Aimee Coe

Issues

Grief, Stress
Frequent need to Urinate
Possible Endometriosis
Migraines & headaches
Possible Idiopathic intracranial pressure
Liver Function – higher albumin and globulin
White Cell Count decreased from previous blood test
Vagus Function
Ferritin Functionally low though within range, borderline low active B12,

Gynaecological/Structural Findings

Endometrial thickness of 8.7mm:

Slightly elevated for the early to mid-follicular phase, but may be normal in the late proliferative or secretory phase. If cycle is not regular, thickness might indicate unopposed estrogen stimulation (when estrogen levels are not properly balanced by progesterone).

Estrogen stimulates tissue growth:

- Thickens the endometrial lining
- Promotes cell proliferation
- Increases fluid retention and inflammation

Progesterone on the other hand:

- Regulates and stabilises the endometrium
- Inhibits excessive growth
- Promotes normal shedding of the lining during menstruation

Migraines

Estrogen sensitises the Brain

Increases neuronal excitability, particularly in the brain areas involved in pain perception (like the trigeminal nerve pathways – Ophthalmic nerve V1 enters the orbit through the superior orbital fissure. Consider:

- sphenoid bone (greater wings of sphenoid (just lateral to the eyes around the temples)
- frontal bone

- temporal bones
- ethmoid bone
- Occipital bones decompression plus cervical spine C1-C3 and TMJ

Blood Markers

Total B12 borderline low Active B12 Functionally low

This level may impair methylation, nervous system regulation, and contribute to both migraines and hormonal dysregulation

Iron studies: Iron functionally low TIBC functionally low Ferritin functionally low

White Cell Count On the lower end

Neutrophils and lymphocytes are within typical ratios, but the low WCC may suggest chronic immune stress or depletion, possibly due to inflammation, stress, or nutritional insufficiencies.

Globulin (high-normal) could indicate liver is producing more transport proteins to manage hormone overload or detoxification load. Common in endometriosis, gut dysbiosis, latent infections, or autoimmunity.

Albumin (high) keeps fluid inside your blood vessels, binds and carries fatty acids, hormones (cortisol, thyroid hormones), drugs and toxins and helps buffer the delivery of these substances through the bloodstream, including binding free estrogen. Also acts as an antioxidant and reflects liver and nutritional status – high-normal levels can suggest dehydration or protein concentration due to inflammation or stress.

Balances

Cranial Bones Trigeminal Nerve Liver Vagus Nerve Bladder

Considerations:

DUTCH or salivary hormone testing Keyhole surgery for Endo

Potential Diagnosis

Unopposed Estrogen

Clinical signs
Cycles that are irregular, very heavy or very painful
History of migraines linked to the menstrual cycle
Mid-cycle spotting
Breast tenderness and swelling
Mood swings, especially irritability and anxiety pre-menstrually
Pelvic pain unrelated to clear structural abnormalities

Support

Stress management, ovulation support, nutritional therapy – vitamin B6, magnesium, zinc) Liver support – cruciferous vegetables, fibre)

Birthdate: 30/03/1990 Sex: F Medicare Number: 44322706211 Your Reference: 91.47386072 Lab Reference: 91.47386072 1

Laboratory: Lumus Imaging North Lakes

Addressee: Dr LOUISA WILKINSON Referred by: Dr LOUISA WILKINSON

Copy to:

Dr LOUISA WILKINSON

Name of Test: US Pelvis

Requested: 16/10/2024 Collected: 16/10/2024 Reported: 16/10/2024

21:20



Patient Name , AIMEE DOB:30/03/1990

Gender:F

Date Collected:16/10/2024

Date Reported:16/10/2024

Address : Phone:

Medicare Number:44322706211

Referred By: Dr Louisa

Wilkinson

Click here to view images

ULTRASOUND PELVIS

Clinical indication: Painful irregular periods.

Findings:

Transabdominal and transvaginal scans were performed.

Anteverted uterus is 60cc.

No uterine lesion.

Endometrial thickness measures 8.7mm. No endometrial cavity fluid or filling defect.

Cervix - normal.

Normal ovaries. Both ovaries are mobile and non tender to transducer palpation.

Right ovary is 4.9cc.

Left ovary is 19.9cc. Left corpus luteal cyst measures 1.6 x 2.6 x 1.7 cm Moderate free fluid in the pouch of Douglas.

No adnexal mass.

Conclusion:

No uterine, cervical, ovarian or adnexal mass.

Electronically Signed by: DR Winston Erng

Sonographer: N. Richardson

Protein Concentration - Albumin

WICC -

Hormonal - Chronic low grade inflammation - Endo (free fluid)

- consider liver support

Ferritin - functionally low

Active Biz - borderline low

Harmoglobin-Stable but early signs of nutrient.
Globulin - chronic stress / immune depletion

COE, AIMEE

27 GOAL CRES,

GRIFFIN. 4503

Phone:

04 20361776

Birthdate: 30/03/1990 Sex: F Medicare Number:

Lab Reference: 24-77362025-CBC-0

Laboratory: QML Pathology

Your Reference:

Addressee: DR LOUISA WILKINSON

Referred by: DR LOUISA WILKINSON

44322706211

Name of Test:

MASTER FULL BLOOD COUNT

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

13:43

CUMULATIVE FULL BLOOD EXAMINATION

Date	30/03/23			14/10/2	4			
Time	12:25			06:40				
Lab No	72826795			7736202	5			
НЬ	135			133	g/L			(115-160)
RCC	4.4			4.3	x10	^12	2 /L	(3.6-5.2)
Hct	0.40			0.40				(0.33 - 0.46)
MCV	92			93	fL			(80 - 98)
MCH	31			31	pg			(27 - 35)
Plats	331			261	x10	^9	/L	(150 - 450)
WCC	9.0			4.2	x10	^9	/L	(4.0-11.0) ●
Neuts	5.9	58	00	2.4	x10	^9	/L	(2.0-7.5)
Lymphs	2.3	33	90	1.4	x10	19	/L	(1.1-4.0)
Monos	0.6	7	믕	0.3	x10	^9	/L	(0.2-1.0)
Eos	0.09	1	00	0.04	x10	^9	/L	(0.04 - 0.40)
Basos	0.00	1	Clo	0.04	x10	19	/L	(< 0.21)

77362025 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 **

COE, AIMEE

27 GOAL CRES,

GRIFFIN. 4503

Phone: 04 20361776 Birthdate: 30/03/1990

Sex: F Medicare Number:

Your Reference:

Lab Reference: 24-77362025-THY-0

Laboratory: QML Pathology

Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

Name of Test: THYROID TEST MASTER

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

15:44

CUMULATIVE SERUM THYROID FUNCTION TESTS

Date Time Lab No 30/03/23 14/10/24 12:25 06:40 72826795 77362025

TSH

0.80 0.76 mIU/L (0.50-4.00)

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

COE, AIMEE

27 GOAL CRES, 4503 GRIFFIN.

04 20361776 Phone:

Birthdate: 30/03/1990 Sex: F Medicare Number:

Lab Reference: 24-77362025-CRP-0 Your Reference:

Laboratory: QML Pathology

Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

Name of Test: C REACTIVE PROTEIN

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

15:54

CUMULATIVE SERUM COMPLEMENT AND C-REACTIVE PROTEIN (CRP) 14/10/24 Date Time 06:40 Lab No 77362025

CRP < 5 mg/L(0-6)

C-reactive protein (CRP) is a non-specific indicator of tissue

damage. The level rises rapidly (within 6-10 hours) after tissue injury,

peaks at 48-72 hours and returns to normal within a few days. Common causes of markedly increased CRP include infection (particularly bacterial), trauma, surgery, myocardial infarction, many malignancies and inflammatory disorders.

COE, AIMEE

27 GOAL CRES, GRIFFIN. 4503

Phone: 04 20361776

Birthdate: 30/03/1990 Sex: F Medicare Number: 44322706211

Your Reference: Lab Reference: 24-77362025-25T-0

Laboratory: QML Pathology
Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

E/LFT (MASTER) Name of Test:

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

15:54

CUMULATIVE SERUM BIOCHEMISTRY

COLIC TRILL A CHILORY DECOMMENTO TELL				
Date	30/03/23	14/10/24		
Time	12:25	06:40		
Lab No	72826795	77362025		
	RANDOM	FASTING		FASTING
Sodium	140	140	mmol/L	(137 - 147)
Potass.	4.1	4.1	mmol/L	(3.5-5.0)
Chloride	101	105	mmol/L	(96-109)
Bicarb	26	27	mmol/L	(25-33)
An.Gap	17	12	mmol/L	(4-17)
Gluc	4.5	5.4	mmol/L	(3.0-6.0)
Urea	4.7	6.1	mmol/L	(2.0-7.0)
Creat	69	70	umol/L	(40-110)
eGFR	> 90	> 90	mL/min	(over 59)

PRL	106	mIU/L	(< 400)
LH	5	IU/L	
FSH	5	IU/L	
E2	320	pmol/L	
Prog	33	nmol/L	
Testo.	1.1	nmol/L	(0.4-2.1)
fTesto.c	10	pmol/L	
SHBG	83		(18-114)

Ranges:	Follicular Phase	Midcycle Peak	Luteal Phase	Post-Menopausal
LH	2 - 12	10 - 130	1 - 17	15 - 60
FSH	1 - 10	3 - 33	1 - 9	20 - 140
Oestradiol	70 - 530	230 - 1310	200 - 790	< 120
Progesterone	< 5	rising	20 - 110	< 3

COE, AIMEE

27 GOAL CRES, GRIFFIN. 4503

04 20361776

Birthdate: 30/03/1990 Sex: F 44322706211 Medicare Number:

Your Reference: Lab Reference: 24-77362025-BFM-0

Laboratory: QML Pathology
Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

MASTER VITAMIN B12 FOLATE Name of Test:

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

17:30

CUMULATIVE VITAMIN B12 AND FOLATE ASSAYS

14/10/24 Date 06:40 Time 77362025 Lab No

260 pmol/L (162-811) 55 pmol/L (> 35) 22.4 nmol/L (8.4-55.0) B12 Total Active B12 S.Fol.

Comment: 77362025

Serum Folate Assay:

Adequate Serum Folate.

In the absence of recent oral intake, a serum folate >13 $\mbox{nmol/L}$ 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: The Active B12 is in an indeterminate zone, particularly for patients with renal impairment, who may be B12 deplete despite an Active B12 within the reference interval. Correlation with total B12 and homocysteine levels is required.

0.24 0.28 mmol/L (0.14-0.35) Urate 4 umol/L (0.14-0. 52 U/L (30-115) 52 U/L (0-45) 52 6 60 T.Bili Alk.P 22 GGT U/L (0-45) 18 20 18 ALT U/L (0-45) AST T.D Calcium Corr.Ca Phos 66 g/L (60-82) 44 g/L (35-50) 22 g/L (20-40) T. Prot 49 Alb 25 4.5 Glob 4.0 mmol/L (3.6-6.7) Chol 0.6 mmol/L (0.3-2.2) 1.2 Triq 72826795 77362025 30/03/23 14/10/24 Lab No Date

COE, AIMEE

27 GOAL CRES, GRIFFIN. 4503

Phone: 04 20361776

Birthdate: 30/03/1990 Sex: F Medicare Number: 44322706211

Your Reference: Lab Reference: 24-77362025-DHE-0

Laboratory: QML Pathology
Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

Name of Test: DHE-S

Reported: 14/10/2024 Requested: 08/10/2024 Collected: 14/10/2024

17:02

CUMULATIVE DEHYDROEPIANDROSTERONE-SULPHATE

Date 14/10/24 Time 06:40 77362025 Lab No

DHEAS 5.1 umol/L (1.4-11.7)

DHEAS 1900 ng/mL (500-4300)

COE, AIMEE

27 GOAL CRES, GRIFFIN. 4503

04 20361776 Phone:

Birthdate: 30/03/1990 Sex: F Medicare Number: 44322706211

Lab Reference: 24-77362025-FHM-0 Your Reference:

Laboratory: QML Pathology

Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

FERTILITY HORMONE MASTER Name of Test:

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

17.24

CUMULATIVE FERTILITY HORMONES

14/10/24 Date Time 06:40 77362025 Lab No

If Pernicious Anaemia (PA) remains a possibility, consider screening with intrinsic factor antibody (IF-Ab) and gastric parietal cell antibody (GPC-Ab) if these have not been performed in the recent past.

Methodology:

 $\ensuremath{\mathtt{B}12}$ and Active $\ensuremath{\mathtt{B}12}$ (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, TFT, IRON STUDIES, TOTAL TESTOSTERONE, SHBG Tests Completed:PROGESTERONE, PRL, E2, LH, FREE TESTOSTERONE, FSH, FBC, SERUM FOLATE

Tests Completed: SERUM VITAMIN B12, SE E/LFT, SE VIT D, SE C-REACTIVE PROTEIN, DHEAS

Tests Pending :BL HBA1C

COE, AIMEE

27 GOAL CRES, GRIFFIN. 4503

Phone: 04 20361776

Birthdate: 30/03/1990 Sex: F Medicare Number: 44322706211

Your Reference: Lab Reference: 24-77362025-A1C-0

Laboratory: QML Pathology

Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

Name of Test: HAEMOGLOBIN A1C, BLOOD

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

17:35

CUMULATIVE GLYCATED HAEMOGLOBIN

Date 14/10/24
Time 06:40
Lab No 77362025

HbAlc Fraction 5.3 %

in SI units 34 mmol/mol

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

HbAlc 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

COE, AIMEE

27 GOAL CRES, GRIFFIN. 4503

Phone: 04 20361776

Birthdate: 30/03/1990 Sex: F Medicare Number:

Lab Reference: 24-77362025-VD-0 Your Reference:

Laboratory: QML Pathology

Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

Name of Test: VITAMIN D, SERUM

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

15:48

CUMULATIVE SERUM VITAMIN D

30/03/23 14/10/24 Date Time 12:25 06:40 77362025 Lab No 72826795

Vitamin D3 93 64 nmol/L (> 49)

77362025

** Progress report.

We occasionally see evidence of functional vitamin deficiency and possibly accelerated bone loss with levels in the range of 50-70

COE, AIMEE

GRIFFIN. 27 GOAL CRES, 4503

Phone: 04 20361776 Birthdate: 30/03/1990 Sex: F Medicare Number: 44322706211

Your Reference: Lab Reference: 24-77362025-ISM-0

Laboratory: QML Pathology

Addressee: DR LOUISA WILKINSON Referred by: DR LOUISA WILKINSON

Name of Test: MASTER IRON STUDIES

Requested: 08/10/2024 Collected: 14/10/2024 Reported: 14/10/2024

15:54

CUMULATIVE IRON STUDIES

Date 14/10/24 Time 06:40 Lab No 77362025

12 umol/L 50 umol/L Iron TIRC (45 - 70)Saturation 24 % (16-50)Ferritin 44 ug/L (25 - 290)

Tests Completed: TFT, IRON STUDIES, FBC, SE E/LFT, SE VIT D, SE C-REACTIVE PROTEIN

Tests Pending :ACTIVE VITAMIN B12, TOTAL TESTOSTERONE, SHBG, PROGESTERONE, PRL, E2

Tests Pending : LH, FREE TESTOSTERONE, FSH, SERUM FOLATE, SERUM VITAMIN B12, BL HBA1C

Tests Pending : DHEAS

COE, AIMEE

27 Goal, GRIFFIN.