

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

A PIONEER DIAGNOSTIC CENTRE

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

NAME	: Mrs. NISHITA				
AGE/ GENDER	DER : 18 MONTH(S)/FEMALE		PATIENT ID	: 1636011	
COLLECTED BY	:		REG. NO./LAB NO.	: 122410060008	
REFERRED BY	: : 12505056 : P.K.R JAIN HEALTHCARE INSTITUTE		REGISTRATION DATE	: 06/Oct/2024 10:57 AM : 06/Oct/2024 11:30AM	
BARCODE NO.			COLLECTION DATE		
CLIENT CODE.			REPORTING DATE	:06/Oct/2024 06:05PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA				
Test Name		Value	Unit	Biological Reference interval	
		HAEN	/IATOLOGY		
	CON	IPLETE BI	LOOD COUNT (CBC)		
RED BLOOD CELLS (R	BCS) COUNT AND INDICES				
HAEMOGLOBIN (HB)		6.6 ^L	gm/dL	12.0 - 16.0	
RED BLOOD CELL (RE		4	Millions/cr	nm 3.50 - 5.50	
PACKED CELL VOLUN		21.8 ^L	%	35.0 - 49.0	
MEAN CORPUSCULA		54.5 ^L	KR fl	80.0 - 100.0	
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH)	16.4 ^L	pg	27.0 - 34.0	
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R HEMOGLOBIN CONC. (MCHC)	30.1 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBUT	AUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	22.3 ^H	%	11.00 - 16.00	
RED CELL DISTRIBUT	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	47.1	fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED	UTOMATED TEMATOLOGT ANALIZER	13.63	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0	
GREEN & KING INDE	Х	30.2	RATIO	BETA THALASSEMIA TRAIT:<= 65 IRON DEFICIENCY ANEMIA: > 65.	
WHITE BLOOD CELLS	<u>S (WBCS)</u>			intervel intervel interview. > 03.	
TOTAL LEUCOCYTE C by FLOW CYTOMETRY DIFFERENTIAL LEUCO	Y BY SF CUBE & MICROSCOPY	12200	/cmm	5000 - 15000	
NEUTROPHILS	/ BY SF CUBE & MICROSCOPY	52	%	50 - 70	
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	37	%	20 - 45	
EOSINOPHILS	BY SF CUBE & MICROSCOPY	2	%	1 - 6	



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.)**



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HAR		ARYANA		
Test Name		Value	Unit	Biological Reference interval	
	/ BY SF CUBE & MICROSCOPY	9	%	3 - 12	
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1	
ABSOLUTE NEUTROF	PHIL COUNT	6344	/cmm	2000 - 7500	
ABSOLUTE LYMPHO	/ BY SF CUBE & MICROSCOPY CYTE COUNT / BY SF CUBE & MICROSCOPY	4514 ^L	/cmm	800 - 4900	
ABSOLUTE EOSINOP		244	/cmm	40 - 440	
ABSOLUTE MONOCY		1098 ^H	KR /cmm	80 - 880	
ABSOLUTE BASOPHII	COUNT BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110	
	IER PLATELET PREDICTIVE MARKEI				
PLATELET COUNT (PL by HYDRO DYNAMIC I	.T) FOCUSING, ELECTRICAL IMPEDENCE	857000 ^H	/cmm	150000 - 450000	
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.62 ^H	%	0.10 - 0.36	
MEAN PLATELET VOI		7	fL	6.50 - 12.0	
PLATELET LARGE CEL		91000 ^H	/cmm	30000 - 90000	
PLATELET LARGE CEL	-	10.6 ^L	%	11.0 - 45.0	
PLATELET DISTRIBUT by HYDRO DYNAMIC F		15	%	15.0 - 17.0	





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	STITUTE REPORTING DATE		:06/Oct/2024 05:36PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	IASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA			
Test Name		Value	Unit	Biological Reference interval	
				,	
	CLINI	CAL CHEIVIIS	STRY/BIOCHEMISTRY	ſ	
		IRON	I PROFILE		
IRON: SERUM 6		68.2	μg/dL	37.0 - 145.0	
by FERROZINE, SPECTROPHOTOMETRY		054.00			
UNSATURATED IRON BINDING CAPACITY (UIBC)		256.28	μg/dL	150.0 - 336.0	
by FERROZINE, SPEC	TROPHOTOMETERY				
		324.48	μg/dL	230 - 430	
:SERUM					
by SPECTROPHOTOMETERY		21.02		15.0.50.0	
%TRANSFERRIN SATURATION: SERUM 21.02 by CALCULATED, SPECTROPHOTOMETERY (FERENE)		21.02	%	15.0 - 50.0	
		230.38	mg/dL	200.0 - 350.0	
by SPECTROPHOTOMETERY (FERENE)		200.00	iiig/ dE		
INTERPRETATION -					

INTERPRETATION:-

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT	
SERUM IRON:	Normal to Reduced	Reduced	Normal	
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal	
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal	
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased	

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.

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 BÍNDING CAPACITY (TÍBC):

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

% 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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA		
Test Name	Value	e Unit	Biological Reference interval
		VITAMINS	
	VITAMIN D/2	25 HYDROXY VITAMIN D3	
•	ROXY VITAMIN D3): SERUM 36.07 SECENCE IMMUNOASSAY)	1 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0

INTERFRETATION.		
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.

*** End Of Report ***



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TOXICITY: > 100.0