



Labsmart Software

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

Age / Sex : 27 YRS / M
Referred by : Dr. Sachin Patil (MBBS)
Reg. no. : 1005



1005

Registered on : 17/10/2024 05:29 PM
Collected on : 17/10/2024
Received on : 17/10/2024
Reported on : 17/10/2024 05:30 PM

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**BIOCHEMISTRY****BILIRUBIN TOTAL, DIRECT & INDIRECT**

TEST	VALUE	UNIT	REFERENCE
SERUM BILIRUBIN (TOTAL)	1.1	mg/dl	0.2 - 1.2
SERUM BILIRUBIN (DIRECT)	0.2	mg/dl	0 - 0.3
SERUM BILIRUBIN (INDIRECT)	0.90	mg/dl	0.2 - 1

Physiological basis

Bilirubin is the orange-yellow pigment derived from the breakdown of hemoglobin (heme). The majority of bilirubin comes from senescent red cells. It is biotransformed in the liver and excreted in bile and urine.

The conjugated form is water soluble and reacts directly with diazo dyes in the absence of reaction accelerator, and is therefore called direct bilirubin. The unconjugated form is fat-soluble and reacts with diazo dyes only in the presence of accelerator; so it is called indirect.

Some conjugated bilirubin is bound to serum albumin, so-called D (delta) bilirubin.

Increased in: Acute or chronic hepatitis, cirrhosis, biliary tract obstruction, toxic hepatitis, neonatal jaundice (neonatal hyperbilirubinemia), congenital liver enzyme abnormalities (Dubin-Johnson, Rotor, Gilbert, Crigler-Najjar syndromes), fasting, hemolytic disorders. Hepatotoxic drugs.

Comments

Assay of total bilirubin includes conjugated (direct) and unconjugated (indirect) bilirubin. The unconjugated (indirect) form is the difference between total bilirubin (with reaction accelerator) and the direct bilirubin fraction. Delta bilirubin is determined together with conjugated bilirubin. Delta bilirubin (half-life is about 17 days) accounts for relatively slow regression of jaundice. Only conjugated bilirubin appears in the urine, and it is indicative of liver disease and biliary tract obstruction.

Hemolysis is associated with increased unconjugated bilirubin. Unbound (free) serum or plasma bilirubin level correlates better than total bilirubin with CNS bilirubin concentrations and bilirubin encephalopathy (kernicterus) in newborn jaundice.

~~~ 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.