

Registered Office: Sector-6, Dwarka, New Delhi- 110075

Name : MR AMAR SINGH Age : 51 Yr(s) Sex :Male

Referred By : Reporting Date: 14 Apr 2023 13:06

Receiving Date : 14 Apr 2023 10:09

Department of Transfusion Medicine (Blood Bank)

BLOOD GROUPING, RH TYPING & ANTIBODY SCREEN (TYPE & SCREEN)

Specimen-Blood

Blood Group & Rh Typing (Agglutinaton by gel/tube technique)

Blood Group & Rh typing B Rh(D) Positive

Antibody Screening (Microtyping in gel cards using reagent red cells)

Cell Panel I NEGATIVE
Cell Panel II NEGATIVE
Cell Panel III NEGATIVE
Autocontrol NEGATIVE

Final Antibody Screen Result Negative

Technical Note:

ABO grouping and Rh typing is done by cell and serum grouping by microplate / gel technique. Antibody screening is done using a 3 cell panel of reagent red cells coated with Rh, Kell, Duffy, Kidd, Lewis, P, MNS, Lutheran and Xg antigens using gel technique.

Page1 of 11

-----END OF REPORT-----



Dr Himanshu Lamba











Awarded Nursing Excellence Services Awarded Clean & Green Hospital IND18.6278/05/12/2018- 04/12/2019



Registered Office: Sector-6, Dwarka, New Delhi- 110075

Name : MR AMAR SINGH Age : 51 Yr(s) Sex :Male

Referred By : Reporting Date: 14 Apr 2023 11:36

Receiving Date : 14 Apr 2023 09:54

BIOCHEMISTRY

Specimen: EDTA Whole blood

As per American Diabetes Association(ADA) 2010

HbAlc (Glycosylated Hemoglobin) 5.8 % [4.0-6.5]

HbAlc in %

Non diabetic adults : < 5.6 %

Prediabetes (At Risk): 5.7 % - 6.4 %

Diabetic Range : > 6.5 %

Methodology High-Performance Liquid Chromatography(HPLC)

Estimated Average Glucose (eAG) 120 mg/dl

Use

- 1. Monitoring compliance and long-term blood glucose level control in patients with diabetes.
- 2.Index of diabetic control (direct relationship between poor control and development of complications).
- 3. Predicting development and progression of diabetic microvascular complications.

Limitations :

- 1. AlC values may be falsely elevated or decreased in those with chronic kidney disease.
- 2.False elevations may be due in part to analytical interference from carbamylated hemoglobin formed in the presence of elevated concentrations of urea, with some assays.
- 3. False decreases in measured A1C may occur with hemodialysis and altered red cell turnover, especially in the setting of erythropoietin treatment

References: Rao.L.V., Michael snyder.L.(2021). Wallach's Interpretation of Diagnostic Tests. 11th Edition. Wolterkluwer. NaderRifai, Andrea Rita Horvath, Carl T.wittwer. (2018) Teitz Text book

of Clinical Chemistry and Molecular Diagnostics. First edition, Elsevier, South Asia.

Page 2 of 11











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Registered Office: Sector-6, Dwarka, New Delhi-110075

: MR AMAR SINGH 51 Yr(s) Sex :Male Name Age

Registration No MH010916296 Lab No 32230404925

Patient Episode O03001046247 **Collection Date:** 14 Apr 2023 09:29

Referred By **Reporting Date:** 14 Apr 2023 11:16

Receiving Date 14 Apr 2023 09:49

BIOCHEMISTRY

THYROID PROFILE, Serum Specimen Type : Serum

Thyroid Stimulating Hormone (ECLIA)	6.030 #	μIU/mL	[0.340-4.250]
T4 - Thyroxine (ECLIA)	6.99	μg/dl	[4.60-12.00]
T3 - Triiodothyronine (ECLIA)	1.27	ng/ml	[0.70-2.04]

Note: TSH levels are subject to circadian variation, reaching peak levels between 2-4.a.m. and at a minimum between 6-10 pm. Factors such as change of seasons hormonal fluctuations, Ca or Fe supplements, high fibre diet, stress and illness affect TSH results.

- * References ranges recommended by the American Thyroid Association
- 1) Thyroid. 2011 Oct;21(10):1081-125.PMID .21787128
- 2) http://www.thyroid-info.com/articles/tsh-fluctuating.html

Lipid Profile (Serum)

TOTAL CHOLESTEROL (CHOD/POD)	149	mg/dl	[<200] Moderate risk:200-239
TRIGLYCERIDES (GPO/POD)	180 #	mg/dl	High risk:>240 [<150]
		•	Borderline high:151-199 High: 200 - 499
HDL - CHOLESTEROL (Direct) Methodology: Homogenous Enzymatic	38	mg/dl	Very high:>500 [30-60]
VLDL - Cholesterol (Calculated)	36	mg/dl	[10-40]
(CALCULATED)LDL-	CHOLESTEROL	75 mg/dl	[<100] Near/Above optimal-100-129

Page 3 of 11







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Borderline High:130-159

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Registration No MH010916296 Lab No 32230404925

Patient Episode Collection Date: O03001046247 14 Apr 2023 09:29

Referred By **Reporting Date:** 14 Apr 2023 11:10

Receiving Date : 14 Apr 2023 09:49

BIOCHEMISTRY

High Risk:160-189 T.Chol/HDL.Chol ratio 3.9 <4.0 Optimal 4.0-5.0 Borderline >6 High Risk LDL.CHOL/HDL.CHOL Ratio 2.0 <3 Optimal

3-4 Borderline

>6 High Risk

Note:

Reference ranges based on ATP III Classifications. Recommended to do fasting Lipid Profile after a minimum of 8 hours of overnight fasting.

Test Name	Result	Unit	Biological Ref. Interval
LIVER FUNCTION TEST (Serum)			
BILIRUBIN-TOTAL (mod.J Groff)**	0.28	mg/dl	[0.10-1.20]
BILIRUBIN - DIRECT (mod.J Groff)	0.13	mg/dl	[<0.2]
BILIRUBIN - INDIRECT (mod.J Groff)	0.15 #	mg/dl	[0.20-1.00]
SGOT/ AST (P5P,IFCC)	18.90	IU/L	[5.00-37.00]
SGPT/ ALT (P5P,IFCC)	26.50	IU/L	[10.00-50.00]
ALP (p-NPP,kinetic)*	95	IU/L	[45-135]
TOTAL PROTEIN (mod.Biuret)	7.6	g/dl	[6.0-8.2]
SERUM ALBUMIN (BCG-dye)	4.5	g/dl	[3.5-5.0]
SERUM GLOBULIN (Calculated)	3.1	g/dl	[1.8-3.4]
ALB/GLOB (A/G) Ratio	1.45		[1.10-1.80]

- **NEW BORN: Vary according to age (days), body wt & gestation of baby
- *New born: 4 times the adult value

Technical Notes:

Liver function test aids in diagnosis of various pre hepatic, hepatic and post hepatic





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Registered Office: Sector-6, Dwarka, New Delhi- 110075

Name : MR AMAR SINGH Age : 51 Yr(s) Sex :Male

Referred By : Reporting Date: 14 Apr 2023 11:11

Receiving Date : 14 Apr 2023 09:49

Technical Note

BIOCHEMISTRY

causes of dysfunction like hemolytic anemia's, viral and alcoholic hepatitis and cholestasis of obstructive causes.

Test Name	Result	Unit B	iological Ref. Interval
KIDNEY PROFILE (Serum)			
BUN (Urease/GLDH)	10.00	mg/dl	[8.00-23.00]
SERUM CREATININE (mod.Jaffe)	0.86	mg/dl	[0.80-1.60]
SERUM URIC ACID (mod.Uricase)	4.1	mg/dl	[3.5-7.2]
SERUM CALCIUM (NM-BAPTA)	8.8	mg/dl	[8.6-10.0]
SERUM PHOSPHORUS (Molybdate, UV)	2.8	mg/dl	[2.3-4.7]
SERUM SODIUM (ISE)	139.0	mmol/l	[134.0-145.0]
SERUM POTASSIUM (ISE)	4.07	mmol/l	[3.50-5.20]
SERUM CHLORIDE (ISE / IMT)	105.3 #	mmol/l	[95.0-105.0]
eGFR	100.4	ml/min/1.73sq	[>60.0]

eGFR which is primarily based on Serum Creatinine is a derivation of CKD-EPI 2009 equation normalized to1.73 sq.m BSA and is not applicable to individuals below 18 years. eGFR tends to be less accurate when Serum Creatinine estimation is indeterminate e.g. patients at extremes of muscle mass, on unusual diets etc. and samples with severe Hemolysis / Icterus / Lipemia.

Page 5 of 11











N-2019-0113/27/07/2019-26/07/2021 IND18.6278/05/12/2018- 04/12/2019



Registered Office: Sector-6, Dwarka, New Delhi- 110075

Name : MR AMAR SINGH Age : 51 Yr(s) Sex :Male

Referred By: Reporting Date: 14 Apr 2023 11:16

Receiving Date : 14 Apr 2023 09:49

BIOCHEMISTRY

Test Name Result Unit Biological Ref. Interval

TOTAL PSA, Serum (ECLIA) 1.790 ng/mL [<3.500]

Note: PSA is a glycoprotein that is produced by the prostate gland. Normally, very little PSA is secreted in the blood. Increases in glandular size and tissue damage caused by BPH, prostatitis, or prostate cancer may increase circulating PSA levels.

Caution: Serum markers are not specific for malignancy, and values may vary by method.

Immediate PSA testing following digital rectal examination, ejaculation, prostate massage urethral instrumentation, prostate biopsy may increase PSA levels.

Some patients who have been exposed to animal antigens, may have circulating anti-animal antibodies present. These antibodies may interfere with the assay reagents to produce unreliable results.

Page 6 of 11

-----END OF REPORT------

Dr. Neelam Singal CONSULTANT BIOCHEMISTRY











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Registered Office: Sector-6, Dwarka, New Delhi- 110075

: MR AMAR SINGH 51 Yr(s) Sex :Male Name Age

Registration No MH010916296 Lab No 32230404926

Patient Episode O03001046247 **Collection Date:** 14 Apr 2023 12:42

Referred By **Reporting Date:** 14 Apr 2023 15:42

Receiving Date : 14 Apr 2023 13:48

BIOCHEMISTRY

Specimen Type : Plasma PLASMA GLUCOSE - PP

Plasma GLUCOSE - PP (Hexokinase) [70-140]mg/dl

Note: Conditions which can lead to lower postprandial glucose levels as compared to fasting glucose are excessive insulin release, rapid gastric emptying,

brisk glucose absorption , post exercise

Specimen Type : Serum/Plasma

Plasma GLUCOSE-Fasting (Hexokinase) 111 # mg/dl [70-100]

Page 7 of 11

-----END OF REPORT-----

Dr. Neelam Singal

CONSULTANT BIOCHEMISTRY











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Registered Office: Sector-6, Dwarka, New Delhi-110075

: MR AMAR SINGH Name Age 51 Yr(s) Sex: Male

Registration No MH010916296 Lab No 33230402987

Patient Episode Collection Date: O03001046247 14 Apr 2023 09:29

Referred By **Reporting Date:** 14 Apr 2023 12:16

Receiving Date 14 Apr 2023 09:53

HAEMATOLOGY

ERYTHROCYTE SEDIMENTATION RATE (Automated) Specimen-Whole Blood

ESR 15.0 # mm/1sthour [0.0-12.0]

Interpretation:

Erythrocyte sedimentation rate (ESR) is a non-specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants (e.g. pyogenic infections, inflammation and malignancies). The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week postpartum.

ESR is influenced by age, sex, menstrual cycle and drugs (eg. corticosteroids, contraceptives).

It is especially low (0 -1mm) in polycythemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis or sickle cells.

Test Name COMPLETE BLOOD COUNT (EDTA Blood)	Result	Unit Bi	ological Ref. Interval
WBC Count (Flow cytometry)	8940	/cu.mm	[4000-10000]
RBC Count (Impedence)	4.82	million/cu.mm	[4.50-5.50]
Haemoglobin (SLS Method)	13.5	g/dL	[13.0-17.0]
Haematocrit (PCV)	41.0	%	[40.0-50.0]
(RBC Pulse Height Detector Method)			
MCV (Calculated)	85.1	fL	[83.0-101.0]
MCH (Calculated)	28.0	pg	[25.0-32.0]
MCHC (Calculated)	32.9	g/dL	[31.5-34.5]
Platelet Count (Impedence)	168000	/cu.mm	[150000-410000]
RDW-CV (Calculated)	14.3 #	%	[11.6-14.0]
DIFFERENTIAL COUNT			
Neutrophils (Flowcytometry)	51.1	%	[40.0-80.0]
Lymphocytes (Flowcytometry)	37.6	%	[20.0-40.0]













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: MR AMAR SINGH : 51 Yr(s) Sex :Male Name Age

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Patient Episode O03001046247 **Collection Date:** 14 Apr 2023 09:29

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Basophil Absolute(Flouroscence flow cytometry)

HAEMATOLOGY

Monocytes (Flowcytometry)	7.6	%		[2.0-10.0]
Eosinophils (Flowcytometry)	3.6	%		[1.0-6.0]
Basophils (Flowcytometry)	0.1 #	%		[1.0-2.0]
IG	0.60	%		
Neutrophil Absolute(Flouroscence	flow cytometry)	4.6	/cu mm	[2.0-7.0]x10 ³
Lymphocyte Absolute(Flouroscence	flow cytometry)	3.4 #	/cu mm	$[1.0-3.0]$ x 10^3
Monocyte Absolute(Flouroscence fl	low cytometry)	0.7	/cu mm	$[0.2-1.2]x10^{3}$
Eosinophil Absolute(Flouroscence	flow cytometry)	0.3	/cu mm	$[0.0-0.5]x10^{3}$

Complete Blood Count is used to evaluate wide range of health disorders, including anemia, infection, and leukemia. Abnormal increase or decrease in cell counts as revealed may indicate that an underlying medical condition that calls for further evaluation.

Page 9 of 11

[0.0-0.1]x10³

-----END OF REPORT-------

Soma Pradhan

/cu mm

Dr. Soma Pradhan

0.0











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Registered Office: Sector-6, Dwarka, New Delhi- 110075

Name MR AMAR SINGH 51 Yr(s) Sex: Male Age

Registration No MH010916296 Lab No 38230400935

Patient Episode O03001046247 **Collection Date:** 14 Apr 2023 09:29

15 Apr 2023 09:42 Referred By **Reporting Date:**

14 Apr 2023 13:42 **Receiving Date**

CLINICAL PATHOLOGY

Test Name	Result	Biological Ref. Interval			
ROUTINE URINE ANALYSIS					
MACROSCOPIC DESCRIPTION					
Colour (Visual)	PALE YELLOW	(Pale Yellow - Yellow)			
Appearance (Visual)	CLEAR				
CHEMICAL EXAMINATION					
Reaction[pH]	6.0	(5.0-9.0)			
(Reflectancephotometry(Indicator Metho	od))				
Specific Gravity	1.010	(1.003-1.035)			
(Reflectancephotometry(Indicator Metho	od))				
Bilirubin	Negative	NEGATIVE			
Protein/Albumin	Negative	(NEGATIVE-TRACE)			
(Reflectance photometry(Indicator Meth	nod)/Manual SSA)				
Glucose	NOT DETECTED	(NEGATIVE)			
(Reflectance photometry (GOD-POD/Bened	dict Method))				
Ketone Bodies	NOT DETECTED	(NEGATIVE)			
(Reflectance photometry(Legal's Test),	/Manual Rotheras)				
Urobilinogen	NORMAL	(NORMAL)			
Reflactance photometry/Diazonium salt	reaction				
Nitrite	NEGATIVE	NEGATIVE			
Reflactance photometry/Griess test					
Leukocytes	NIL	NEGATIVE			
Reflactance photometry/Action of Esterase					
BLOOD	NIL	NEGATIVE			
(Reflectance photometry(peroxidase))					
MICROSCOPIC EXAMINATION (Manual) Me	ethod: Light microscopy on	centrifuged urine			
WBC/Pus Cells	0-1 /hpf	(4-6)			
Red Blood Cells	NIL	(1-2)			
Epithelial Cells	1-2 /hpf	(2-4)			
Casts	NIL	(NIL)			
Crystals	NIL	(NIL)			
Bacteria	NIL				
Yeast cells	NIL				

Interpretation:

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Registered Office: Sector-6, Dwarka, New Delhi- 110075

Name : MR AMAR SINGH : 51 Yr(s) Sex :Male Age

38230400935 **Registration No** : MH010916296 Lab No

Patient Episode O03001046247 **Collection Date :** 14 Apr 2023 09:29

Referred By **Reporting Date:** 15 Apr 2023 09:42

: 14 Apr 2023 13:42 **Receiving Date**

CLINICAL PATHOLOGY

URINALYSIS-Routine urine analysis assists in screening and diagnosis of various metabolic , urological, kidney and liver disorders

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urina tract infections and acute illness with fever

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine.

Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine.

Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.

Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys Most Common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration duri infection increases with length of time the urine specimen is retained in bladder prior to collection.

pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/alkalosis or ingestion of certain type of food can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased Specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decrease Specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.

Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis,

bilirubin gets excreted in urine.

Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in case of hemolytic anemia.

Page 11 of 11

-----END OF REPORT-------



Dr. Soma Pradhan







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