

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

: Mrs. SURINDER KUMAR							
: 61 YRS/FEMALE	1	PATIENT ID	: 1813601				
:		REG. NO./LAB NO.	: 122504010003				
:	1	REGISTRATION DATE	: 01/Apr/2025 08:18 AM				
: 12507830	(	COLLECTION DATE	: 01/Apr/2025 08:26AM				
: P.K.R JAIN HEALTHCARE INSTITUTE	I	REPORTING DATE	: 01/Apr/2025 01:25PM				
: NASIRPUR, HISSAR ROAD, AMBALA C	ITY - HAR	YANA					
Va	alue	Unit	Biological Reference interval				
SWASTHY	A WEL	LNESS PANEL: 1	2				
COMPLE	TE BLC	OOD COUNT (CBC)					
LS (RBCS) COUNT AND INDICES							
	14.2	gm/dL	12.0 - 16.0				
	4.43	Millions/	cmm 3.50 - 5.00				
	40.8	%	37.0 - 50.0				
	92.1	fL	80.0 - 100.0				
	32.1	pg	27.0 - 34.0				
LAR HEMOGLOBIN CONC. (MCHC)	34.9	g/dL	32.0 - 36.0				
	12.9	%	11.00 - 16.00				
	45	fL	35.0 - 56.0				
[	20.79	RATIO	BETA THALASSEMIA TRAIT 13.0				
			IRON DEFICIENCY ANEMIA:				
DEX	77.06	RATIO	>13.0 BETA THALASSEMIA TRAIT:				
			<= 65.0 IRON DEFICIENCY ANEMIA: 65.0				
ELLS (WBCS)			0.0				
	5870	/cmm	4000 - 11000				
EUCOCYTE COUNT (DLC)							
	62	%	50 - 70				
	: 61 YRS/FEMALE : : : 12507830 : P.K.R JAIN HEALTHCARE INSTITUTE : NASIRPUR, HISSAR ROAD, AMBALA C Va SWASTHY	: 61 YRS/FEMALE I :	<pre>: 61 YRS/FEMALE PATIENT ID :</pre>				

**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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A PIONEER DIAGNOSTIC CENTRE

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Test Name		Value	Unit	Biological Reference interva				
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY							
LYMPHOCYTES		26	%	20 - 40				
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	4	%	1 - 6				
_ 0 10 10 10	Y BY SF CUBE & MICROSCOPY	-	70	1-0				
MONOCYTES		8	%	2 - 12				
•	Y BY SF CUBE & MICROSCOPY	0	0/	0 1				
BASOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1				
•	OCYTES (WBC) COUNT							
ABSOLUTE NEUTR	ROPHIL COUNT	3639	/cmm	2000 - 7500				
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY							
ABSOLUTE LYMPH		1526 <sup>L</sup>	/cmm	800 - 4900				
ABSOLUTE EOSIN	Y BY SF CUBE & MICROSCOPY	235	/cmm	40 - 440				
	Y BY SF CUBE & MICROSCOPY	233	/emm					
ABSOLUTE MONO		470	/cmm	80 - 880				
•	Y BY SF CUBE & MICROSCOPY	0	100000	0, 110				
ABSOLUTE BASOP	HIL COUNT Y BY SF CUBE & MICROSCOPY	0 /cmm		0 - 110				
PLATELETS AND	OTHER PLATELET PREDICTIV	/E MARKERS.						
PLATELET COUNT	Γ (PLT) OCUSING, ELECTRICAL IMPEDENCE	132000 <sup>L</sup>	/cmm	150000 - 450000				
PLATELETCRIT (P		0.18	%	0.10 - 0.36				
MEAN PLATELET		14 <sup>H</sup>	fL	6.50 - 12.0				
PLATELET LARGE	CELL COUNT (P-LCC)	67000	/cmm	30000 - 90000				
-	CELL RATIO (P-LCR)	50.9 <sup>H</sup>	%	11.0 - 45.0				
by HYDRO DYNAMIC F	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE CTED ON EDTA WHOLE BLOOD	17.1 <sup>H</sup>	%	15.0 - 17.0				



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CONSULTANT PATHOLOGIST





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	- HARYANA	
Test Name	Value	Unit	Biological Reference interval
	ERYTHROCYTE SE	EDIMENTATION RATE	(ESR)
	EDIMENTATION RATE (ESR) 5	mm/1st h	r 0 - 20
by RED CELL AGGREC	GATION BY CAPILLARY PHOTOMETRY		
1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	be used to monitor disease activity and respo ematosus	here the inflammation is in the n. For this reason, the ESR is typ	e body or what is causing it. pically used in conjunction with other test suc
A low ESR can be see (polycythaemia), sign	n with conditions that inhibit the norma <mark>l sedi</mark> ificantly high white blood cell count (leucocy e cell anaemia) also lower the ESR.	mentation of red blood cells, su tosis) , and some protein abnor	uch as a high red blood cell count rmalities. Some changes in red cell shape (su
1. ESR and C - reactive 2. Generally, ESR doe	e protein (C-RP) are both markers of inflamma s not change as rapidly as does CRP, either at <b>by as many other factors as is ESR, making it a</b>	the start of inflammation or as	s it resolves.

CKP is not anected by as many other factors as is ESK, making it a better marker of infinitiation.
 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 aspirin, cortisone, and quinine may decrease it



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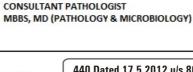
NAME : Mrs. SURINDER KUMAR AGE/ GENDER : 61 YRS/FEMALE **PATIENT ID** :1813601 **COLLECTED BY** :122504010003 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :01/Apr/2025 08:18 AM **BARCODE NO.** :12507830 **COLLECTION DATE** :01/Apr/2025 08:26AM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE **REPORTING DATE** :01/Apr/2025 01:25PM **CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit Test Name **Biological Reference interval CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F)** 89.75 GLUCOSE FASTING (F): PLASMA mg/dL NORMAL: < 100.0 by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0**INTERPRETATION** 

IN TERPRETATION IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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.

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

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HA	ARYANA					
Test Name		Value	Unit	<b>Biological Reference interval</b>				
		LIPID PRO	OFILE : BASIC					
CHOLESTEROL TO by CHOLESTEROL O>		175.26	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0				
TRIGLYCERIDES: 5 by GLYCEROL PHOSF	SERUM PHATE OXIDASE (ENZYMATIC)	98.34	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0				
HDL CHOLESTER( by SELECTIVE INHIBIT	DL (DIRECT): SERUM 70N	46.72	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0				
LDL CHOLESTERC by CALCULATED, SPE		108.88	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0				
NON HDL CHOLES by CALCULATED, SPE		128.54	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0				
VLDL CHOLESTER		19.67	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00				
TOTAL LIPIDS: SE by CALCULATED, SPE	RUM	448.87	mg/dL	350.00 - 700.00				
CHOLESTEROL/HI	DL RATIO: SERUM ECTROPHOTOMETRY	3.75	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0				

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Test Name	Value	Unit	<b>Biological Reference interval</b>
			MODERATE RISK: 7.10 - 11.0

			MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.33	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
			11011 MSK. $> 0.0$
TRIGLYCERIDES/HDL RATIO: SERUM	2.1 <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.

 Cow 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.
 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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA	CITY - HAI	RYANA	-				
Test Name		Value	Unit	Biological Reference interva				
	LIVER FU	INCTION	TEST (COMPLETE	)				
BILIRUBIN TOTAL by DIAZOTIZATION, SF	: SERUM PECTROPHOTOMETRY	0.69	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20				
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		0.23	mg/dL	0.00 - 0.40				
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.46	mg/dL	0.10 - 1.00				
SGOT/AST: SERUN by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	28.19	U/L	7.00 - 45.00				
SGPT/ALT: SERUN by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	16.47		0.00 - 49.00				
AST/ALT RATIO: S		1.71	RATIO	0.00 - 46.00				
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	66.81	U/L	40.0 - 130.0				
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUM PHTOMETRY	12.58	U/L	0.00 - 55.0				
FOTAL PROTEINS by BIURET, SPECTRO		5.99 <sup>L</sup>	gm/dL	6.20 - 8.00				
ALBUMIN: SERUM by BROMOCRESOL G		4.08 gm/dL		3.50 - 5.50				
GLOBULIN: SERUN by CALCULATED, SPE		1.91 <sup>L</sup>	gm/dL	2.30 - 3.50				

A : G RATIO: SERUM  $2.14^{\mathrm{H}}$ 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





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RATIO

1.00 - 2.00

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

PRO	GI	NO	S1	Π	С	S	10	SΝ	IFI	0	;/	١	١C	:Е:

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





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	Value	Unit	<b>Biological Reference interva</b>	
KIDNEY	FUNCTION (	ON TEST (COMPLETI	E)	
	29.89	mg/dL	10.00 - 50.00	
ATE DEHYDROGENASE (GLDH)		e		
	1.03	mg/dL	0.40 - 1.20	
ROGEN (BUN): SERUM	13.97	mg/dL	7.0 - 25.0	
ROGEN (BUN)/CREATININE	13.56	RATIO	10.0 - 20.0	
	20.02	KR PATIO		
CTROPHOTOMETRY	29.02	KAIIO		
	3.6	mg/dL	2.50 - 6.80	
E PERUXIDASE	9.03	mg/dL	8.50 - 10.60	
CTROPHOTOMETRY				
	2.92	mg/dL	2.30 - 4.70	
ATE, SPECTROPHOTOMETRY				
	142.2	mmol/I	135.0 - 150.0	
E ELECTRODE)	142.2	IIIIIOI/L	155.0 - 150.0	
JM	4.93	mmol/L	3.50 - 5.00	
	106 65	mmol/I	90.0 - 110.0	
E ELECTRODE)	100.05	mmol/L	20.0 - 110.0	
MERULAR FILTERATION RAT	<u>E</u>			
IERULAR FILTERATION RATE	61.9			
een pre- and post renal azotemia.				
	: 61 YRS/FEMALE : : : : : 12507830 : P.K.R JAIN HEALTHCARE INSTIT : NASIRPUR, HISSAR ROAD, AMB/ <b>KIDNEY</b> ATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY ROGEN (BUN): SERUM CTROPHOTOMETERY ROGEN (BUN)/CREATININE CTROPHOTOMETRY E RATIO: SERUM CTROPHOTOMETRY E PEROXIDASE CTROPHOTOMETRY E PEROXIDASE CTROPHOTOMETRY E ELECTRODE) M E ELECTRODE) M E ELECTRODE) M E ELECTRODE) M E ELECTRODE) M E ELECTRODE) M E ELECTRODE) M E ELECTRODE M M E ELECTRODE M E	: 61 YRS/FEMALE : : : : : : : : : : : : :	:       9ATIENT ID         :       REG. NO./LAB NO.         :       REGISTRATION DATE         :       12507830       COLLECTION DATE         :       P.K.R JAIN HEALTHCARE INSTITUTE       REPORTING DATE         :       NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA         Image: Construction of the state o	

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.



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Test Name	Value	Unit	Biological Reference interval
2. Catabolic states wi	ith increased tissue breakdown.		

3. GI haemorrhage.

4. High protein intake.

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	





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NAME	: Mrs. SURINDER KUMAR		
AGE/ GENDER	: 61 YRS/FEMALE	PATIENT ID	: 1813601
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122504010003
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 01/Apr/2025 08:18 AM
BARCODE NO.	: 12507830	<b>COLLECTION DATE</b>	: 01/Apr/2025 08:26AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 01/Apr/2025 04:48PM
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



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYA	NA	
Test Name		Value	Unit	<b>Biological Reference interval</b>
		ENDOCRIN	NOLOGY	
	THYRO	DID FUNCTIO	ON TEST: TOTAL	
TRIIODOTHYRON by CMIA (CHEMILUMIN	INE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY	1.24	ng/mL	0.35 - 1.93
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM IESCENT MICROPARTICLE IMMUNOASSAY	8.78	µgm/dL	4.87 - 12.60
	ATING HORMONE (TSH): SERUN IESCENT MICROPARTICLE IMMUNOASSAY		µIU/mL	0.35 - 5.50

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	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 (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 (T	
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





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA		

Test Name			Value	Unit	ŧ	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 LI	EVELS 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



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARYANA		-
Test Name		Value	Unit	<b>Biological Reference interva</b>
	(	CLINICAL PATH	OLOGY	
	URINE ROU'	TINE & MICROSCO	OPIC EXAMI	NATION
PHYSICAL EXAM	INATION			
QUANTITY RECIE		10	ml	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
	TANCE SPECTROPHOTOMETRY			
TRANSPARANCY		CLEAR		CLEAR
by DIP STICK/REFLEC SPECIFIC GRAVIT	TANCE SPECTROPHOTOMETRY	1.02 PKR		1.002 - 1.030
	T STANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAN				
REACTION		ACIDIC		
-	TANCE SPECTROPHOTOMETRY			
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
pH		6.5		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	riegui /e		
NITRITE		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
UROBILINOGEN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	monnal	ĽU/uL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
•	TANCE SPECTROPHOTOMETRY	NT		
BLOOD by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
MICDOSCODIC F	XAMINATION			





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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELL	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve	e) /HPF	0 - 3
DUS CELLS		23	/HDE	0 5

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/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





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