



Labsmart Software Sample Letterhead

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<https://www.yourlabname.in/>**Mr. Saubhik Bhaumik**

Age / Sex : 27 YRS / M
Referred by : Dr. Sachin Patil (MBBS)
Reg. no. : 1071



1071

Registered on : 12/11/2024 05:45 PM
Collected on : 12/11/2024
Received on : 12/11/2024
Reported on : 12/11/2024 05:49 PM

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**BIOCHEMISTRY**

TEST	VALUE	UNIT	REFERENCE
IRON	142	µg/dl	65 - 175

Physiological basis

Plasma iron concentration is determined by absorption from the intestine; storage in the intestine, liver, spleen, bone marrow; rate of breakdown or loss of hemoglobin; and rate of synthesis of new hemoglobin. The key regulator of iron homeostasis is hepcidin. Hepcidin excess or deficiency contributes to the dysregulation of iron homeostasis in hereditary and acquired iron disorders.

Interpretation

Increased in: Hemosiderosis (eg, multiple transfusions, excess iron administration), acute Fe poisoning (children), hemolytic anemia, pernicious anemia, aplastic or hypoplastic anemia, viral hepatitis, lead poisoning, thalassemia, hemochromatosis. Drugs: estrogens, ethanol, oral contraceptives.

Decreased in: Iron deficiency, nephrotic syndrome, chronic renal failure, many infections, active hematopoiesis, remission of pernicious anemia, hypothyroidism, malignancy (carcinoma), postoperative state, kwashiorkor.

Comments

Absence of stainable iron on bone marrow aspirate differentiates iron deficiency from other causes of microcytic anemia (eg, thalassemia, sideroblastic anemia, some chronic disease anemias), but the procedure is invasive and expensive. Serum iron, iron-binding capacity, transferrin saturation, serum ferritin or soluble transferrin receptor may obviate the need for bone marrow examination. Serum iron, transferrin saturation and ferritin are useful in screening family members for hereditary hemochromatosis.

~~~ End of report ~~~

Mr. Sachin Sharma  
DMLT, Lab Incharge

Dr. A. K. Asthana  
MBBS, MD Pathologist

**NOT VALID FOR MEDICO LEGAL PURPOSE**

Work timings: Monday to Sunday, 8 am to 8 pm

Please correlate clinically. Although the test results are checked thoroughly, in case of any unexpected test results which could be due to machine error or typing error or any other reason please contact the lab immediately for a free evaluation.