A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mrs. PUSHP LATA SHARMA			
AGE/ GENDER	: 45 YRS/FEMALE		PATIENT ID	: 1573431
COLLECTED BY	:		REG. NO./LAB NO.	: 122408070021
REFERRED BY	:		REGISTRATION DATE	: 07/Aug/2024 12:03 PM
BARCODE NO.	: 12504040		COLLECTION DATE	: 07/Aug/2024 12:14PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	TUTE	REPORTING DATE	: 07/Aug/2024 01:03PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	ALA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA W	ELLNESS PANEL: 1.4	
	со	MPLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)	12	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE by HYDRO DYNAMIC F	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	3.9	Millions/cr	mm 3.50 - 5.00
PACKED CELL VOLUN		33.6 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	automated hematology analyzer R VOLUME (MCV) automated hematology analyzer	86.3	KR fl	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	30.7	pg	27.0 - 34.0
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	35.6	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TON WIDTH (RDW-CV)	14	%	11.00 - 16.00
by CALCULATED BY A	TION WIDTH (RDW-SD)	46.3	fL	35.0 - 56.0
MENTZERS INDEX by calculated		22.13	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13
GREEN & KING INDE		30.91	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELL		(050	,	1000 11000
	OUNT (TLC) y by sf cube & microscopy <mark>DCYTE COUNT (DLC)</mark>	6850	/cmm	4000 - 11000
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	56	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	33	%	20 - 40
EOSINOPHILS		4	%	1 - 6

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**



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Test Name	Value	Unit	Biological Reference interval
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS	0	%	0 - 1
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	Ŭ	70	0
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT	3836	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHOCYTE COUNT	2260 ^L	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT	274	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	PKR	/umm	40 - 440
ABSOLUTE MONOCYTE COUNT	480	/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPHIL COUNT	0	/cmm	0 - 110
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKE	PS		
		,	450000 450000
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	240000	/cmm	150000 - 450000
PLATELETCRIT (PCT)	0.24	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
MEAN PLATELET VOLUME (MPV)	10	fL	6.50 - 12.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	(2000	1	20000 00000
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	62000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR)	25.9	%	11.0 - 45.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET DISTRIBUTION WIDTH (PDW)	15.8	%	15.0 - 17.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD			





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD,			
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEM		GLYCOSYLATED I 5.7	HAEMOGLOBIN (HBA1C) %	4.0 - 6.4
ESTIMATED AVERAGE F	MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	116.89	mg/dL	60.00 - 140.00
	AS PER AMERICAN DI	ABETES ASSOCIATIO	N (ADA):	
RE	FERENCE GROUP	GLYCO	SYLATED HEMOGLOGIB (HBAIC) i	n %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)		5.7 – 6 .4	
Dia	gnosing Diabetes		>= 6.5	
			Age > 19 Years	
Therereit	goole for glucomia control	Goals of T		
Inerapeutic	goals for glycemic control	Actions Sug)
		Cools Cit	Age < 19 Years	
1		Goal of th	nerapy: <7.5	

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

appropiate 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.





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

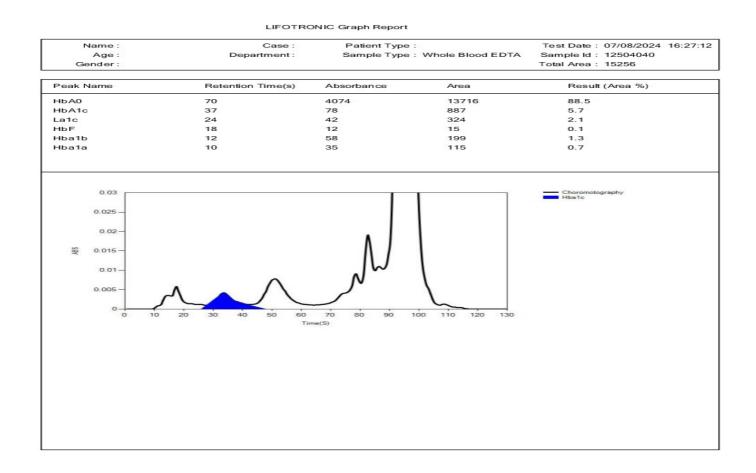
DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

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Test Name	Value	Unit	Biological Reference interval







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

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	ALA CITY - HARYAN	NA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	DCYTE SEDIMEN	ITATION RATE (ESR))
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	25 ^H	mm/1st hr	0 - 20
1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitioner cted by other conditions besides inf	exactly where the lammation. For this	inflammation is in the	n associated with infection, cancer and au body or what is causing it. cally used in conjunction with other test so

systemic lupus erythematosus **CONDITION WITH LOW ESR**

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

 ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while service contractions and pregnancy can be added and the start of the s aspirin, cortisone, and quinine may decrease it





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Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMIS	FRY/BIOCHEMISTR	Y
		GLUCOSE	FASTING (F)	
GLUCOSE FASTING (F by GLUCOSE OXIDAS	F): PLASMA E - PEROXIDASE (GOD-POD)	98.01	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
INTERPRETATION				
	H AMERICAN DIABETES ASSOCIA lucose level below 100 mg/dl is			
2 A fasting plasma g	lucose level between 100 - 125	ma/dLis considered	as alucose intolerant or	prediabetic A fasting and post-prandial blog

A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 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
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		208.26 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SER by GLYCEROL PHOSP	RUM PHATE OXIDASE (ENZYMATIC)	162.05 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		62.3	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		113.55	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		145.96 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL:		32.41	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	578.57	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	3.34	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: SER by CALCULATED, SPE		1.82	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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

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NOT VALID FOR MEDICO LEGAL PURPOSE





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Test Name	Value	Unit	Biological Reference interval

Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL RATIO: SERU	2.0	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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Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION TI	EST (COMPLETE)	
BILIRUBIN TOTAL: S		1.24 ^H	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, S	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.29	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.95	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	27.44	U/L	7.00 - 45.00
SGPT/ALT: SERUM		21.86	U/L	0.00 - 49.00

by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
SGPT/ALT: SERUM	21.86	U/L	0.00 - 49.00
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE			
AST/ALT RATIO: SERUM	1.26	RATIO	0.00 - 46.00
by CALCULATED, SPECTROPHOTOMETRY			
ALKALINE PHOSPHATASE: SERUM	117	U/L	40.0 - 130.0
by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL			
PROPANOL			
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM	22.4	U/L	0.00 - 55.0
by SZASZ, SPECTROPHTOMETRY			
TOTAL PROTEINS: SERUM	7.8	gm/dL	6.20 - 8.00
by BIURET, SPECTROPHOTOMETRY			
ALBUMIN: SERUM	4.64	gm/dL	3.50 - 5.50
by BROMOCRESOL GREEN			
GLOBULIN: SERUM	3.16	gm/dL	2.30 - 3.50
by CALCULATED, SPECTROPHOTOMETRY			
A : G RATIO: SERUM	1.47	RATIO	1.00 - 2.00
by CALCULATED, SPECTROPHOTOMETRY			

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

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

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5





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

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 Test Name	Value	Unit	Biological Reference interval
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	

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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KIE	DNEY FUNCTION T	EST (COMPLETE)		
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	28.38	mg/dL	10.00 - 50.00	
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	0.61	mg/dL	0.40 - 1.20	
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	13.26	mg/dL	7.0 - 25.0	
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by calculated, spectrophotometry	21.74 ^H	RATIO	10.0 - 20.0	
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	46.52	RATIO		
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	5.02	mg/dL	2.50 - 6.80	
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	10.32	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SERUM by phosphomolybdate, spectrophotometry <u>ELECTROLYTES</u>	3.53	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	142.9	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.1	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE	107.18	mmol/L	90.0 - 110.0	
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	112.3			

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)

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A PIONEER DIAGNOSTIC CENTRE

🔽 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

AGE/ GENDER	: 45 YRS/FEMALE	PATIENT ID	: 1573431
COLLECTED BY	:	REG. NO./LAB NO.	: 122408070021
REFERRED BY	:	REGISTRATION DATE	: 07/Aug/2024 12:03 PM
BARCODE NO.	: 12504040	COLLECTION DATE	:07/Aug/2024 12:14PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 07/Aug/2024 03:40PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	
Test Name	Value	Unit	Biological Reference interval

5. Impaired renal function plus

6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet,

burns, surgery, cachexia, high fever).

7. Urine reabsorption (e.g. ureter colostomy)

8. Reduced muscle mass (subnormal creatinine production)

9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS:

1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).

2. Prerenal azotemia superimposed on renal disease.

DECREASED RATIO (<10:1) WITH DECREASED BUN :

1. Acute tubular necrosis.

2. Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6. Inherited hyperammonemias (urea is virtually absent in blood).

7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
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	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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

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





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Test Name	Value	Unit	Biological Reference interval

COMMENTS:

1. 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. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

3. 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 eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill 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)





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	TTUTE REP	ORTING DATE	: 07/Aug/2024 06:58PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARYAN	NA	
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	DFILE	
RON: SERUM	TROPHOTOMETRY	60.82	μg/dL	37.0 - 145.0
UNSATURATED IRON SERUM by FERROZINE, SPECT	I BINDING CAPACITY (UIBC)	170.93	µg/dL	150.0 - 336.0
TOTAL IRON BINDING	G CAPACITY (TIBC)	231.75	μg/dL	230 - 430

IRON: 1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency

%

IRON DEFICIENCY ANEMIA

Reduced

Increased

Decreased < 12-15 %

Decreased

mg/dL

15.0 - 50.0

200.0 - 350.0

THALASSEMIA α/β TRAIT

Normal

Normal

Normal

Normal or Increased

anemia, anemia of chronic disease and thalassemia syndromes. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

ANEMIA OF CHRONIC DISEASE

Normal to Reduced

Decreased

Decreased

Normal to Increased

26.24

164.54^L

% TRANSFERRIN SATURATION:

by SPECTROPHOTOMETERY

TRANSFERRIN: SERUM

INTERPRETATION:

%TRANSFERRIN SATURATION: SERUM

by SPECTROPHOTOMETERY (FERENE)

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.





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

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

:SERUM





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	JTE Rei	PORTING DATE	: 07/Aug/2024 01:33PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYA	NA		
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRIN	IOLOGY		
	ТНҮ	ROID FUNCTIO	N TEST: TOTAL		
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	: (T3): SERUM iescent microparticle immunoassay,	1.24	ng/mL	0.35 - 1.93	
THYROXINE (T4): SEF by CMIA (CHEMILUMIN	RUM ESCENT MICROPARTICLE IMMUNOASSAY	6.71	µgm/dL	4.87 - 12.60	
	ING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY	3.58	µlU/mL	0.35 - 5.50	
3rd GENERATION, ULT	RASENSITIVE				

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	Т3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
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.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMON	
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	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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

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





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🕻 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

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Test Name			Value	Unit		Biolog	ical Reference interval
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		
	RECOM	MENDATIONS OF TSH LE	EVELS DURING PRE	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





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

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





0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE RE	PORTING DATE	: 07/Aug/2024 04:52PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARYA	ANA	
Test Name		Value	Unit	Biological Reference interval
	INTA	CT PARATHYROI	D HORMONE (PTH)	1
INTACT PARATHROI	D HORMONE (PTH): SERUM	61.3	pg/mL	9.5 - 75.0

Intrepretation:-

Parathyroid hormone (PTH) is produced and secreted by the parathyroid glands, which are located along the posterior aspect of the thyroid gland. The serum calcium level regulates PTH secretion via negative feedback through the parathyroid calcium sensing receptor (CASR). Decreased calcium levels stimulate PTH release. Secreted PTH interacts with its specific type II G-protein receptor, causing rapid increases in renal tubular reabsorption of calcium and decreased phosphorus reabsorption. It also participates in long-term calciostatic functions by enhancing mobilization of calcium from bone and increasing renal synthesis of 1,25-dihydroxy vitamin D, which, in turn, increases intestinal calcium absorption. The assay is useful for:

- Differential diagnosis of hypercalcemia
- Diagnosis of primary, secondary, and tertiary hyperparathyroidism
- Diagnosis of hypoparathyroidism

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

Monitoring end-stage renal failure patients for possible renal osteodystrophy •

Interpretation of results:

- An (appropriately) low PTH level and high phosphorus level in a hypercalcemic patient suggests that the hypercalcemia is not caused by PTH or PTH-like substances.
- An (appropriately) low PTH level with a low phosphorus level in a hypercalcemic patient suggests the diagnosis of paraneoplastic hypercalcemia.
- A low or normal PTH in a patient with hypocalcemia suggests hypoparathyroidism.

Low serum calcium and high PTH levels in a patient with normal renal function suggest resistance to PTH action (pseudohypoparathyroidism type 1a, 1b, 1c, or 2) or, very rarely, bio-ineffective PTH.

Elevated PTH value with a normal serum calcium in many cases in India is due to secondary hyperparathyroidism, primary cause being Vitamin D deficiency.



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

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



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	AMBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	И	/IMUNOPATHOL	OGY/SEROLOGY	
		C-REACTIVE PR	OTEIN (CRP)	
SERUM by NEPHLOMETRY	N (CRP) QUANTITATIVE:	2.87	mg/L	0.0 - 6.0
 CRP levels can incr proliferation. CRP levels (Quanti rejection, and to mor 4. As compared to ES 	tative) has been used to assess hitor these inflammatory proces R, CRP shows an earlier rise in	more) after severe tra activity of inflammator sses. inflammatory disorders	uma, bacterial infection y disease, to detect inf which begins in 4-6 hr	n, inflammation, surgery, or neoplastic fections after surgery, to detect transplant rs, the intensity of the rise being higher than conditions like Apemia, Polycythemia etc.

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. **NOTE:**

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.





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

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD,		ARYANA	0
Test Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
	١	/ITAMIN D/25 H	IYDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM NESCENCE IMMUNOASSAY)	24.02 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
	CIENT:	< 20	ng	ı/mL
	FICIENT:	21 - 29		/mL
	ED RANGE:	30 - 100		//mL //mL
3.Vitamin D plays a p phosphate reabsorpt	und by a transport protein wh primary role in the maintenanc ion, skeletal calcium deposition	ce of calcium home	eostatis. It promotes calcium	absorption, renal calcium absorption and
DECREASED: 1.Lack of sunshine ex 2.Inadequate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and 5 6.Enzyme Inducing d INCREASED: 1. Hypervitaminosis I severe hypercalcemi	nay lead to failure to minerali: coosure. malabsorption (celiac disease Vitamin D 25- hydroxylase act nced Liver disease Secondary Hyperparathroidism rugs: anti-epileptic drugs like p D is Rare, and is seen only afte a and hyperphophatemia.	ze newly formed os) ivity (Mild to Moderate ohenytoin, phenoba r prolonged exposu	ation, mainly regulated by p steoid in bone, resulting in ri e deficiency) arbital and carbamazepine, t ure to extremely high doses o	characthyroid harmone (PTH). ckets in children and osteomalacia in adults. chat increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in t of Vitamin D levels in order to prevent



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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Test Name		Value	Unit	Biological Reference interval
		CLINICAL P	ATHOLOGY	
	URINE RO	OUTINE & MICR	OSCOPIC EXAMINAT	ΠΟΝ
PHYSICAL EXAMINATIO				
QUANTITY RECIEVED		20	ml	
-	NCE SPECTROPHOTOMETRY			
COLOUR	NCE SPECTROPHOTOMETRY	PALE YELLOW	V	PALE YELLOW
TRANSPARANCY	NOE SI ECHNOI HOTOMETRI	CLEAR		CLEAR
-	NCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY		1.02		1.002 - 1.030
CHEMICAL EXAMINATI	NCE SPECTROPHOTOMETRY			
REACTION	_	ACIDIC		
by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY			
PROTEIN		NEGATIVE (-	ve)	NEGATIVE (-ve)
SUGAR	NCE SPECTROPHOTOMETRY	NEGATIVE (-	ve)	NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY	MEG/TIVE (
pН		5.5		5.0 - 7.5
by DIP STICK/REFLECTA BILIRUBIN	NCE SPECTROPHOTOMETRY	NEGATIVE (-		NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY	NEGATIVE (-	ve)	NEGATIVE (-Ve)
NITRITE		NEGATIVE (-'	ve)	NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY.	NOT DETECT	ED EU/dL	0.2 1.0
UROBILINOGEN by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY	NOT DETECT	ED EU/UL	0.2 - 1.0
KETONE BODIES		NEGATIVE (-'	ve)	NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY			
BLOOD by DIP STICK/REFLECTA	NCE SPECTROPHOTOMETRY	NEGATIVE (-	vej	NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-	ve)	NEGATIVE (-ve)
,	NCE SPECTROPHOTOMETRY			
MICROSCOPIC EXAMIN	NATION			



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**



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AGE/ GENDER	: 45 YRS/FEMALE	PATIENT ID	: 1573431
COLLECTED BY	:	REG. NO./LAB NO	. : 122408070021
REFERRED BY	:	REGISTRATION D	DATE : 07/Aug/2024 12:03 PM
BARCODE NO.	: 12504040	COLLECTION DAT	TE : 07/Aug/2024 12:14PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	E REPORTING DAT	E : 07/Aug/2024 01:03PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA	CITY - HARYANA	
Test Name	V	Value Ur	hit Biological Reference interval
RED BLOOD CELLS (F	RBCs)	NEGATIVE (-ve) /H	IPF 0-3

RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	5-6	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-5	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

*** End Of Report





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

