

A PIONEER DIAGNOSTIC CENTRE

NAME	: Miss. MEHAK MEHNDIRATTA		
AGE/ GENDER	: 16 YRS/FEMALE	PATIENT ID	: 1550625
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 122407160013
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 16/Jul/2024 11:26 AM
BARCODE NO.	: 12503626	<b>COLLECTION DATE</b>	: 16/Jul/2024 11:28AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 16/Jul/2024 04:33PM
CLIENT ADDRES	<b>S</b> : NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	

# HAEMATOLOGY

#### PERIPHERAL BLOOD SMEAR

## TEST NAME:

#### PERIPHERAL BLOOD FILM/SMEAR (PBF)

# RED BLOOD CELLS (RBC'S)

Mild anisocytosis with a few microcytes.Some cells reveal mild hypochromia.No polychromatic cells or normoblastic activity evident.

### WHITE BLOOD CELLS (WBC'S)

No immature leucocytes seen.

#### PLATELETS:

Platelets appear adequate on smear.

# HEMOPARASITES:

NOT SEEN.

#### **IMPRESSION:**

Mild microcytic hypochromic picture.



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

NOT VALID FOR MEDICO LEGAL PURPOSE



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

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CLIENT ADDRESS				. 10/ Jul/ 2024 12.301	VI
LIENI ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	ALA ULI I - HA	IKIANA		
Test Name		Value	Unit	Biological Re	eference interval
		ENDO	RINOLOGY		
THYROID STIMULATI	THYROI NG HORMONE (TSH): SERUM		RINOLOGY TING HORMONE (TSH) μιυ/mL	) 0.50 - 5.50	
by CMIA (CHEMILUMIN rd GENERATION, ULTI	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA'	<b>D STIMUL</b> 1.827	TING HORMONE (TSH)		
by CMIA (CHEMILUMIN Brd GENERATION, ULTI	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA'	<b>D STIMUL</b> 1.827	TING HORMONE (TSH)	0.50 - 5.50	I
by CMIA (CHEMILUMIN Brd GENERATION, ULTI	NG HORMONE (TSH): SERUM escent microparticle immunoassa' rasensittve	<b>D STIMUL</b> 1.827	t <b>ING HORMONE (TSH)</b> µIU/mL	0.50 - 5.50 (μIU/mL)	
by CMIA (CHEMILUMIN. Brd GENERATION, ULTI <u>NTERPRETATION:</u>	NG HORMONE (TSH): SERUM escent microparticle immunoassa rasensittve AGE	<b>D STIMUL</b> 1.827	TING HORMONE (TSH) μIU/mL REFFERENCE RANGE (	0.50 - 5.50 (μΙU/mL)	
by CMIA (CHEMILUMIN. Brd GENERATION, ULTI <u>NTERPRETATION:</u>	NG HORMONE (TSH): SERUM escent microparticle immunoassa rasensitive AGE 0 – 5 days	<b>D STIMUL</b> 1.827	TING HORMONE (TSH) μIU/mL REFFERENCE RANGE ( 0.70 – 15.20	0.50 - 5.50 (μΙU/mL)	
by CMIA (CHEMILUMIN. Brd GENERATION, ULTI INTERPRETATION:	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	<b>D STIMUL</b> 1.827	TING HORMONE (TSH) μIU/mL REFFERENCE RANGE ( 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00	0.50 - 5.50 (μΙU/mL)	
by CMIA (CHEMILUMIN. Brd GENERATION, ULTI INTERPRETATION:	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	<b>D STIMUL</b> 1.827	TING HORMONE (TSH) μIU/mL REFFERENCE RANGE ( 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50	0.50 - 5.50 (µU/mL)	
by CMIA (CHEMILUMIN. Brd GENERATION, ULTI INTERPRETATION:	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	<b>D STIMUL</b> 1.827	REFFERENCE RANGE (   0.70 – 15.20   0.70 – 11.00   0.70 – 8.40   0.70 – 7.00   0.60 – 5.50   0.50 – 5.50	0.50 - 5.50 (μΙU/mL)	
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by CMIA (CHEMILUMIN. Brd GENERATION, ULTI INTERPRETATION:	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15 > 20 Years (Adults)	D STIMULA 1.827 1.827	REFFERENCE RANGE (   0.70 – 15.20   0.70 – 11.00   0.70 – 8.40   0.70 – 7.00   0.60 – 5.50   0.50 – 5.50	0.50 - 5.50	

1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis.

4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.

5. Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

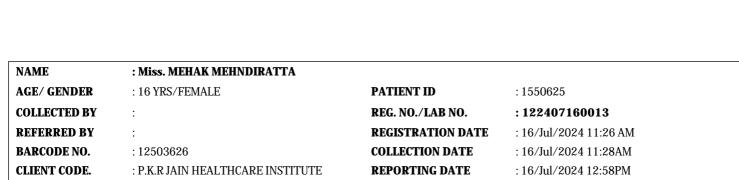


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CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

Test Name Value Unit Biological Reference interval

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

#### LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.





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Test Name		Value	Unit	Biological Reference interval
		VI	TAMINS	
		VITAMIN D/25 H	HYDROXY VITAMIN D3	
	ROXY VITAMIN D3): S rescence immunoass,		ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:				
DEFIC	IENT: ICIENT:	< 20 21 - 29		ng/mL ng/mL
PREFFERE		30 - 100		ig/mL
issue and tightly bou 3. Vitamin D plays a pi obosphate reabsorpti 4. Severe deficiency m <b>DECREASED:</b> 1. Lack of sunshine exit 2. Inadequate intake, 3. Depressed Hepatic 1 4. Secondary to advan 5. Osteoporosis and Se 6. Enzyme Inducing dr <b>NCREASED:</b> 1. Hypervitaminosis D	nd by a transport pro rimary role in the mai on, skeletal calcium d hay lead to failure to n posure. malabsorption (celiac Vitamin D 25- hydroxy ced Liver disease econdary Hyperparath ugs: anti-epileptic dru v is Rare, and is seen o and hyperphophatem	tein while in circulation. ntenance of calcium home eposition, calcium mobiliz nineralize newly formed o disease) vlase activity proidism (Mild to Moderat gs like phenytoin, phenob nly after prolonged expos nia.	eostatis. It promotes calciur zation, mainly regulated by steoid in bone, resulting in i e deficiency) parbital and carbamazepine, ure to extremely high doses	sport form of Vitamin D, being stored in adipos m absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. s of Vitamin D. When it occurs, it can result in nt of Vitamin D levels in order to prevent



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



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Test Name		Value	Unit	Biological Reference interva
/11 AIV/IIN B12/(.0BA)	I AMIN' SERUM	243.2	pa/ml	200.0 - 1100.0
	LAMIN: SERUM IESCENT MICROPARTICLE IMMUN	243.2 OASSAY)	pg/mL	200.0 - 1100.0
by CMIA (CHEMILUMIN INTERPRETATION:-			pg/mL DECREASED VITAMIN	
by CMIA (CHEMILUMIN INTERPRETATION:-	IESCENT MICROPARTICLE IMMUN		DECREASED VITAMIN	
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C gen	OASSAY)	DECREASED VITAMIN	B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C gen nin A	0ASSAY) 1.Pregna 2.DRUGS 3.Ethano	DECREASED VITAMIN ncy Aspirin, Anti-convulsants, I Igestion	B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Vitam 3.Ingestion of Vitam 4.Hepatocellular in	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C gen nin A jury	OASSAY) 1.Pregna 2.DRUGS 3.Ethano 4. Contra	DECREASED VITAMIN ncy :Aspirin, Anti-convulsants, I Igestion ceptive Harmones	B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam	IESCENT MICROPARTICLE IMMUN SED VITAMIN B12 nin C gen nin A jury	OASSAY) 1.Pregna 2.DRUGS 3.Ethano 4. Contra 5.Haemo	DECREASED VITAMIN ncy :Aspirin, Anti-convulsants, I Igestion ceptive Harmones	B12

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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