

C1-C2/17A, NEAR NIHARIKA TALKIES KORBA- 495677 PH-09228333 MOBILE-9300888178

NAME : MRS SUSHILA SONI 61 Years / Female Reg No. : 20762

Ref. By : . SELF Reg. Date : 21/08/2022 12:58PM

Address : KOSABADI KORBA Collected At : MedZone Center

INVESTIGATION REPORT

CLINICAL BIOCHEMISTRY

TEST RESULT UNIT BIOLOGICAL REF RANGE TEST METHOD

Vitamin - B12 (Cyanocobalamin)

Sample Type : SERUM

Vitamin - B12 (Cyanocobalamin) : >2000 . pg/mL 110 - 800

Please rule out recent Vitamin B12 medication.

Roche E411 (ECL)

Fully Automated

Please corelate clinically.

Nutritional and macrocytic anemias can be caused by a deficiency of vitamin B12. This deficiency can result from diets devoid of meat structural/functional alcoholism, or from damage to digestive absorptive the major cause of this deficiency through pancreatic deficiency, Malabsorption is gastric intestinal vitamin B12 binding protein (intrinsic factor), production of necessary for normal metabolism, DNA synthesis and will anemia and vitamin B12 deficiency results in deficiencies lead to megaloblastic irreversible central B12 or folate are both of diagnostic importance for the recognition of vitamin B12 or context of the differential diagnosis of megaloblastic anemia. Radioassays were first reported All utilize co-cyanocobalamin radiolabeled tracers and intrinsic factor for binding vitamin B12. The various bound separation techniques and choice of specimen pretreatment. The (transcobalamins including R-protein) and of immunoglobulins directed that specimens are either boiled or treated at an alkaline pH to release the vitamin B12 and destroy the binding proteins. using serum binding proteins or partially purified intrinsic factor measured levels of vitamin B12 which those determined by microbiological methods. This was caused by the presence of the serum binding protein or R-proteins in the assay. R-protein specificity is poor compared to that of intrinsic factor and vitamin B12 analogs were being measured in addition to vitamin B12 itself. Since that time, recommendations have been established for the use of highly purified intrinsic factor throughout the industry. Roche Cobas Vitamin B12 employs a competitive test principle using intrinsic factor specific for vitamin B12. Vitamin B12 in the sample competes with the added vitamin B12 labeled with biotin for the binding sites on the ruthenium-labeled intrinsic factor complex**.

METHOD: ELECTRO CHEMILUMINESCENCE ASSAY

INSTRUMENT: ROCHE COBAS e411



C1-C2/17A, NEAR NIHARIKA TALKIES KORBA- 495677 PH-09228333 MOBILE-9300888178

NAME : MRS SUSHILA SONI 61 Years / Female Reg No. : 20762

Ref. By : . SELF Reg. Date : 21/08/2022 12:58PM

Address : KOSABADI KORBA Collected At : MedZone Center

INVESTIGATION REPORT

CLINICAL BIOCHEMISTRY

<u>TEST</u>	RESULT	<u>UNIT</u>	BIOLOGICAL REF RANGE	TEST METHOD
LFT (Liver Function Test)				
Sample Type	: SERUM			
Bilirubin Total	: 0.72	mg/dl	Adults : 0.1 - 1.2 New born : 0.1 - 12.6	Diazoted Sulfanilic
Bilirubin Direct	: 0.35	mg/dl	Upto 0.4	Diazoted Sulfanilic
Bilirubin Indirect	: 0.37	mg/dl	0.3 - 1.0	
Aspartate Amino Transferase (SGOT)	: 19.3	U/L	Upto 41	IFCC without pyridoxal phosphate
Alanine Amino Transferase (SGPT)	: 15.0	U/L	Upto 40	IFCC without pyridoxal phosphate
Alkaline Phosphatase	: 113.2	U/L	1 month to 9 yrs : 82 - 383 10 yrs to 15 yrs : 42 - 390 16 yrs to 18 yrs : 52 - 171 Adults : 53 - 141	Diethanolamine buffer
Serum Protein	: 7.5	gm/dl	6.0 - 8.3	Biuret
Serum Albumin	: 4.6	gm/dl	3.5 - 5.2	Bromocresol green
Serum Globulin	: 2.9	gm/dl	2.5 - 3.5	
Alb/Glo Ratio	: 1.59		1-2	

LFT: Liver Function tests are a measurement of blood components that provide a lead to the existence, the extent and the type of liver damage.

BILIRUBIN: Bilirubin levels may rise due to hemolysis, failure of conjugating mechanism in the liver, obstruction in the biliary system.

ALKALINE PHOSPHATASE: *Increase in ALP activity is an index of cholestasis, a blockage of bile flow. *Increase may also occur in infiltrative diseases of the liver and cirrhosis

TRANSAMINASES (AST & ALT): *The serum transaminases activities are a measure of the integrity of liver cells. *They are elevated in acute damage to hepatocytes irrespective of etiology. *The causes include – hepatitis, toxic injury, drug overdose, shock, severe hypoxia.

SERUM TOTAL PROTEINS: A decrease in serum total proteins indicates a decrease in the liver's synthetic capacity and thus indicates the severity of the liver disease.

METHOD: Spectrophotometry

INSTRUMENT: BS-400 Fully Automated Chemistry Analyser



C1-C2/17A, NEAR NIHARIKA TALKIES KORBA- 495677 PH-09228333 MOBILE-9300888178

NAME : MRS SUSHILA SONI 61 Years / Female Reg No. : 20762

Ref. By : . SELF Reg. Date : 21/08/2022 12:58PM

Address : KOSABADI KORBA Collected At : MedZone Center

INVESTIGATION REPORT

CLINICAL BIOCHEMISTRY

<u>TEST</u>	RESULT	<u>UNIT</u>	BIOLOGICAL RI	EF RANGE	TEST METHOD
25 Hydroxy Vitamin D3					
Sample Type	: SERUM				
25 Hydroxy Vitamin D3	: 33.47	ng/ml	< 06 : Deficiency 06 - 20 : Insu > 30 : Sufficiency > 100 : Toxicity	ıfficiency	Fully Automated Roche E411 (ECL)

Vitamin D is a fat-soluble steroid hormone precursor that is mainly produced in the skin by exposure to sunlight or it is supplied via dietary sources (mainly egg yolk, fish oil and plants). Vitamin D is biologically inert and must undergo two successive hydroxylations in the liver and kidney to become the biologically active 1,25 dihydroxyvitamin D. The two most important forms of vitamin D are vitamin D3 (cholecalciferol) and vitamin D2 (ergocalciferol). In contrast to vitamin D3, vitamin D2 has to be taken up with food. In the human body vitamin D3 and D2 are bound to vitamin D-binding protein in plasma and transported to the liver where both are hydroxylated in position 25 forming 25-OH vitamin D. 25-OH vitamin D is the metabolite that should be measured in blood to determine the overall vitamin D status because it is the major storage form of vitamin D in the human body. This primary circulating form of vitamin D is biologically inactive with levels approximately 1000-fold greater than the circulating 1,25 (OH)2 vitamin D. The half life of circulating 25-OH vitamin D is 2-3 weeks. More than 95% of 25-OH vitamin D, measurable in serum, is 25-OH vitamin D3 whereas 25-OH vitamin D2 reaches measurable levels only in patients taking vitamin D2 supplements. Vitamin D deficiency is a common cause of secondary hyperparathyroidism. Elevations of PTH levels, especially in elderly vitamin D deficient adults can result in osteomalacia, increased bone turnover, reduced bone mass and risk of bone fractures. Low 25-OH vitamin D concentrations are also associated with lower bone mineral density. In conjunction with other clinical data, the results may be used as an aid in the assessment of bone metabolism. The Roche Cobas Vitamin D3 (25-OH) assay employs a polyclonal antibody directed against vitamin D3.

--- End Of Report ---

Sample Registered On : 21/08/2022 12:58PM

Sample Received On : 21/08/2022 01:22PM

Report Released On : 21/08/2022 04:45PM

Sample Barcode:

Home Collection

Checked By:tulesh

Dr. VANDANA CHANDANI



C1-C2/17A, NEAR NIHARIKA TALKIES **KORBA-495677** PH-09228333 MOBILE-9300888178

NAME : MRS SUSHILA SONI Years / Female Reg No. : 20762

Ref. By :. SELF Reg. Date : 21/08/2022 12:58PM

Address : KOSABADI KORBA Collected At: MedZone Center

INVESTIGATION REPORT

HAEMATOLOGY

<u>TEST</u>	RESULT	<u>UNIT</u>	BIOLOGICAL REF RANGE	TEST METHOD
CBP (Complete Blood Picture)				
Sample Type	: WB - EDTA			
Haemoglobin	: 11.7	gm%	11.5 - 16.0	
Total Erythrocyte Count	: 4.54	M/cmm	4.0 - 6.2	Cell Counter
Hemotocrit (PCV)	: 37.3	Vol %	35.0 - 50.0	
Mean Corpuscular Volume	: 82.2	fL	80 - 100	
Mean Corpuscular Hemoglobin	: 25.8	PG	26 - 34	
MCHC	: 31.4	g/L	31 - 35	
RDW	: 13.9	%	11.5 - 14.5	
Total Leucocyte Count.	: 6770	/cumm	4000 - 11000	
DIFFERENTIAL COUNT:				
Neutrophils	: 58	%	40 - 75	
Lymphocytes.	: 33	%	20 - 40	Cell Counter
Monocytes.	: 05	%	2 - 10	Cell Counter
Eosinophils	: 04	%	1 - 6	Cell Counter
Basophils	: 0	%	0 - 1	Cell Counter
Platelet Count	: 194000	/cmm	150000 - 450000	

ESR (Erythrocyte Sedimentation Rate)

: PLASMA -Na Citrate Sample Type

Sedimentation me ESR (Erythrocyte Sedimentation Rate) mm/hr 0 - 20:1st Hour : 16

--- End Of Report ---

: 21/08/2022 12:58PM Sample Registered On

: 21/08/2022 01:22PM Sample Received On

: 21/08/2022 04:45PM Report Released On

Sample Barcode:

Home Collection

Checked By:tulesh

Dr. VANDANA CHANDANI