

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#: REF:	REQUEST DETAILS: LAB REF: 24-22935815-MBI-0 REFERRED: 10/08/24 COLLECTED: 19/08/24 08:30 REPORTED: 19/08/24 23:41 TESTED: 19/08/24 BATCH: 0 0	IMEDICAL LIFE IMEDICAL LIFE 1 UNION ST PYRMONT NSW 2009
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CLINICAL HISTORY:

GENERAL CHEMISTRY

SPECIMEN: Serum

Date	19/08/2024
Collection Time	08:30
Request	24-22935815

Electrolytes / Renal Function		Units	Reference Range
Sodium	135	mmol/L	135 - 145
Potassium	4.5	mmol/L	3.5 - 5.2
Chloride	102	mmol/L	95 - 110
Bicarbonate	29	mmol/L	22 - 32
Anion Gap	8*	mmol/L	9 - 19
Urea	5.3	mmol/L	4.0 - 9.0
Creatinine	77	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	1.04	mmol/L	0.75 - 1.50
Magnesium	0.90	mmol/L	0.70 - 1.10
Uric Acid	0.32	mmol/L	0.21 - 0.43

Liver Function		Units	Reference Range
Total Protein	66	g/L	60 - 80
Albumin	41	g/L	35 - 50
Alkaline Phosphatase	52	U/L	30 - 110
Total Bilirubin	20	µmol/L	3 - 20
Gamma GT	18	U/L	5 - 50
AST	24	U/L	5 - 35
ALT	26	U/L	5 - 40
Globulin	25	g/L	23 - 39

Comments:

Electrolytes, uric acid, renal and liver function tests are within reference range.

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BIOCHEMISTRY

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLU-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	215 pmol/L	(< 150)
Progesterone	1 nmol/L	(< 5)
Prolactin (mIU/L)	132 mIU/L	(45 - 375)

tm

ENDOCRINOLOGY

PATIENT: MR JONATHAN MARSH

PANEL CODES: GLU-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:

THYROID FUNCTION TEST

SPECIMEN: Serum

Date 19/08/2024

Collection Time 08:30

Request 24-22935815

		Units	Reference Range
Free thyroxine (FT4)	16.0	pmol/L	9.0 - 25.0
Thyroid Stimulating Hormone	0.96	mIU/L	0.40 - 4.00
Free Tri-iodothyronine (FT3)	5.4	pmol/L	3.5 - 6.5

Comments:

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PATIENT: MR JONATHAN MARSH

PANEL CODES: GLU-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:

ANDROGEN STUDIES

SPECIMEN: Serum

Date 19/08/2024

Collection Time 08:30

Request 24-22935815

		Units	Reference Range
Testosterone	42.5*	nmol/L	6.0 - 28.0
SHBG re-std.	22	nmol/L	15 - 50
Free Testosterone	1286**	pmol/L	200 - 600

Comments:

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PATIENT: MR JONATHAN MARSH

PANEL CODES: GLU-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:

BIOCHEMISTRY

C REACTIVE PROTEIN (hsCRP)

SPECIMEN: SERUM

hsCRP 1.2 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: GLU-R,GH-W,SCR-R,DHE-R,IGF-W,FAI-W,FBE-R,LFH-V,OST-V,PRG-V,PRL-V,IS-R+++

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CLINICAL HISTORY:

DHEA SULPHATE

SPECIMEN: Serum

Date	Time	Request	DHEA-Sulphate
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: GLU-R,GH-W,SCR-W,DHE-R,IGF-W,FAI-W,FBE-R,LFH-W,OST-W,PRG-W,PRL-W,IS-R+++

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CLINICAL HISTORY:

ENDOCRINOLOGY

CORTISOL STUDIES

SPECIMEN: SERUM/PLASMA/URINE

Coll. Date:	19/08/24	20/02/24	Ref. Range Units
Coll. Time:	08:30	NS	
Lab Number:	22935815	86323787	
Serum Cortisol	246	456	See below nmol/L
Reference Ranges: AM 110 - 550 nmol/L			
PM 70 - 400 nmol/L			

22935815 Cortisol less than 300 nmol/L may be seen with normal diurnal rhythm, exogenous steroids or adrenal insufficiency. Consider repeat cortisol with ACTH at 08:00 to clarify. Cortisol measured on the Siemens Centaur.

ENDOCRINOLOGY

PATIENT: MR JONATHAN MARSH

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

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CLINICAL HISTORY:

LIPID STUDIES

SPECIMEN: Serum

Date 19/08/2024

Collection Time 08:30

Request 24-22935815

		Units	Desirable Range (Fasting)
Fasting status	Fasting		
Cholesterol	3.5	mmol/L	< 5.6
H.D.L. Cholesterol	1.4	mmol/L	> 0.9
L.D.L. Cholesterol	1.8	mmol/L	< 3.1
Non-HDL Cholesterol	2.1	mmol/L	< 4.1
Triglyceride	0.7	mmol/L	< 2.1
LDL/HDL Ratio (Risk Factor)	1.3		
Chol/HDL Ratio (Risk Factor)	2.5		

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

PATIENT: MR JONATHAN MARSH

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

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CLINICAL HISTORY:

IRON STUDIES

SPECIMEN: Serum

Date 19/08/2024

Collection Time 08:30

Request 24-22935815

		Units	Reference Range
Iron	20.0	µmol/L	10.0 - 30.0
Transferrin	2.38	g/L	2.10 - 3.80
Transferrin Saturation	34	%	15 - 50
Ferritin	208	µg/L	30 - 500

Comments:

BIOCHEMISTRY

PATIENT: MR JONATHAN MARSH

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

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CLINICAL HISTORY:

GLUCOSE

SPECIMEN: Fluoride oxalate

Date 19/08/2024

Collection Time 08:30

Request 24-22935815

Units Reference Range

Glucose Time	08:30		
Collection type	Fasting		
Glucose	4.2	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: GLU-R, GH-W, SCR-W, DHE-W, IGF-W, FAI-W, FBE-R, LFH-W, OST-W, PRG-W, PRL-W, IS-W++

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

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CLINICAL HISTORY:

GENERAL HAEMATOLOGY

SPECIMEN: Whole blood

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

			Units	Reference Range
Haemoglobin	154	142	g/L	125 - 175
RBC	4.96	4.58	$\times 10^{12}/L$	4.50 - 6.50
HCT	0.44	0.40		0.40 - 0.55
MCV	89	88	fL	80 - 99
MCH	31.0	31.0	pg	27.0 - 34.0
MCHC	350	352	g/L	310 - 360
RDW	13.2	11.9	%	11.0 - 15.0
White Cell Count	6.7	5.8	$\times 10^9/L$	4.0 - 11.0
Neutrophils	4.3	3.4	$\times 10^9/L$	2.0 - 8.0
Lymphocytes	1.4	1.7	$\times 10^9/L$	1.0 - 4.0
Monocytes	0.5	0.3	$\times 10^9/L$	< 1.1
Eosinophils	0.4	0.2	$\times 10^9/L$	< 0.7
Basophils	< 0.1	< 0.1	$\times 10^9/L$	< 0.3
Platelets	256	262	$\times 10^9/L$	150 - 450
MPV	9.0	9.2	fL	7.1 - 11.2

Comments:

#22935815 : The red cell, white cell and platelet parameters are within normal limits.

H A E M A T O L O G Y

PATIENT: MR JONATHAN MARSH

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

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