0
Thyroid Stimulating Hormone	1.25	mIU/L	0.40 - 4.00
Free Tri-iodothyronine (FT3)	5.1	pmol/L	3.5 - 6.5

Comments:

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PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-W,GH-W,SCR-W,DHE-W,IGF-W,FAI-R,FBE-W,LFH-W,OST-W,PRG-W,PRL-W,IS-W+++

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CLINICAL HISTORY:

ANDROGEN STUDIES

SPECIMEN: Serum

Date 19/02/2025

Collection Time 09:20

Request 25-27502273

		Units	Reference Range
Testosterone	28.1*	nmol/L	6.0 - 28.0
SHBG re-std.	21	nmol/L	15 - 50
Free Testosterone	801*	pmol/L	200 - 600

Comments:

ENDOCRINOLOGY

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-W,GH-W,SCR-W,DHE-W,IGF-W,FAI-R,FBE-W,LFH-W,OST-W,PRG-W,PRL-W,IS-W+++

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CLINICAL HISTORY:

ENDOCRINOLOGY

CORTISOL STUDIES SPECIMEN: SERUM/PLASMA/URINE

Coll. Date: 19/02/25 19/08/24 20/02/24

Coll. Time: 09:20 08:30 NS Ref.

Lab Number: 27502273 22935815 86323787 Range Units

Serum Cortisol 401 246 456 See below nmol/L

Reference Ranges: AM 110 - 550 nmol/L

PM 70 - 400 nmol/L

27502273 Early morning cortisol greater than 360 nmol/L measured on the Centaur assay makes adrenal insufficiency unlikely. Cortisol measured on the Siemens Centaur.

ENDOCRINOLOGY

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLS-W,GH-W,SCR-W,DHE-W,IGF-W,FAI-W,FBE-W,LFH-W,OST-W,PRG-W,PRL-W,IS-W+++

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