

Waseem Chaudhry

250 Dundas St W

Tel: Fax:

Consultation Request

Date:	2025-10-20	Patient:	HAYATI, MEKAIL
Status:	Urgent	Address:	1408-20 Mississauga Valley Blvd Mississauga, ON, L5A 3S1
Service:	ENDOCRINOLOGY	Phone:	437-219-3943
Consultant:	LMC, Oakville	Work Phone:	437-219-3943
Phone:	905-337-0040	Cell Phone:	437-219-3943
Fax:	1-877-562-2778	Email:	mekailhayati128@gmail.com
Address:	3075 Hospital Gate, Suite 301 Oakville, ON L6M 1M1	Birthdate:	2004-03-02 (y/m/d)
		Sex:	M
		Health Card No.:	(ON) 1551313784 FM
		Appointment date:	
		Time:	
		Chart No.:	

Reason for consultation:

Pertinent Clinical Information:

Dear Colleague

Many thanks for seeing this patient who has presented with diabetes. Is under your care.
 I would appreciate your review and further assessment /management as indicated in this case .
 regards

Dr W Chaudhry(GP)

Current Medications:

CHOLECALCIFEROL (VITAMIN D3) 10,000 UNIT (250 MCG) TABLET 2 tabs twice a week Mitte:3 months Repeats:0

ACH-METFORMIN 500 MG TABLET 2 BID Mitte:3 months Repeats:0

Allergies:

No Known Drug Allergies

Referring Practitioner : Dr. Chaudhry, Waseem (046796)

MRP : Chaudhry, Waseem (046796)

Created by null

Requesting Physician : Dr. Chaudhry, Waseem (046796)

Signature:



Diabetes & Endocrinology

3075 Hospital Gate, Unit 301,
Oakville, ON L6M 1M1
P (905) 337-0040
F (905) 337-0044

28-Jul-2025

Dr. Waseem Chaudhry Fax: (905) 275-2297

Patient: Mekail Hayati
PHN: 1551 313 784FM

Birthdate: 02-Mar-2004

Problem History:

dyslipidemia

Past Medical History:

none

Past Surgical History:

none

Active Medications:

rosuvastatin calcium 5 mg Oral Tablet
1 Tablet(s) Once daily X 100 Day(s)
ramipril 2.5 mg Oral Tablet
2 Tablet(s) Once daily X 100 Day(s)
VITAMIN D3 10,000 UNIT CAPSULE
2 Capsule(s) Twice/Week X 100 Day(s)
metformin HCL 500 mg Oral Tablet
2 Tablet(s) Two times daily X 100 Day(s)

Lab Results

FPG:	2025-Mar-25	7.2 mmol/L	2024-Dec-23	6.4 mmol/L
A1C:	2025-Mar-25	7.5 %	2024-Dec-23	7.0 %
Cr:	2025-Mar-25	55 umol/L	2024-Dec-23	67 umol/L
EGFR:				
UACR:	2025-Mar-25	0.5 mg/mmol	2024-Dec-23	1.22 mg/mmol
TSH:	2025-Mar-25	1.03 mIU/L	2024-Dec-23	142 mIU/L
Na:	2025-Mar-25	140 mmol/L	2024-Dec-23	4.2 mmol/L
K:	2025-Mar-25	4.2 mmol/L	2024-Dec-23	62 U/L
ALT:	2025-Mar-25	51 U/L	2024-Dec-23	4.98 mmol/L
TC:	2025-Mar-25	4.29 mmol/L	2024-Dec-23	3.62 mmol/L
LDL:	2025-Mar-25	2.95 mmol/L	2024-Dec-23	0.79 mmol/L
HDL:	2025-Mar-25	0.72 mmol/L	2024-Dec-23	1.37 mmol/L
TG:	2025-Mar-25	1.50 mmol/L	2024-Dec-23	4.19 mmol/L
Non-HDL	2025-Mar-25	3.57 mmol/L		
CK:				
Vit B12:	2025-Mar-25	247 pmol/L	2024-Dec-23	247 pmol/L

Vital Signs

Height:	2025-Jul-28	192 cm	2025-Feb-10	192 cm
Weight:	2025-Jul-28	140.3 kg	2025-Feb-10	143.2 kg
BMI:	2025-Jul-28	38.1	2025-Feb-10	38.8
Systolic:	2025-Jul-28	129	2025-Feb-10	146
Diastolic:	2025-Jul-28	86	2025-Feb-10	98

Heart Rate: 2025-Jul-28 80 bpm2025-Feb-10 85 bpm

Dear Dr. Chaudhry,

I had the pleasure of seeing your patient, Mekail Hayati, who was seen and reviewed by our intake team including Dr. Deol and myself.

HPI

Diabetes Diagnosis: 2024 -- A1C 7% Dec 2024

She presented to follow up on DM2. Mother and relatives on mom's side have diabetes. Brother has diabetes as well (age 13 and on metformin).

He was started on Metformin 500mg PO BID in Jan 2025 and then optimized to metformin 1g PO BID in Apr 2025. He is tolerating well. He did not do any blood tests but reports that FBG are "5-7s" and pc meals are "<8s" no symptoms of hyper/hypoglycemia. He has made significant changes in lifestyle as well, exercises regularly and is doing intermittent fasting eating only 1 meal daily. His weight has reduced about 3kg, BMI 38.1

Current diet:

- B: green tea +/- 1 egg
- L: eats at 4pm: chicken; biryani; rice/meat/vegetables
- D: none
- Snacks: green tea +/- dried fruit

Activity pattern: 3 days/week outside or gym in his building doing various activities. Was a wrestler previously. Started ramipril and rosuvastatin 1m ago with FD.

Diabetes complications**Microvascular:**

Retinopathy: no dilated eye exam previously. Has had vision tested in 2025.

Cataracts: none

Glaucoma: none

Neuropathy: none

Microalbuminuria: not done

Proteinuria: not done

Nephropathy: none

Macrovascular:

No symptoms of ischemic heart disease. FD sent to cardiologist. Patient has had stress test which was normal.

Holter was done which was normal.

Cerebral vascular disease: none

Peripheral vascular disease: none

Physical Exam

Recently completed. Head and neck exam was normal.

Thyroid was palpable without nodularity.

Chest was clear to auscultation.

Cardiovascular examination showed normal heart sounds, regular rate and rhythm, no audible murmurs or bruits.

Peripheral fine touch sensation was intact to 10gm monofilament.

Feet were clear to inspection. Pedal pulses palpable.

Assessment and Plan

1. Glycemia: New onset DM. It is unclear what type of DM he has at this stage. It is likely type 2 DM but we should do insulin, c peptide and anti GAD. Patient agreeable and aware of anti GAD cost. Labs re-ordered again. He does not fit the typical MODY patient characteristics either.

- Continue metformin 2g PO QD
- SMBGS appear to be at target now, he will continue regular checks on glucometer
- We have also asked for updated A1C and will touch base in 2 weeks to review results
- We reinforced diet and exercise

2. Lipids: Patient started on statin in Jan 2025. Updated lipids requested.

3. BP/Renal: BP is at target. He informs us that GP increased ramipril to 5mg PO QD in Apr 2025. Continue same and will update eGFR and uACR.

Follow up: Appointment planned in 2 weeks

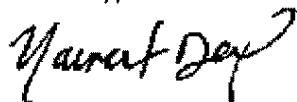
Thank you for allowing me to participate in Mekail Hayati's care.

Sincerely,

Anh Tran, BSc, CCPA, Physician Assistant for
Dr. Navreet Deol

I met your patient today with my Physician Assistant, Anh Tran. We have reviewed the findings together and I confirm the recommendations that she has provided above.

Sincerely,



Navreet Deol, MD FRCPC

Electronically Reviewed to Expedite Delivery

Detail Results: Patient Info				Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2025-03-25 16:39:00	
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2025-03-27 18:15	
Age:	21 years	Sex:	M	Report Status:	complete	
Health #:	1551313784	Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392	
				Accession #:	2025-K30849497	
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY				

HAEM1		Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Complete Blood Count									
WBC	9.6		4.0 - 11.0		x E9/L		2025-03-26 07:20:03	F	5407
RBC	5.85		4.50 - 6.00		x E12/L		2025-03-26 07:20:03	F	
Hemoglobin	156		135 - 175		g/L		2025-03-26 07:20:03	F	
Hematocrit	0.474		0.400 - 0.500		L/L		2025-03-26 07:20:03	F	
MCV	81		80 - 100		fL		2025-03-26 07:20:03	F	
MCH	26.7	L	27.5 - 33.0		pg		2025-03-26 07:20:03	F	
MCHC	329		305 - 360		g/L		2025-03-26 07:20:03	F	
RDW	12.7		11.5 - 14.5		%		2025-03-26 07:20:03	F	
Platelets	220		150 - 400		x E9/L		2025-03-26 07:20:03	F	
Neutrophils	5.4		2.0 - 7.5		x E9/L		2025-03-26 07:20:03	F	
Lymphocytes	3.0		1.0 - 3.5		x E9/L		2025-03-26 07:20:03	F	
Monocytes	0.7		0.2 - 1.0		x E9/L		2025-03-26 07:20:03	F	
Eosinophils	0.3		0.0 - 0.5		x E9/L		2025-03-26 07:20:03	F	
Basophils	0.1		0.0 - 0.2		x E9/L		2025-03-26 07:20:03	F	
Immature Granulocytes	0.1		0.0 - 0.1		x E9/L		2025-03-26 07:20:03	F	
Nucleated RBC	0				/100 WBC		2025-03-26 07:20:03	F	

CHEM1		Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Vitamin B12	247	>220	pmol/L		2025-03-26 09:24:11	F			
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency									
Ferritin	130		ug/L		2025-03-26 09:24:11	F			
In absence of concomitant inflammation, Ferritin levels can be interpreted as follows: 30-50 ug/L: Probable iron deficiency 51-100 ug/L: Possible iron deficiency, if risk factors are present 101-300 ug/L: Iron deficiency unlikely =>600 ug/L: Consider test for iron overload In patients with concomitant inflammation, use Iron Studies, including TIBC and Transferrin Saturation, to assess Iron Deficiency status.									
For guidance, see www.hemequity.com/raise-the-bar									

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Urinalysis Chemical							
Collection Date	25-MAR-2025				2025-03-26 04:17:20	F	
Collection Time	16:39				2025-03-26 04:17:20	F	
Appearance	TURBID		Clear		2025-03-26 04:17:20	F	
Colour	YELLOW		Yellow		2025-03-26 04:17:20	F	
Specific Gravity	1.025				2025-03-26 04:17:20	F	
pH	5.5		5.0 - 8.0		2025-03-26 04:17:20	F	
Protein	NEGATIVE		Negative	g/L	2025-03-26 04:17:20	F	
Glucose	14	H	Negative	mmol/L	2025-03-26 04:17:20	F	
Ketones	NEGATIVE		Negative	mmol/L	2025-03-26 04:17:20	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2025-03-26 04:17:20	F	
Nitrite	NEGATIVE		Negative		2025-03-26 04:17:20	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2025-03-26 04:17:20	F	
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2025-03-26 04:17:20	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Glucose Fasting	7.2	H	3.6 - 6.0	mmol/L	2025-03-26 08:07:07	F	
Fasting Glucose greater than or equal to 7.0 mmol/L after an 8 hr fast can be used as a provisional diagnosis of diabetes mellitus. If asymptomatic, a repeat confirmation test using Fasting Glucose, HbA1c, or 75g OGTT must be done.							
Sodium	140		135-145	mmol/L	2025-03-26 08:07:07	F	
Potassium	4.2		3.5-5.2	mmol/L	2025-03-26 08:07:07	F	
Calcium	2.34		2.15-2.60	mmol/L	2025-03-26 08:07:07	F	
Urate	222	L	230-480	umol/L	2025-03-26 08:07:07	F	
Alkaline Phosphatase	115		40-129	U/L	2025-03-26 08:07:07	F	
Alanine Aminotransferase	51	H	<50	U/L	2025-03-26 08:07:07	F	
Hemoglobin A1c							
Hemoglobin A1C/Total Hemoglobin	7.5	H	<6.0	%	2025-03-26 11:26:19	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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***							
***Regarding diagnosis: in the absence of symptomatic hyperglycemia, if a single laboratory test result is in the diabetes range, a repeat confirmatory laboratory test (FPG, A1C, 2hPG in a 75 g OGTT) must be done on another day for diagnosis confirmation.							
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.							

Creatinine/GFR

Creatinine	55	L	67-117	umol/L	2025-03-26 08:07:07	F
Glomerular Filtration Rate (eGFR)	>120		See below		2025-03-26 08:07:07	F

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Lipid Assessment

Hours After Meal	11			Hours	2025-03-26 08:07:07	F
Triglyceride	1.50			mmol/L	2025-03-26 08:07:07	F
FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L						
Cholesterol	4.29		<5.20	mmol/L	2025-03-26 08:07:07	F
Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.						
HDL Cholesterol	0.72	L	>=1.00	mmol/L	2025-03-26 08:07:07	F
HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.						
Non HDL Cholesterol	3.57		<4.20	mmol/L	2025-03-26 08:07:07	F
Non HDL-Cholesterol is not affected by the fasting status of the patient.						
LDL Cholesterol	2.95		<3.50	mmol/L	2025-03-26 08:07:07	F
LDL-C is calculated using the NIH equation.						
For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.						

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Cholesterol/HDL Cholesterol	6.0				2025-03-26 08:07:07	F	

Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0.

CHEM10

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Albumin Creatinine Ratio Urine Random							
5 Year KFRE	NOT APPLICABLE		< 5	%	2025-03-27 17:46:23	F	
			Results rule out CKD stage 3-5 and albuminuria. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.				
Albumin (Urine)	10			mg/L	2025-03-27 17:46:23	F	
			No reference interval has been established for this test.				
Creatinine (Urine)	18.6			mmol/L	2025-03-27 17:46:23	F	
			No reference interval has been established for this test.				
Albumin/Creatinine	0.5		< 3.0	mg/mmol	2025-03-27 17:46:23	F	

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Thyroid Stimulating Hormone (TSH)

Thyroid Stimulating Hormone	1.03		0.32-4.00	mIU/L	2025-03-26 09:24:11	F	
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CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
C Reactive Protein	5.1	H	<5.0	mg/L	2025-03-26 08:07:17	F	

Test method: Abbott Alinity 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.

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2025-03-25 16:39:00	
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2025-03-26 11:31	
Age:	21 years	Sex:	M	Report Status:	complete	
Health #:	1551313784	Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392	
				Accession #:	2025-K30849497	
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY				

HAEM1		Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Complete Blood Count									
WBC	9.6		4.0 - 11.0		x E9/L		2025-03-26 07:20:03	F	5407
RBC	5.85		4.50 - 6.00		x E12/L		2025-03-26 07:20:03	F	
Hemoglobin	156		135 - 175		g/L		2025-03-26 07:20:03	F	
Hematocrit	0.474		0.400 - 0.500		L/L		2025-03-26 07:20:03	F	
MCV	81		80 - 100		fL		2025-03-26 07:20:03	F	
MCH	26.7	L	27.5 - 33.0		pg		2025-03-26 07:20:03	F	
MCHC	329		305 - 360		g/L		2025-03-26 07:20:03	F	
RDW	12.7		11.5 - 14.5		%		2025-03-26 07:20:03	F	
Platelets	220		150 - 400		x E9/L		2025-03-26 07:20:03	F	
Neutrophils	5.4		2.0 - 7.5		x E9/L		2025-03-26 07:20:03	F	
Lymphocytes	3.0		1.0 - 3.5		x E9/L		2025-03-26 07:20:03	F	
Monocytes	0.7		0.2 - 1.0		x E9/L		2025-03-26 07:20:03	F	
Eosinophils	0.3		0.0 - 0.5		x E9/L		2025-03-26 07:20:03	F	
Basophils	0.1		0.0 - 0.2		x E9/L		2025-03-26 07:20:03	F	
Immature Granulocytes	0.1		0.0 - 0.1		x E9/L		2025-03-26 07:20:03	F	
Nucleated RBC	0				/100 WBC		2025-03-26 07:20:03	F	

CHEM1		Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Vitamin B12	247	>220	pmol/L		2025-03-26 09:24:11	F			
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency									
Ferritin	130		ug/L		2025-03-26 09:24:11	F			
In absence of concomitant inflammation, Ferritin levels can be interpreted as follows: 30-50 ug/L: Probable iron deficiency 51-100 ug/L: Possible iron deficiency, if risk factors are present 101-300 ug/L: Iron deficiency unlikely =>600 ug/L: Consider test for iron overload In patients with concomitant inflammation, use Iron Studies, including TIBC and Transferrin Saturation, to assess Iron Deficiency status.									
For guidance, see www.hemequity.com/raise-the-bar									

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Urinalysis Chemical							
Collection Date	25-MAR-2025				2025-03-26 04:17:20	F	
Collection Time	16:39				2025-03-26 04:17:20	F	
Appearance	TURBID		Clear		2025-03-26 04:17:20	F	
Colour	YELLOW		Yellow		2025-03-26 04:17:20	F	
Specific Gravity	1.025				2025-03-26 04:17:20	F	
pH	5.5		5.0 - 8.0		2025-03-26 04:17:20	F	
Protein	NEGATIVE		Negative	g/L	2025-03-26 04:17:20	F	
Glucose	14	H	Negative	mmol/L	2025-03-26 04:17:20	F	
Ketones	NEGATIVE		Negative	mmol/L	2025-03-26 04:17:20	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2025-03-26 04:17:20	F	
Nitrite	NEGATIVE		Negative		2025-03-26 04:17:20	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2025-03-26 04:17:20	F	
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2025-03-26 04:17:20	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Glucose Fasting	7.2	H	3.6 - 6.0	mmol/L	2025-03-26 08:07:07	F	
Fasting Glucose greater than or equal to 7.0 mmol/L after an 8 hr fast can be used as a provisional diagnosis of diabetes mellitus. If asymptomatic, a repeat confirmation test using Fasting Glucose, HbA1c, or 75g OGTT must be done.							
Sodium	140		135-145	mmol/L	2025-03-26 08:07:07	F	
Potassium	4.2		3.5-5.2	mmol/L	2025-03-26 08:07:07	F	
Calcium	2.34		2.15-2.60	mmol/L	2025-03-26 08:07:07	F	
Urate	222	L	230-480	umol/L	2025-03-26 08:07:07	F	
Alkaline Phosphatase	115		40-129	U/L	2025-03-26 08:07:07	F	
Alanine Aminotransferase	51	H	<50	U/L	2025-03-26 08:07:07	F	
Hemoglobin A1c							
Hemoglobin A1C/Total Hemoglobin	7.5	H	<6.0	%	2025-03-26 11:26:19	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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***							
***Regarding diagnosis: in the absence of symptomatic hyperglycemia, if a single laboratory test result is in the diabetes range, a repeat confirmatory laboratory test (FPG, A1C, 2hPG in a 75 g OGTT) must be done on another day for diagnosis confirmation.							
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.							

Creatinine/GFR

Creatinine	55	L	67-117	umol/L	2025-03-26 08:07:07	F
Glomerular Filtration Rate (eGFR)	>120		See below		2025-03-26 08:07:07	F

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Lipid Assessment

Hours After Meal	11		Hours	2025-03-26 08:07:07	F	
Triglyceride	1.50		mmol/L	2025-03-26 08:07:07	F	
FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L						
Cholesterol	4.29	<5.20	mmol/L	2025-03-26 08:07:07	F	
Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.						
HDL Cholesterol	0.72	L	>=1.00	mmol/L	2025-03-26 08:07:07	F
HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.						
Non HDL Cholesterol	3.57		<4.20	mmol/L	2025-03-26 08:07:07	F
Non HDL-Cholesterol is not affected by the fasting status of the patient.						
LDL Cholesterol	2.95		<3.50	mmol/L	2025-03-26 08:07:07	F
LDL-C is calculated using the NIH equation.						
For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.						

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Cholesterol/HDL Cholesterol	6.0				2025-03-26 08:07:07	F	

Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0.

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Thyroid Stimulating Hormone (TSH)							
Thyroid Stimulating Hormone	1.03		0.32-4.00	mIU/L	2025-03-26 09:24:11	F	

CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
C Reactive Protein	5.1	H	<5.0	mg/L	2025-03-26 08:07:17	F	

Test method: Abbott Alinity 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.

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2025-03-25 16:39:00	
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2025-03-26 09:31	
Age:	21 years	Sex:	M	Report Status:	complete	
Health #:	1551313784	Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392	
				Accession #:	2025-K30849497	
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY				

HAEM1		Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Complete Blood Count

WBC	9.6	4.0 - 11.0	x E9/L	2025-03-26 07:20:03	F	5407
RBC	5.85	4.50 - 6.00	x E12/L	2025-03-26 07:20:03	F	
Hemoglobin	156	135 - 175	g/L	2025-03-26 07:20:03	F	
Hematocrit	0.474	0.400 - 0.500	L/L	2025-03-26 07:20:03	F	
MCV	81	80 - 100	fL	2025-03-26 07:20:03	F	
MCH	26.7	27.5 - 33.0	pg	2025-03-26 07:20:03	F	
MCHC	329	305 - 360	g/L	2025-03-26 07:20:03	F	
RDW	12.7	11.5 - 14.5	%	2025-03-26 07:20:03	F	
Platelets	220	150 - 400	x E9/L	2025-03-26 07:20:03	F	
Neutrophils	5.4	2.0 - 7.5	x E9/L	2025-03-26 07:20:03	F	
Lymphocytes	3.0	1.0 - 3.5	x E9/L	2025-03-26 07:20:03	F	
Monocytes	0.7	0.2 - 1.0	x E9/L	2025-03-26 07:20:03	F	
Eosinophils	0.3	0.0 - 0.5	x E9/L	2025-03-26 07:20:03	F	
Basophils	0.1	0.0 - 0.2	x E9/L	2025-03-26 07:20:03	F	
Immature Granulocytes	0.1	0.0 - 0.1	x E9/L	2025-03-26 07:20:03	F	
Nucleated RBC	0		/100 WBC	2025-03-26 07:20:03	F	

CHEM1		Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Vitamin B12	247	>220	pmol/L	2025-03-26 09:24:11	F
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency					
Ferritin	130		ug/L	2025-03-26 09:24:11	F
In absence of concomitant inflammation, Ferritin levels can be interpreted as follows: 30-50 ug/L: Probable iron deficiency 51-100 ug/L: Possible iron deficiency, if risk factors are present 101-300 ug/L: Iron deficiency unlikely =>600 ug/L: Consider test for iron overload In patients with concomitant inflammation, use Iron Studies, including TIBC and Transferrin Saturation, to assess Iron Deficiency status.					
For guidance, see www.hemequity.com/raise-the-bar					

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Urinalysis Chemical							
Collection Date	25-MAR-2025				2025-03-26 04:17:20	F	
Collection Time	16:39				2025-03-26 04:17:20	F	
Appearance	TURBID		Clear		2025-03-26 04:17:20	F	
Colour	YELLOW		Yellow		2025-03-26 04:17:20	F	
Specific Gravity	1.025				2025-03-26 04:17:20	F	
pH	5.5		5.0 - 8.0		2025-03-26 04:17:20	F	
Protein	NEGATIVE		Negative	g/L	2025-03-26 04:17:20	F	
Glucose	14	H	Negative	mmol/L	2025-03-26 04:17:20	F	
Ketones	NEGATIVE		Negative	mmol/L	2025-03-26 04:17:20	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2025-03-26 04:17:20	F	
Nitrite	NEGATIVE		Negative		2025-03-26 04:17:20	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2025-03-26 04:17:20	F	
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2025-03-26 04:17:20	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Glucose Fasting	7.2	H	3.6 - 6.0	mmol/L	2025-03-26 08:07:07	F	
Fasting Glucose greater than or equal to 7.0 mmol/L after an 8 hr fast can be used as a provisional diagnosis of diabetes mellitus. If asymptomatic, a repeat confirmation test using Fasting Glucose, HbA1c, or 75g OGTT must be done.							
Sodium	140		135-145	mmol/L	2025-03-26 08:07:07	F	
Potassium	4.2		3.5-5.2	mmol/L	2025-03-26 08:07:07	F	
Calcium	2.34		2.15-2.60	mmol/L	2025-03-26 08:07:07	F	
Urate	222	L	230-480	umol/L	2025-03-26 08:07:07	F	
Alkaline Phosphatase	115		40-129	U/L	2025-03-26 08:07:07	F	
Alanine Aminotransferase	51	H	<50	U/L	2025-03-26 08:07:07	F	
Creatinine/GFR							
Creatinine	55	L	67-117	umol/L	2025-03-26 08:07:07	F	
Glomerular Filtration Rate (eGFR)	>120		See below		2025-03-26 08:07:07	F	

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	11			Hours	2025-03-26 08:07:07	F	

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Triglyceride	1.50			mmol/L	2025-03-26 08:07:07	F	
	FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L						
Cholesterol	4.29		<5.20	mmol/L	2025-03-26 08:07:07	F	
	Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.						
HDL Cholesterol	0.72	L	>=1.00	mmol/L	2025-03-26 08:07:07	F	
	HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.						
Non HDL Cholesterol	3.57		<4.20	mmol/L	2025-03-26 08:07:07	F	
	Non HDL-Cholesterol is not affected by the fasting status of the patient.						
LDL Cholesterol	2.95		<3.50	mmol/L	2025-03-26 08:07:07	F	
	LDL-C is calculated using the NIH equation.						
	For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.						
Cholesterol/HDL Cholesterol	6.0				2025-03-26 08:07:07	F	
	Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0						

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Thyroid Stimulating Hormone (TSH)

Thyroid Stimulating Hormone	1.03		0.32-4.00	mIU/L	2025-03-26 09:24:11	F	
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CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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C Reactive Protein

C Reactive Protein	5.1	H	<5.0	mg/L	2025-03-26 08:07:17	F	
Test method: Abbott Alinity 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.							

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2025-03-25 16:39:00	
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2025-03-26 08:15	
Age:	21 years	Sex:	M	Report Status:	complete	
Health #:	1551313784	Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392	
				Accession #:	2025-K30849497	
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY				

HAEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Complete Blood Count							
WBC	9.6		4.0 - 11.0	x E9/L	2025-03-26 07:20:03	F	5407
RBC	5.85		4.50 - 6.00	x E12/L	2025-03-26 07:20:03	F	
Hemoglobin	156		135 - 175	g/L	2025-03-26 07:20:03	F	
Hematocrit	0.474		0.400 - 0.500	L/L	2025-03-26 07:20:03	F	
MCV	81		80 - 100	fL	2025-03-26 07:20:03	F	
MCH	26.7	L	27.5 - 33.0	pg	2025-03-26 07:20:03	F	
MCHC	329		305 - 360	g/L	2025-03-26 07:20:03	F	
RDW	12.7		11.5 - 14.5	%	2025-03-26 07:20:03	F	
Platelets	220		150 - 400	x E9/L	2025-03-26 07:20:03	F	
Neutrophils	5.4		2.0 - 7.5	x E9/L	2025-03-26 07:20:03	F	
Lymphocytes	3.0		1.0 - 3.5	x E9/L	2025-03-26 07:20:03	F	
Monocytes	0.7		0.2 - 1.0	x E9/L	2025-03-26 07:20:03	F	
Eosinophils	0.3		0.0 - 0.5	x E9/L	2025-03-26 07:20:03	F	
Basophils	0.1		0.0 - 0.2	x E9/L	2025-03-26 07:20:03	F	
Immature Granulocytes	0.1		0.0 - 0.1	x E9/L	2025-03-26 07:20:03	F	
Nucleated RBC	0			/100 WBC	2025-03-26 07:20:03	F	

CHEM2							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Urinalysis Chemical							
Collection Date	25-MAR-2025				2025-03-26 04:17:20	F	
Collection Time	16:39				2025-03-26 04:17:20	F	
Appearance	TURBID		Clear		2025-03-26 04:17:20	F	
Colour	YELLOW		Yellow		2025-03-26 04:17:20	F	
Specific Gravity	1.025				2025-03-26 04:17:20	F	
pH	5.5		5.0 - 8.0		2025-03-26 04:17:20	F	
Protein	NEGATIVE		Negative	g/L	2025-03-26 04:17:20	F	
Glucose	14	H	Negative	mmol/L	2025-03-26 04:17:20	F	
Ketones	NEGATIVE		Negative	mmol/L	2025-03-26 04:17:20	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2025-03-26 04:17:20	F	
Nitrite	NEGATIVE		Negative		2025-03-26 04:17:20	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2025-03-26 04:17:20	F	

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2025-03-26 04:17:20	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Glucose Fasting	7.2	H	3.6 - 6.0	mmol/L	2025-03-26 08:07:07	F	
Fasting Glucose greater than or equal to 7.0 mmol/L after an 8 hr fast can be used as a provisional diagnosis of diabetes mellitus. If asymptomatic, a repeat confirmation test using Fasting Glucose, HbA1c, or 75g OGTT must be done.							
Sodium	140		135-145	mmol/L	2025-03-26 08:07:07	F	
Potassium	4.2		3.5-5.2	mmol/L	2025-03-26 08:07:07	F	
Calcium	2.34		2.15-2.60	mmol/L	2025-03-26 08:07:07	F	
Urate	222	L	230-480	umol/L	2025-03-26 08:07:07	F	
Alkaline Phosphatase	115		40-129	U/L	2025-03-26 08:07:07	F	
Alanine Aminotransferase	51	H	<50	U/L	2025-03-26 08:07:07	F	
Creatinine/GFR							
Creatinine	55	L	67-117	umol/L	2025-03-26 08:07:07	F	
Glomerular Filtration Rate (eGFR)	>120		See below		2025-03-26 08:07:07	F	
Reference interval: =>60 mL/min/1.73m ² eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.							

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	11			Hours	2025-03-26 08:07:07	F	
Triglyceride	1.50			mmol/L	2025-03-26 08:07:07	F	
			FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L				
Cholesterol	4.29		<5.20	mmol/L	2025-03-26 08:07:07	F	
			Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.				
HDL Cholesterol	0.72	L	>=1.00	mmol/L	2025-03-26 08:07:07	F	
			HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.				
Non HDL Cholesterol	3.57		<4.20	mmol/L	2025-03-26 08:07:07	F	
			Non HDL-Cholesterol is not affected by the fasting status of the patient.				
LDL Cholesterol	2.95		<3.50	mmol/L	2025-03-26 08:07:07	F	

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
LDL-C is calculated using the NIH equation.							
For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.							
Cholesterol/HDL Cholesterol	6.0				2025-03-26 08:07:07	F	

CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
C Reactive Protein	5.1	H	<5.0	mg/L	2025-03-26 08:07:17	F	
Test method: Abbott Alinity 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.

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:				Date of Service: 2025-03-25 16:39:00
Date of Birth:	2004-03-02	Work Phone:				Date Received: 2025-03-26 07:31
Age:	21 years	Sex:	M			
Health #:	1551313784	Patient Location:	LIFELABS ONTARIO			
Requesting Client: WASEEM CHAUDHRY				cc: Client: WASEEM CHAUDHRY		

HAEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Complete Blood Count							
WBC	9.6		4.0 - 11.0	x E9/L	2025-03-26 07:20:03	F	5407
RBC	5.85		4.50 - 6.00	x E12/L	2025-03-26 07:20:03	F	
Hemoglobin	156		135 - 175	g/L	2025-03-26 07:20:03	F	
Hematocrit	0.474		0.400 - 0.500	L/L	2025-03-26 07:20:03	F	
MCV	81		80 - 100	fL	2025-03-26 07:20:03	F	
MCH	26.7	L	27.5 - 33.0	pg	2025-03-26 07:20:03	F	
MCHC	329		305 - 360	g/L	2025-03-26 07:20:03	F	
RDW	12.7		11.5 - 14.5	%	2025-03-26 07:20:03	F	
Platelets	220		150 - 400	x E9/L	2025-03-26 07:20:03	F	
Neutrophils	5.4		2.0 - 7.5	x E9/L	2025-03-26 07:20:03	F	
Lymphocytes	3.0		1.0 - 3.5	x E9/L	2025-03-26 07:20:03	F	
Monocytes	0.7		0.2 - 1.0	x E9/L	2025-03-26 07:20:03	F	
Eosinophils	0.3		0.0 - 0.5	x E9/L	2025-03-26 07:20:03	F	
Basophils	0.1		0.0 - 0.2	x E9/L	2025-03-26 07:20:03	F	
Immature Granulocytes	0.1		0.0 - 0.1	x E9/L	2025-03-26 07:20:03	F	
Nucleated RBC	0			/100 WBC	2025-03-26 07:20:03	F	

CHEM2							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Urinalysis Chemical							
Collection Date	25-MAR-2025				2025-03-26 04:17:20	F	
Collection Time	16:39				2025-03-26 04:17:20	F	
Appearance	TURBID		Clear		2025-03-26 04:17:20	F	
Colour	YELLOW		Yellow		2025-03-26 04:17:20	F	
Specific Gravity	1.025				2025-03-26 04:17:20	F	
pH	5.5		5.0 - 8.0		2025-03-26 04:17:20	F	
Protein	NEGATIVE		Negative	g/L	2025-03-26 04:17:20	F	
Glucose	14	H	Negative	mmol/L	2025-03-26 04:17:20	F	
Ketones	NEGATIVE		Negative	mmol/L	2025-03-26 04:17:20	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2025-03-26 04:17:20	F	
Nitrite	NEGATIVE		Negative		2025-03-26 04:17:20	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2025-03-26 04:17:20	F	

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2025-03-26 04:17:20	F	

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info	
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2025-03-25 16:39:00
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2025-03-26 07:03
Age:	21 years	Sex:	M	Report Status:	complete
Health #:	1551313784	Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392
				Accession #:	2025-K30849497
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY			

CHEM2							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Urinalysis Chemical

Collection Date	25-MAR-2025			2025-03-26 04:17:20	F	5407	
Collection Time	16:39			2025-03-26 04:17:20	F		
Appearance	TURBID	Clear		2025-03-26 04:17:20	F		
Colour	YELLOW	Yellow		2025-03-26 04:17:20	F		
Specific Gravity	1.025			2025-03-26 04:17:20	F		
pH	5.5	5.0 - 8.0		2025-03-26 04:17:20	F		
Protein	NEGATIVE	Negative	g/L	2025-03-26 04:17:20	F		
Glucose	14	H	Negative	mmol/L	2025-03-26 04:17:20	F	
Ketones	NEGATIVE	Negative	mmol/L	2025-03-26 04:17:20	F		
Erythrocytes	NEGATIVE	Negative	RBC/uL	2025-03-26 04:17:20	F		
Nitrite	NEGATIVE	Negative		2025-03-26 04:17:20	F		
Leukocyte Esterase	NEGATIVE	Negative	WBC/uL	2025-03-26 04:17:20	F		
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.			2025-03-26 04:17:20	F		

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:				Date of Service: 2024-12-23 11:40:00
Date of Birth:	2004-03-02	Work Phone:				Date Received: 2024-12-24 07:01
Age:	20 years	Sex:	M			
Health #:	1551313784	Patient Location:	LIFELABS ONTARIO			
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY				

HAEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Complete Blood Count							
WBC	8.3		4.0 - 11.0	x E9/L	2024-12-24 03:02:29	F	5407
RBC	5.78		4.50 - 6.00	x E12/L	2024-12-24 03:02:29	F	
Hemoglobin	158		135 - 175	g/L	2024-12-24 03:02:29	F	
Hematocrit	0.470		0.400 - 0.500	L/L	2024-12-24 03:02:29	F	
MCV	81		80 - 100	fL	2024-12-24 03:02:29	F	
MCH	27.3	L	27.5 - 33.0	pg	2024-12-24 03:02:29	F	
MCHC	336		305 - 360	g/L	2024-12-24 03:02:29	F	
RDW	12.8		11.5 - 14.5	%	2024-12-24 03:02:29	F	
Platelets	226		150 - 400	x E9/L	2024-12-24 03:02:29	F	
Neutrophils	4.7		2.0 - 7.5	x E9/L	2024-12-24 03:02:29	F	
Lymphocytes	2.6		1.0 - 3.5	x E9/L	2024-12-24 03:02:29	F	
Monocytes	0.7		0.2 - 1.0	x E9/L	2024-12-24 03:02:29	F	
Eosinophils	0.3		0.0 - 0.5	x E9/L	2024-12-24 03:02:29	F	
Basophils	0.1		0.0 - 0.2	x E9/L	2024-12-24 03:02:29	F	
Immature Granulocytes	0.1		0.0 - 0.1	x E9/L	2024-12-24 03:02:29	F	
Nucleated RBC	0			/100 WBC	2024-12-24 03:02:29	F	

CHEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Vitamin B12	247		>220	pmol/L	2024-12-24 04:42:07	F	
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency							
Ferritin	152			ug/L	2024-12-24 04:42:17	F	

CHEM1

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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In absence of concomitant inflammation, Ferritin levels can be interpreted as follows:

30-50 ug/L: Probable iron deficiency
 51-100 ug/L: Possible iron deficiency, if risk factors are present
 101-300 ug/L: Iron deficiency unlikely
 =>600 ug/L: Consider test for iron overload

In patients with concomitant inflammation, use Iron Studies, including TIBC and Transferrin Saturation, to assess Iron Deficiency status.

For guidance, see www.hemequity.com/raise-the-bar

Effective Sept 9, 2024, Clinical cut-offs will replace reference intervals for test interpretation.

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Urinalysis Chemical

Collection Date	23-DEC-2024			2024-12-24 03:55:35	F
Collection Time	11:40			2024-12-24 03:55:35	F
Appearance	TURBID	Clear		2024-12-24 03:55:35	F
Colour	DARK YELLOW	Yellow		2024-12-24 03:55:35	F
Specific Gravity	>=1.030			2024-12-24 03:55:35	F
pH	5.5	5.0 - 8.0		2024-12-24 03:55:35	F
Protein	NEGATIVE	Negative	g/L	2024-12-24 03:55:35	F
Glucose	NEGATIVE	Negative	mmol/L	2024-12-24 03:55:35	F
Ketones	NEGATIVE	Negative	mmol/L	2024-12-24 03:55:35	F
Erythrocytes	NEGATIVE	Negative	RBC/uL	2024-12-24 03:55:35	F
Nitrite	NEGATIVE	Negative		2024-12-24 03:55:35	F
Leukocyte Esterase	NEGATIVE	Negative	WBC/uL	2024-12-24 03:55:35	F
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.			2024-12-24 03:55:35	F

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Glucose Fasting	6.4	H	3.6 - 6.0	mmol/L	2024-12-24 04:31:07	F
Fasting Glucose from 6.1 - 6.9 mmol/L indicates prediabetes.						
Sodium	142		135-145	mmol/L	2024-12-24 04:21:06	F
Potassium	4.2		3.5-5.2	mmol/L	2024-12-24 04:21:06	F
Calcium	2.40		2.15-2.60	mmol/L	2024-12-24 04:21:06	F
Urate	275		230-480	umol/L	2024-12-24 04:21:06	F
Alkaline Phosphatase	114		40-129	U/L	2024-12-24 04:21:06	F

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Alanine Aminotransferase	62	H	<50	U/L	2024-12-24 04:21:06	F	
Hemoglobin A1c							
Hemoglobin A1C/Total Hemoglobin	7.0	H	<6.0	%	2024-12-24 04:09:35	F	
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***							
***Regarding diagnosis: in the absence of symptomatic hyperglycemia, if a single laboratory test result is in the diabetes range, a repeat confirmatory laboratory test (FPG, A1C, 2hPG in a 75 g OGTT) must be done on another day for diagnosis confirmation.							
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.							

Creatinine/GFR

Creatinine	67	67-117	umol/L	2024-12-24 04:21:06	F
Glomerular Filtration Rate (eGFR)	>120	See below		2024-12-24 04:21:06	F
Results rule out CKD stage 3-5. Assessment of urine ACR is required to definitively rule out or confirm CKD diagnosis. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.					
Reference interval: =>60 mL/min/1.73m ² eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.					

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	12			Hours	2024-12-24 04:21:06	F	
Triglyceride	1.37			mmol/L	2024-12-24 04:21:06	F	
FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L							
Cholesterol	4.98		<5.20	mmol/L	2024-12-24 04:21:06	F	
Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.							
HDL Cholesterol	0.79	L	>=1.00	mmol/L	2024-12-24 04:21:06	F	

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.							
Non HDL Cholesterol	4.19		<4.20	mmol/L	2024-12-24 04:21:06	F	
Non HDL-Cholesterol is not affected by the fasting status of the patient.							
LDL Cholesterol	3.62	H	<3.50	mmol/L	2024-12-24 04:21:06	F	
If LDL-C >=3.50 mmol/L in primary prevention setting for low risk patients (FRS 5-9.9%) or intermediate risk patients (FRS 10-20%), consider therapy. Therapy also suggested in low risk patients (FRS <10%) with LDL-C >4.99 mmol/L. LDL-C is calculated using the NIH equation.							
For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.							
Cholesterol/HDL Cholesterol	6.3	H			2024-12-24 04:21:06	F	
Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0 Cholesterol/HDL-C is an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0							

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Thyroid Stimulating Hormone (TSH)

Thyroid Stimulating Hormone	1.22		0.32-4.00	mIU/L	2024-12-24 04:42:07	F	
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CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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C Reactive Protein

C Reactive Protein	6.7	H	<5.0	mg/L	2024-12-24 04:21:06	F	
Test method: Abbott Alinity 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.							

CHEM28

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Vitamin D-25 Hydroxy

25-Hydroxy Vitamin D	20.4	L	75.0 - 250.0	nmol/L	2024-12-24 04:33:07	F	
Vit D Severe Deficiency: <25.0							

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info		
Patient Name: NEKAIL HAYATI	Home Phone:			Date of Service:	2024-05-22 12:16:00	
Date of Birth: 2004-03-02	Work Phone:			Date Received:	2024-05-23 13:55	
Age: 20 years	Sex:	M		Report Status:	complete	
Health #:	Patient Location:	LIFELABS ONTARIO		Client Ref. #:	124392	
				Accession #:	2024-K27435912	
Requesting Client: WASEEM CHAUDHRY	cc: Client:	WASEEM CHAUDHRY				

CHEM28							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Vitamin D-25 Hydroxy							
25-Hydroxy Vitamin D	28.1	L	75.0 - 250.0	nmol/L	2024-05-23 13:43:54	F	5407

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info			
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2024-05-22 12:16:00		
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2024-05-23 05:55		
Age:	20 years	Sex:	M	Report Status:	complete		
Health #:		Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392		
				Accession #:	2024-K27435866		
				Reference #:	130919838		
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY					

HAEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Complete Blood Count							
WBC	8.3		4.0 - 11.0	x E9/L	2024-05-23 02:29:59	F	5407
RBC	5.77		4.50 - 6.00	x E12/L	2024-05-23 02:29:59	F	
Hemoglobin	154		135 - 175	g/L	2024-05-23 02:29:59	F	
Hematocrit	0.467		0.400 - 0.500	L/L	2024-05-23 02:29:59	F	
MCV	81		80 - 100	fL	2024-05-23 02:29:59	F	
MCH	26.7	L	27.5 - 33.0	pg	2024-05-23 02:29:59	F	
MCHC	330		305 - 360	g/L	2024-05-23 02:29:59	F	
RDW	12.9		11.5 - 14.5	%	2024-05-23 02:29:59	F	
Platelets	225		150 - 400	x E9/L	2024-05-23 02:29:59	F	
Neutrophils	4.3		2.0 - 7.5	x E9/L	2024-05-23 02:29:59	F	
Lymphocytes	2.9		1.0 - 3.5	x E9/L	2024-05-23 02:29:59	F	
Monocytes	0.7		0.2 - 1.0	x E9/L	2024-05-23 02:29:59	F	
Eosinophils	0.4		0.0 - 0.5	x E9/L	2024-05-23 02:29:59	F	
Basophils	0.0		0.0 - 0.2	x E9/L	2024-05-23 02:29:59	F	
Immature Granulocytes	0.0		0.0 - 0.1	x E9/L	2024-05-23 02:29:59	F	
Nucleated RBC	0		/100 WBC		2024-05-23 02:29:59	F	

CHEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Vitamin B12	195		138-652	pmol/L	2024-05-23 00:39:08	F	
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency							
Ferritin	95		15-275	ug/L	2024-05-23 00:48:02	F	
<15 ug/L: diagnostic of iron deficiency 15-30 ug/L: probable iron deficiency >30 ug/L: iron deficiency unlikely >100 ug/L: normal iron stores =>600 ug/L: consider test for iron overload							

CHEM2							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Urinalysis Chemical

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Collection Date	22-MAY-2024				2024-05-23 01:01:55	F	
Collection Time	12:16				2024-05-23 01:01:55	F	
Appearance	TURBID		Clear		2024-05-23 01:01:55	F	
Colour	DARK YELLOW		Yellow		2024-05-23 01:01:55	F	
Specific Gravity	>=1.030				2024-05-23 01:01:55	F	
pH	5.5		5.0 - 8.0		2024-05-23 01:01:55	F	
Protein	NEGATIVE		Negative	g/L	2024-05-23 01:01:55	F	
Glucose	NEGATIVE		Negative	mmol/L	2024-05-23 01:01:55	F	
Ketones	NEGATIVE		Negative	mmol/L	2024-05-23 01:01:55	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2024-05-23 01:01:55	F	
Nitrite	NEGATIVE		Negative		2024-05-23 01:01:55	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2024-05-23 01:01:55	F	
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2024-05-23 01:01:55	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Glucose Fasting	5.6		3.6 - 6.0	mmol/L	2024-05-23 02:59:25	F	
Sodium	142		135-145	mmol/L	2024-05-23 00:47:11	F	
Potassium	4.3		3.5-5.2	mmol/L	2024-05-23 00:47:11	F	
Calcium	2.48		2.15-2.60	mmol/L	2024-05-23 00:47:11	F	
Urate	301		230-480	umol/L	2024-05-23 00:47:11	F	
Alkaline Phosphatase	110		40-129	U/L	2024-05-23 00:47:11	F	
Alanine Aminotransferase	28		<50	U/L	2024-05-23 00:47:11	F	
Hemoglobin A1c							
Hemoglobin A1C/Total Hemoglobin	6.7	H	<6.0	%	2024-05-23 05:44:32	F	

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***

***Regarding diagnosis: in the absence of symptomatic hyperglycemia, if a single laboratory test result is in the diabetes range, a repeat confirmatory laboratory test (FPG, A1C, 2hPG in a 75 g OGTT) must be done on another day for diagnosis confirmation.

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.

Creatinine/GFR

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Creatinine	72		67-117	umol/L	2024-05-23 00:47:11	F	
Glomerular Filtration Rate (eGFR)	>120		See below		2024-05-23 00:47:11	F	
<p>Results rule out CKD stage 3-5. Assessment of urine ACR is required to definitively rule out or confirm CKD diagnosis. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.</p> <p>Reference interval: =>60 mL/min/1.73m²</p> <p>eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.</p> <p>Effective 22/APR/2024, the new CKD-EPI 2021 equation replaced the CKD-EPI 2009 equation. Comparison using LifeLabs patient population data suggests no significant change for eGFR >60 mL/min/1.73m², and an average increase of 6% for eGFR =<60 mL/min/1.73m². Individual eGFR results may vary between -3% and +10%.</p>							

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	12			Hours	2024-05-23 00:39:08	F	
Triglyceride	1.12			mmol/L	2024-05-23 00:47:11	F	
<p>FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L</p>							
Cholesterol	3.84		<5.20	mmol/L	2024-05-23 00:47:11	F	
<p>Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.</p>							
HDL Cholesterol	0.80	L	>=1.00	mmol/L	2024-05-23 00:47:11	F	
<p>HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.</p>							
Non HDL Cholesterol	3.04		<4.20	mmol/L	2024-05-23 00:47:11	F	
<p>Non HDL-Cholesterol is not affected by the fasting status of the patient.</p>							
LDL Cholesterol	2.56		<3.50	mmol/L	2024-05-23 00:47:11	F	
<p>LDL-C is calculated using the NIH equation.</p> <p>For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.</p>							
Cholesterol/HDL Cholesterol	4.8				2024-05-23 00:47:11	F	
<p>Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0.</p>							

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Thyroid Stimulating Hormone (TSH)

Thyroid Stimulating Hormone	1.16	0.32-4.00	mIU/L	2024-05-23 00:47:21	F
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CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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C Reactive Protein	3.8	<5.0	mg/L	2024-05-23 00:47:11	F
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Test method: Abbott Alinity 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).

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info			
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2024-05-22 12:16:00		
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2024-05-23 03:10		
Age:	20 years	Sex:	M	Report Status:	complete		
Health #:		Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392		
				Accession #:	2024-K27435866		
				Reference #:	130919838		
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY					

HAEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Complete Blood Count							
WBC	8.3		4.0 - 11.0	x E9/L	2024-05-23 02:29:59	F	5407
RBC	5.77		4.50 - 6.00	x E12/L	2024-05-23 02:29:59	F	
Hemoglobin	154		135 - 175	g/L	2024-05-23 02:29:59	F	
Hematocrit	0.467		0.400 - 0.500	L/L	2024-05-23 02:29:59	F	
MCV	81		80 - 100	fL	2024-05-23 02:29:59	F	
MCH	26.7	L	27.5 - 33.0	pg	2024-05-23 02:29:59	F	
MCHC	330		305 - 360	g/L	2024-05-23 02:29:59	F	
RDW	12.9		11.5 - 14.5	%	2024-05-23 02:29:59	F	
Platelets	225		150 - 400	x E9/L	2024-05-23 02:29:59	F	
Neutrophils	4.3		2.0 - 7.5	x E9/L	2024-05-23 02:29:59	F	
Lymphocytes	2.9		1.0 - 3.5	x E9/L	2024-05-23 02:29:59	F	
Monocytes	0.7		0.2 - 1.0	x E9/L	2024-05-23 02:29:59	F	
Eosinophils	0.4		0.0 - 0.5	x E9/L	2024-05-23 02:29:59	F	
Basophils	0.0		0.0 - 0.2	x E9/L	2024-05-23 02:29:59	F	
Immature Granulocytes	0.0		0.0 - 0.1	x E9/L	2024-05-23 02:29:59	F	
Nucleated RBC	0		/100 WBC		2024-05-23 02:29:59	F	

CHEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Vitamin B12	195		138-652	pmol/L	2024-05-23 00:39:08	F	
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency							
Ferritin	95		15-275	ug/L	2024-05-23 00:48:02	F	
<15 ug/L: diagnostic of iron deficiency 15-30 ug/L: probable iron deficiency >30 ug/L: iron deficiency unlikely >100 ug/L: normal iron stores =>600 ug/L: consider test for iron overload							

CHEM2							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Urinalysis Chemical

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Collection Date	22-MAY-2024				2024-05-23 01:01:55	F	
Collection Time	12:16				2024-05-23 01:01:55	F	
Appearance	TURBID		Clear		2024-05-23 01:01:55	F	
Colour	DARK YELLOW		Yellow		2024-05-23 01:01:55	F	
Specific Gravity	>=1.030				2024-05-23 01:01:55	F	
pH	5.5		5.0 - 8.0		2024-05-23 01:01:55	F	
Protein	NEGATIVE		Negative	g/L	2024-05-23 01:01:55	F	
Glucose	NEGATIVE		Negative	mmol/L	2024-05-23 01:01:55	F	
Ketones	NEGATIVE		Negative	mmol/L	2024-05-23 01:01:55	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2024-05-23 01:01:55	F	
Nitrite	NEGATIVE		Negative		2024-05-23 01:01:55	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2024-05-23 01:01:55	F	
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2024-05-23 01:01:55	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Glucose Fasting	5.6		3.6 - 6.0	mmol/L	2024-05-23 02:59:25	F	
Sodium	142		135-145	mmol/L	2024-05-23 00:47:11	F	
Potassium	4.3		3.5-5.2	mmol/L	2024-05-23 00:47:11	F	
Calcium	2.48		2.15-2.60	mmol/L	2024-05-23 00:47:11	F	
Urate	301		230-480	umol/L	2024-05-23 00:47:11	F	
Alkaline Phosphatase	110		40-129	U/L	2024-05-23 00:47:11	F	
Alanine Aminotransferase	28		<50	U/L	2024-05-23 00:47:11	F	
Creatinine/GFR							
Creatinine	72		67-117	umol/L	2024-05-23 00:47:11	F	
Glomerular Filtration Rate (eGFR)	>120		See below		2024-05-23 00:47:11	F	

Results rule out CKD stage 3-5. Assessment of urine ACR is required to definitively rule out or confirm CKD diagnosis. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

Effective 22/APR/2024, the new CKD-EPI 2021 equation replaced the CKD-EPI 2009 equation. Comparison using LifeLabs patient population data suggests no significant change for eGFR >60 mL/min/1.73m², and an average increase of 6% for eGFR =<60 mL/min/1.73m². Individual eGFR results may vary between -3% and +10%.

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	12			Hours	2024-05-23 00:39:08	F	
Triglyceride	1.12			mmol/L	2024-05-23 00:47:11	F	
	FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L						
Cholesterol	3.84		<5.20	mmol/L	2024-05-23 00:47:11	F	
	Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.						
HDL Cholesterol	0.80	L	>=1.00	mmol/L	2024-05-23 00:47:11	F	
	HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.						
Non HDL Cholesterol	3.04		<4.20	mmol/L	2024-05-23 00:47:11	F	
	Non HDL-Cholesterol is not affected by the fasting status of the patient.						
LDL Cholesterol	2.56		<3.50	mmol/L	2024-05-23 00:47:11	F	
	LDL-C is calculated using the NIH equation.						
	For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.						
Cholesterol/HDL Cholesterol	4.8				2024-05-23 00:47:11	F	
	Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0						

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Thyroid Stimulating Hormone (TSH)							
Thyroid Stimulating Hormone	1.16		0.32-4.00	mIU/L	2024-05-23 00:47:21	F	

CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
C Reactive Protein	3.8		<5.0	mg/L	2024-05-23 00:47:11	F	

Test method: Abbott Alinity 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).

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info			
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2024-05-22 12:16:00		
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2024-05-23 02:35		
Age:	20 years	Sex:	M	Report Status:	complete		
Health #:		Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392		
				Accession #:	2024-K27435866		
				Reference #:	130919838		
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY					

HAEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Complete Blood Count							
WBC	8.3		4.0 - 11.0	x E9/L	2024-05-23 02:29:59	F	5407
RBC	5.77		4.50 - 6.00	x E12/L	2024-05-23 02:29:59	F	
Hemoglobin	154		135 - 175	g/L	2024-05-23 02:29:59	F	
Hematocrit	0.467		0.400 - 0.500	L/L	2024-05-23 02:29:59	F	
MCV	81		80 - 100	fL	2024-05-23 02:29:59	F	
MCH	26.7	L	27.5 - 33.0	pg	2024-05-23 02:29:59	F	
MCHC	330		305 - 360	g/L	2024-05-23 02:29:59	F	
RDW	12.9		11.5 - 14.5	%	2024-05-23 02:29:59	F	
Platelets	225		150 - 400	x E9/L	2024-05-23 02:29:59	F	
Neutrophils	4.3		2.0 - 7.5	x E9/L	2024-05-23 02:29:59	F	
Lymphocytes	2.9		1.0 - 3.5	x E9/L	2024-05-23 02:29:59	F	
Monocytes	0.7		0.2 - 1.0	x E9/L	2024-05-23 02:29:59	F	
Eosinophils	0.4		0.0 - 0.5	x E9/L	2024-05-23 02:29:59	F	
Basophils	0.0		0.0 - 0.2	x E9/L	2024-05-23 02:29:59	F	
Immature Granulocytes	0.0		0.0 - 0.1	x E9/L	2024-05-23 02:29:59	F	
Nucleated RBC	0		/100 WBC		2024-05-23 02:29:59	F	

CHEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Vitamin B12	195		138-652	pmol/L	2024-05-23 00:39:08	F	
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency							
Ferritin	95		15-275	ug/L	2024-05-23 00:48:02	F	
<15 ug/L: diagnostic of iron deficiency 15-30 ug/L: probable iron deficiency >30 ug/L: iron deficiency unlikely >100 ug/L: normal iron stores =>600 ug/L: consider test for iron overload							

CHEM2							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Urinalysis Chemical

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Collection Date	22-MAY-2024				2024-05-23 01:01:55	F	
Collection Time	12:16				2024-05-23 01:01:55	F	
Appearance	TURBID		Clear		2024-05-23 01:01:55	F	
Colour	DARK YELLOW		Yellow		2024-05-23 01:01:55	F	
Specific Gravity	>=1.030				2024-05-23 01:01:55	F	
pH	5.5		5.0 - 8.0		2024-05-23 01:01:55	F	
Protein	NEGATIVE		Negative	g/L	2024-05-23 01:01:55	F	
Glucose	NEGATIVE		Negative	mmol/L	2024-05-23 01:01:55	F	
Ketones	NEGATIVE		Negative	mmol/L	2024-05-23 01:01:55	F	
Erythrocytes	NEGATIVE		Negative	RBC/uL	2024-05-23 01:01:55	F	
Nitrite	NEGATIVE		Negative		2024-05-23 01:01:55	F	
Leukocyte Esterase	NEGATIVE		Negative	WBC/uL	2024-05-23 01:01:55	F	
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2024-05-23 01:01:55	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Sodium	142		135-145	mmol/L	2024-05-23 00:47:11	F	
Potassium	4.3		3.5-5.2	mmol/L	2024-05-23 00:47:11	F	
Calcium	2.48		2.15-2.60	mmol/L	2024-05-23 00:47:11	F	
Urate	301		230-480	umol/L	2024-05-23 00:47:11	F	
Alkaline Phosphatase	110		40-129	U/L	2024-05-23 00:47:11	F	
Alanine Aminotransferase	28		<50	U/L	2024-05-23 00:47:11	F	
Creatinine/GFR							
Creatinine	72		67-117	umol/L	2024-05-23 00:47:11	F	
Glomerular Filtration Rate (eGFR)	>120		See below		2024-05-23 00:47:11	F	

Results rule out CKD stage 3-5. Assessment of urine ACR is required to definitively rule out or confirm CKD diagnosis. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

Effective 22/APR/2024, the new CKD-EPI 2021 equation replaced the CKD-EPI 2009 equation. Comparison using LifeLabs patient population data suggests no significant change for eGFR >60 mL/min/1.73m², and an average increase of 6% for eGFR =<60 mL/min/1.73m². Individual eGFR results may vary between -3% and +10%.

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	12			Hours	2024-05-23 00:39:08	F	
Triglyceride	1.12			mmol/L	2024-05-23 00:47:11	F	
	FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L						
Cholesterol	3.84		<5.20	mmol/L	2024-05-23 00:47:11	F	
	Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.						
HDL Cholesterol	0.80	L	>=1.00	mmol/L	2024-05-23 00:47:11	F	
	HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.						
Non HDL Cholesterol	3.04		<4.20	mmol/L	2024-05-23 00:47:11	F	
	Non HDL-Cholesterol is not affected by the fasting status of the patient.						
LDL Cholesterol	2.56		<3.50	mmol/L	2024-05-23 00:47:11	F	
	LDL-C is calculated using the NIH equation.						
	For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.						
Cholesterol/HDL Cholesterol	4.8				2024-05-23 00:47:11	F	
	Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0						

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Thyroid Stimulating Hormone (TSH)							
Thyroid Stimulating Hormone	1.16		0.32-4.00	mIU/L	2024-05-23 00:47:21	F	

CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
C Reactive Protein	3.8		<5.0	mg/L	2024-05-23 00:47:11	F	

Test method: Abbott Alinity 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).

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info					Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:				Date of Service:	2024-05-22 12:16:00
Date of Birth:	2004-03-02	Work Phone:				Date Received:	2024-05-23 01:05
Age:	20 years	Sex:	M				Report Status: complete
Health #:				Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392
						Accession #:	2024-K27435866
						Reference #:	130919838
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY					

CHEM1

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Vitamin B12	195	138-652	pmol/L	2024-05-23 00:39:08	F	5407	
			>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency				
Ferritin	95	15-275	ug/L	2024-05-23 00:48:02	F		
			<15 ug/L: diagnostic of iron deficiency 15-30 ug/L: probable iron deficiency >30 ug/L: iron deficiency unlikely >100 ug/L: normal iron stores =>600 ug/L: consider test for iron overload				

CHEM2

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Urinalysis Chemical							
Collection Date	22-MAY-2024				2024-05-23 01:01:55	F	
Collection Time	12:16				2024-05-23 01:01:55	F	
Appearance	TURBID	Clear			2024-05-23 01:01:55	F	
Colour	DARK YELLOW	Yellow			2024-05-23 01:01:55	F	
Specific Gravity	>=1.030				2024-05-23 01:01:55	F	
pH	5.5	5.0 - 8.0			2024-05-23 01:01:55	F	
Protein	NEGATIVE	Negative	g/L		2024-05-23 01:01:55	F	
Glucose	NEGATIVE	Negative	mmol/L		2024-05-23 01:01:55	F	
Ketones	NEGATIVE	Negative	mmol/L		2024-05-23 01:01:55	F	
Erythrocytes	NEGATIVE	Negative	RBC/uL		2024-05-23 01:01:55	F	
Nitrite	NEGATIVE	Negative			2024-05-23 01:01:55	F	
Leukocyte Esterase	NEGATIVE	Negative	WBC/uL		2024-05-23 01:01:55	F	
TEST COMMENT	Please see https://tests.lifelabs.com/s/article/URINALYSIS-CHEMICAL-Ontario for alternative reporting units.				2024-05-23 01:01:55	F	

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Sodium	142	135-145	mmol/L	2024-05-23 00:47:11	F		
Potassium	4.3	3.5-5.2	mmol/L	2024-05-23 00:47:11	F		
Calcium	2.48	2.15-2.60	mmol/L	2024-05-23 00:47:11	F		

CHEM4

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Urate	301		230-480	umol/L	2024-05-23 00:47:11	F	
Alkaline Phosphatase	110		40-129	U/L	2024-05-23 00:47:11	F	
Alanine Aminotransferase	28		<50	U/L	2024-05-23 00:47:11	F	
Creatinine/GFR							
Creatinine	72		67-117	umol/L	2024-05-23 00:47:11	F	
Glomerular Filtration Rate (eGFR)	>120		See below		2024-05-23 00:47:11	F	

Results rule out CKD stage 3-5. Assessment of urine ACR is required to definitively rule out or confirm CKD diagnosis. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

Effective 22/APR/2024, the new CKD-EPI 2021 equation replaced the CKD-EPI 2009 equation. Comparison using LifeLabs patient population data suggests no significant change for eGFR >60 mL/min/1.73m², and an average increase of 6% for eGFR =<60 mL/min/1.73m². Individual eGFR results may vary between -3% and +10%.

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	12			Hours	2024-05-23 00:39:08	F	
Triglyceride	1.12			mmol/L	2024-05-23 00:47:11	F	
FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L							
Cholesterol	3.84		<5.20	mmol/L	2024-05-23 00:47:11	F	
Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.							
HDL Cholesterol	0.80	L	>=1.00	mmol/L	2024-05-23 00:47:11	F	
HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.							
Non HDL Cholesterol	3.04		<4.20	mmol/L	2024-05-23 00:47:11	F	
Non HDL-Cholesterol is not affected by the fasting status of the patient.							
LDL Cholesterol	2.56		<3.50	mmol/L	2024-05-23 00:47:11	F	
LDL-C is calculated using the NIH equation.							
For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.							
Cholesterol/HDL Cholesterol	4.8				2024-05-23 00:47:11	F	

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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Thyroid Stimulating Hormone (TSH)

Thyroid Stimulating Hormone	1.16		0.32-4.00	mIU/L	2024-05-23 00:47:21	F	
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CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
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C Reactive Protein	3.8		<5.0	mg/L	2024-05-23 00:47:11	F	
Test method: Abbott Alinity 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).							

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info				Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:		Date of Service:	2024-05-22 12:16:00	
Date of Birth:	2004-03-02	Work Phone:		Date Received:	2024-05-23 00:55	
Age:	20 years	Sex:	M	Report Status:	complete	
Health #:		Patient Location:	LIFELABS ONTARIO	Client Ref. #:	124392	
				Accession #:	2024-K27435866	
				Reference #:	130919838	
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY				

CHEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Vitamin B12	195		138-652	pmol/L	2024-05-23 00:39:08	F	5407
			>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency				
Ferritin	95		15-275	ug/L	2024-05-23 00:48:02	F	
			<15 ug/L: diagnostic of iron deficiency 15-30 ug/L: probable iron deficiency >30 ug/L: iron deficiency unlikely >100 ug/L: normal iron stores =>600 ug/L: consider test for iron overload				

CHEM4							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Sodium	142		135-145	mmol/L	2024-05-23 00:47:11	F	
Potassium	4.3		3.5-5.2	mmol/L	2024-05-23 00:47:11	F	
Calcium	2.48		2.15-2.60	mmol/L	2024-05-23 00:47:11	F	
Urate	301		230-480	umol/L	2024-05-23 00:47:11	F	
Alkaline Phosphatase	110		40-129	U/L	2024-05-23 00:47:11	F	
Alanine Aminotransferase	28		<50	U/L	2024-05-23 00:47:11	F	
Creatinine/GFR							
Creatinine	72		67-117	umol/L	2024-05-23 00:47:11	F	
Glomerular Filtration Rate (eGFR)	>120		See below		2024-05-23 00:47:11	F	

Results rule out CKD stage 3-5. Assessment of urine ACR is required to definitively rule out or confirm CKD diagnosis. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

Effective 22/APR/2024, the new CKD-EPI 2021 equation replaced the CKD-EPI 2009 equation. Comparison using LifeLabs patient population data suggests no significant change for eGFR >60 mL/min/1.73m², and an average increase of 6% for eGFR =<60 mL/min/1.73m². Individual eGFR results may vary between -3% and +10%.

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Lipid Assessment							
Hours After Meal	12			Hours	2024-05-23 00:39:08	F	
Triglyceride	1.12			mmol/L	2024-05-23 00:47:11	F	
	FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L						
Cholesterol	3.84		<5.20	mmol/L	2024-05-23 00:47:11	F	
	Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.						
HDL Cholesterol	0.80	L	>=1.00	mmol/L	2024-05-23 00:47:11	F	
	HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.						
Non HDL Cholesterol	3.04		<4.20	mmol/L	2024-05-23 00:47:11	F	
	Non HDL-Cholesterol is not affected by the fasting status of the patient.						
LDL Cholesterol	2.56		<3.50	mmol/L	2024-05-23 00:47:11	F	
	LDL-C is calculated using the NIH equation.						
	For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.						
Cholesterol/HDL Cholesterol	4.8				2024-05-23 00:47:11	F	
	Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0						

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Thyroid Stimulating Hormone (TSH)							
Thyroid Stimulating Hormone	1.16		0.32-4.00	mIU/L	2024-05-23 00:47:21	F	

CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
C Reactive Protein	3.8		<5.0	mg/L	2024-05-23 00:47:11	F	

Test method: Abbott Alinity 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).

END OF REPORT

5407 - KENNEDY 6560 Kennedy Road Mississauga Ontario L5T 2X4 Canada B

Detail Results: Patient Info					Results Info		
Patient Name:	MEKAIL HAYATI	Home Phone:			Date of Service:	2024-05-22 12:16:00	
Date of Birth:	2004-03-02	Work Phone:			Date Received:	2024-05-23 00:50	
Age:	20 years	Sex:	M		Report Status:	complete	
Health #:		Patient Location:	LIFELABS ONTARIO		Client Ref. #:	124392	
					Accession #:	2024-K27435866	
					Reference #:	130919838	
Requesting Client: WASEEM CHAUDHRY		cc: Client: WASEEM CHAUDHRY					

CHEM1								
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #	
Vitamin B12	195		138-652	pmol/L	2024-05-23 00:39:08	F	5407	
<p>>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency</p>								

CHEM4								
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #	
Sodium	142		135-145	mmol/L	2024-05-23 00:47:11	F		
Potassium	4.3		3.5-5.2	mmol/L	2024-05-23 00:47:11	F		
Calcium	2.48		2.15-2.60	mmol/L	2024-05-23 00:47:11	F		
Urate	301		230-480	umol/L	2024-05-23 00:47:11	F		
Alkaline Phosphatase	110		40-129	U/L	2024-05-23 00:47:11	F		
Alanine Aminotransferase	28		<50	U/L	2024-05-23 00:47:11	F		
Creatinine/GFR								
Creatinine	72		67-117	umol/L	2024-05-23 00:47:11	F		
Glomerular Filtration Rate (eGFR)	>120		See below		2024-05-23 00:47:11	F		

Results rule out CKD stage 3-5. Assessment of urine ACR is required to definitively rule out or confirm CKD diagnosis. The KidneyWise toolkit (kidneywise.ca) recommends remeasuring eGFR and urine ACR annually for people with diabetes mellitus and less frequently in others unless clinical circumstances dictate otherwise.

Reference interval: =>60 mL/min/1.73m²

eGFR is calculated using the CKD-EPI 2021 equation which does not use a race-based adjustment.

Effective 22/APR/2024, the new CKD-EPI 2021 equation replaced the CKD-EPI 2009 equation. Comparison using LifeLabs patient population data suggests no significant change for eGFR >60 mL/min/1.73m², and an average increase of 6% for eGFR =<60 mL/min/1.73m². Individual eGFR results may vary between -3% and +10%.

CHEM6								
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #	

Lipid Assessment

CHEM6

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Hours After Meal	12			Hours	2024-05-23 00:39:08	F	
Triglyceride	1.12			mmol/L	2024-05-23 00:47:11	F	
	FASTING: <1.70 mmol/L NON-FASTING: <2.00 mmol/L						
Cholesterol	3.84		<5.20	mmol/L	2024-05-23 00:47:11	F	
	Total cholesterol and HDL-C used for risk assessment and to calculate non HDL-C.						
HDL Cholesterol	0.80	L	>=1.00	mmol/L	2024-05-23 00:47:11	F	
	HDL-C <1.00 mmol/L indicates risk for metabolic syndrome.						
Non HDL Cholesterol	3.04		<4.20	mmol/L	2024-05-23 00:47:11	F	
	Non HDL-Cholesterol is not affected by the fasting status of the patient.						
LDL Cholesterol	2.56		<3.50	mmol/L	2024-05-23 00:47:11	F	
	LDL-C is calculated using the NIH equation. For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines. Can J Cardiol. 2021;37(8):1129-1150.						
Cholesterol/HDL Cholesterol	4.8				2024-05-23 00:47:11	F	
	Cholesterol/HDL-C is not included in the 2021 CCS guideline as a lipid initiation or treatment target but is recognized as an indicator of high CVD risk at Cholesterol/HDL-C ratio >6.0						

CHEM11

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Thyroid Stimulating Hormone (TSH)							
Thyroid Stimulating Hormone	1.16		0.32-4.00	mIU/L	2024-05-23 00:47:21	F	

CHEM17

Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
C Reactive Protein	3.8		<5.0	mg/L	2024-05-23 00:47:11	F	

Test method: Abbott Alinity 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).

END OF REPORT

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Detail Results: Patient Info				Results Info					
Patient Name: MEKAIL HAYATI		Home Phone:		Date of Service: 2024-05-22 12:16:00					
Date of Birth: 2004-03-02		Work Phone:		Date Received: 2024-05-23 00:45					
Age: 20 years		Sex: M		Report Status: pending					
Health #:		Patient Location: LIFELABS ONTARIO		Client Ref. #: 124392					
				Accession #: 2024-K27435866					
				Reference #: 130919838					
Requesting Client: WASEEM CHAUDHRY				cc: Client: WASEEM CHAUDHRY					

CHEM1							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #
Vitamin B12	195		138-652	pmol/L	2024-05-23 00:39:08	F	5407
>220 pmol/L: Normal, deficiency unlikely 150-220 pmol/L: Borderline, deficiency is possible <150 pmol/L: Low, consistent with deficiency							

CHEM6							
Test Name(s)	Result	Abn	Reference Range	Units	Date/Time Completed	Status	Lab Lic #

Lipid Assessment

Hours After Meal	12	Hours	2024-05-23 00:39:08	F
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END OF REPORT

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