

Name	: Mrs. SUDESH	Patient UID.	: 5648996 : 78512408060001
Age/Gender	: 52 Yrs/Female	Visit No.	: 78512408060001
Referred Client	: LDPLK1229-SINHA CLINICAL LABORATORY	Collected on	: 06-Aug-2024 06:32PM
Referred By	: NA	Received on	: 06-Aug-2024 06:32PM
Doctor Name	:	Reported on	: 06-Aug-2024 08:29PM
Sample Type	: Serum - 14817966,Whole Blood EDTA - 14817967,	-	

Test Name	HAEMATOLOGY Results	Unit	Bio. Ref. Interval
			DIO. REI. IIItei vai
	OOD COUNT (CBC), WHC		10.0.15.0
HAEMOGLOBIN (Hb) Methodology: colorimetric method	9.3	g/dL	12.0-15.0
RED BLOOD CELLS- RBC COUNT	2.94	millions/mm ³	3.8 - 4.8
Methodology: electric impedance	2.74	minoris/min	5.0 - 4.0
PACKED CELL VOLUME (PCV) -HEMATOCRIT	29.7	%	40.0-50.0
Methodology: Pulse Height detection method			
MCV	101.02	fL	83-101
Methodology: Automated/Calculated			
MCH	31.63	pg	27.0-32.0
Methodology: by Automated/Calculated MCHC	31.31	a/dl	31.5-34.5
Methodology: Automated/Calculated	31.31	g/dL	51.5-54.5
RED CELL DISTRIBUTION WIDTH (RDW-CV)	15.3	%	11.6-14.0
Methodology: Automated/Calculated			
RED CELL DISTRIBUTION WIDTH (RDW-SD)	55.0	fL	39.0-46.0
Methodology: Automated/Calculated			
MENTZER INDEX	34.36		
Methodology: Calculated	(0	1000/	150.410
PLATELET COUNT Methodology: electric impedance	69	10^3/µL	150-410
PLATELET DISTRIBUTION WIDTH (PDW)	15.9	fL	9.00-17.00
Methodology: Calculated	15.7	IL.	7.00 17.00
PCT(PLATELETCRIT)	0.079	%	0.108-0.282
Methodology: Calculated			
MEAN PLATELET VOLUME - MPV	11.5	fL	7.00-12.0
Methodology: Plt Histogram	00.00	<i></i>	44.0.45.0
P-LCR Methodology: Calculated	38.80	%	11.0-45.0
P-LCC	27.00	%	30.0-90.0
Methodology: Calculated	27.00	70	30.0-90.0
TOTAL LEUKOCYTE COUNT (TLC)	5.03	10^3/µL	4.00-10.0
Methodology: electric impedance		<i>,</i> ,	
DIFFERENTIAL LEUCOCYTE COUNT			
Neutrophils	60.8	%	40 - 80
Methodology: Flow cytometry/Manual			
Lymphocytes	27.8	%	20 - 40
Methodology: Flow cytometry/Manual	ГО	0/	1.00 / 00
Eosinophils Methodology: Flow cytometry/Manual	5.0	%	1.00-6.00
Monocytes	6.2	%	2.00-10.0
monocytos	0.2	70	2.00-10.0
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Doctor Name	:		Reported on	: 06-Aug-2024 08:29PM
Sample Type	: Serum - 14817966, Whole Bl	ood EDTA - 1481796	07, -	
Methodology: Flow cytom	netry/Manual			
Basophils	a des la deserva d	0.2	%	0.00-1.00
Methodology: Flow cytom ABSOLUTE NEUTRO		3.06	10^3/µL	2.00-7.00
Methodology: Calculated		0.00	-0 0/ pi-	2.00 7.00
ABSOLUTE LYMPH	OCYTE COUNT	1.40	10^3/μL	1.00-3.00
ABSOLUTE EOSINO	PHIL COUNT	0.25	10^3/μL	0.02-0.50
Methodology: Calculated				
ABSOLUTE MONOC Methodology: Calculated	CYTE COUNT	0.31	10^3/μL	0.20-1.00
ABSOLUTE BASOPH	HIL COUNT	0.01	10^3/μL	0.02-0.10
Methodology: Calculated				

CLINICAL NOTES

A complete blood count (CBC) is used to evaluate overall health and detect wide range of disorders, including anemia, infection and leukemia.

There have been some reports of WBC and platelet counts being lower in venous blood than in capillary blood samples , although still within these reference ranges.

POSSIBLE CAUSES OF ABNORMAL PARAMETERS:-

High RBC, Hb, or HCT - dehydration, polycythemia, shock, chronic hypoxia Low RBC, Hb, or HCT - anemia, thalassemia, and other hemoglobinopathies Low MCV - microcytic anemia High MCV - macrocytic anemia, liver disease Low WBC - sepsis, marrow hypoplasia High WBC - acute stress, infection, malignancies Low platelets - risk of bleeding High platelets - risk of thrombosis

Notes

1.Macrocytic Anemia/Dimorphic Anemia can have low platelet count. 2.Microcytic Anemia/Leucocytosis can have Reactive thrombocytosis.

For microcytic indices a Mentzer index of less than 13 suggests that the patient may have thalassemia trait, and an index of more than 13 suggests that the patient may have iron deficiency.

Reference ranges are from Dacie and Lewis Practical Hematology 11th edition(2011)

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Doctor Name	:	Reported on	: 06-Aug-2024 08:08PM 📕
Sample Type	: Serum - 14817966, Whole Blood EDTA - 14817967,	-	

BIOCHEMISTRY				
Test Name	Results	Unit	Bio. Ref. Interval	
	CALCIUM-SERUM			
CALCIUM , Serum	7.10	mg/dL	8.4 - 10.6	

Methodology: BAPTA

CLINICAL NOTES

A blood calcium test is ordered to screen for, diagnose, and monitor a range of conditions relating to the bones, heart, nerves, kidneys, and teeth. The test may also be ordered if a person has symptoms of a parathyroid disorder, malabsorption, or an overactive thyroid. To help diagnose the underlying problem, additional tests are often done to measure ionized calcium, urine calcium, phosphorus, magnesium, vitamin D, parathyroid hormone (PTH) and PTH-related peptide (PTHrP). PTH and vitamin D are responsible for maintaining calcium concentrations in the blood within a narrow range of values. Measuring urine calcium can help determine whether the kidneys are excreting the proper amount of calcium,

Serum calcium is decreased (hypocalcemia) in following conditions-

-Hypoparathyroidism,Pseudohypoparathyroidism

-Vitamin D deficiency (either from intake deficiency or decreased conversion/activation) or resistance (osteomalacia and rickets)

-Chronic renal diseases (eg, renal acidosis, Fanconi syndrome), Chronic liver disease and biliary obstructive diseases

-Magnesium deficiency (PTH glandular release is magnesium-dependent), Hyperphosphatemia, Hypoalbuminemia

-Overexpression of fibroblast growth factor 23 (oncogenic osteomalacia)

-Severe calcium dietary deficiency, Hungry bone syndrome, Severe pancreatitis (calcium saponification), Massive transfusion

Serum calcium is Increased (hypercalcemia) in following conditions-

-Hyperparathyroidism (primary, such MEN type 1, hyperplasia, adenoma, or carcinoma; or secondary, from chronic kidney injury and hyperphosphatemia) -Malignancies (humoral hypercalcemia of malignancy) that secrete PTH-related protein, especially squamous cell carcinoma of lung and renal cell carcinoma -Vitamin D excess, Vitamin A intoxication, Milk-alkali syndrome

-Multiple myeloma, owing to bone lesions, Paget disease of bone with prolonged immobilization, Sarcoidosis, Other granulomatous disorders

-Familial hypocalciuria hypercalcemia, Addison disease

-Thyrotoxicosis, Hypothyroidism, owing to prolongation of vitamin D action as its metabolism is slowed down

-Drug exposure: Some drugs that can increase serum calcium are as follows antacids (some), calcium salts, long-term thiazide therapy, lithium

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Sample Type	: Serum - 14817966,Whole Blood EDTA - 14817967,	-	

BIOCHEMISTRY					
Test Name	Results	Unit	Bio. Ref. Interval		
LIVER FUN	CTION TEST (LFT) - E	EXTENDED			
BILIRUBIN TOTAL,Serum Methodology: Diazonium Ion Blanked	0.36	mg/dL	0.10 - 1.20		
DIRECT BILIRUBIN(CONJUGATED), Serum Methodology: Diazo Method	0.20	mg/dl	0.00-0.20		
INDIRECT BILIRUBIN,Serum Methodology: Calculated	0.16	mg/dL	0.80		
SGPT (ALT), SERUM Methodology: UV without P5P	18.50	U/L	0-35		
SGOT (AST) ,SERUM Methodology: UV With P5P	21.70	IU/L	0.0-32.0		
ALKALINE PHOSPHATASE ,Serum Methodology: IFCC	382.0	U/L	53-128		
GAMMA GLUTAMYL TRANSFERASE (GGT),Serum Methodology: IFCC	95.80	U/L	12.0-58.0		
TOTAL PROTEIN, Serum Methodology: Biuret	7.00	g/dL	6.00-8.30		
Albumin,Serum Methodology: BCG	3.67	g/dL	3.2-5.20		
GLOBULIN, SERUM Methodology: Calculated	3.33	g/dL	2.30-4.50		
A/G Ratio ,Serum Methodology: Calculated	1.10		1.0 - 2.3		
SGOT/SGPT RATIO	1.17				
COMMENT					

These are group of tests that can be used to detect the presence of liver disease, distinguish among different types of liver disorders, gauge the extent of known liver damage, and monitor the response to treatment. Most liver diseases cause only mild symptoms initially, but these diseases must be detected early. Some tests are associated with functionality (e.g., albumin), some with cellular integrity (e.g., transaminase), and some with conditions linked to the biliary tract (gamma-glutamyl transferase and alkaline phosphatase). Conditions with elevated levels of ALT and AST include hepatitis A,B,C, paracetamol toxicity etc. Several biochemical tests are useful in the evaluation and management of patients with hepatic dysfunction. Some or all of these measurements are also carried out (usually about twice a year for routine cases) on those individuals taking certain medications, such as anticonvulsants, to ensure that the medications are not adversely impacting the person's liver.

Reference ranges are from Teitz fundamental of clinical chemistry 8th ed (2018)

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Sample Type	: Serum - 14817966,Whole Blood EDTA - 14817967,	-	

	BIOCHEMISTRY		
Test Name	Results	Unit	Bio. Ref. Interval
	KIDNEY FUNCTION TEST (KFT)-B	BASIC	
UREA - SERUM	102.1	mg/dL	21.0 - 43.0
Methodology: Urease UV			
CREATININE-SERUM	7.13	mg/dL	0.40-1.10
Methodology: Jaffe Kinetic	(10	<i>,</i>	0.50.7.00
URIC ACID - SERUM	6.40	mg/dL	3.50 - 7.20
Methodology: URICASE-POD	100 7		105 150
SODIUM (SERUM)	132.7	mmol/L	135 - 150
Methodology: ISE	4.20	mmal/l	
POTASSIUM-SERUM Methodology: ISE	4.20	mmol/L	3.5 - 5.5
CHLORIDE ,Serum	109.40	mmol/L	94 - 110
Methodology: ISE	107.40	THITIOI/L	94 - 110
BLOOD UREA NITROGEN (BUN)	47.71	mg/dL	8.00-23.0
Methodology: Calculated			
BUN/CREATININE RATIO	6.69	Ratio	10-20:1 Normal
Methodology: Calculated			
UREA / CREATININE RATIO	14.32	Ratio	40-100:1 Normal
Methodology: Calculated			

Methodology: Calculated

INTERPRETATION

Kidney function tests are group of tests that can be used to evaluate how well the kidneys are functioning. Creatinine is a waste product produced by muscles from the breakdown of a compound called creatine. In blood, it is a marker of GFR ,in urine, it can remove the need for 24-hour collections for many analytes or be used as a quality assurance tool to assess the accuracy of a 24-hour collection. It is removed from the body by the kidneys, which filter almost all of it from the blood and release it into the urine. This test measures the amount of creatinine in the blood and/or urine. Creatine is part of the cycle that produces energy needed to contract muscles. Both creatine and creatinine are produced by the kidneys are relatively constant rate. Since almost all creatinine is filtered from the blood by the kidneys and released into the urine, blood levels are usually a good indicator of how well the kidneys are working.

REMARK-The amount of creatinine you produce depends on your body size and your muscle mass. For this reason, creatinine levels are usually slightly higher in men than in women and children. Certain drugs are nephrotoxic hence KFT is done before and after initiation of treatment with these drugs.

Higher creatinine than normal level may be due to: • Blockage in the urinary tract • Kidney problems, such as kidney damage or failure, infection, or reduced blood flow • Loss of body fluid (dehydration) • Muscle problems, such as breakdown of muscle fibers • Problems during pregnancy, such as seizures (eclampsia)), or high blood pressure caused by pregnancy (preeclampsia)

Lower than normal creatinine level may be due to: • Myasthenia Gravis • Muscular dystrophy.Low serum creatinine values are rare; they almost always reflect low muscle mass.

*** End Of Report ***



