A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BALWINDER SINGH			
AGE/ GENDER	: 60 YRS/MALE		PATIENT ID	: 1795842
COLLECTED BY	:		REG. NO./LAB NO.	: 122503180006
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560		<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - H	IARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWASTI	HYA W	ELLNESS PANEL: 1.2	
	COMP	PLETE B	LOOD COUNT (CBC)	
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H	B)	15	gm/dL	12.0 - 17.0
RED BLOOD CELL (	RBC) COUNT	4.27	Millions/	cmm 3.50 - 5.00
PACKED CELL VOL	UME (PCV) NUTOMATED HEMATOLOGY ANALYZER	41.1	%	40.0 - 54.0
	AR VOLUME (MCV) NUTOMATED HEMATOLOGY ANALYZER	96.1	KR fl	80.0 - 100.0
	AR HAEMOGLOBIN (MCH)	35 <sup>H</sup>	pg	27.0 - 34.0
	AR HEMOGLOBIN CONC. (MCHC)	36.4 <sup>H</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	13.1	%	11.00 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD) NUTOMATED HEMATOLOGY ANALYZER	48.9	fL	35.0 - 56.0
MENTZERS INDEX		22.51	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INI	DEX	29.37	RATIO	BETA THALASSEMIA TRAIT:<
by CALCOLATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0
<u>WHITE BLOOD CE</u>	LLS (WBCS)			
	Y BY SF CUBE & MICROSCOPY	5830	/cmm	4000 - 11000
<b>DIFFERENTIAL LE</b> NEUTROPHILS	<u>UCOCYTE COUNT (DLC)</u>	58	%	50 - 70
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			30 - 70
LYMPHOCYTES		33	%	20 - 40

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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

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

NAME	: Mr. BALWINDER SINGH		
AGE/ GENDER	: 60 YRS/MALE	PATIENT ID	: 1795842
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122503180006
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
<b>CLIENT ADDRESS</b>	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	

Value	Unit	Biological Reference interval
2	%	1 - 6
7	%	2 - 12
0	%	0 - 1
Ū	70	0 1
3381	/cmm	2000 - 7500
1924 <sup>L</sup>	/cmm	800 - 4900
117 FKK	/cmm	40 - 440
117	/ chilli	40 - 440
408	/cmm	80 - 880
0	/cmm	0 - 110
ARKERS.		
	/cmm	150000 - 450000
123000-	/ chilli	130000 - 430000
0.15	%	0.10 - 0.36
12 <sup>H</sup>	fL	6.50 - 12.0
53000	/cmm	30000 - 90000
00000	/ chilli	30000 30000
43.3	%	11.0 - 45.0
17.1 <sup>H</sup>	%	15.0 - 17.0
	2 7 0 3381 <b>1924<sup>L</sup></b> 117 408 0 <b>ARKERS.</b> <b>123000<sup>L</sup></b> 0.15 <b>12<sup>H</sup></b> 53000	2       %         7       %         0       %         3381       /cmm         1924 <sup>L</sup> /cmm         117       /cmm         408       /cmm         0       /cmm         0       /cmm         0.15       %         12 <sup>H</sup> fL         53000       /cmm         43.3       %



**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. BALWINDER SINGH			
AGE/ GENDER	: 60 YRS/MALE		PATIENT ID	: 1795842
COLLECTED BY	:		REG. NO./LAB NO.	: 122503180006
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560		COLLECTION DATE	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHR(	OCYTE SEDI	MENTATION RATE (1	ESR)
ERYTHROCYTE SEI	DIMENTATION RATE (ESR)	7	mm/1st	hr 0 - 20
by RED CELL AGGRE	GATION BY CAPILLARY PHOTOMETRY			
INTERPRETATION:				
<b>INTERPRETATION:</b> 1. ESR is a non-specif	ic test because an elevated result	often indicates	s the presence of inflammati	on associated with infection, cancer and auto
<b>INTERPRETATION:</b> 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe	ic test because an elevated result does not tell the health practition acted by other conditions besides in	often indicates er exactly whe	re the inflammation is in the	body or what is causing it.
INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affe as C-reactive protein	ic test because an elevated result does not tell the health practition octed by other conditions besides in	often indicates er exactly whe nflammation. F	re the inflammation is in the or this reason, the ESR is typ	bically used in conjunction with other test such
INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth	ic test because an elevated result does not tell the health practition cted by other conditions besides in be used to monitor disease activit ematosus	often indicates er exactly whe nflammation. F	re the inflammation is in the or this reason, the ESR is typ	body or what is causing it.
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 eryth CONDITION WITH LO	ic test because an elevated result does not tell the health practition cted by other conditions besides in be used to monitor disease activity ematosus <b>W ESR</b>	often indicates er exactly whe nflammation. F y and response	re the inflammation is in the or this reason, the ESR is type to therapy in both of the a	body or what is causing it. bically used in conjunction with other test suc bove diseases as well as some others, such as
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 eryth CONDITION WITH LO' A low ESR can be see	ic test because an elevated result does not tell the health practition acted by other conditions besides in be used to monitor disease activit ematosus <b>W ESR</b> in with conditions that inhibit the r	often indicates er exactly whe nflammation. F y and response normal sedime	re the inflammation is in the or this reason, the ESR is type to therapy in both of the al ntation of red blood cells, su	body or what is causing it. bically used in conjunction with other test suc bove diseases as well as some others, such as

## NOTE:

LER 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 dovtram, motbuling, and vities and vit

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine 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. BALWINDER SINGH				
AGE/ GENDER	: 60 YRS/MALE	PAT	FIENT ID	: 17958	42
COLLECTED BY	:	REG	G. NO./LAB NO.	: 12250	03180006
REFERRED BY	:	REG	GISTRATION DATE	:18/Ma	r/2025 09:37 AM
BARCODE NO.	: 12507560	COL	LLECTION DATE	:18/Ma	r/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	STITUTE <b>RE</b>	PORTING DATE	:18/Ma	r/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYA	NA		
Test Name		Value	Unit		Biological Reference interva
Test Name	CLINIC		Unit Y/BIOCHEMIST	RY	Biological Reference interval
Test Name	CLINIC		Y/BIOCHEMIST	'ny	Biological Reference interva

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. BALWINDER SINGH			
AGE/ GENDER	: 60 YRS/MALE		PATIENT ID	: 1795842
COLLECTED BY	:		REG. NO./LAB NO.	: 122503180006
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560		COLLECTION DATE	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HA	RYANA	
Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL O		193.05	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM PHATE OXIDASE (ENZYMATIC)	183.34 <sup>H</sup>	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	46.22	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		110.16	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		146.83 <sup>H</sup>	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(		36.67	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF by Calculated, spe		569.44	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM ECTROPHOTOMETRY	4.18	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

**REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)** 



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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

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

NAME	: Mr. BALWINDER SINGH		
AGE/ GENDER	: 60 YRS/MALE	PATIENT ID	: 1795842
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 122503180006
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	

Test Name	Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: SERUM by Calculated, spectrophotometry	2.38	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.97	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)





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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BALWINDER SINGH			
AGE/ GENDER	: 60 YRS/MALE		PATIENT ID	: 1795842
COLLECTED BY	:		REG. NO./LAB NO.	: 122503180006
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560		<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HA	ARYANA	
Test Name		Value	Unit	Biological Reference interva
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL: by diazotization, se		0.95	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.33	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.62	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	34.28	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	32.03	KR U/L	0.00 - 49.00
AST/ALT RATIO: SI by CALCULATED, SPE		1.07	RATIO	0.00 - 46.00
ALKALINE PHOSPH by Para Nitrophen propanol	IATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	86.38	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	19.09	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.12 <sup>L</sup>	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.11	gm/dL	3.50 - 5.50

by BROMOCRESOL GREEN **GLOBULIN: SERUM** 2.01<sup>L</sup> gm/dL by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 2.04<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



A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BALWINDER SINGH		
AGE/ GENDER	: 60 YRS/MALE	PATIENT ID	: 1795842
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122503180006
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
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. BALWINDER SINGH		
AGE/ GENDER	: 60 YRS/MALE	PATIENT ID	: 1795842
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122503180006
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 05:32PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	

Test Name	Value	Unit	<b>Biological Reference interval</b>
KIDN	EY FUNCTION TH	EST (COMPLETE)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	23.5	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	1.04	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY	10.98	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	22.6	RATIO	
URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE	6.88	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY	9.43	mg/dL	8.50 - 10.60
PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY	3.17	mg/dL	2.30 - 4.70
<u>ELECTROLYTES</u>			
SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	139	mmol/L	135.0 - 150.0
POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE)	4.24	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)	104.25	mmol/L	90.0 - 110.0
ESTIMATED GLOMERULAR FILTERATION RATE			
ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED INTERPRETATION:	82.2		
T I'll I'll I'll I'll I'll I'll I'll I'l			

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. BALWINDER SINGH				
AGE/ GENDER	: 60 YRS/MALE	PATIE	NT ID	: 1795842	
COLLECTED BY	:	REG. N	O./LAB NO.	: 122503180006	
REFERRED BY	:	REGIST	FRATION DATE	: 18/Mar/2025 09:37 AM	
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b> : 18/Mar/2025 10:26AM			
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE <b>Repor</b>	TING DATE	: 18/Mar/2025 05:32PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYANA			
Test Name		Value	Unit	<b>Biological Reference interval</b>	
burns, surgery, cache 7. Urine reabsorptior 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2	ke or production or tissue breakdown exia, high fever). a (e.g. ureter colostomy) hass (subnormal creatinine production tetracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE LEVE	i) ELS:		cosis, Cushing's syndrome, high protein diet,	
	a (BUN rises disproportionately more t	.nan creatinine) (e.g	. obstructive uropa	alny).	
DECREASED RATIO (<	superimposed on renai disease.			57	
	superimposed on renal disease. 10:1) WITH DECREASED BUN :			,,	
<ol> <li>Acute tubular neci</li> <li>Low protein diet a</li> </ol>	10:1) WITH DECREASED BUN : rosis.			<i>,</i>	

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). ESTIMATED GLOMERULAR FILTERATION RATE:

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)





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BALWINDER SINGH		
AGE/ GENDER	: 60 YRS/MALE	PATIENT ID	: 1795842
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122503180006
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 05:32PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	

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)





A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BALWINDER SINGH			
AGE/ GENDER	: 60 YRS/MALE	PAT	FIENT ID	: 1795842
COLLECTED BY	:	REC	G. NO./LAB NO.	: 122503180006
<b>REFERRED BY</b>	:	REG	GISTRATION DATE	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560	COI	LECTION DATE	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	TE <b>Rei</b>	PORTING DATE	: 18/Mar/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
		ENDOCRIN	OLOGY	
	THYRO		NOLOGY DN TEST: TOTAL	
		<b>DID FUNCTIO</b> 1.24		0.35 - 1.93
by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTIO 1.24 7.31	N TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM iescent microparticle immunoassay) SERUM	<ul> <li><b>DID FUNCTIO</b></li> <li>1.24</li> <li>7.31</li> <li>2.81</li> </ul>	<b>DN TEST: TOTAL</b> ng/mL	
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM iescent microparticle immunoassay) SERUM iescent microparticle immunoassay) ATING HORMONE (TSH): SERUM iescent microparticle immunoassay)	<ul> <li><b>DID FUNCTIO</b></li> <li>1.24</li> <li>7.31</li> <li>2.81</li> </ul>	<b>DN TEST: TOTAL</b> ng/mL μgm/dL	4.87 - 12.60

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	YRONINE (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. BALWINDER SINGH		
AGE/ GENDER	: 60 YRS/MALE	PATIENT ID	: 1795842
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122503180006
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	

Test Name		Value Unit		t	<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	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREC	SNANCY ( 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



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	: 60 YRS/MALE	PATIENT	ID	: 1795842		
COLLECTED BY	:	REG. NO./	'LAB NO.	: 122503180006		
<b>REFERRED BY</b>	:	REGISTRA	ATION DATE	: 18/Mar/2025 09:37 AM		
BARCODE NO.	: 12507560	COLLECT	ION DATE	: 18/Mar/2025 10:26AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	TITUTE <b>REPORTI</b>	NG DATE	: 18/Mar/2025 12:43PM		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	MBALA CITY - HARYANA				
Test Name		Value	Unit	Biological Reference interval		
	LIDINE DOI	CLINICAL PATHO UTINE & MICROSCOF		ΑΤΊΩΝ		
DIIVCICAT EVAMI		UTINE & MICKUSCUP	TU EAAMIIN	ATION		
PHYSICAL EXAMIN QUANTITY RECIEV by DIP STICK/REFLEC		30	ml			
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW		
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR		
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1.02		1.002 - 1.030		
<u>CHEMICAL EXAMI</u>	<u>NATION</u>					
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC				
PROTEIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
SUGAR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
pH	TANCE SPECTROPHOTOMETRY	6.5		5.0 - 7.5		
BILIRUBIN	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)		
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	NOT DETECTED	EU/dL	0.2 - 1.0		
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEGATIVE (-ve)		NEGATIVE (-ve)		
		NEGATIVE (-ve)		NEGATIVE (-ve)		
ASCORBIC ACID by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
MICROSCOPIC EXA						
<b>RED BLOOD CELLS</b>	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3		

: Mr. BALWINDER SINGH

**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.)** 



NAME

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mr. BALWINDER SINGH				
AGE/ GENDER	: 60 YRS/MALE	PATIENT ID	: 1795842		
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 122503180006		
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 18/Mar/2025 09:37 AM		
BARCODE NO.	: 12507560	<b>COLLECTION DATE</b>	: 18/Mar/2025 10:26AM		
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 18/Mar/2025 12:43PM		
<b>CLIENT ADDRESS</b>	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA				

Test Name	Value	Unit	Biological Reference interval
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	5-6	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/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

