

### **Hematology**

WBC	8.9	4.0 - 11.0 x E9/L
RBC	<b>HI 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 74</b>	80 - 100 fL
MCH	<b>LO 23.5</b>	27.5 - 33.0 pg
MCHC	316	305 - 360 g/L
Platelets	304	150 - 400 x E9/L
RDW	<b>HI 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 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 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</b>	<b>= 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	77	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</b>	<b>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]	2.0	< 14.0 pmol/L
Collection Time 11:30		

### **Cortisol AM**

Cortisol AM	309	135-537 nmol/L
Collection Time 07:51		

### **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.