



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)	
NAME	: Mrs. SUNITA GUPTA				
AGE/ GENDER	: 70 YRS/FEMALE		PATIENT ID	: 1580128	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408140013	
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBA)	LA CANTT)		: 14/Aug/2024 09:40 AM	
BARCODE NO.	: 01515043		COLLECTION DATE	: 14/Aug/2024 10:12AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Aug/2024 10:57AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB.	ALA CANTI			
Test Name		Value	Unit	Biological Reference interval	
	SWAS	THYA WI	ELLNESS PANEL: GT		
	COM	IPLETE BL	OOD COUNT (CBC)		
<u>RED BLOOD CELLS (R</u>	BCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)		11.3 ^L	gm/dL	12.0 - 16.0	
<i>by CALORIMETRIC</i> RED BLOOD CELL (RE		4.02	Millions/cr	mm 3.50 - 5.00	
	OCUSING, ELECTRICAL IMPEDENCE	4.02		3.30 - 3.00	
PACKED CELL VOLUN	NE (PCV) AUTOMATED HEMATOLOGY ANALYZER	35.4 ^L	%	37.0 - 50.0	
MEAN CORPUSCULA	R VOLUME (MCV)	87.9	fL	80.0 - 100.0	
	<i>utomated hematology analyzer</i> R HAEMOGLOBIN (MCH)	28	pg	27.0 - 34.0	
	UTOMATED HEMATOLOGY ANALYZER	20	Pg		
	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	31.8 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBUT	ION WIDTH (RDW-CV)	13.6	%	11.00 - 16.00	
-	UTOMATED HEMATOLOGY ANALYZER ION WIDTH (RDW-SD)	44.6	fL	35.0 - 56.0	
	UTOMATED HEMATOLOGY ANALYZER	44.0	IL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED		21.87	RATIO	BETA THALASSEMIA TRAIT: < 13	
GREEN & KING INDE	x	29.62	RATIO	IRON DEFICIENCY ANEMIA: >13. BETA THALASSEMIA TRAIT: < =	.0
by CALCULATED	A A A A A A A A A A A A A A A A A A A	27.02	IN THO	65.0	
				IRON DEFICIENCY ANEMIA: > 65	5.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>				
TOTAL LEUCOCYTE C	OUNT (TLC) Y BY SF CUBE & MICROSCOPY	3400 ^L	/cmm	4000 - 11000	
NUCLEATED RED BLC	DOD CELLS (nRBCS)	NIL		0.00 - 20.00	
by CALCULATED BY A MICROSCOPY	UTOMATED HEMATOLOGY ANALYZER &				
	DOD CELLS (nRBCS) % <i>UTOMATED HEMATOLOGY ANALYZER</i> &	NIL	%	< 10 %	
DIFFERENTIAL LEUCO	<u>DCYTE COUNT (DLC)</u>				





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name		Value	Unit	Biological Reference interval
	Y BY SF CUBE & MICROSCOPY	56	%	50 - 70
LYMPHOCYTES	TET SF COBE & MICROSCOPT	32	%	20 - 40
	Y BY SF CUBE & MICROSCOPY	02	10	20 10
EOSINOPHILS		4	%	1 - 6
	Y BY SF CUBE & MICROSCOPY	2	0/	0.10
MONOCYTES	Y BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS		0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	
ABSOLUTE LEUKOCY	TES (WBC) COUNT			
ABSOLUTE NEUTRO	PHIL COUNT	1904 ^L	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHO		1088	/cmm	800 - 4900
ABSOLUTE EOSINOP	Y BY SF CUBE & MICROSCOPY	136	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	130	7011111	40 - 440
ABSOLUTE MONOCY		272	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY			
PLATELETS AND OTH	HER PLATELET PREDICTIVE MARKI	<u>ERS.</u>		
PLATELET COUNT (PL		151000	/cmm	150000 - 450000
	OCUSING, ELECTRICAL IMPEDENCE	0.10	0/	0.10 0.2/
PLATELETCRIT (PCT)	OCUSING, ELECTRICAL IMPEDENCE	0.18	%	0.10 - 0.36
MEAN PLATELET VOI		12	fL	6.50 - 12.0
	OCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CEL	· · · · ·	59000	/cmm	30000 - 90000
	OCUSING, ELECTRICAL IMPEDENCE	00.0		
	L RATIO (P-LCR)	38.8	%	11.0 - 45.0
PLATELET DISTRIBUT		16.3	%	15.0 - 17.0
	OCUSING, ELECTRICAL IMPEDENCE	10.5	70	10.0 17.0
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			



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< 7.0

>8.0

<7.5

Age < 19 Years

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Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED H	AEMOGLOBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD by HPLC (HIGH PERFORM	DGLOBIN (HbA1c):	6.1	%	4.0 - 6.4
ESTIMATED AVERAGE F		128.37	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB			
	FERENCE GROUP	GLYCOS	YLATED HEMOGLOGIB (HBAIC) i	n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 - 6.4	
Dia	gnosing Diabetes		>= 6.5 Age > 19 Years	

appropiate.
HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

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

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.

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

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

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.

Goals of Therapy

Actions Suggested

Goal of therapy



COMMENTS:

Therapeutic goals for glycemic control

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

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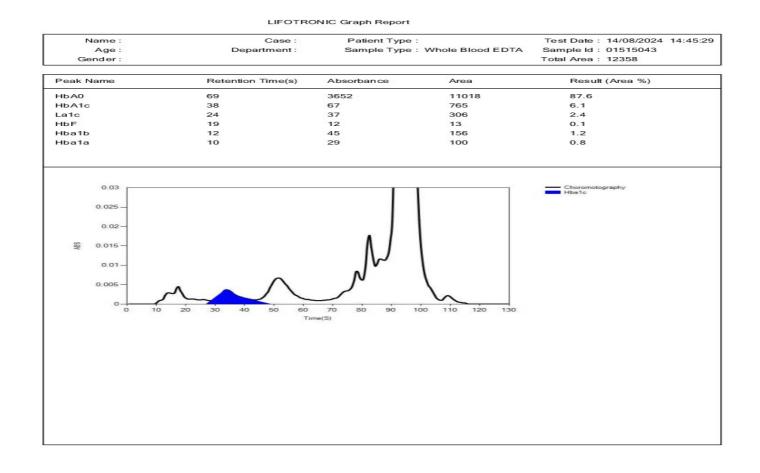
4.High

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Test Name	Value	Unit	Biological Reference interval





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Test Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SEDI	MENTATION RATE (ES	R)
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOW A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	does not tell the health practit cted by other conditions beside matosus V ESR n with conditions that inhibit th ificantly high white blood cell e cell anaemia) also lower the e protein (C-RP) are both market s not change as rapidly as does by as many other factors as is E ed, it is typically a result of two we a higher ESR, and menstruat	ioner exactly wher es inflammation. Fo ivity and response ne normal sedimer count (leucocytosi ESR. ers of inflammatior 5 CRP, either at the SR, making it a be t types of proteins, ion and pregnancy	te the inflammation is in the or this reason, the ESR is ty to therapy in both of the a ntation of red blood cells, s s) , and some protein abno n. e start of inflammation or a: tter marker of inflammatior globulins or fibrinogen. can cause temporary eleva	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.



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BARCODE NO.	:01515043		COLLECTION DATE	: 14/Aug/2024 10:12AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Aug/2024 11:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLIN		Unit STRY/BIOCHEMISTR	
Test Name	CLIN			

KOS Diagnostic Lab (A Unit of KOS Healthcare)

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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Test Name		Value	Unit	Biological Reference interval
			OFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		189.55	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SERI	UM HATE OXIDASE (ENZYMATIC)	71.57	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		65.74	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		109.5	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEF by CALCULATED, SPEC		123.81	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPEC		14.31	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN		450.67	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	RATIO: SERUM	2.88	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERI by Calculated, Spec		1.67	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	1.07	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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U/L

gm/dL

0.00 - 55.0

6.20 - 8.00

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Test Name		Value	Unit	Biological Reference interval	
	LIV	ER FUNCTIO	N TEST (COMPLETE)		
BILIRUBIN TOTAL: SI by DIAZOTIZATION, SF	ERUM PECTROPHOTOMETRY	0.51	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.36	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	20.7	U/L	7.00 - 45.00	
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	22.2	U/L	0.00 - 49.00	
AST/ALT RATIO: SER	UM	0.93	RATIO	0.00 - 46.00	
ALKALINE PHOSPHA		84.78	U/L	40.0 - 130.0	

ALBUMIN: SERUM	3.97	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	1.96 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.03 ^H	RATIO	1.00 - 2.00
<u>INTERPRETATION</u> NOTE:- To be correlated in individuals having SGOT a	nd SGPT values higher thai	n Normal Referance Rang	e.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

PROPANOL

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)

39.14

5.93^L





by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL

GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM

by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM

by BIURET, SPECTROPHOTOMETRY

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DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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BARCODE NO.	:01515043		COLLECTION DATE	: 14/Aug/2024 10:12AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 14/Aug/2024 12:09PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	к	DNEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		27.03	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)	27.00	ing, at	
CREATININE: SERUN		0.92	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC		10 (0		7.0. 25.0
BLOOD UREA NITRO	GEN (BUN): SERUM	12.63	mg/dL	7.0 - 25.0
	GEN (BUN)/CREATININE	13.73	RATIO	10.0 - 20.0
RATIO: SERUM		10170		1010 2010
by CALCULATED, SPE				
UREA/CREATININE F		29.38	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	5.47	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE	5.47	Thy/uL	2.30 - 0.00
CALCIUM: SERUM		9.03	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE				
PHOSPHOROUS: SER	RUM DATE, SPECTROPHOTOMETRY	3.36	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
Sodium: Serum		144.2	mmol/l	125.0 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	144.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		4.09	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)			
CHLORIDE: SERUM		108.15	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	RULAR FILTERATION RATE			
		17		
(eGFR): SERUM	RULAR FILTERATION RATE	67		
by CALCULATED				

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 glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







Ref Cender: PATIENT ID 1580128 COLLECTED BY SURJESH Ref. NO./LAB NO. 1012408140013 RefERRED BY CENTRAL PHOENIX CLUB (AMBALA CANTT) REGISTRATION DATE 14/Aug/2024 09:40 AM BARCODE NO. :01515043 COLLECTION DATE :14/Aug/2024 10:12AM CLIENT CODE :KOS DIAGNOSTIC LAB REPORTING DATE :14/Aug/2024 12:09PM CLIENT ADDRESS :6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval 3. Gl haemorrhage. . . Impaired renal function plus 5. Excess protein intake or production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, ourns, surgery, cachexal, high fever). . 7. Urine reabsorption (e.g. ureter colostomy) . . . 8. Reduced muscle mass (subnormal creatinine production) . . . 9. Certain drugs (e.g. tetracycline, glucocorticolds) . . . NURe reabsorption (e.g. ureter colostomy) . . . 9. Certain drugs (e.g. tetracycline, glucocorticolds) . . . NCREASED RATIO (*10: 1) WITH LEVARED CREATININE LEVELS: . . . 1. Acut		MD (Pa	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
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	CKD STAGE	DESCRIPTION	GFR (mL/min/1./3m2)	ASSOCIATED FINDINGS
1	G1	Normal kidney function	>90	No proteinuria
1	G2	Kidney damage with	>90	Presence of Protein ,
		normal or high GFR		Albumin or cast in urine
	G3a	Mild decrease in GFR	60 -89	
	G3b	Moderate decrease in GFR	30-59	
1	G4	Severe decrease in GFR	15-29	
1	G5	Kidney failure	<15	
				•





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

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		(Pathology)
NAME	: Mrs. SUNITA GUPTA		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1580128
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012408140013
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Test Name	Value	Unit	Biological Reference interval

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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com







	MD (Pathology & Microbiology) Chairman & Consultant Patholog		(Pathology) Pathologist
NAME	: Mrs. SUNITA GUPTA		
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1580128
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Test Name	Value	Unit	Biological Reference interval
	ENDO	CRINOLOGY	
		CRINOLOGY	
	THYROID FUN E (T3): SERUM 1.012		0.35 - 1.93
THYROXINE (T4): SE	THYROID FUN E (T3): SERUM 1.012 NESCENT MICROPARTICLE IMMUNOASSAY)	ICTION TEST: TOTAL	0.35 - 1.93 4.87 - 12.60

overproduction(hyperthyroidism) of T4 and/or T3. CLINICAL CONDITION T3 T4 TSH Primary Hypothyroidism: Reduced Reduced Increased (Significantly) Subclinical Hypothyroidism: Normal or Low Normal Normal or Low Normal High Reduced (at times undetectable) Primary Hyperthyroidism: Increased Increased Subclinical Hyperthyroidism: Normal or High Normal Normal or High Normal Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	Months 0.51 - 2.52 3 - 6 Months 6.75 - 17.04 3 Days - 6 Months 0.70 - 8.40		,		0.70 - 8.40





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt - 133 001, Haryana

 KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist								
NAME	: Mrs. SUNITA GUPTA							
AGE/ GENDER	: 70 YRS/FEMALE	PATIENT ID	: 1580128					
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012408140013					
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 14/Aug/2024 09:40 AM					
BARCODE NO.	: 01515043	COLLECTION DATE	: 14/Aug/2024 10:12AM					
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 14/Aug/2024 12:09PM					
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT							
L			/					
Test Name	Value	Unit	Biological Reference interval					

Test Name			Value	Unit	:	Biological Reference interva
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	IMENDATIONS OF TSH LE	VELS DURING PREC	GNANCY (µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester

*** End Of Report **





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