Patient: **SOARES, CIDALIA MARIA**

Age: 48 years Gender: F
Date of Birth: Jul 16 1972
HC #: **6333827472**
Patient's Phone: (416) 821-2900

Ordered by: KHAN DR. SAADIA
Copy To:

Lab No: **2021-ES1720642**
Reference #:
Patient ID:
Referring Site ID:

Date of Service: Jun 21 2021 10:46
Reported on: Jun 21 2021 20:47

LifeLabs®
Address: 100 International Blvd.
Toronto, Ontario
Canada M9W 6J6
Telephone: (877) 849-3637
Toll Free: (877) 849-3637
Fax: (905) 795-9891

Test	Flag	Result	Reference Range - Units	Lab Lic. #
Hematology				#5407
WBC		4.1	4.0 - 11.0	x E9/L
RBC		4.48	4.00 - 5.10	x E12/L
Hemoglobin		136	120 - 160	g/L
Hematocrit		0.403	0.350 - 0.450	L/L
MCV		90	80 - 100	fL
MCH		30.4	27.5 - 33.0	pg
MCHC		337	305 - 360	g/L
RDW		11.8	11.5 - 14.5	%
Platelet Count		220	150 - 400	x E9/L
Differential				
Neutrophils		2.3	2.0 - 7.5	x E9/L
Lymphocytes		1.1	1.0 - 3.5	x E9/L
Monocytes		0.4	0.2 - 1.0	x E9/L
Eosinophils		0.2	0.0 - 0.5	x E9/L
Basophils		0.0	0.0 - 0.2	x E9/L
Immature Granulocytes		0.0	0.0 - 0.1	x E9/L
Nucleated RBC		0		/100 WBC
Biochemical Investigation of Anemias				
Vitamin B12	**HI**	**998**	138-652	pmol/L
Ferritin		63	5-272	ug/L
Urinalysis				
Urinalysis Chemical				
Collection Date		21-JUN-2021		
Collection Time		10:46		
Colour		YELLOW	NONE/YELLOW	
Appearance		SLIGHTLY CLOUDY		
Specific Gravity		1.014	1.001 - 1.030	
pH		6.0	5.0 - 8.0	
Protein		NEGATIVE	NEGATIVE	g/L
Glucose		NEGATIVE	NEGATIVE	mmol/L
Ketones	**HI**	**0.5**	NEGATIVE	mmol/L
Erythrocytes	**HI**	**0.3**	NEGATIVE	mg/L
		Borderline result for predicting hematuria (based on LifeLabs internal microscopy comparison study, 2019). Repeat if clinically indicated.		
Nitrite		NEGATIVE	NEGATIVE	
Leukocyte Esterase		NEGATIVE	NEGATIVE	WBC/uL

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Test	Flag	Result	Reference Range - Units	Lab Lic. #
General Chemistry				
Hemoglobin A1C/Total Hemoglobin		4.7 Diabetes Canada 2018 Guidelines: --- Screening and Diagnosis: < 5.5 % Normal 5.5% - 5.9 % At risk 6.0% - 6.4 % Prediabetes >OR= 6.5 % Diabetes Mellitus If HbA1c >OR= 6.5 % and asymptomatic, confirm using Fasting Glucose, HbA1c or 75g OGTT. --- Monitoring: <OR= 7.0 % Target in adults without comorbidities. Other targets may be more appropriate in children, elderly and patients with comorbidities. --- Results may not accurately reflect mean blood glucose in patients with hemoglobin variants, disorders associated with abnormal erythrocyte turnover, severe renal and liver disorders.	<6.0	%
Thyroid Function				
Thyroxine Free [Free T4]		11	9-19	pmol/L
Pituitary Function				
Follicle Stimulating Hormone [FSH]		39.7 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		IU/L
Luteinizing Hormone [LH]		23.7 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		IU/L
Prolactin		7.5	5.0-27.0	ug/L
Reproductive and Gonadal				
Estradiol		<40 Test repeated and results confirmed. Estradiol adult female reference intervals --- Follicular: 77-921 pmol/L		pmol/L

Lab -5687: LifeLabs, 100 International Blvd., Toronto, Ontario.
Lab -5407: KENNEDY, 6560 Kennedy Road, Mississauga, Ontario.

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Test	Flag	Result	Reference Range - Units	Lab Lic. #
Reproductive and Gonadal				
		Mid-cycle: 139-2382 pmol/L Luteal: 77-1145 pmol/L Post-menopausal: <103 pmol/L NOTE: Fulvestrant has been shown to interfere with estradiol testing by this direct immunoassay. Results for patients taking this medication may be falsely elevated to a clinically-significant degree. Some steroidal aromatase inhibitors are structurally related to estradiol and may interfere with some direct immunoassays.		
				#5687
Dehydroepiandrosterone [DHEA-S]		1.8	< 6.7 umol/L	
Testosterone Free		7	<30 pmol/L Interpret free testosterone results with caution in presence of significant hypoalbuminemia. Test method: calculation (Vermeulen A. et al, J Clin Endocrinol Metab 84:3666-3672, 1999)	

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Lab No: **2021-ES1720631**

Reference #:

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Date of Service: Jun 21 2021 10:44

Reported on: Jun 21 2021 18:29

Ordered by: BERNSTEIN DR. S.K.

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Test	Flag	Result	Reference Range - Units		Lab Lic. #
Hematology					#5407
WBC	LO	**3.9**	4.0 - 11.0	x E9/L	
RBC		4.53	4.00 - 5.10	x E12/L	
Hemoglobin		135	120 - 160	g/L	
Hematocrit		0.413	0.350 - 0.450	L/L	
MCV		91	80 - 100	fL	
MCH		29.8	27.5 - 33.0	pg	
MCHC		327	305 - 360	g/L	
RDW		12.1	11.5 - 14.5	%	
Platelet Count		208	150 - 400	x E9/L	
Differential					
Neutrophils		2.2	2.0 - 7.5	x E9/L	
Lymphocytes		1.2	1.0 - 3.5	x E9/L	
Monocytes		0.4	0.2 - 1.0	x E9/L	
Eosinophils		0.2	0.0 - 0.5	x E9/L	
Basophils		0.0	0.0 - 0.2	x E9/L	
Immature Granulocytes		0.0	0.0 - 0.1	x E9/L	
Nucleated RBC		0		/100 WBC	
Morphology					
WBC Morphology		NORMAL			
RBC Morphology		NORMAL			
Platelet Morphology		NORMAL			
General Chemistry					
Glucose Fasting		5.1	3.6 - 6.0	mmol/L	
Sodium		142	135-145	mmol/L	
Potassium		4.3	3.5-5.2	mmol/L	
Creatinine		59	50-100	umol/L	
Glomerular Filtration Rate (eGFR)		104			

Normal eGFR is described as greater than or equal to 90 ml/min/1.73 m2.

For patients of African descent, the reported eGFR must be multiplied by 1.15.

Effective May 4 2015, eGFR is calculated using the CKD-EPI 2009 equation.

KDIGO 2012 guidelines highlight the importance of eGFR and urine albumin creatinine ratio (ACR) in screening, diagnosis and management of CKD.

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Test	Flag	Result	Reference Range - Units	Lab Lic. #
General Chemistry				
		Results for eGFR should be interpreted in concert with ACR.		
Calcium		2.36	2.15-2.60 mmol/L	
Phosphate		1.31	0.80-1.45 mmol/L	
Urate		369	150-390 umol/L	
		Female Reference Intervals (umol/L) >or= 13yrs 150-390 Postmenopausal 210-450		
Bilirubin Total		7	<20 umol/L	
Alkaline Phosphatase		88	35-120 U/L	
Alanine Aminotransferase	HI	**53**	<36 U/L	
Lipids				
Hours After Meal		12	Hours	
Triglyceride		0.76	mmol/L	
Cholesterol		4.07	mmol/L	
HDL Cholesterol		1.25	mmol/L	
		New formulation (24/Sep/2018): In some patients with abnormal liver function, the HDL-c result may be different due to the presence of lipoproteins with abnormal lipid distribution.		
Non HDL Cholesterol		2.82	mmol/L	
		Non HDL-Cholesterol is not affected by the fasting status of the patient.		
LDL Cholesterol		2.47	mmol/L	
		Consider the non HDL-C value as an alternate lipid target if monitoring treatment in intermediate or high risk patients.		
Cholesterol/HDL Cholesterol		3.3		
Lipid Target Values		Lipid Target Values should be based on patient 10 year CVD risk assessment. ! High or Intermediate CVD risk ----------!---------- Primary ! LDL-C < or = 2.0 mmol/L OR Tx target ! > or = 50% decrease in LDL-C ! Alternate ! Non HDL-C < or = 2.6 mmol/L OR Tx target ! ApoB < or = 0.8 g/L ----------!---------- ! Low CVD risk ----------!---------- Primary !> or = 50% decrease in LDL-C Tx target ! ----------		

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Test	Flag	Result	Reference Range - Units	Lab Lic. #
Thyroid Function				
Thyroid Stimulating Hormone [TSH]		2.41	0.32-4.00 mIU/L	
Serum Proteins				
C Reactive Protein	**HI**	**7.4**	<5.0 mg/L	

Test method: Roche Cobas CRP, suitable for cardiovascular disease assessment and detection of active inflammation.
CRP >=2.0 mg/L is a risk-enhancing factor for cardiovascular disease, as defined in the Guidelines of the American Heart Association and the American College of Cardiology (JACC 2019; 74: e177).

CRP results >=5.0 mg/L may be due to acute inflammation.

New method as of April 04, 2021. Results are equivalent and reference cutoff is unchanged.