

INVESTIGATION RESULTS

As at 3/6/2025.

Patient Details:

Patient Name: Miss Hailey Flanagan
Address: 2 Dandaloo Way
OCEAN SHORES NSW 2483
Phone - Home: 0432354273
Phone - Work:
D.O.B.: 1/1/1986
Record Number: 05738
Medicare Number: 2689 45954 5 / 1
DVA Number:

Allergies/Adverse Reactions: **No known allergies/adverse reactions.**

Investigation Results:

Start Patient : FLANAGAN, HAILEY MELISSA
2 DANDALOO WAY, OCEAN SHORES NSW 2483
Birthdate: 01/01/1986 Age: Y39 Sex: F
Telephone: 0432354273

Your Reference :
QML Reference : 25-96567218
Medicare Number: 2689459545
Phone Enquiries: (07) 3121 4555

Referred By : WHITE, DR. CAMILLA
Addressee : WHITE, DR. CAMILLA 411026HK
Lab. Reference: 25-96567218-25T-0
Requested: Thursday, 13 March 2025
Performed: Wednesday, 19 March 2025
Test name: E/LFT (MASTER)
Provider name: QML Pathology

SERUM CHEMISTRY - FASTING

Sodium	143	mmol/L	(137-147)
Potassium	4.2	mmol/L	(3.5-5.0)
Chloride	108	mmol/L	(96-109)
- Bicarbonate	24	mmol/L	(25-33)
Other Anions	15	mmol/L	(4-17)
Glucose	4.8	mmol/L	fasting (3.0-6.0)
Urea	2.2	mmol/L	(2.0-7.0)
Creatinine	58	umol/L	(40-110)
eGFR	> 90	mL/min	(over 59)
Uric Acid	0.21	mmol/L	(0.14-0.35)
Total Bilirubin	10	umol/L	(2-20)
Alk. Phos.	54	U/L	(30-115)
Gamma G.T.	20	U/L	(0-45)
ALT	< 10	U/L	(0-45)
AST	15	U/L	(0-41)
LD	151	U/L	(80-250)
Calcium	2.35	mmol/L	(2.15-2.60)
Adjusted for Albumin	2.39	mmol/L	(2.15-2.60)
Phosphate	1.2	mmol/L	(0.8-1.5)
Total Protein	68	g/L	(60-82)
Albumin	41	g/L	(35-50)
Globulins	27	g/L	(20-40)
Cholesterol	4.1	mmol/L	(3.6-6.7)
Triglycerides	0.6	mmol/L	fasting (0.3-2.2)

Tests Completed:TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL, FBC, SE E/LFT
Tests Completed:SE VIT D, BL HBA1C, DHEAS
Tests Pending :ACTIVE VITAMIN B12, SERUM FOLATE, SERUM VITAMIN B12, SE ZINC

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Start Patient : FLANAGAN,HAILEY MELISSA  
2 DANDALOO WAY, OCEAN SHORES NSW 2483  
Birthdate: 01/01/1986 Age: Y39 Sex: F  
Telephone: 0432354273

Your Reference :  
QML Reference : 25-96567218  
Medicare Number: 2689459545  
Phone Enquiries: (07) 3121 4555

Referred By : WHITE,DR. CAMILLA  
Addressee : WHITE,DR. CAMILLA 411026HK  
Lab. Reference: 25-96567218-ISM-0  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: MASTER IRON STUDIES  
Provider name: QML Pathology

#### IRON STUDIES

|                        |    |        |          |
|------------------------|----|--------|----------|
| Serum Iron             | 10 | umol/L | (10-33)  |
| Transferrin IBC        | 55 | umol/L | (45-70)  |
| Transferrin Saturation | 18 | %      | (16-50)  |
| - Serum Ferritin Assay | 14 | ug/L   | (25-290) |

Comment:

Low serum ferritin level indicative of mild-moderate iron deficiency.

Tests Completed:TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL, FBC, SE E/LFT  
Tests Completed:SE VIT D, BL HBA1C, DHEAS  
Tests Pending :ACTIVE VITAMIN B12, SERUM FOLATE, SERUM VITAMIN B12, SE ZINC

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Referred By : WHITE,DR. CAMILLA
Addressee : WHITE,DR. CAMILLA 411026HK
Lab. Reference: 25-96567218-COR-0
Requested: Thursday, 13 March 2025
Performed: Wednesday, 19 March 2025
Test name: ADRENAL MASTER
Provider name: QML Pathology

ADRENAL STUDIES

Serum Cortisol	350	nmol/L	(220 - 660)
Collection time: 8:45 am			

Tests Completed:TSH, FREE T4, FREE T3, SE CORTISOL, FBC, SE VIT D, BL HBA1C, DHEAS
Tests Pending :ACTIVE VITAMIN B12, IRON STUDIES, SERUM FOLATE, SERUM VITAMIN B12
Tests Pending :SE E/LFT, SE ZINC

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Referred By : WHITE,DR. CAMILLA  
Addressee : WHITE,DR. CAMILLA 411026HK  
Lab. Reference: 25-96567218-DHE-0  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: DHE-S  
Provider name: QML Pathology

|                                             |      |        |            |
|---------------------------------------------|------|--------|------------|
| DHEA - Sulphate<br>(DeHydroEpiAndrosterone) | 4.6  | umol/L | (0.5-9.0)  |
| (previous units)                            | 1700 | ng/mL  | (200-3300) |

Tests Completed:TSH, FREE T4, FREE T3, FBC, SE VIT D, BL HBA1C, DHEAS  
Tests Pending :ACTIVE VITAMIN B12, IRON STUDIES, SE CORTISOL, SERUM FOLATE  
Tests Pending :SERUM VITAMIN B12, SE E/LFT, SE ZINC

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Referred By : WHITE,DR. CAMILLA  
Addressee : WHITE,DR. CAMILLA 411026HK  
Lab. Reference: 25-96567218-THY-0  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: THYROID TEST MASTER  
Provider name: QML Pathology

#### CUMULATIVE SERUM THYROID FUNCTION TESTS

|        |          |
|--------|----------|
| Date   | 19/03/25 |
| Time   | 08:45    |
| Lab No | 96567218 |

|     |                        |
|-----|------------------------|
| TSH | 0.80 mIU/L (0.50-4.00) |
|-----|------------------------|

Euthyroid level. However if hypopituitarism (rare) is suspected, free T4 assay may be indicated.

Please note that without a specific indication, Medicare does not fund FT4 and FT3 testing in patients with normal TSH results. If these tests are clinically indicated please contact the laboratory.

Tests Completed:TSH, FREE T4, FREE T3, FBC, SE VIT D, BL HBA1C  
Tests Pending :ACTIVE VITAMIN B12, IRON STUDIES, SE CORTISOL, SERUM FOLATE  
Tests Pending :SERUM VITAMIN B12, SE E/LFT, SE ZINC, DHEAS

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Phone Enquiries: (07) 3121 4555

Referred By : WHITE,DR. CAMILLA
Addressee : WHITE,DR. CAMILLA 411026HK
Lab. Reference: 25-96567218-VD-0
Requested: Thursday, 13 March 2025
Performed: Wednesday, 19 March 2025
Test name: VITAMIN D,SERUM
Provider name: QML Pathology

CUMULATIVE SERUM VITAMIN D

Date	19/03/25
Time	08:45
Lab No	96567218
Vitamin D3	91 nmol/L (> 49)

96567218

** Progress report.

Tests Completed:FBC, SE VIT D, BL HBA1C
Tests Pending :TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL, SERUM FOLATE
Tests Pending :SERUM VITAMIN B12, SE E/LFT, SE ZINC, DHEAS

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Phone Enquiries: (07) 3121 4555

Referred By : WHITE,DR. CAMILLA  
Addressee : WHITE,DR. CAMILLA 411026HK  
Lab. Reference: 25-96567218-A1C-0  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: HAEMOGLOBIN A1C,BLOOD  
Provider name: QML Pathology

CUMULATIVE GLYCATED HAEMOGLOBIN

|        |          |
|--------|----------|
| Date   | 19/03/25 |
| Time   | 08:45    |
| Lab No | 96567218 |

|                |             |
|----------------|-------------|
| HbA1c Fraction | 4.9 %       |
| in SI units    | 30 mmol/mol |

Note: Caution is needed in interpreting HbA1c results in the presence of conditions affecting red blood cell survival times, which may lead to either falsely high or falsely low HbA1c results.

HbA1c diagnostic levels - RCPA 2014  
< 6.1% (<43 mmol/mol) - current diabetes is excluded  
6.1-6.4% (43-47 mmol/mol) - high risk for future diabetes  
> 6.4% (>48 mmol/mol) - diabetes is likely  
Unless patient has supportive symptoms or elevated plasma glucose values, repeat test is recommended.  
Currently, Medicare will fund only one diagnostic test per year.

Sample may be collected at any time - fasting is not required.  
Note - diabetes tolerance may be impaired by chronic illness, use of certain drugs including steroids, Cushing syndrome, etc.  
We would advise considering secondary forms in newly-diagnosed patients.  
For clinical enquiries, please contact Dr Appleton, Chang or Marshall

Tests Completed:FBC, BL HBA1C  
Tests Pending :TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL, SERUM FOLATE  
Tests Pending :SERUM VITAMIN B12, SE E/LFT, SE ZINC, SE VIT D, DHEAS

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Your Reference :
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Medicare Number: 2689459545
Phone Enquiries: (07) 3121 4555

Referred By : WHITE,DR. CAMILLA
Addressee : WHITE,DR. CAMILLA 411026HK
Lab. Reference: 25-96567218-BFM-0
Requested: Thursday, 13 March 2025
Performed: Wednesday, 19 March 2025
Test name: MASTER VITAMIN B12 FOLATE
Provider name: QML Pathology

Serum Vitamin B12 Assay	277	pmol/L	(162-811)
Holo TC Assay	93	pmol/L	(> 35)
Serum Folate Assay	23.5	nmol/L	(8.4-55.0)

Comment:

Serum Folate Assay:
Adequate Serum Folate.
In the absence of recent oral intake, a serum folate >13 nmol/L effectively rules out folate deficiency. Consider repeat fasting Folate, if there has been inadequate fasting, and clinical concern remains.

Serum Vitamin B12 Assay:
The vitamin B12 level is in the indeterminate range.
B12 depletion may exist with levels up to 350 pmol/L
Correlation with Folate levels as well as Holo TC (Active B12) assay is recommended.

Holo TC Assay:
No current vitamin B12 deficiency.

Methodology:
B12 and Active B12 (HoloTC) assays performed on Siemens Atellica analyser.

For Doctor clinical enquiries, please contact Dr Peter Davidson 07 3121 4444.

Patients should contact their referring doctor in regard to this result.

Tests Completed: ACTIVE VITAMIN B12, TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL
Tests Completed: FBC, SERUM FOLATE, SERUM VITAMIN B12, SE E/LFT, SE ZINC, SE VIT D
Tests Completed: BL HBA1C, DHEAS
Tests Pending :

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Start Patient : FLANAGAN, HAILEY  
2 DANDALOO WAY, OCEAN SHORES 2483  
Birthdate: 01/01/1986 Age: 39 Y Sex: F  
Telephone: 0432354273  
Your Reference : 8217000  
SNP Reference : 525140358  
Medicare Number: 2689459545  
Phone Enquiries: Drs Langguth, Kennedy (07) 3377 8666 Immunology

Referred by : Dr Camilla White  
Addressee : Dr Camilla White 411026HK  
Lab. Reference: 525140358-I-I062  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: CALPROTECTIN FAECAL  
Provider name: SNP

Clinical Notes : 39yo F - chronic abdo gas and bloating,  
mucous in stool

#### **Faecal Calprotectin**

Faecal Calprotectin 12 ( <50 ) mg/kg

Comments on Lab Id: 525140358

Elevated faecal calprotectin indicates a high probability of intestinal inflammation. Levels of faecal calprotectin above 250 mg/kg have greater positive predictive value especially in children. For patients with known inflammatory bowel disease in remission, faecal calprotectin above 50 mg/kg is associated with an increased risk of relapse over the next 12 months. In patients with faecal calprotectin levels below 50 mg/kg with strong clinical indications of intestinal inflammation, a repeat sample may be useful. In small bowel Crohn's the faecal calprotectin may be within the normal range. Many conditions including bowel cancer, NSAID ulceration, coeliac disease, diverticulitis and chronic inflammation may cause elevated faecal calprotectin. This test has not been validated in children under two years of age. Testing performed by FEIA.

Please be advised that as of November 1st 2021 the medicare schedule for faecal calprotectin testing has changed.

If all of the following five criteria have been met, no out of pocket fee will be charged -

1. The patient is under 50 years of age
2. The patient has gastrointestinal symptoms suggestive of inflammatory or functional bowel disease of more than 6 weeks duration
3. Infectious causes have been excluded
4. The likelihood of malignancy has been assessed as low
5. No relevant clinical alarms are present

All patients over the age of 50 will be charged the non-rebateable fee.

IA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Faeces PCR, Faecal Calprotectin  
Tests Pending : Faeces 1 MCS/OCP  
Sample Pending :

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Start Patient : FLANAGAN,HAILEY MELISSA
2 DANDALOO WAY, OCEAN SHORES NSW 2483
Birthdate: 01/01/1986 Age: Y39 Sex: F
Telephone: 0432354273

Your Reference :
QML Reference : 25-96567218
Medicare Number: 2689459545
Phone Enquiries: (07) 3121 4555

Referred By : WHITE,DR. CAMILLA
Addressee : WHITE,DR. CAMILLA 411026HK
Lab. Reference: 25-96567218-CBC-0
Requested: Thursday, 13 March 2025
Performed: Wednesday, 19 March 2025
Test name: MASTER FULL BLOOD COUNT
Provider name: QML Pathology

FULL BLOOD EXAMINATION

Haemoglobin	132	g/L	(115-160)
Red Cell Count	4.5	x10 ¹² /L	(3.6-5.2)
Haematocrit	0.39		(0.33-0.46)
Mean Cell Volume	88	fL	(80-98)
Mean Cell Haemoglobin	30	pg	(27-35)
Platelet Count	351	x10 ⁹ /L	(150-450)
White Cell Count	5.0	x10 ⁹ /L	(4.0-11.0)
Neutrophils	56 %	2.8 x10 ⁹ /L	(2.0-7.5)
Lymphocytes	32 %	1.6 x10 ⁹ /L	(1.1-4.0)
Monocytes	8 %	0.4 x10 ⁹ /L	(0.2-1.0)
Eosinophils	3 %	0.15 x10 ⁹ /L	(0.04-0.40)
Basophils	1 %	0.05 x10 ⁹ /L	(< 0.21)

Automated Comment:

As per ISLH guidelines - Film not reviewed. If a film review is truly indicated, contact the laboratory within 24 hours of collection. Otherwise investigate any highlighted abnormalities as clinically appropriate.

All haematology parameters are within normal limits for age and sex.

** FINAL REPORT - Please destroy previous report **

Tests Completed:FBC

Tests Pending :TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL, SERUM FOLATE
Tests Pending :SERUM VITAMIN B12, SE E/LFT, SE ZINC, SE VIT D, BL HBA1C, DHEAS

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Start Patient : FLANAGAN,HAILEY MELISSA  
2 DANDALOO WAY, OCEAN SHORES NSW 2483  
Birthdate: 01/01/1986 Age: Y39 Sex: F  
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Your Reference :  
QML Reference : 25-96567218  
Medicare Number: 2689459545  
Phone Enquiries: (07) 3121 4555

Referred By : WHITE,DR. CAMILLA  
Addressee : WHITE,DR. CAMILLA 411026HK  
Lab. Reference: 25-96567218-ZN-0  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: ZINC,SERUM

Provider name: QML Pathology

Serum Zinc

11 umol/L

(10-25)

Tests Completed:TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL, FBC, SE E/LFT

Tests Completed:SE ZINC, SE VIT D, BL HBA1C, DHEAS

Tests Pending :ACTIVE VITAMIN B12, SERUM FOLATE, SERUM VITAMIN B12

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Start Patient : FLANAGAN,HAILEY
2 DANDALOO WAY,OCEAN SHORES 2483
Birthdate: 01/01/1986 Age: 39 Y Sex: F
Telephone: 0432354273
Your Reference : 8217000
SNP Reference : 525140358
Medicare Number: 2689459545
Phone Enquiries: Dr J Robson (07)3377 8666 Molecular Path

Referred by : Dr Camilla White
Addressee : Dr Camilla White 411026HK
Lab. Reference: 525140358-D-D183
Requested: Thursday, 13 March 2025
Performed: Wednesday, 19 March 2025
Test name: FAECES PCR
Provider name: SNP

Clinical Notes : 39yo F - chronic abdo gas and bloating,
mucous in stool

Faeces PCR

Specimen Type	Faeces
Parasites:	
Giardia intestinalis	Not Detected
Cryptosporidium	Not Detected
Dientamoeba fragilis	Not Detected
Entamoeba histolytica	Not Detected
Blastocystis hominis	Not Detected

Bacteria:

Campylobacter spp.	Not Detected
Salmonella spp.	Not Detected
Shigella spp./EIEC	Not Detected
Yersinia enterocolitica	Not Detected
Aeromonas	Not Detected

Comments on Collection 525140358

Not detected results indicate the absence of detectable nucleic acids in this sample for the enteropathogens reported. Only the reported enteropathogens have been tested.

All bacterial causes of gastroenteritis reported by PCR are cultured for recovery of isolates subject to organism viability and a further report issued. Some clinical indications e.g overseas travel, eosinophilia, seafood or antibiotic ingestion will require additional parasite concentration examination, culture setup or molecular testing to detect alternative pathogens e.g. hookworm, strongyloides, Vibrios, Clostridium difficile infection (CDI), Enterohaemorrhagic E. coli (STEC). These indications should be highlighted on the request.

Roche LightMix Gastroenteritis multiplex PCR assays were utilised for testing.

For further enquiries regarding these results please contact Dr Jenny Robson or Dr Sarah Cherian (07 3377 8534).

MA

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Faeces PCR
Tests Pending : Faecal Calprotectin,Faeces 1 MCS/OCP
Sample Pending :

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Your Reference : 8217000  
SNP Reference : 525140358  
Medicare Number: 2689459545  
Phone Enquiries: Drs Robson, Cherian, Harrison (07)3377 8666 Microbiology

Referred by : Dr Camilla White  
Addressee : Dr Camilla White 411026HK  
Lab. Reference: 525140358-M-M550  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: FAECES 1  
Provider name: SNP

Clinical Notes : 39yo F - chronic abdo gas and bloating,  
mucous in stool

**Faeces 1**

**Specimen** Faeces

**Culture** No pathogens isolated

Comments: 525140358

Negative for Salmonella, Shigella, Campylobacter, Aeromonas spp.  
and Yersinia enterocolitica.

RM

Sullivan Nicolaides Pty Ltd. ABN 38 078 202 196. NATA/RCPA Accreditation No 1964

Tests Completed: Faeces PCR ,Faecal Calprotectin,Faeces 1 MCS/OCP  
Tests Pending :  
Sample Pending :

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Your Reference :
QML Reference : 25-96567218
Medicare Number: 2689459545
Phone Enquiries: (07) 3121 4555

Referred By : WHITE,DR. CAMILLA
Addressee : WHITE,DR. CAMILLA 411026HK
Lab. Reference: 25-96567218-HIS-0
Requested: Thursday, 13 March 2025
Performed: Wednesday, 19 March 2025
Test name: HISTAMINE,BLOOD
Provider name: QML Pathology

Blood Histamine 0.5 umol/L (0.2-1.8)

Reference range under review.

Tests Completed:ACTIVE VITAMIN B12, TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL
Tests Completed:FBC, SERUM FOLATE, SERUM VITAMIN B12, SE E/LFT, SE ZINC, SE VIT D
Tests Completed:BL HBA1C, DHEAS
Tests Pending :
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Start Patient : FLANAGAN,HAILEY MELISSA  
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Referred By : WHITE,DR. CAMILLA  
Addressee : WHITE,DR. CAMILLA 411026HK  
Lab. Reference: 25-96567218-UID-0  
Requested: Thursday, 13 March 2025  
Performed: Wednesday, 19 March 2025  
Test name: IODINE,URINE  
Provider name: QML Pathology

#### URINARY IODINE

|            |             |
|------------|-------------|
| Creatinine | 4.9 mmol/L  |
| Iodine     | 28 ug/L     |
| Iodine     | 0.22 umol/L |

#### WHO 2008 guidelines:

##### Classification of iodine deficiency (Urine iodine ug/L):

|       |                            |
|-------|----------------------------|
| > 99  | Not iodine deficient       |
| 50-99 | Mild iodine deficiency     |
| 20-49 | Moderate iodine deficiency |
| < 20  | Severe iodine deficiency   |

Levels in excess of 149 ug/L are regarded as adequate in pregnancy.  
Levels exceeding 300 ug/L (or above 500 ug/L in pregnancy) may carry  
a "Risk of adverse health consequences".

Tests Completed:ACTIVE VITAMIN B12, TSH, FREE T4, FREE T3, IRON STUDIES, SE CORTISOL  
Tests Completed:FBC, SERUM FOLATE, SERUM VITAMIN B12, SE E/LFT, SE ZINC, SE VIT D  
Tests Completed:BL HBA1C, DHEAS  
Tests Pending :  
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