Question 24 – Answer with Explanation

Situation

You are a Foundation Year 2 Doctor working in General Practice at:

The MedEd Surgery Education Street Gosforth NE12 1BY

Your supervisor is Dr Leahy.

Patient details

Name: Freda Jones

Address: 81 Framlington Place

Newcastle NE2 4HH

Date of birth: 23/02/1992 Patient number: 8465 547 126

History

Ms Jones has come to the surgery as she has reported a persistent feeling of tiredness and fatigue for the last 3 months.

This is her second appointment, and she has seen no improvement since her last appointment 6 weeks ago. Upon further discussion, she has no idea about what may be causing her tiredness and is deeply troubled by this. She would like further investigation.

She reports no weight loss, fever or night sweats, no change in bowel habit, no nausea or vomiting., and no pain or muscle tenderness. Her appetite is normal, and her mood is euthymic. She does find sleep refreshing and reports no sleep disturbance.

She experiences regular menses and has had no disturbance of her menstrual cycle over the last few months. She does not report menorrhagia.

She is employed as a primary school teacher but is struggling at work due to her tiredness. She does not smoke, drink alcohol, or consume caffeine. Ms Jones is vegetarian but has a healthy diet. She has a single sexual partner, and they use barrier contraception.

She has no significant past medical history.

Examination

Pulse: 80 beats per minute

Blood pressure: 102/66 mmHg

Oxygen Saturations: 98%

No abnormalities found upon examination.

Investigations

Normal urine dip stick.

No other investigations have been ordered up until this point.

<u>Task</u>

Please order up to **nine** tests to investigate Ms Jones's symptoms using the appropriate request form attached.

Patient number: 8465 547 126				Clinical details:
Surname: Jones		Forename: Freda		- (<i>Incl. current antibiotic therapy</i>) 31-year-old female with no
D.O.B.: 23/02/1992		Sex (please circle): M <u>F</u>		significant past medical history
Ward / Practice: The MedEd Surgery		Consultant / GP: Dr Leahy		presenting with 3-month history of persistent tiredness and fatigue
Specimen date: Todays Date		Time: The current time		which is impacting on her life. Blood tests to investigate causes for these symptoms.
Requesting MO: Dr Robert Bain		Signature: Rbain		Signature: Rbain
BIOCHEMISTRY		HAEMATOLOGY		MICROBIOLOGY / VIROLOGY
■ U/E ■ Bone profile ■ Liver profile Gamma GT Amylase Ionised calcium Magnesium	Glucose tick if fasting HbA1c Urine microalbumin Cholesterol Lipid profile	■ FBC ESR B12/Folate Glandular fever screen Haemoglobinopathy screen	INR APTR Coagulation screen Thrombophilia screen	Specimen type: Culture and sensitivity AFB/TB culture HIV HBsAg HCV Ab Other (specify):
Urate ■ CRP	tick if fasting ■ Thyroid profile	Other (specify):	IMMUNOLOGY	
■ Ferritin Immunoglobulins Other (specify):	on T4 Cyclosporin Tacrolimus		■ Auto AB screen Rh Factor ENA Abs ANCA DNA Abs	Thyroid Microsomal Abs Total IgE Other (specify):

Explanation:

This case is what could be described as a 'tired all the time' bloods case and should be investigated with a wide net of investigations to rule in / out ant potential causes.

Clinical Details:

As a rule, clinical details sections should include:

- Background information 31-year-old female with no significant past medical history
- **Clinical Problem** with 3-month history of persistent tiredness and fatigue which is impacting on her life
- **Indications for investigations** Blood tests to investigate causes for these symptoms.

Up to 9 tests are acceptable here. More than 9 tests would lead to zero marks being awarded for this question.

Tests ordered can include:

- Full Blood Count to assess for anaemia and other causes (i.e. haematological malignancy).
- 2. Ferritin To assess potential for iron deficiency anaemia.
- **3. Renal Function** to assess for renal disease and electrolyte disturbance.
- **4. Bone Profile** To assess for derangement of calcium. Ionised calcium would also be acceptable.
- Liver Function Tests To assess for underlying liver disease.
- **6. Inflammatory markers** (ESR or CRP are acceptable).
- 7. Thyroid Function Tests To assess hypo / hyperthyroidism.
- 8. HbA1C To assess for underlying diabetes mellitus.
- 9. IgA Tissue Transglutaminase (TTG) This is to investigate coeliac disease which can present with no bowel symptoms. A TTG is part of the auto antibody screen so either is acceptable.

This list has been taken from the 'Investigations' in 'tiredness and fatigue in adults' from NICE CSK (1). Other blood tests could be

considered but for the purposes of this question, these are the top blood tests to consider.

References and Useful Resources:

1. https://cks.nice.org.uk/topics/tiredness-fatigue-in-adults/diagnosis/investigations/