A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BRIJ MOHAN GUPTA			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1438743
COLLECTED BY	:		REG. NO./LAB NO.	: 122411300001
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911		COLLECTION DATE	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	<b>REPORTING DATE</b>	: 30/Nov/2024 12:54PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - H.	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAST	HYA WI	ELLNESS PANEL: GT	
	COMP	PLETE BI	LOOD COUNT (CBC)	
	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H by CALORIMETRIC	B)	9.9 <sup>L</sup>	gm/dL	12.0 - 17.0
RED BLOOD CELL (	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.27	Millions/	cmm 3.50 - 5.00
PACKED CELL VOLU	JME (PCV) utomated hematology analyzer	32.6 <sup>L</sup>	%	40.0 - 54.0
MEAN CORPUSCUL		76.4 <sup>L</sup>	KR	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	23.3 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	30.4 <sup>L</sup>	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.6	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	43.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.89	RATIO	BETA THALASSEMIA TRAIT: < 13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI	DEX	28.05	RATIO	BETA THALASSEMIA TRAIT:<
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			
,	Y BY SF CUBE & MICROSCOPY	10340	/cmm	4000 - 11000
	<u>UCOCYTE COUNT (DLC)</u>			
NEUTROPHILS		71 <sup>H</sup>	%	50 - 70

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

**NOT VALID FOR MEDICO LEGAL PURPOSE** 



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

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

NAME	: Mr. BRIJ MOHAN GUPTA			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1438743
COLLECTED BY	:		REG. NO./LAB NO.	: 122411300001
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911		COLLECTION DATE	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	TUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 12:54PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	ALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	18 <sup>L</sup>	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
MONOCYTES by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	CYTES (WBC) COUNT			
ABSOLUTE NEUTR	OPHIL COUNT Y BY SF CUBE & MICROSCOPY	7341	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETR	OCYTE COUNT Y BY SF CUBE & MICROSCOPY	1861 <sup>L</sup>	KR /cmm	800 - 4900
ABSOLUTE EOSING	OPHIL COUNT Y BY SF CUBE & MICROSCOPY	310	/cmm	40 - 440
ABSOLUTE MONOC	CYTE COUNT Y by sf cube & microscopy	827	/cmm	80 - 880
ABSOLUTE BASOP	HIL COUNT y by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT	(PLT) FOCUSING, ELECTRICAL IMPEDENCE	241000	/cmm	150000 - 450000
PLATELETCRIT (PC	- /	0.3	%	0.10 - 0.36
MEAN PLATELET V	FOCUSING, ELECTRICAL IMPEDENCE OLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	12 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	112000 <sup>H</sup>	I /cmm	30000 - 90000
PLATELET LARGE	CELL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	<b>46.2<sup>H</sup></b>	%	11.0 - 45.0
PLATELET DISTRI	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.1	%	15.0 - 17.0
NOTE: TEST CONDU	ICTED 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. BRIJ MOHAN GUPTA			
AGE/ GENDER	: 65 YRS/MALE	PA	TIENT ID	: 1438743
COLLECTED BY	:	RE	G. NO./LAB NO.	: 122411300001
REFERRED BY		RF	GISTRATION DATE	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911		LLECTION DATE	: 30/Nov/2024 08:07 AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTI	TUTE <b>RE</b>	PORTING DATE	: 30/Nov/2024 04:09PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference inter
GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) INTERPRETATION:		7.3 <sup>H</sup> 162.81 <sup>H</sup>	mg/dL	60.00 - 140.00
	AS PER AMERICAN DI	ABETES ASSOCIATIO	DN (ADA):	
	REFERENCE GROUP		SYLATED HEMOGLOGIB	(HBAIC) in %
Non di	abetic Adults >= 18 years	DIZ	<5.7	
A	t Risk (Prediabetes)		5.7 – 6.4	
D	liagnosing Diabetes		>= 6.5	
		Age > 19 Years		7.0
Therapout	ic goals for glycemic control	Goals of T		< 7.0 >8.0
Therapeutic goals for glycemic control		Actions Su	Age < 19 Years	>0.0

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.



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

AGE/ GENDER	: Mr. BRIJ MOHAN GUPTA			
	: 65 YRS/MALE	PA	FIENT ID	: 1438743
COLLECTED BY	:	RE	G. NO./LAB NO.	: 122411300001
REFERRED BY	:	RE	GISTRATION DATE	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911	CO	LECTION DATE	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE <b>RE</b>	PORTING DATE	: 30/Nov/2024 03:12PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
	EDVELDOCI	TE CEDIME	TATION DATE (	ECD)
			NTATION RATE (	
	DIMENTATION RATE (ESR)	67 <sup>H</sup>	mm/1st	hr 0 - 20
	ATION BY CAPILLARY PHOTOMETRY			
INTERPRETATION:				the second state of which is front to be a second so that and
I. ESR is a non-specific	c test because an elevated result ofte	en indicates the	presence of inflammat	ion associated with infection, cancer and auto
Immune disease, but o	does not tell the health practitioner e	exactly where the	e initiammation is in the	pically used in conjunction with other test suc
2. An ESR can be affect	ted by other conditions besides inna	mmation. For th	is reason, the ESR is ty	pically used in conjunction with other test suc
as C-reactive protein	o used to monitor disease activity ar	d rosponso to t	orany in both of the a	bove diseases as well as some others, such as
systemic lupus erythe	matosus	iu response to ti	leidpy in both of the a	bove diseases as well as some others, such as
CONDITION WITH LOW	VFSR			
A low ESR can be seen	n with conditions that inhibit the norr	mal sedimentati	on of red blood cells, s	uch as a high red blood cell count
(polycythaemia), signi	ificantly high white blood cell count (	(leucocytosis), a	nd some protein abno	rmalities. Šome changes in red cell shape (su
	e cell anaemia) also lower the ESR.			° i i
NOTE:				
1. ESR and C - reactive	e protein (C-RP) are both markers of ir	nflammation.	6 ! 6	
2. Generally, ESR does	s not change as rapidly as does CRP, e	either at the star	t of inflammation or a	s it resolves.
	by as many other factors as is ESR, ma	of protoins glob	narker of inflammation	ι.
J. If the ESD is alounted	a higher ESD and monstruction and	d prograncy can		
<ol><li>If the ESR is elevate</li></ol>			cause temporary eleva	ations
4. If the ESR is elevate 5. Women tend to have	an, methyldopa, oral contraceptives	penicillamine r	cause temporary eleva	ations. Iline, and vitamin A can increase ESR, while
<ol> <li>If the ESR is elevate</li> <li>Women tend to hav</li> <li>Drugs such as dextr</li> </ol>	ran, methyldopa, oral contraceptives,	, penicillamine p	cause temporary eleva	ations. Iline, and vitamin A can increase ESR, while
<ol> <li>If the ESR is elevate</li> <li>Women tend to hav</li> <li>Drugs such as dextr</li> </ol>	ran, methyldopa, oral contraceptives, d quinine may decrease it	, penicillamine p	cause temporary eleva	ations. Iline, and vitamin A can increase ESR, while
<ol> <li>If the ESR is elevate</li> <li>Women tend to hav</li> <li>Drugs such as dextr</li> </ol>	ran, methyldopa, oral contraceptives,	, penicillamine p	cause temporary eleva	ations. Iline, and vitamin A can increase ESR, while
<ol> <li>If the ESR is elevate</li> <li>Women tend to hav</li> <li>Drugs such as dextr</li> </ol>	ran, methyldopa, oral contraceptives,	, penicillamine p	cause temporary eleva	ations. Iline, and vitamin A can increase ESR, while



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

**NOT VALID FOR MEDICO LEGAL PURPOSE** 



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BRIJ MOHAN GUPTA						
AGE/ GENDER	: 65 YRS/MALE	1	PATIENT ID	: 1438743			
COLLECTED BY	:	]	REG. NO./LAB NO.	: 122411300001			
<b>REFERRED BY</b>	:	]	REGISTRATION DATE	: 30/Nov/2024 08:07 AM			
BARCODE NO.	: 12505911		COLLECTION DATE	: 30/Nov/2024 08:23AM			
CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	ISTITUTE	REPORTING DATE	: 30/Nov/2024 12:54PM			
CLIENT ADDRESS	S : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA						
Test Name		Value	Unit	Biological Reference interva			
	CLINI	ICAL CHEMIST	<b>RY/BIOCHEMIST</b>	RY			
		GLUCOSE	FASTING (F)				
GLUCOSE FASTING by glucose oxidas	G (F): PLASMA e - peroxidase (god-pod)	95.35	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0			

A fasting plasma glucose level below 100 mg/dl is considered normal.
 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.





**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. BRIJ MOHAN GUPTA			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1438743
COLLECTED BY	:		REG. NO./LAB NO.	: 122411300001
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911		COLLECTION DATE	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	STITUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 12:38PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	98.19	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O	XIDASE PAP		, and the second s	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
		110.10	( )]	240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	SERUM PHATE OXIDASE (ENZYMATIC)	112.13	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM FION	40.08	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE	L: SERUM ECTROPHOTOMETRY	35.68	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLES by calculated, spe	TEROL: SERUM ECTROPHOTOMETRY	58.11	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER	OL: SERUM ECTROPHOTOMETRY	22.43	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI by CALCULATED, SPE	RUM ECTROPHOTOMETRY	308.51 <sup>L</sup>	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM ECTROPHOTOMETRY	2.45	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

**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 6 of 14

A PIONEER DIAGNOSTIC CENTRE 🔽 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. BRIJ MOHAN GUPTA				
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1438743		
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122411300001		
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM		
BARCODE NO.	: 12505911	<b>COLLECTION DATE</b>	: 30/Nov/2024 08:23AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 12:38PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA				

Test Name	Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: SERUM by Calculated, Spectrophotometry	0.89	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.8 <sup>L</sup>	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





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

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

**NOT VALID FOR MEDICO LEGAL PURPOSE** 





# PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BRIJ MOHAN GUPTA			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1438743
COLLECTED BY	:		REG. NO./LAB NO.	: 122411300001
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911		COLLECTION DATE	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE	<b>REPORTING DATE</b>	: 30/Nov/2024 12:38PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	ALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interva
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SI	: SERUM PECTROPHOTOMETRY	0.55	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.23	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.32	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	22.95	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	21.71	KR U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		1.06	RATIO	0.00 - 46.00
ALKALINE PHOSPI by para nitrophen propanol	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	77.58	U/L	40.0 - 130.0
GAMMA GLUTAMY by szasz, spectrof	L TRANSFERASE (GGT): SERUM PHTOMETRY	23.06	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.34	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.28	gm/dL	3.50 - 5.50

by BROMOCRESOL GREEN **GLOBULIN: SERUM** 2.06<sup>L</sup> gm/dL by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 2.08<sup>H</sup> RATIO

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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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.)** 



2.30 - 3.50

1.00 - 2.00



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

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

NAME	: Mr. BRIJ MOHAN GUPTA				
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1438743		
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122411300001		
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM		
BARCODE NO.	: 12505911	<b>COLLECTION DATE</b>	: 30/Nov/2024 08:23AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 12:38PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA				

#### **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).

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. BRIJ MOHAN GUPTA			
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1438743
COLLECTED BY	:		REG. NO./LAB NO.	: 122411300001
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911		COLLECTION DATE	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 03:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	KID	NEY FUNCTIO	ON TEST (COMPLETE)	)
UREA: SERUM by UREASE - GLUTAN	IATE DEHYDROGENASE (GLDH)	32.53	mg/dL	10.00 - 50.00
CREATININE: SERU		1.44 <sup>H</sup>	mg/dL	0.40 - 1.40
		150	/ 17	70.050

<b>KIDNEY FUNCTION TEST (COMPLETE)</b>						
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	32.53	mg/dL	10.00 - 50.00			
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	1.44 <sup>H</sup>	mg/dL	0.40 - 1.40			
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	15.2	mg/dL	7.0 - 25.0			
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by Calculated, spectrophotometry	10.56	RATIO	10.0 - 20.0			
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	22.59	RATIO				
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	3.62	mg/dL	3.60 - 7.70			
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.74	mg/dL	8.50 - 10.60			
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY	2.56	mg/dL	2.30 - 4.70			
<u>ELECTROLYTES</u> SODIUM: SERUM	149.2	mmol/L	135.0 - 150.0			
by ISE (ION SELECTIVE ELECTRODE)	149.2	IIIII01/L	155.0 - 150.0			
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.74	mmol/L	3.50 - 5.00			
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	111.9 <sup>H</sup>	mmol/L	90.0 - 110.0			
ESTIMATED GLOMERULAR FILTERATION RATE						
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED	53.9					

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.

3. GI haemorrhage.



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. BRIJ MOHAN GUPTA		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1438743
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122411300001
REFERRED BY	:	<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911	<b>COLLECTION DATE</b>	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 03:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - 1	HARYANA	
Test Name	Value	Unit	Biological Reference interval
4. High protein intake			
5. Impaired renal fur			ania Cuahing/a augularana hish anatain diat
burns, surgery, cache	ke or production or tissue breakdown (e.g. infe	ection, Gi bleeding, thyrotoxic	osis, cusning s syndrome, nigh protein diet,
	i (e.g. ureter colostomy)		
	ass (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 normal or high GFR	>90	Presence of Protein , 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)





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BRIJ MOHAN GUPTA		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1438743
COLLECTED BY	:	REG. NO./LAB NO.	: 122411300001
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911	<b>COLLECTION DATE</b>	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 03:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	

Test Name	Value	Unit	<b>Biological Reference interval</b>

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)





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

NAME	: Mr. BRIJ MOHAN GUPTA			
AGE/ GENDER	: 65 YRS/MALE	РАТ	TENT ID	: 1438743
COLLECTED BY	:	REG	. NO./LAB NO.	: 122411300001
REFERRED BY	:	REG	ISTRATION DATE	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911	COL	LECTION DATE	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE <b>Rep</b>	ORTING DATE	: 30/Nov/2024 12:38PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYAI	NA	
Test Name		Value	Unit	<b>Biological Reference interval</b>
		ENDOCODIN		
		ENDOCRIN	OLOGY	
	THYRO	DID FUNCTIO	N TEST: TOTAL	
TRIIODOTHYRONII	NE (T3): SERUM iescent microparticle immunoassay)	1.157	ng/mL	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM iescent microparticle immunoassay)	12.01	µgm/dL	4.87 - 12.60
	ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) RASENSITIVE	1.483	µIU/mL	0.35 - 5.50
INTERPRETATION: ULT				

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 triiodothyronine (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 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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism, pregnancy, phenytoin therapy.

TRIIODOTH	(RONINE (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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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. BRIJ MOHAN GUPTA		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1438743
COLLECTED BY	:	REG. NO./LAB NO.	: 122411300001
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:07 AM
BARCODE NO.	: 12505911	<b>COLLECTION DATE</b>	: 30/Nov/2024 08:23AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 30/Nov/2024 12:38PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	ARYANA	

Test Name			Value	Unit		<b>Biological Reference interval</b>
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	
	RECO	MMENDATIONS OF TSH LE	VELS 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, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituitary or hypothalamic 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)

