

### Hematology

WBC		8.9	4.0 - 11.0 x E9/L
RBC	<b>HI</b>	<b>5.31</b>	4.00 - 5.10 x E12/L
Hemoglobin		125	120 - 160 g/L
Hematocrit		0.395	0.350 - 0.450 L/L
MCV	<b>LO</b>	<b>74</b>	80 - 100 fL
MCH	<b>LO</b>	<b>23.5</b>	27.5 - 33.0 pg
MCHC		316	305 - 360 g/L
Platelets		304	150 - 400 x E9/L
RDW	<b>HI</b>	<b>16.5</b>	11.5 - 14.5 %

### Differential

Neutrophils		6.2	2.0 - 7.5 x E9/L
Lymphocytes		2.2	1.0 - 3.5 x E9/L
Monocytes		0.4	0.2 - 1.0 x E9/L
Eosinophils		0.1	0.0 - 0.5 x E9/L
Basophils		0.0	0.0 - 0.2 x E9/L

### Morphology

WBC Morphology		NORMAL	
RBC Morphology		Few Elliptocytes/Ovalocytes Slight Microcytosis	
Platelet Morphology		NORMAL	
Pathologist Review --			

RBC indices and features suggestive of thalassemia or hemoglobinopathy. Recommend hemoglobin fractionation only if status unknown.

### Hemoglobinopathy/Thalassemia Investigation

#### **Hemoglobin Investigation**

Hemoglobin A2	<b>LO</b>	<b>0.022</b>	0.023 - 0.034
Hemoglobin C/Total Hemoglobin		NOT DETECTED	
Hemoglobin E/Total Hemoglobin		NOT DETECTED	
Hemoglobin F/Total Hemoglobin		<0.010	0.000 - 0.020
Hemoglobin S/Total Hemoglobin		NOT DETECTED	
Hemoglobin Fractionation Abnormal Peaks		A Hb A2 level that is not elevated largely excludes Beta thalassemia trait, but not Alpha thalassemia. If Alpha thalassemia is suspected, please order a Hb H Preparation.	

### Biochemical Investigation of Anemias

Vitamin B12	<b>HI</b>	<b>886</b>	138-652 pmol/L
Ferritin		56	5-272 ug/L

### Urinalysis

#### **Urinalysis Chemical**

Colour		YELLOW	NONE/YELLOW
Appearance		CLEAR	CLEAR
Specific Gravity		1.010	1.001 - 1.030
pH		5.0	5.0 - 8.0

Protein		NEGATIVE	NEGATIVE g/L
Glucose		NEGATIVE	NEGATIVE mmol/L
Ketones	<b>HI = OR &gt;8.0</b>		NEGATIVE mmol/L
Erythrocytes		NEGATIVE	NEGATIVE mg/L
Nitrite		NEGATIVE	NEGATIVE
Leukocyte Esterase	<b>HI 75</b>		NEGATIVE WBC/uL

### **General Chemistry**

Glucose Fasting	<b>LO 3.1</b>		3.6 - 6.0 mmol/L
Hemoglobin A1C		5.1	<6.0 %
Sodium		141	135-145 mmol/L
Potassium	<b>HI 5.7</b>		3.5-5.2 mmol/L
Creatinine		64	50-100 umol/L
Glomerular Filtration Rate (eGFR)		117	> OR = 90ml/min/1.73m2
Urate	<b>HI 442</b>		150-390 umol/L
Albumin		46	35-52 g/L
Bilirubin Total	<b>HI 21</b>		<20 umol/L
Alkaline Phosphatase		48	35-120 U/L
Alanine Aminotransferase		8	<36 U/L
Lactate Dehydrogenase		141	110-230 U/L

### **Lipids**

Everything was normal in the lipid panel

### **Thyroid Function**

Thyroid Stimulating Hormone [TSH]	<b>LO 0.31</b>		0.32-4.00 mIU/L
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### **Pituitary Function**

Follicle Stimulating Hormone [FSH]		8.9 IU/L	Follitropin (FSH) female reference intervals ----- Follicular: 3.0-8.0 IU/L Mid-cycle: 3.0-22.0 IU/L Luteal: 1.5-5.5 IU/L Post-menopausal: 27.0-133.0 IU/L
Luteinizing Hormone [LH]		29.7 IU/L	Lutropin (LH) female reference intervals ----- Follicular: 2.0-12.0 IU/L Mid-cycle: 8.0-90.0 IU/L Luteal: 1.0-14.0 IU/L Post-menopausal: 5.0-62.0 IU/L

### **Adrenocorticotrophic Hormone [ACTH]**

Adrenocorticotrophic Hormone [ACTH] Collection Time 11:30		2.0	< 14.0 pmol/L
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### **Cortisol AM**

Cortisol AM Collection Time 07:51		309	135-537 nmol/L
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### **Reproductive and Gonadal**

Estradiol			476 pmol/L
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Estradiol adult female reference intervals

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Follicular: 77-921 pmol/L  
Mid-cycle: 139-2382 pmol/L  
Luteal: 77-1145 pmol/L  
Post-menopausal: <103 pmol/L

Progesterone

2.0 nmol/L

Progesterone adult female reference intervals

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Follicular: <1.7 nmol/L  
Luteal: 4.0-50.0 nmol/L  
Post-menopausal: <1.7 nmol/L

Dehydroepiandrosterone [DHEA-S]

7.8

< 9.8 umol/L

**Microbiology**

**Urine Culture**

Specimen Source

MIDSTREAM URINE

Colony Count

>100 x E6 CFU/L

Culture Status

Final

Organism

1) *Lactobacillus species*

Organism(s) in culture considered to be non-pathogens; suggestive of specimen contamination.