



Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F

: Baby. ANANYA

ic Lab ealthcare)	EXCELLENCE IN HEALTHCARE	
iology) Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
REC	TIENT ID 5. NO./LAB NO. SISTRATION DATE	: 1582331 : 012408160045 : 16/Aug/2024 02:0

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	5					
AGE/ GENDER: 1 YRS/FEMALECOLLECTED BY:REFERRED BY:		P	ATIENT ID	: 1582331		
		REG. NO./LAB NO.		: 012408160045		
		R	EGISTRATION DATE	: 16/Aug/2024 02:02 PM		
BARCODE NO.	:01515164	C	OLLECTION DATE	: 16/Aug/2024 02:10PM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 16/Aug/2024 03:26PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 10/ Hug/ 202 1 00.201 M		
CLIENT ADDRESS	. 0343/ 1, MCHOLSON ROAD, A	WIDALA CANTT				
Test Name		Value	Unit	Biological Reference interval		
	CLINIC	AL CHEMIST	RY/BIOCHEMISTR	Y		
	LIV	ER FUNCTION	TEST (COMPLETE)			
BILIRUBIN TOTAL: S		0.39	mg/dL	INFANT: 0.20 - 8.00		
	PECTROPHOTOMETRY	0.07	ing/ de	ADULT: 0.00 - 1.20		
BILIRUBIN DIRECT (0	CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40		
by DIAZO MODIFIED, SPECTROPHOTOMETRY						
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM		0.28	mg/dL	0.10 - 1.00		
by CALCULATED, SPECTROPHOTOMETRY		35.1	U/L	7.00 - 45.00		
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE		55.1	U/L	7.00 - 45.00		
SGPT/ALT: SERUM		26.2	U/L	0.00 - 49.00		
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE						
AST/ALT RATIO: SER		1.34	RATIO	0.00 - 46.00		
by CALCULATED, SPE ALKALINE PHOSPHA		238.81	U/L	50.00 - 370.00		
	YL PHOSPHATASE BY AMINO METHYL	200.01	0/1	30.00 370.00		
PROPANOL						
	TRANSFERASE (GGT): SERUM	10.1	U/L	0.00 - 55.0		
by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM		6.43	gm/dL	6.20 - 8.00		
by BIURET, SPECTRO		0.10	grii/ dL	0.20 0.00		
ALBUMIN: SERUM		4.26	gm/dL	3.50 - 5.50		
by BROMOCRESOL G	REEN					
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.17 ^L	gm/dL	2.30 - 3.50		
by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM		1.96	RATIO	1.00 - 2.00		
by CALCULATED, SPECTROPHOTOMETRY			1	1.00 2.00		

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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

NAME





	Dr. Vinay Ch MD (Pathology & Chairman & Con	Microbiology)		(Pathology)
NAME	: Baby. ANANYA			
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Test Name		Value	Unit	Biological Reference interval
INTRAHEPATIC CHOI	ESTATIS		> 1.5	
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)

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). **PROGNOSTIC SIGNIFICANCE:**

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

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mg/dL

200.0 - 350.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	Unit	Biological Reference interval	
		value	Offic	biological Reference interval	
		IRON PRO	FILE		
IRON: SERUM		46.6	μg/dL	37.0 - 145.0	
UNSATURATED IRON BINDING CAPACITY (UIBC) SERUM		270.85	μg/dL	150.0 - 336.0	
TOTAL IRON BINDIN SERUM by SPECTROPHOTON	IG CAPACITY (TIBC)	317.45	µg/dL	230 - 430	
%TRANSFERRIN SATURATION: SERUM		14.68 ^L	%	15.0 - 50.0	

TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE)

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

INTERPRETATION:-

		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

225.39

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 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.

% 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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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interva	I
	VI		AMINS YDROXY VITAMIN D3		
	ROXY VITAMIN D3): SERUM Nescence Immunoassay)	6.4 ^L	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
NTERPRETATION:					
	CIENT: FICIENT:	< 20 21 - 29		ng/mL ng/mL	
	ED RANGE:	30 - 100		ng/mL	
2.25-OHVitamin D r tissue and tightly bou 3. Vitamin D plays a p boosphate reabsorpt 4. Severe deficiency n DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondarv to advar 5. Osteoporosis and S 5. Enzyme Inducing dr INCREASED: 1. Hypervitaminosis I severe hypercalcemia CAUTION: Replaceme hypervitaminosis D	und by a transport protein while rimary role in the maintenance ion, skeletal calcium deposition nay lead to failure to mineralize posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase activ need Liver disease econdary Hyperparathroidism (f rugs: anti-epileptic drugs like ph D is Rare, and is seen only after p a and hyperphophatemia. int therapy in deficient individual individuals as compare to whites,	ir and transport for a in circulation. of calcium homeon , calcium mobiliza newly formed ost ity Mild to Moderate enytoin, phenoba prolonged exposu	orm of Vitamin D and tran ostatis. It promotes calciu ation, mainly regulated by teoid in bone, resulting in deficiency) rbital and carbamazepine re to extremely high doses pred by periodic assessme	sport form of Vitamin D, being stored in ad m absorption, renal calcium absorption an parathyroid harmone (PTH). rickets in children and osteomalacia in adu , that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result ent of Vitamin D levels in order to prevent <i>iciency due to excess of melanin pigment whi</i>	id ilts.





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			KIING DAIL	. 10/ Aug/ 2024 03:42F M	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTI			
Test Name		Value	Unit	Biological Reference interval	
VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:-	LAMIN: SERUM NESCENT MICROPARTICLE IMMUNOAS	434 SSAY)	pg/mL	190.0 - 890.0	
	SED VITAMIN B12		DECREASED VITAMIN	N B12	
1.Ingestion of Vitan		1.Pregnancy			
2.Ingestion of Estro		2.DRUGS:Aspir	in, Anti-convulsants	n, Anti-convulsants, Colchicine	
3.Ingestion of Vitamin A 3.Ethanol Igestion					
4.Hepatocellular in		4. Contraceptive Harmones			
			5.Haemodialysis		
6.Uremia		6. Multiple Myeloma			
2.In humans, it is ob 3.The body uses its v excreted.		and requires intrinsic f ally, reabsorbing vitami	actor (IF) for absorp n B12 from the ileun	n and returning it to the liver; very little is	
ileal resection, smal	l intestinal diseases).			astric atrophy) or intestinal malabsorption (e weakness, hyperreflexia, ataxia, loss of	

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.

*** End Of Report ***





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