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

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

NAME	: Mr. KANNAV JINDAL				
AGE/ GENDER	: 20 YRS/MALE		PATIENT ID	: 17583	92
COLLECTED BY	:		REG. NO./LAB NO.	: 1225	02150022
REFERRED BY	:		REGISTRATION DATE	: 15/Fel	o/2025 05:16 PM
BARCODE NO.	: 12507041		COLLECTION DATE	: 15/Fel	o/2025 09:16PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU		REPORTING DATE	: 15/Fel	o/2025 09:26PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HA	ARYANA		
Test Name		Value	Unit		Biological Reference interval
	SWASTI	HYA WI	ELLNESS PANEL: 1.	.5	
	СОМР	LETE BI	LOOD COUNT (CBC)		
RED BLOOD CELLS	(RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB))	15.5	gm/dL		12.0 - 17.0
RED BLOOD CELL (R by hydro dynamic fo	BC) COUNT CUSING, ELECTRICAL IMPEDENCE	5.09 ^H	Millions	cmm	3.50 - 5.00
PACKED CELL VOLU	ME (PCV) TOMATED HEMATOLOGY ANALYZER	45.2	%		40.0 - 54.0
MEAN CORPUSCULA by CALCULATED BY AU	R VOLUME (MCV) TOMATED HEMATOLOGY ANALYZER	88.8	KR fl		80.0 - 100.0
	R HAEMOGLOBIN (MCH) TOMATED HEMATOLOGY ANALYZER	30.4	pg		27.0 - 34.0
MEAN CORPUSCULA by calculated by au	R HEMOGLOBIN CONC. (MCHC) TOMATED HEMATOLOGY ANALYZER	34.3	g/dL		32.0 - 36.0
	TION WIDTH (RDW-CV)	14.7	%		11.00 - 16.00
	TION WIDTH (RDW-SD) TOMATED HEMATOLOGY ANALYZER	48.7	fL		35.0 - 56.0
MENTZERS INDEX by CALCULATED		17.45	RATIO		BETA THALASSEMIA TRAIT: < 13.0
					IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	EX	25.6	RATIO		BETA THALASSEMIA TRAIT:<= 65.0
by OALOOLATED					IRON DEFICIENCY ANEMIA: >
WHITE BLOOD CEL	LS (WBCS)				65.0
TOTAL LEUCOCYTE		7370	/cmm		4000 - 11000
NUCLEATED RED BL		NIL			0.00 - 20.00
NUCLEATED RED BL	OOD CELLS (nRBCS) %	NIL	%		< 10 %
-					



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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by SF cube & microscopy	55	%	50 - 70
LYMPHOCYTES by flow cytometry by SF cube & microscopy	35	%	20 - 40
EOSINOPHILS by flow cytometry by SF cube & microscopy	4	%	1 - 6
MONOCYTES by flow cytometry by SF cube & microscopy	6	%	2 - 12
BASOPHILS by flow cytometry by SF cube & microscopy	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy	4054	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	2580	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	295	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by flow cytometry by sf cube & microscopy	442	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by flow cytometry by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	362000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	0.34	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	10	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	80000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	22.3	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.9	%	15.0 - 17.0



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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.



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMH	BALA CITY - HARYAN	JA	
Test Name		Value	Unit	Biological Reference interval
	ERYTHRO	CYTE SEDIMEN	TATION RATE (ES	SR)
	DIMENTATION RATE (ESR) gation by capillary photometry	13	mm/1st hi	r 0 - 20
1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	ected by other conditions besides ir	flammation. For this	s reason, the ESR is typic	n associated with infection, cancer and auto ody or what is causing it. cally used in conjunction with other test suc
 This test may also systemic lupus eryth CONDITION WITH LO 	ematosus	y and response to the	erapy in both of the abc	ove diseases as well as some others, such as
(polycythaemia), sigr	n with conditions that inhibit the r hificantly high white blood cell cou le cell anaemia) also lower the ESF	nt (leucocytosis), ar	n of red blood cells, suc nd some protein abnorm	h as a high red blood cell count nalities. Some changes in red cell shape (su
1. ESR and C - reactiv 2. Generally, ESR doe	e protein (C-RP) are both markers o es not change as rapidly as does CR by as many other factors as is ESR,	P, either at the start	of inflammation or as it	t resolves.

aspirin, cortisone, and quinine may decrease it



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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NAME : Mr. KANNAV JINDAL **AGE/ GENDER** : 20 YRS/MALE **PATIENT ID** :1758392 **COLLECTED BY** REG. NO./LAB NO. : 122502150022 **REFERRED BY REGISTRATION DATE** :15/Feb/202505:16 PM **BARCODE NO.** :12507041 **COLLECTION DATE** :15/Feb/202509:16PM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE **REPORTING DATE** :15/Feb/202510:00PM **CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit **Biological Reference interval** Test Name **CLINICAL CHEMISTRY/BIOCHEMISTRY GLUCOSE FASTING (F)** 90.4 GLUCOSE FASTING (F): PLASMA NORMAL: < 100.0 mg/dL by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0INTERPRETATION 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	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TO' by CHOLESTEROL O		198.57	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	SERUM PHATE OXIDASE (ENZYMATIC)	135.33	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	58. <mark>28</mark>	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO	L: SERUM ECTROPHOTOMETRY	113.22	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	140.29 ^H	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	27.07	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF by CALCULATED, SPE	RUM ECTROPHOTOMETRY	532.47	mg/dL	350.00 - 700.00
CHOLESTEROL/HI by CALCULATED, SPE	DL RATIO: SERUM ECTROPHOTOMETRY	3.41	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0

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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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Test Name	Value	Unit	Biological Reference interval
LDL/HDL RATIO: SERUM by calculated, spectrophotometry	1.94	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.32 ^L	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

 Low hole to consider a structure of 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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Test Name		Value	Unit	Biological Reference interva
	LIVER	FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL by diazotization, si	: SERUM PECTROPHOTOMETRY	0.82	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	C (CONJUGATED): SERUM	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.66	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	24.8	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	52.4 ^H	KR U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.47	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	82.43	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM PHTOMETRY	85.68 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.85	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G	REEN	4.19	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE		2.66	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.58	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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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



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Test Name		Value	Unit	Biological Reference interval
	KIDNI	EY FUNCTI	ON TEST (COMPLETE))
UREA: SERUM by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)	32.95	mg/dL	10.00 - 50.00
CREATININE: SERU		0.95	mg/dL	0.40 - 1.40
BLOOD UREA NITR by CALCULATED, SPE	OGEN (BUN): SERUM CTROPHOTOMETRY	15.4	mg/dL	7.0 - 25.0
BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE	OGEN (BUN)/CREATININE	16.21	RATIO	10.0 - 20.0
UREA/CREATININI by CALCULATED, SPE	E RATIO: SERUM	34.68	RATIO	
URIC ACID: SERUM by URICASE - OXIDAS		6.44	mg/dL	3.60 - 7.70
CALCIUM: SERUM by ARSENAZO III, SPE	CTROPHOTOMETRY	9.3	mg/dL	8.50 - 10.60
	RUM ATE, SPECTROPHOTOMETRY	2.75	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVI	E ELECTRODE)	139.5	mmol/L	135.0 - 150.0
POTASSIUM: SERUN by ISE (ION SELECTIV	M	3.86	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIV	E ELECTRODE)	104.63	mmol/L	90.0 - 110.0
ESTIMATED GLOM	ERULAR FILTERATION RATE			
ESTIMATED GLOM	ERULAR FILTERATION RATE	117.5		

STIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM

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.



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Test Name	v	alue Unit	Biological Reference interval
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia			ithy).
 Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. 	e. ecreased urea synthesis. (urea rather than creatinine diffuses out		
DECREASED RATIO (<	nmonemias (urea is virtually absent in blo of inappropiate antidiuretic harmone) du 10:1) WITH INCREASED CREATININE:		

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 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	



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





A PIONEER DIAGNOSTIC CENTRE

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NAME	: Mr. KANNAV JINDAL		
AGE/ GENDER	: 20 YRS/MALE	PATIENT ID	: 1758392
COLLECTED BY	:	REG. NO./LAB NO.	: 122502150022
REFERRED BY	:	REGISTRATION DATE	: 15/Feb/2025 05:16 PM
BARCODE NO.	: 12507041	COLLECTION DATE	: 15/Feb/2025 09:16PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 15/Feb/2025 10:44PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - H	IARYANA	

Test Name	Value	Unit	Biological Reference interval

COMMENTS:

1. Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

3. In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill the criteria for CKD, in the absence of evidence of Kidney Damage 5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure 6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C 7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE Re i	PORTING DATE :	15/Feb/2025 10:48PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
		IRON PR	OFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	173.7 ^H	μg/dL	59.0 - 158.0
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	180.46	μg/dL	150.0 - 336.0
TOTAL IRON BINDING CAPACITY (TIBC)		354.16	μg/dL	230 - 430

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

%

IRON DEFICIENCY ANEMIA

Reduced

Increased

Decreased < 12-15 %

Decreased

mg/dL

15.0 - 50.0

200.0 - 350.0

THALASSEMIA α/β TRAIT

Normal

Normal

Normal

Normal or Increased

49.05

251.45

2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.

TOTAL IRON BINDING CAPACITY (TIBC):

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

ANEMIA OF CHRONIC DISEASE

Normal to Reduced

Decreased

Decreased

Normal to Increased

% TRANSFERRIN SATURATION:

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



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:SERUM

by SPECTROPHOTOMETERY

TRANSFERRIN: SERUM

INTERPRETATION:-

%TRANSFERRIN SATURATION: SERUM

by SPECTROPHOTOMETERY (FERENE)

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

SERUM FERRITIN:

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

NOT VALID FOR MEDICO LEGAL PURPOSE





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			A.	
Test Name		Value	Unit	Biological Reference interval
Test Name				Biological Reference interval
Test Name		Value ENDOCRIN		Biological Reference interval
Test Name	THYRO	ENDOCRIN		Biological Reference interval
TRIIODOTHYRONII		ENDOCRIN	OLOGY	Biological Reference interval 0.35 - 1.93
TRIIODOTHYRONII by CMIA (CHEMILUMIN THYROXINE (T4): S	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRING	OLOGY N TEST: TOTAL	U
TRIIODOTHYRONIN by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRINO DID FUNCTION 0.957	OLOGY N TEST: TOTAL ng/mL	0.35 - 1.93
TRIIODOTHYRONIN by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) ERUM ESCENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	ENDOCRIN DID FUNCTION 0.957 8.35	OLOGY N TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60

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.

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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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Test Name		Value	Unit Biological		Biological Reference interval	
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 PREG	NANCY (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, AMBALA CITY -	HARYANA		
Test Name	Value	Unit	Biological Reference interval	
	TESTOS	TERONE: TOTAL		
NTERPRETATION: 1.Testosterone is seci 2.In males it is secrete estosterone is in the	OTAL: SERUM 5.31 ESCENT MICROPARTICLE IMMUNOASSAY) reted in females by the ovary and formed indir ed by the testes. It circulates in blood bound la free form.	ng/mL ectly from androstenedione ir rgely to sex hormone binding	globulin (SHBG). Less than 1% of the total	
by CMIA (CHEMILUMIN <u>NTERPRETATION:</u> 1. Testosterone is seci- estosterone is in the 3. The bioavailable fra- and bound to cortisol 4. The total testosteroc CLINIC USE: 1. Assesment of testic 2. Management of hir NCREASED LEVELS:	OTAL: SERUM ESCENT MICROPARTICLE IMMUNOASSAY) Teted in females by the ovary and formed indir ed by the testes. It circulates in blood bound la free form. ction includes the free form and that "weakly H binding globulin (CBG). It is the most potent of ne bound to SHBG fluctuates since SHBG leve ular functions in males sutism and virilization in females	ng/mL ectly from androstenedione ir rgely to sex hormone binding pound" to albumin (40% of the	n adrenal glands. globulin (SHBG). Less than 1% of the total	
by CMIA (CHEMILUMIN <u>NTERPRETATION:</u> 1. Testosterone is seci- 2. In males it is secretary estosterone is in the 3. The bioavailable fra- and bound to cortisol 4. The total testosteroc CLINIC USE: 1. Assesment of testic	5.31 ESCENT MICROPARTICLE IMMUNOASSAY) reted in females by the ovary and formed indir ed by the testes. It circulates in blood bound la free form. ction includes the free form and that "weakly H binding globulin (CBG). It is the most potent of ine bound to SHBG fluctuates since SHBG leve ular functions in males sutism and virilization in females (Males) e Hyperplasia disease	ng/mL ectly from androstenedione ir rgely to sex hormone binding pound" to albumin (40% of the	n adrenal glands. globulin (SHBG). Less than 1% of the total	





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interva
		VITAMINS		
	VITAMIN	D/25 HYDROXY	VITAMIN D	3
	DROXY VITAMIN D3): SERUM escence immunoassay)	20.6 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION				TOAICITT: > 100.0

<u>NTERPRETATION:</u>					
DEFICIENT:	< 20	ng/mL			
INSUFFICIENT:	21 - 29	ng/mL			
PREFFERED RANGE:	30 - 100	ng/mL			
INTOXICATION:	> 100	ng/mL			

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults.

DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease)

3. Depressed Hepatic Vitamin D 25- hydroxylase activity

4.Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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Test Name	ALAMINI SEDUM	Value VITAMIN B12/0		Biological Reference interva	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:-	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/(125 ^L	C OBALAMIN pg/mL	190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS	ESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/0 125 ^L	COBALAMIN	190.0 - 890.0	
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS _1.Ingestion of Vitan	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 hin C	VITAMIN B12/ 125 ^L SAY)	COBALAMIN pg/mL DECREASED VITAMIN E	190.0 - 890.0 812	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12	VITAMIN B12/ 125 ^L SAY) 1.Pregnancy 2.DRUGS:Asp	COBALAMIN pg/mL DECREASED VITAMIN E	190.0 - 890.0 812	
VITAMIN B12/COE by CMIA (CHEMILUMIN <u>INTERPRETATION:-</u> INCREAS _1.Ingestion of Vitan	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A	VITAMIN B12/(125 ^L SAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	COBALAMIN pg/mL DECREASED VITAMIN E	190.0 - 890.0 812	
VITAMIN B12/COE by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	ESCENT MICROPARTICLE IMMUNOAS ED VITAMIN B12 nin C gen nin A jury	VITAMIN B12/(125 ^L SAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	COBALAMIN pg/mL DECREASED VITAMIN E pirin, Anti-convulsants, C stion tive Harmones	190.0 - 890.0 812	

3. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted

4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eq, gastrectomy, gastric atrophy) or intestinal malabsorption (eq, ileal resection, small intestinal diseases).

5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. NOTE: A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IBALA CITY - HARYANA		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
	URINE RO	UTINE & MICROSCO	PIC EXAMINA	ATION
PHYSICAL EXAMIN	NATION			
QUANTITY RECIEV	ED tance spectrophotometry	10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	PALE YELLOW		PALE YELLOW
TRANSPARANCY		CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02 PK R		1.002 - 1.030
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			1000 1000
CHEMICAL EXAMI	<u>NATION</u>			
REACTION by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	<=5.0		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
MICROSCOPIC EXA	MINATION			
RED BLOOD CELLS	(RBCs)	NEGATIVE (-ve)	/HPF	0 - 3



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NOT VALID FOR MEDICO LEGAL PURPOSE



A PIONEER DIAGNOSTIC CENTRE

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

: Mr. KANNAV JINDAL		
: 20 YRS/MALE	PATIENT ID	: 1758392
:	REG. NO./LAB NO.	: 122502150022
:	REGISTRATION DATE	: 15/Feb/2025 05:16 PM
: 12507041	COLLECTION DATE	: 15/Feb/2025 09:16PM
: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	: 15/Feb/2025 10:07PM
: NASIRPUR, HISSAR ROAD, AMBALA CITY - 1	HARYANA	
Value	Unit	Biological Reference interval
	: 20 YRS/MALE : : : 12507041 : P.K.R JAIN HEALTHCARE INSTITUTE : NASIRPUR, HISSAR ROAD, AMBALA CITY - 1	 20 YRS/MALE 20 YRS/MALE REG. NO./LAB NO. REGISTRATION DATE 12507041 COLLECTION DATE P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
PUS CELLS	2-3	/HPF	0 - 5
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS	1-2	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			

*** End Of Report



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

