Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
HAEMATOLOGY			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/*Spectrophotometry*)	14.1	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	**40.9**	%	42 - 52
RBC Count (EDTA Blood)	**4.13**	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood)	99.1	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	**34.1**	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	34.5	g/dL	32 - 36
RDW-CV	15.5	%	11.5 - 16.0
RDW-SD	**53.76**	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	5200	cells/cu.mm	4000 - 11000
Neutrophils (Blood)	62.8	%	40 - 75
Lymphocytes (Blood)	28.4	%	20 - 45
Eosinophils (Blood)	**0.7**	%	01 - 06
Monocytes (Blood)	7.9	%	01 - 10

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

The results pertain to sample tested.

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
Basophils (Blood)	0.2	%	00 - 02
INTERPRETATION: Tests done on Automated Five Part cell counter. All abnormal results are reviewed and confirmed microscopically.			
Absolute Neutrophil count (EDTA Blood)	3.27	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	1.48	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	**0.04**	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.41	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood)	0.01	10^3 / µl	< 0.2
Platelet Count (EDTA Blood)	251	10^3 / µl	150 - 450
MPV (Blood)	8.5	fL	7.9 - 13.7
PCT (*Automated Blood cell Counter*)	0.21	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood)	8	mm/hr	< 15

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/*DCA with ATCS)*	0.80	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/*Diazotized Sulfanilic Acid)*	**0.42**	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/*Derived)*	0.38	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/*Modified IFCC)*	18.32	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/*Modified IFCC)*	12.09	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/*IFCC / Kinetic)*	>68.06	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/*Modified IFCC)*	60.1	U/L	53 - 128
Total Protein (Serum/*Biuret)*	7.27	gm/dl	6.0 - 8.0
Albumin (Serum/*Bromocresol green)*	4.10	gm/dl	3.5 - 5.2
Globulin (Serum/*Derived)*	3.17	gm/dL	2.3 - 3.6
A : G RATIO (Serum/*Derived)*	1.29		1.1 - 2.2

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674
APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
Lipid Profile			
Cholesterol Total (Serum/*CHOD-PAP with ATCS)*	151.45	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/*GPO-PAP with ATCS)*	**206.73**	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >=500

INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the `usual_ circulating level of triglycerides during most part of the day.

HDL Cholesterol (Serum/*Immunoinhibition)*	**39.73**	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/*Calculated)*	70.4	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/*Calculated)*	41.3	mg/dL	< 30
Non HDL Cholesterol (Serum/*Calculated)*	111.7	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >=220

INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol.
2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

Investigation	Observed Value	Unit	Biological Reference Interval
Total Cholesterol/HDL Cholesterol Ratio (Serum/*Calculated*)	3.8		Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0
Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/*Calculated*)	5.2		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/*Calculated*)	1.8		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/*HPLC)*	5.0	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control >= 8.1 %

Estimated Average Glucose (Whole Blood*)*	96.8	mg/dL	

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.
Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency, hypertriglyceridemia,hyperbilirubinemia,Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values.
Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly,Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total (Serum/*ECLIA*)	1.39	ng/ml	0.7 - 2.04

INTERPRETATION:
Comment :
Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Tyroxine) - Total (Serum/*ECLIA*)	5.92	µg/dl	4.2 - 12.0

INTERPRETATION:
Comment :
Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

TSH (Thyroid Stimulating Hormone) (Serum/*ECLIA*)	3.38	µIU/mL	0.35 - 5.50

INTERPRETATION:
Reference range for cord blood - upto 20
1 st trimester: 0.1-2.5
2 nd trimester 0.2-3.0
3 rd trimester : 0.3-3.0
(Indian Thyroid Society Guidelines)
Comment :
1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.
2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%,hence time of the day has influence on the measured serum TSH concentrations.
3.Values&amplt;0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674
APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
CLINICAL PATHOLOGY			
PHYSICAL EXAMINATION (URINE COMPLETE)			
Colour (Urine)	Yellow		Yellow to Amber
Appearance (Urine)	Clear		Clear
Volume(CLU) (Urine)	20		
CHEMICAL EXAMINATION (URINE COMPLETE)			
pH (Urine)	5.5		4.5 - 8.0
Specific Gravity (Urine)	1.012		1.002 - 1.035
Ketone (Urine)	Negative		Negative
Urobilinogen (Urine)	Normal		Normal
Blood (Urine)	Negative		Negative
Nitrite (Urine)	Negative		Negative
Bilirubin (Urine)	Negative		Negative
Protein (Urine)	Negative		Negative
Glucose (Urine/*GOD - POD*)	Negative		Negative

DR SHAMIM JAVED
MD PATHOLOGY
KMC 88902

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
Leukocytes(CP) (Urine)	Negative		
MICROSCOPIC EXAMINATION (URINE COMPLETE)			
Pus Cells (Urine)	**0-1**	/hpf	NIL
Epithelial Cells (Urine)	**0-1**	/hpf	NIL
RBCs (Urine)	NIL	/HPF	NIL
Others (Urine)	NIL		

INTERPRETATION: Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports are reviewed and confirmed microscopically.

DR SHAMIM JAVED
MD PATHOLOGY
KMC 88902

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING (EDTA Blood/*Agglutination)*	'O' 'Positive'		

INTERPRETATION: Note: Slide method is screening method. Kindly confirm with Tube method for transfusion.

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
BIOCHEMISTRY			
BUN / Creatinine Ratio	7.70		6.0 - 22.0
Blood Urea Nitrogen (BUN) (Serum/*Urease UV / derived)*	7.4	mg/dL	7.0 - 21
Creatinine (Serum/*Modified Jaffe)*	0.96	mg/dL	0.9 - 1.3

INTERPRETATION: Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin ,cefazolin, ACE inhibitors ,angiotensin II receptor antagonists,N-acetylcyteine , chemotherapeutic agent such as flucytosine etc.

Uric Acid (Serum/*Enzymatic)*	7.19	mg/dL	3.5 - 7.2

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

Name	: **Mr. S SRINIVASA K**		
PID No.	: MED121765391	**Register On**	: 28/03/2023 9:25 AM
SID No.	: 522304776	**Collection On**	: 28/03/2023 10:08 AM
Age / Sex	: 49 Year(s) / Male	**Report On**	: 28/03/2023 4:53 PM
Type	: OP	**Printed On**	: 01/04/2023 12:22 PM
Ref. Dr	: **MediWheel**		

medall DIAGNOSTICS

Investigation	Observed Value	Unit	Biological Reference Interval
IMMUNOASSAY			
Prostate specific antigen - Total(PSA) (Serum/*Manometric method)*	0.389	ng/ml	Normal: 0.0 - 4.0 Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0 Suspicious of Malignant disease of Prostate: > 10.0

Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674

APPROVED BY

-- End of Report --

The results pertain to sample tested.

Name	Mr.S SRINIVASA K	ID	MED121765391
Age & Gender	49/MALE	Visit Date	28/03/2023
Ref Doctor Name	MediWheel		

ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in shape, size (12.6cms) **and has increased and coarsened echotexture.** No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

GALL BLADDER is partially distended and shows clear contents. No evidence of calculus.
CBD is of normal calibre.

PANCREAS has normal shape, size and uniform echopattern. No evidence of ductal dilatation or calcification.

SPLEEN shows normal shape, size (10.6cms) and echopattern.

BOTH KIDNEYS
Right kidney: Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

Left kidney: Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

The kidney measures as follows:

	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	10.2	1.5
Left Kidney	11.4	1.8

URINARY BLADDER shows normal shape and wall thickness. It has clear contents. No evidence of diverticula.

PROSTATE shows normal shape, size and echopattern. It measures 2.5 x 2.5 x 3.6cms and vol: 12.1cc.

No evidence of ascites.

IMPRESSION:

Name	Mr.S SRINIVASA K	ID	MED121765391
Age & Gender	49/MALE	Visit Date	28/03/2023
Ref Doctor Name	MediWheel		

- **Grade I fatty infiltration and coarsened echotexture.**
- **No other significant sonological abnormality detected.**

DR. HEMANANDINI V.N
CONSULTANT RADIOLOGIST
Hn/Lr