



		Chopra y & Microbiology) ionsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Dr. GULSHAN RAI			
AGE/ GENDER	: 73 YRS/MALE	PAT	IENT ID	: 1639637
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012410100017
REFERRED BY	:	REG	ISTRATION DATE	: 10/Oct/2024 09:50 AM
BARCODE NO.	: 01518631	COL	LECTION DATE	: 10/Oct/2024 09:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 10/Oct/2024 10:11AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
<i>by CALORIMETRIC</i> <u>INTERPRETATION:-</u> Hemoglobin is the pro	otein molecule in red blood ce	ells that carries oxygen fro	om the lunas to the ba	odys tissues and returns carbon dioxide from t
tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED F	ngs. el is referred to as ANEMIA or IAEMOGLOBIN):	low red blood count.		
2) Nutritional deficier 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemoglo	matic injury, surgery, bleedin ncy (iron, vitamin B12, folate) lems (replacement of bone ma l blood cell synthesis by chem obin structure (sickle cell aner EASED HAEMOGLOBIN):	arrow by cancer) otherapy drugs	cn uicer)	
1) People in higher al 2) Smoking (Secondar 3) Dehydration produ 4) Advanced lung dise 5) Certain tumors	ltitudes (Physiological) y Polycythemia) ices a falsely rise in hemoglob ease (for example, emphysema	a)	noconcentration	
7) Abuse of the drug e	one marrow known as polycyt erythropoetin (Epogen) by ath e production of red blood cell	letes for blood doping put	rposes (increasing the	e amount of oxygen available to the body by

KOS Diagnostic Lab (A Unit of KOS Healthcare)

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 10/Oct/2024 03:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEM	OGLOBIN (HbA1c):	6.6 ^H	%	4.0 - 6.4
ESTIMATED AVERAGE	NANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	142.72 ^H	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
RE	FERENCE GROUP		HEMOGLOGIB (HBAIC) in	1%
Non diabetic Adults >= 18 years		<5.7		
	At Risk (Prediabetes)		5.7 - 6.4	
At F			/ -	
At F	gnosing Diabetes		>= 6.5	
At F	gnosing Diabetes		je > 19 Years	
At F Dia		Goals of Therapy:	ge > 19 Years < 7.0	
At F Dia	gnosing Diabetes goals for glycemic control	Goals of Therapy: Actions Suggested:	je > 19 Years	

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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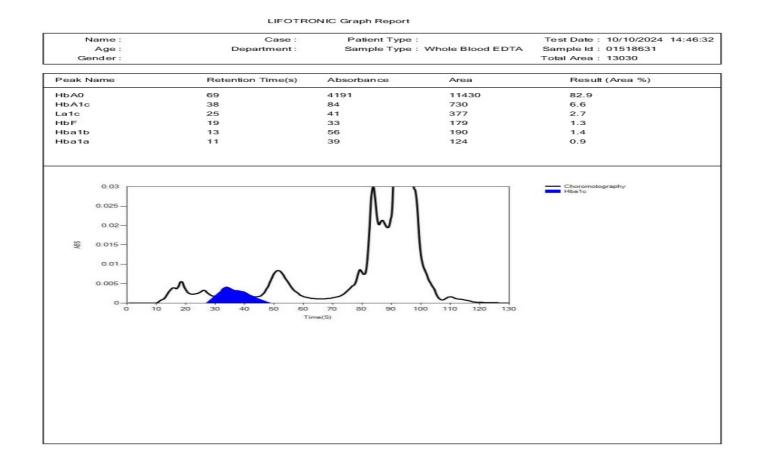
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT	
Test Name		Value Unit	Biological Reference interval





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 10/Oct/2024 11:25AM			
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	: 6349/1, NICHOLSON ROAD, AMBALA CANTT					
Test Name		Value	Unit	Biological Reference interval			
		IICAL CHEMISTR	Y/BIOCHEMISTRY				
UREA: SERUM			mg/dL	10.00 - 50.00			
	ATE DEHYDROGENASE (GLDH)	83.7 ^H	ing/ dL	10.00 - 50.00			
CREATININE: SERUN by ENZYMATIC, SPEC	-	1.9 ^H	mg/dL	0.40 - 1.40			
BLOOD UREA NITRO	GEN (BUN): SERUM	39.11 ^H	mg/dL	7.0 - 25.0			
	GEN (BUN)/CREATININE	20.58 ^H	RATIO	10.0 - 20.0			
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY						
UREA/CREATININE R		44.05	RATIO				
by CALCULATED, SPE URIC ACID: SERUM by URICASE - OXIDAS		7.97 ^H	mg/dL	3.60 - 7.70			
CALCIUM: SERUM by ARSENAZO III, SPE		8.48 ^L	mg/dL	8.50 - 10.60			
PHOSPHOROUS: SER		3.75	mg/dL	2.30 - 4.70			
ELECTROLYTES	ATE, SPECTROPHOTOMETRY						
SODIUM: SERUM	E ELECTRODE)	140	mmol/L	135.0 - 150.0			
POTASSIUM: SERUM		4.22	mmol/L	3.50 - 5.00			
CHLORIDE: SERUM by ISE (ION SELECTIV	E ELECTRODE)	105	mmol/L	90.0 - 110.0			
ESTIMATED GLOME	RULAR FILTERATION RATE						
ESTIMATED GLOMEF (eGFR): SERUM by CALCULATED INTERPRETATION:	RULAR FILTERATION RATE	36.8					

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased



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NAME	: Dr. GULSHA	N RAI						
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Test Name		V	/alue	Unit	t	Biological F	Reference interv	al
7. Urine reabsorption								



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COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

End Of Report ***





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