



LABORATORY REPORT



Name : Mr. SUMIT KUMAR	Sex/Age : Male / 34 Years	Case ID : 30708000752
Ref. By : MEDIWHEEL HEATH CHECKUP	Dis. At :	Pt. ID :
Bill. Loc. : SPH OPD		Pt. Loc. :
Reg Date and Time : 22-Jul-2023 11:09	Sample Type : Whole Blood EDTA	Mobile No. :
Sample Date and Time : 22-Jul-2023 11:09	Sample Coll. By : non	Ref Id1 :
Report Date and Time : 22-Jul-2023 14:13	Acc. Remarks :	Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF. INTERVAL	REMARKS
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HAEMOGRAM REPORT

HB AND INDICES

Haemoglobin (Colorimetric)	15.0	G%	13.00 - 17.00
RBC (Electrical Impedance)	H 5.57	millions/cumm	4.50 - 5.50
PCV(Calc)	48.46	%	40.00 - 50.00
MCV (RBC histogram)	87.0	fL	83.00 - 101.00
MCH (Calc)	27.0	pg	27.00 - 32.00
MCHC (Calc)	L 31.0	gm/dL	31.50 - 34.50
RDW (RBC histogram)	12.80	%	11.00 - 16.00

TOTAL AND DIFFERENTIAL WBC COUNT

Total WBC Count	8960	/μL	4000.00 - 10000.00		
Neutrophil	[%] 63	%	EXPECTED VALUES 40.00 - 70.00	[Abs] 5645	EXPECTED VALUES /μL 2000.00 - 7000.00
Lymphocyte	27	%	20.00 - 40.00	2419	/μL 1000.00 - 3000.00
Eosinophil	03	%	1.00 - 6.00	269	/μL 20.00 - 500.00
Monocytes	07	%	2.00 - 10.00	627	/μL 200.00 - 1000.00
Basophil	0.0	%	0.00 - 2.00	0	/μL 0.00 - 100.00

PLATELET COUNT

Platelet Count	301000	/μL	150000.00 - 410000.00
MPV	9.60	fL	6.5 - 12
PDW	H 16.1		9 - 16

Method:

TLC-SF cube technology(Flow Cytometry+ fluorescence),

DC by microscopy,

Platelet count by electrical impedance+/-SF cube technology

Note:(LL-VeryLow,L-Low,H-High,HH-VeryHigh ,A-Abnormal)

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Consultant Pathologist

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TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
ESR <i>Westergren Method</i>	06	mm after 1hr	3 - 15	

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Sample Date and Time : 22-Jul-2023 11:09	Sample Coll. By : non	Ref Id1 :
Report Date and Time : 22-Jul-2023 14:33	Acc. Remarks :	Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
HAEMATOLOGY INVESTIGATIONS				
BLOOD GROUP AND RH TYPING (Erythrocyte Magnetized Technology) (Both Forward and Reverse Group)				

ABO Type	AB
Rh Type	POSITIVE

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Bill. Loc. : SPH OPD		Pt. Loc. :
Reg Date and Time : 22-Jul-2023 11:09	Sample Type : Spot Urine	Mobile No. :
Sample Date and Time : 22-Jul-2023 11:09	Sample Coll. By : non	Ref Id1 :
Report Date and Time : 22-Jul-2023 14:44	Acc. Remarks :	Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
URINE EXAMINATION (STRIP METHOD AND FLOWCYTOMETRY)				

Physical examination

Colour Pale yellow
Transparency Clear

Chemical Examination By Sysmex UC-3500

Sp.Gravity	1.015		1.003 - 1.035
pH	6.5		4.6 - 8
Leucocytes (ESTERASE)	Negative		Negative
Protein	Negative		Negative
Glucose	Negative		Negative
Ketone Bodies Urine	Negative		Negative
Urobilinogen	Negative		Negative
Bilirubin	Negative		Negative
Blood	Negative		Negative
Nitrite	Negative		Negative

Flowcytometric Examination By Sysmex UF-5000

Leucocyte	Occasional	/HPF	Nil
Red Blood Cell	Nil	/HPF	Nil
Epithelial Cell	1-2	/HPF	Present(+)
Bacteria	Nil	/ul	Nil
Yeast	Nil	/ul	Nil
Cast	Nil	/LPF	Nil
Crystals	Nil	/HPF	Nil

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Parameter	Unit	Expected value	Result/Notations				
			Trace	+	++	+++	++++
pH	-	4.6-8.0					
SG	-	1.003-1.035					
Protein	mg/dL	Negative (<10)	10	25	75	150	500
Glucose	mg/dL	Negative (<30)	30	50	100	300	1000
Bilirubin	mg/dL	Negative (0.2)	0.2	1	3	6	-
Ketone	mg/dL	Negative (<5)	5	15	50	150	-
Urobilinogen	mg/dL	Negative (<1)	1	4	8	12	-

Parameter	Unit	Expected value	Result/Notations				
			Trace	+	++	+++	++++
Leukocytes (Strip)	/micro L	Negative (<10)	10	25	100	500	-
Nitrite(Strip)	-	Negative	-	-	-	-	-
Erythrocytes(Strip)	/micro L	Negative (<5)	10	25	50	150	250
Pus cells (Microscopic)	/hpf	<5	-	-	-	-	-
Red blood cells(Microscopic)	/hpf	<2	-	-	-	-	-
Cast (Microscopic)	/lpf	<2	-	-	-	-	-

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 Bill. Loc. : **SPH OPD** Pt. Loc. :

Reg Date and Time : 22-Jul-2023 11:09 Sample Type : **Plasma Fluoride F, Plasma Fluoride PP, Serum** Mobile No. :
 Sample Date and Time : 22-Jul-2023 11:09 Sample Coll. By : **non** Ref Id1 :
 Report Date and Time : 22-Jul-2023 14:14 Acc. Remarks : Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
Plasma Glucose - F <i>Photometric, Hexokinase</i>	H 114.00	mg/dL	70 - 100	FUS: NIL
Plasma Glucose - PP <i>Photometric, Hexokinase</i>	H 202.3	mg/dL	70.0 - 140.0	PPUS: NIL
Calcium <i>Arsenazo III</i>	10.2	mg/dL	8.4 - 10.2	

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Reg Date and Time : 22-Jul-2023 11:09	Sample Type : Serum	Mobile No. :
Sample Date and Time : 22-Jul-2023 11:09	Sample Coll. By : non	Ref Id1 :
Report Date and Time : 22-Jul-2023 14:15	Acc. Remarks :	Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
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BIOCHEMICAL INVESTIGATIONS

Lipid Profile

Cholesterol <i>Colorimetric, CHOD-POD</i>	H	203.80	mg/dL	110 - 200
HDL Cholesterol		43.4	mg/dL	40 - 60
Triglyceride <i>GPO-POD</i>		182.64	mg/dL	40 - 200
VLDL <i>Calculated</i>		36.53	mg/dL	10 - 40
Chol/HDL <i>Calculated</i>	H	4.70		0 - 4.1
LDL Cholesterol <i>Calculated</i>	H	123.87	mg/dL	65 - 100

NEW ATP III GUIDELINES (MAY 2001), MODIFICATION OF NCEP

LDL CHOLESTEROL	CHOLESTEROL	HDL CHOLESTEROL	TRIGLYCERIDES
Optimal<100	Desirable<200	Low<40	Normal<150
Near Optimal 100-129	Border Line 200-239	High >60	Border High 150-199
Borderline 130-159	High >240	-	High 200-499
High 160-189	-	-	-

- LDL Cholesterol level is primary goal for treatment and varies with risk category and assesment
- For LDL Cholesterol level Please consider direct LDL value
Risk assessment from HDL and Triglyceride has been revised. Also LDL goals have changed.
- Detail test interpreation available from the lab
- All tests are done according to NCEP guidelines and with FDA approved kits.
- LDL Cholesterol level is primary goal for treatment and varies with risk category and assesment

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BIOCHEMICAL INVESTIGATIONS

Renal Function Test

Urea <i>Urease/GLDH</i>	19.72	mg/dL	19.01 - 44.1	
Creatinine <i>Jaffe compensated</i>	0.77	mg/dL	0.70 - 1.30	
Uric Acid <i>Uricase-Peroxidase method</i>	6.55	mg/dL	3.5 - 7.2	
Sodium <i>ISE</i>	139.2	mmol/L	136 - 145	
Potassium <i>ISE</i>	4.45	mmol/L	3.5 - 5.1	
Chloride <i>ISE</i>	104.1	mmol/L	98 - 107	

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Report Date and Time : 22-Jul-2023 14:16	Acc. Remarks :	Ref Id2 :

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
<u>Glycated Haemoglobin Estimation</u>				
HbA1C <i>Immunoturbidimetric</i>	H 6.3		% of total Hb <5.7: Normal 5.7-6.4: Prediabetes >=6.5: Diabetes	
Estimated Avg Glucose (3 Mths) <i>Calculated</i>	134.11	mg/dL		

Please Note change in reference range as per ADA 2021 guidelines.

Interpretation :

HbA1C level reflects the mean glucose concentration over previous 8-12 weeks and provides better indication of long term glycemic control.
 Levels of HbA1C may be low as result of shortened RBC life span in case of hemolytic anemia.
 Increased HbA1C values may be found in patients with polycythemia or post splenectomy patients.
 Patients with Homozygous forms of rare variant Hb(CC,SS,EE,SC) HbA1c can not be quantitated as there is no HbA.
 In such circumstances glycemic control can be monitored using plasma glucose levels or serum Fructosamine.
 The A1c target should be individualized based on numerous factors, such as age, life expectancy, comorbid conditions, duration of diabetes, risk of hypoglycemia or adverse consequences from hypoglycemia, patient motivation and adherence.

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BIOCHEMICAL INVESTIGATIONS

Thyroid Function Test

Triiodothyronine (T3) <i>CLIA</i>	1.44	ng/mL	0.69 - 2.15	
Thyroxine (T4) <i>CLIA</i>	57.0	ng/mL	52 - 127	
TSH <i>CLIA</i>	H 16.74	µIU/mL	0.3 - 4.5	

INTERPRETATIONS

Useful for Monitoring patients on thyroid replacement therapy, Confirmation of thyrotropin-releasing hormone (TSH) suppression in thyroid cancer patients on thyroxine therapy, for Prediction of thyrotropin-releasing hormone-stimulated TSH response, as An aid in the diagnosis of primary hyperthyroidism, for Differential diagnosis of hypothyroidism.

The ability to quantitate circulating levels of thyroid-stimulating hormone (TSH) is important in evaluating thyroid function. It is especially useful in the differential diagnosis of primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low or normal. Concentrations of 5.1 mIU/ml to 7.0 mIU/ml are considered borderline hypothyroid

CAUTIONS

Sick, hospitalized patients may have falsely low or transiently elevated thyroid stimulating hormone. Some patients who have been exposed to animal antigens, either in the environment or as part of treatment or imaging procedure, may have circulating antianimal antibodies present. These antibodies may interfere with the assay reagents to produce unreliable results.

TSH ref range in Pregnancy	Reference range (microIU/ml)
First trimester	0.24 - 2.00
Second trimester	0.43-2.2
Third trimester	0.8-2.5

----- End Of Report -----

For test performed on specimens received or collected from non-NSRL locations, it is presumed that the specimen belongs to the patient named or identified as labeled on the container/test request and such verification has been carried out at the point generation of the said specimen by the sender. NSRL will be responsible Only for the analytical part of test carried out. All other responsibility will be of referring Laboratory.

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