

LABORATORY 3427-18703 UNIT 104/14 LEXINGTON DRIVE BELLA VISTA NSW 2153 PH: 1300 134 111		
PATIENT: MRS GRACE KIM U211/6 SHOUT RIDGE LINDFIELD NSW 2070 PH: DOB: 29/03/1990 SEX: FEMALE UR#: REF: 00058032	REQUEST DETAILS: LAB REF: 21-50900559-UMC-0 REFERRED: 09/04/21 COLLECTED: 09/04/21 09:10 REPORTED: 12/04/21 08:42 TESTED: 09/04/21 BATCH: 0 0	NV5 DR SANJEEVANI GUNASEKERA GORDON FAMILY MEDICAL PRACTICE SE 2, 802-808 PACIFIC HWY GORDON NSW 2072

CLINICAL HISTORY:

MICROBIOLOGY	SPECIMEN: Mid Stream Urine									
CHEMISTRY pH: 5.5 Protein: Nil Glucose: Nil Blood: Nil Ketones: Nil										
MICROSCOPY <table> <tr> <td>Leucocytes</td> <td>< 10 x 10⁶/L</td> <td>(< 10)</td> </tr> <tr> <td>Erythrocytes</td> <td>< 10 x 10⁶/L</td> <td>(< 10)</td> </tr> <tr> <td>Epithelial Cells</td> <td>Nil</td> <td></td> </tr> </table>		Leucocytes	< 10 x 10 ⁶ /L	(< 10)	Erythrocytes	< 10 x 10 ⁶ /L	(< 10)	Epithelial Cells	Nil	
Leucocytes	< 10 x 10 ⁶ /L	(< 10)								
Erythrocytes	< 10 x 10 ⁶ /L	(< 10)								
Epithelial Cells	Nil									
CULTURE No growth.										

M I C R O B I O L O G Y

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R,FT4-R,UMC-R,UC-R,TFT-R,LFT-R,ECU-R,CPM-R,IS-R,FBE-R,B12-R,OHD-R,GLS-R,GHB-R,CRP-R

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 PH:
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SEX: FEMALE
 REF: 00058032

REQUEST DETAILS:

LAB REF: 21-50900559-BFM-0
REFERRED: 09/04/21
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NV5
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CLINICAL HISTORY:

VITAMIN B12 AND FOLATE

SPECIMEN: Serum/Blood

Date	09/04/2021
Collection Time	09:10
Request	21-50900559

Vitamin B12	465	Units pmol/L
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Comments:

Normal B12 result.

RANGES	B12	Serum Folate	Red Cell Folate
Normal	> 180	> 10.0	> 450
Equivocal	150 - 180	5.0 - 10.0	350 - 450
Deficient	< 150	< 5.0	< 350

Vitamin B12 and Folate analyses are performed on the Siemens Centaur/ Atellica.

ENDOCRINOLOGY

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R, FT4-R, UMC-R, UC-R, TFT-R, LFT-R, ECU-R, CPM-R, IS-R, FBE-R, B12-R, OHD-R, GLS-R, GHB-R, CRP-R

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LAB REF: 21-50900559-CRP-0
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CLINICAL HISTORY:

PROTEIN STUDIES - C REACTIVE PROTEIN

SPECIMEN: Serum

Date	Time	Request	C-Reactive Protein
09/04/2021	09:10	21-50900559	< 0.7
Units			mg/L
Reference Ranges			< 3.0

Comments:

In the setting of infection, CRP levels >100 mg/L are supportive of bacterial rather than viral aetiology.

Note results from this CRP assay should not be used for cardiac risk assessment. Please request the high sensitivity assay (hsCRP) instead.

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PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R,FT4-R,UMC-R,UC-R,TFT-R,LFT-R,ECU-R,CPM-R,IS-R,FBE-R,B12-R,OHD-R,GLS-R,GHB-R,CRP-R

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CLINICAL HISTORY:

HAEMOGLOBIN A1c

SPECIMEN: Whole blood

Date	Time	Request	IFCC HbA1c	DCCT HbA1c
09/04/2021	09:10	21-50900559	36	6.4
Units			mmol/mol	%
Reference Ranges				< 6.5

Comments:

HbA1c consistent with euglycaemic state.

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.

HbA1c tested on Roche c513 using Gen. 3 assay.

BIOCHEMISTRY

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R,FT4-R,UMC-R,UC-R,TFT-R,LFT-R,ECU-R,CPM-R,IS-R,FBE-R,B12-R,OHd-R,GLS-R,GHB-R,CRP-R

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NV5
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SE 2, 802-808 PACIFIC HWY
GORDON NSW 2072

CLINICAL HISTORY:

GENERAL CHEMISTRY

SPECIMEN: Serum

Date	09/04/2021
Collection Time	09:10
Request	21-50900559

Electrolytes / Renal Function

		Units	Reference Range
Sodium	139	mmol/L	135 - 145
Potassium	4.3	mmol/L	3.5 - 5.2
Chloride	107	mmol/L	95 - 110
Bicarbonate	27	mmol/L	22 - 32
Urea	4.7	mmol/L	3.0 - 7.0
Creatinine	41*	μmol/L	45 - 90
eGFR	> 90	mL/min/1.73m ²	> 59
Calcium	2.33	mmol/L	2.10 - 2.60
Adjusted Calcium	2.36	mmol/L	2.10 - 2.60
Phosphate	1.24	mmol/L	0.75 - 1.50
Magnesium	0.76	mmol/L	0.70 - 1.10

9-3 Anion
muscle atrophy → exercise

Liver Function

		Units	Reference Range
Total Protein	72	g/L	60 - 82
Albumin	38	g/L	35 - 50
Alkaline Phosphatase	37	U/L	30 - 120
Total Bilirubin	12	μmol/L	< 25
Gamma GT	17	U/L	< 51
AST	19	U/L	< 41
ALT	22	U/L	< 41
Globulin	34	g/L	23 - 39

Comments:

ELECTROLYTES

Borderline low creatinine.

Note: The Calcium and Adjusted Calcium reference ranges have been changed to the Harmonised Australian Reference Intervals on 08/10/2020.

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R, FT4-R, UMC-R, UC-R, TFT-R, LFT-R, ECU-R, CPM-R, IS-R, FBE-R, B12-R, OHD-R, GLS-R, GHB-R, CRP-R

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REQUEST DETAILS:

LAB REF: 21-50900559-OHD-0
REFERRED: 09/04/21
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GORDON NSW 2072

CLINICAL HISTORY:

VITAMIN D

SPECIMEN: Serum

Date	Time	Request	25-hydroxy Vitamin D
09/04/2021	09:10	21-50900559	68
Units			nmol/L
Reference Ranges			

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.

ENDOCRINOLOGY

need higher 7100

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R, FT4-R, UMC-R, UC-R, TFT-R, LFT-R, ECU-R, CPM-R, IS-R, FBE-R, B12-R, OHD-R, GLS-R, GHB-R, CRP-R

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PH:
DOB: 29/03/1990
UR#:

SEX: FEMALE
REF: 00058032

REQUEST DETAILS:

LAB REF: 21-50900559-GLS-0
REFERRED: 09/04/21
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BATCH: 0 0

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CLINICAL HISTORY:

GLUCOSE

SPECIMEN: Serum

Date	Glucose Time	Request	Specimen	Glucose
09/04/2021	09:10	21-50900559	serum	5.4
Units				mmol/L

Comments:

INTERPRETATION

Normal random glucose.

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: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R, FT4-R, UMC-R, UC-R, TFT-R, LFT-R, ECU-R, CPM-R, IS-R, FBE-R, B12-R, OHD-R, GLS-R, GHb-R, RP-R



LABORATORY 3427-

PATIENT:
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CLINICAL HISTO

GENERAL HA

Cc

Haemoglobin
RBC
HCT
MCV
MCH
MCHC
RDW
White Cell Count
Neutrophils
Lymphocytes
Monocytes
Eosinophils
Basophils
Platelets

Comments:
#50900559 : TT

PATIENT: MI
PANEL CODES: FT



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LINDFIELD NSW 2070
PH:
DOB: 29/03/1990
UR#:

SEX: FEMALE
REF: 00058032

REQUEST DETAILS:
LAB REF: 21-50900559-TMA-0
REFERRED: 09/04/21
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CLINICAL HISTORY:

09/04/2021

09:10

21-50900559

Date
Collection Time
Request

Units Reference Range

37.3***	pmol/L	9.0 - 25.0
0.01***	mIU/L	0.10 - 4.00
19.4***	pmol/L	2.5 - 6.5

Free thyroxine (FT4)
Thyroid Stimulating Hormone
Free Tri-iodothyronine (FT3)

Comments:

Consistent with thyrotoxicosis.

ENDOCRINOLOGY

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

Page 1 of 1

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 UR#:

SEX: FEMALE
 REF: 00058032

REQUEST DETAILS:

LAB REF: 21-50900559-HAE-0
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CLINICAL HISTORY:

GENERAL HAEMATOLOGY

SPECIMEN: Whole blood

Date	09/04/2021
Collection Time	09:10
Request	21-50900559

		Units	Reference Range
Haemoglobin	129	g/L	115 - 165
RBC	4.31	$\times 10^{12}/L$	3.80 - 5.50
HCT	0.39		0.35 - 0.47
MCV	90	fL	80 - 99
MCH	29.8	pg	27.0 - 34.0
MCHC	331	g/L	310 - 360
RDW	12.1	%	11.0 - 15.0
White Cell Count	4.2	$\times 10^9/L$	4.0 - 11.0
Neutrophils	2.0	$\times 10^9/L$	2.0 - 8.0
Lymphocytes	1.5	$\times 10^9/L$	1.0 - 4.0
Monocytes	0.4	$\times 10^9/L$	< 1.1
Eosinophils	0.3	$\times 10^9/L$	< 0.7
Basophils	< 0.1	$\times 10^9/L$	< 0.3
Platelets	296	$\times 10^9/L$	150 - 450

HAEMATOLOGY

Comments:

#50900559 : The red cell, white cell and platelet parameters are within normal limits.

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R, FT4-R, UMC-R, UC-R, TFT-R, LFT-R, ECU-R, CPM-R, IS-R, FBE-R, B12-R, OHD-R, GLS-R, GHb-R, CRP-R

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SE 2, 802-808 PACIFIC HWY
GORDON NSW 2072

CLINICAL HISTORY:

IRON STUDIES

SPECIMEN: Serum

Date	09/04/2021
Collection Time	09:10
Request	21-50900559

		Units	Reference Range
Iron	25.6	μmol/L	10.0 - 30.0
Transferrin	2.06	g/L	2.10 - 3.80
Transferrin Saturation	30	%	15 - 45
Ferritin	46	μg/L	30 - 200

Comments:

Low transferrin may be due to acute and chronic inflammatory disease (negative acute phase reactant) or protein losing states.

BIOCHEMISTRY

PATIENT: MRS GRACE KIM

ALL TESTS COMPLETE

PANEL CODES: FT3-R, FT4-R, UMC-R, UC-R, TFT-R, LFT-R, ECU-R, CPM-R, IS-R, FBE-R, B12-R, OHD-R, GLS-R, GHB-R, CRP-R