A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV			
AGE/ GENDER	: 30 YRS/MALE		PATIENT ID	: 1628892
COLLECTED BY			REG. NO./LAB NO.	: 122409290007
<b>REFERRED BY</b>			<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:51 AM
BARCODE NO.	: 12504984		COLLECTION DATE	: 29/Sep/2024 09:54AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	JTE	<b>REPORTING DATE</b>	: 29/Sep/2024 12:33PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		HAEN	<b>/IATOLOGY</b>	
	CON	<b>/IPLETE BI</b>	LOOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by Calorimetric		14.7	gm/dL	12.0 - 17.0
RED BLOOD CELL (RE		4.64	Millions/cr	mm 3.50 - 5.00
		10.4	%	40.0 54.0
PACKED CELL VOLUN by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER	40.6	70	40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)		87.4	fL	80.0 - 100.0
		01 7		07.0 04.0
		31.7	pg	27.0 - 34.0
		36.2 <sup>H</sup>	g/dL	32.0 - 36.0
			0/	11.00 1/.00
	ION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.7	%	11.00 - 16.00
RED CELL DISTRIBUT	ION WIDTH (RDW-SD)	46	fL	35.0 - 56.0
	UTOMATED HEMATOLOGY ANALYZER	10.04	DATIO	
MENTZERS INDEX		18.84	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	х	25.82	RATIO	BETA THALASSEMIA TRAIT:<= 65.
by CALCULATED		20102		IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C		6050	/cmm	4000 - 11000
	Y BY SF CUBE & MICROSCOPY			
DIFFERENTIAL LEUCO	<u>JCYTE COUNT (DEC)</u>			
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	43 <sup>L</sup>	%	50 - 70
LYMPHOCYTES		48 <sup>H</sup>	%	20 - 40
•	Y BY SF CUBE & MICROSCOPY		0/	1 /
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		2	%	1 - 6



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

**NOT VALID FOR MEDICO LEGAL PURPOSE** 

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.)** 



Page 1 of 12

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV			
AGE/ GENDER	: 30 YRS/MALE	P	ATIENT ID	: 1628892
COLLECTED BY	:	R	EG. NO./LAB NO.	: 122409290007
REFERRED BY	:	R	EGISTRATION DATE	: 29/Sep/2024 09:51 AM
BARCODE NO.	: 12504984	C	<b>OLLECTION DATE</b>	: 29/Sep/2024 09:54AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE <b>R</b> I	EPORTING DATE	: 29/Sep/2024 12:33PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARY	ANA	
Test Name		Value	Unit	Biological Reference interval
MONOCYTES		7	%	2 - 12
	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
BASOPHILS by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCY				
ABSOLUTE NEUTRO	PHIL COUNT	2602	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY			
	CYTE COUNT Y BY SF CUBE & MICROSCOPY	2904	/cmm	800 - 4900
ABSOLUTE EOSINOP		121	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY				
		424	/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT		0	/cmm	0 - 110
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			, on an	0 110
PLATELETS AND OTH	HER PLATELET PREDICTIVE MARKE	ERS.		
PLATELET COUNT (PI		240000	/cmm	150000 - 450000
by HYDRO DYNAMIC F PLATELETCRIT (PCT)	OCUSING, ELECTRICAL IMPEDENCE	0.25	%	0.10 - 0.36
• • •	OCUSING, ELECTRICAL IMPEDENCE	0.25	70	0.10-0.36
MEAN PLATELET VO		10	fL	6.50 - 12.0
		70000	1	20000 00000
PLATELET LARGE CEL by HYDRO DYNAMIC F	L COUNT (P-LCC)	70000	/cmm	30000 - 90000
PLATELET LARGE CEI	L RATIO (P-LCR)	29.4	%	11.0 - 45.0
-	OCUSING, ELECTRICAL IMPEDENCE	1/ 0	<u>^</u>	15.0.17.0
	TION WIDTH (PDW)	16.2	%	15.0 - 17.0
-	CTED ON EDTA WHOLE BLOOD			





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



# A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV			
AGE/ GENDER	: 30 YRS/MALE	PA	TIENT ID	: 1628892
COLLECTED BY	:	RE	G. NO./LAB NO.	: 122409290007
REFERRED BY	:	RE	GISTRATION DATE	: 29/Sep/2024 09:51 AM
BARCODE NO.	: 12504984	CO	LLECTION DATE	: 29/Sep/2024 09:54AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE <b>RE</b>	PORTING DATE	: 29/Sep/2024 12:33PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SEDIME	NTATION RATE (ES	R)
	MENTATION RATE (ESR) gation by capillary photomet	9 RY	mm/1st h	r 0 - 20
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO	does not tell the health practiti cted by other conditions beside be used to monitor disease acti ematosus W ESR	oner exactly where th s inflammation. For th vity and response to th	e inflammation is in the is reason, the ESR is typ herapy in both of the a	pically used in conjunction with other test suc bove diseases as well as some others, such as
(polycythaemia), sigr as sickle cells in sickl <b>NOTE:</b>	hificantly high white blood cell c le cell anaemia) also lower the l	count (leucocytosis) , a ESR.	on of red blood cells, si and some protein abno	uch as a high red blood cell count rmalities. Some changes in red cell shape (su
2. Generally, ESR doe	e protein (C-RP) are both marke es not change as rapidly as does	CRP, either at the star	rt of inflammation or as	s it resolves.

3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.

4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.

5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and guinine may decrease it



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

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





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV		
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1628892
COLLECTED BY	:	REG. NO./LAB NO.	: 122409290007
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:51 AM
BARCODE NO.	: 12504984	COLLECTION DATE	: 29/Sep/2024 09:54AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 29/Sep/2024 05:55PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	ARYANA	

### PERIPHERAL BLOOD SMEAR

## **TEST NAME:**

# PERIPHERAL BLOOD FILM/SMEAR (PBF)

# RED BLOOD CELLS (RBC'S):

RBCs are normocytic & normochromic.No polychromatic cells or normoblasts seen.

# WHITE BLOOD CELLS (WBC'S):

No immature leucocytes seen.

#### PLATELETS:

Platelets are adequate.

# **HEMOPARASITES:**

NOT SEEN.

### **IMPRESSION:**

Normocytic normochromic picture.



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

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



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV			
AGE/ GENDER	: 30 YRS/MALE	PAT	TIENT ID	: 1628892
COLLECTED BY	:	REG	G. NO./LAB NO.	: 122409290007
<b>REFERRED BY</b>	:	REG	<b>GISTRATION DATE</b>	: 29/Sep/2024 09:51 AM
BARCODE NO.	: 12504984	COI	LECTION DATE	: 29/Sep/2024 09:54AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE <b>REP</b>	PORTING DATE	: 29/Sep/2024 03:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	AMBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	PR	OTHROMBIN TIME	STUDIES (PT/INR)	
PT TEST (PATIENT)	CLOT DETECTION	12.4	SECS	11.5 - 14.5
PT (CONTROL) by PHOTO OPTICAL C	CLOT DETECTION	12	SECS	
ISI by PHOTO OPTICAL C	CLOT DETECTION	1.1		
INTERNATIONAL NC by PHOTO OPTICAL C	ORMALISED RATIO (INR)	1.04		0.80 - 1.20
PT INDEX by PHOTO OPTICAL C	CLOT DETECTION	96.77	%	

#### **INTERPRETATION:-**

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

RECOMMENDED THERAPEUTIC RANGE FOR	ORAL ANTI-CO	AGULANT THERAPY (INR)
INDICATION		INTERNATIONAL NORMALIZED RATIO (INR)
Treatment of venous thrombosis		
Treatment of pulmonary embolism		
Prevention of systemic embolism in tissue heart valves		
Valvular heart disease	Low Intensity	2.0 - 3.0
Acute myocardial infarction		
Atrial fibrillation		
Bileaflet mechanical valve in aortic position		
Recurrent embolism		
Mechanical heart valve	High Intensity	2.5 - 3.5
Antiphospholipid antibodies <sup>+</sup>		
COMMENTS:		

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

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



**A PIONEER DIAGNOSTIC CENTRE** 

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

NAME	: Mr. GAURAV		
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1628892
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122409290007
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:51 AM
BARCODE NO.	: 12504984	<b>COLLECTION DATE</b>	: 29/Sep/2024 09:54AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 29/Sep/2024 03:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	

Test Name	Value	Unit	Biological Reference interval

The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are :

1.Oral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4. Disseminated intra vascular coagulation.

5.Factor 5, 7, 10 or Prothrombin dificiency



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

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



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV						
AGE/ GENDER	: 30 YRS/MALE	P	ATIENT ID	: 1628892			
COLLECTED BY	:	R	EG. NO./LAB NO.	: 122409290007			
REFERRED BY	:	R	EGISTRATION DATE	: 29/Sep/2024 09:51 AM			
BARCODE NO.	: 12504984	С	OLLECTION DATE	: 29/Sep/2024 09:54AM			
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE <b>R</b>	EPORTING DATE	: 29/Sep/2024 12:33PM			
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARY	YANA				
Test Name		Value	Unit	Biological Reference interva			
	CLINIC	AL CHEMIST	RY/BIOCHEMISTRY	Y			
	LIVE	ER FUNCTION	TEST (COMPLETE)				
BILIRUBIN TOTAL: SE		0.87	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20			
	ONJUGATED): SERUM PECTROPHOTOMETRY	0.33	mg/dL	0.00 - 0.40			
BILIRUBIN INDIRECT by CALCULATED, SPEC	(UNCONJUGATED): SERUM CTROPHOTOMETRY	0.54	mg/dL	0.10 - 1.00			
SGOT/AST: SERUM by IFCC, WITHOUT PYF	RIDOXAL PHOSPHATE	22.36	CR U/L	7.00 - 45.00			
SGPT/ALT: SERUM by IFCC, WITHOUT PYF	RIDOXAL PHOSPHATE	25.05	U/L	0.00 - 49.00			
AST/ALT RATIO: SERU by CALCULATED, SPEC	CTROPHOTOMETRY	0.89	RATIO	0.00 - 46.00			
ALKALINE PHOSPHAT by para nitropheny propanol	ASE: SERUM /L PHOSPHATASE BY AMINO METHYL	67.41	U/L	40.0 - 130.0			
GAMMA GLUTAMYL by szasz, spectrop	TRANSFERASE (GGT): SERUM	18.46	U/L	0.00 - 55.0			
TOTAL PROTEINS: SE by biuret, spectrof		7.56	gm/dL	6.20 - 8.00			
ALBUMIN: SERUM by bromocresol gr	REEN	4.55	gm/dL	3.50 - 5.50			
GLOBULIN: SERUM by CALCULATED, SPEC	CTROPHOTOMETRY	3.01	gm/dL	2.30 - 3.50			
A : G RATIO: SERUM	CTROPHOTOMETRY	1.51	RATIO	1.00 - 2.00			

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





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

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

NAME

: Mr. GAURAV



A PIONEER DIAGNOSTIC CENTRE

NAME	: Mr. GAURAV		
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1628892
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 122409290007
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:51 AM
BARCODE NO.	: 12504984	<b>COLLECTION DATE</b>	: 29/Sep/2024 09:54AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 29/Sep/2024 12:33PM
<b>CLIENT ADDRESS</b>	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	

Test Name	Value	Unit	<b>Biological Reference interval</b>
INTRAHEPATIC CHOLESTATIS		> 1.5	
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







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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV					
AGE/ GENDER	: 30 YRS/MALE		PATIENT ID	: 1628892		
COLLECTED BY	:		REG. NO./LAB NO.	: 122409290007		
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:51 AM		
BARCODE NO.	: 12504984		<b>COLLECTION DATE</b>	: 29/Sep/2024 09:54AM : 29/Sep/2024 04:16PM		
CLIENT CODE.	: P.K.R JAIN HEALTHCAR	E INSTITUTE	<b>REPORTING DATE</b>			
CLIENT ADDRESS	: NASIRPUR, HISSAR ROA	AD, AMBALA CITY - HA	ARYANA			
Test Name		Value	Unit	Biological Reference interval		
		A	<b>MYLASE</b>			
AMYLASE - SERUM by CNPG 3, SPECTRO	OPHOTOMETRY	36.1	IU/L	0 - 90		

**INTERPRETATION** 

## COMMENTS

1.Amylase is produced in the Pancreas and most of the elevation in serum is due to increased rate of Amylase entry into the blood stream / decreased rate of clearance or both.

2.Serum Amylase rises within 6 to 48 hours of onset of Acute pancreatitis in 80% of patients, but is not proportional to the severity of the disease.

3.Activity usually returns to normal in 3-5 days in patients with milder edematous form of the disease.
4.Values persisting longer than this period suggest continuing necrosis of pancreas or Pseudocyst formation.
5.Approximately 20% of patients with Pancreatitis have normal or near normal activity.
6.Hyperlipemic patients with Pancreatitis also show spuriously normal Amylase levels due to suppression of Amylase activity by triglyceride.
7.Low Amylase levels are seen in Chronic Pancreatitis, Congestive Heart failure, 2nd & 3rd trimesters of pregnancy, Gastrointestinal cancer & bare fortunes. bone fractures.





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

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





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV				
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1628892		
COLLECTED BY	:	REG. NO./LAB NO.	: 122409290007		
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:51 AM		
BARCODE NO.	: 12504984	<b>COLLECTION DATE</b>	: 29/Sep/2024 09:54AM : 29/Sep/2024 04:16PM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>			
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	HARYANA			
Test Name	Value	Unit	Biological Reference interval		
		LIPASE			
LIPASE - SERUM	35.78	U/L	0 - 60		

by METHYL RESORUFIN, SPECTROPHOTOMETRY

**INTERPRETATION** 

1. Pancreas is the major and primary source of serum lipase though lipases are also present in liver, stomach, intestine, WBC, fat cells and milk.

In acute pancreatitis, serum lipase becomes elevated at the same time as amylase and remains high for 7-10 days.

3. Increased lipase activity rarely lasts longer than 14 days.

4. Prolonged increase suggests poor prognosis or presence of a cyst.

5. The combined use of serum lipase and serum amylase is effective in ruling out acute pancreatitis.

#### **INCREASED LEVEL:**

1. Acute & Chronic pancreatitis 2. Obstruction of pancreatic duct

3. Non pancreatic conditions like renal diseases, acute cholecystitis, intestinal obstruction, duodenal ulcer, alcoholism, diabetic ketoacidosis and following endoscopic retrograde cholangiopancreatography NOTE:

1. Elevations 2 to 50 times the upper reference have been reported. The increase in serum lipase is not necessarily proportional to the severity of the attack. Normalization is not necessarily a sign of resolution.

#### ADVICE:

Concomitant testing of serum amylase and lipase is highly recommended to establish a diagnosis of pancreatic injury



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

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





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. GAURAV				
AGE/ GENDER	ER : 30 YRS/MALE PATIENT ID		: 1628892		
COLLECTED BY	:	REG.	NO./LAB NO.	: 122409290007	
<b>REFERRED BY</b>	:	REGIS	STRATION DATE	: 29/Sep/2024 09:51 AM	
BARCODE NO.	: 12504984	COLL	ECTION DATE	: 29/Sep/2024 09:54AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	ТЕ <b>Repo</b>	RTING DATE	: 29/Sep/2024 12:33PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYANA	A		
Test Name		Value	Unit	Biological Reference interval	
		ENDOCRINC	DLOGY		
	THYR	OID FUNCTION	TEST: TOTAL		
TRIIODOTHYRONINI	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY)	1.35	ng/mL	0.35 - 1.93	
THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)		10.31	µgm/dL	4.87 - 12.60	
	ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE IMMUNOASSAY) TRASENSITIVE	1.73	µIU/mL	0.35 - 5.50	
INTERPRETATION:					

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	T3	T4	TSH	
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)	
Subclinical Hypothyroidism: Normal or Low Norma		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 levies 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	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)



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

**└** 0171-2532620, 8222896961 **□** pkrjainhealthcare@gmail.com

NAME	: Mr. GAURAV			
AGE/ GENDER	: 30 YRS/MALE	PATIENT ID	: 1628892	
COLLECTED BY	:	REG. NO./LAB NO.	: 122409290007	
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 29/Sep/2024 09:51 AM	
BARCODE NO.	: 12504984	COLLECTION DATE	: 29/Sep/2024 09:54AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 29/Sep/2024 12:33PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA			

Test Name			Value	lue 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		
	RECON	imendations of tsh Li	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

\*\*\* End Of Report \*\*\*





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

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

