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## **Bile Acids**

General:

Conjugated bile acids, coupled to glycine or taurine, have a substantial function in fat resorption by the production of micelles. About 90% of bile acids secreted by the biliary gland are actively reabsorbed in the ileum and are subject to the enterohepatic cycle. Micelle formation can be impaired by the bacterial over-colonization (e.g. anaerobes) or in inflammatory disorders (M. Crohn). Thus non-absorbed bile acids reach the colon and cause a bile induced steatorrhea and diarrhea (bile acid loss syndrome).

Bile acid loss can lead to compensatory over-production in the liver thus leading to increased lithogenity of the bile with cholesterol gallstone formation. As a further consequence, steatorrhea can lead to increased absorption of oxalic acid (intestinal binding of calcium with fatty acids) with a tendency of oxalate stone formation in the kidney.

The following tests are available:

- · Bile acids in stool
  - Indication: Suspicion of decompensated bile acid loss syndrome, hepatocellular dysfunction, bile induced steatorrhoea, maldigestion, ileum dysfunction
    - Material: 5 g stool

TAT: 7-10 days\*

- Method: ezmymatic test
- Units: µmol/100g
- Ref.- range: 200 900

• Bile acids in blood ( choleglycin )

Indication: DD of steatorrhea / diarrhea, increased oxalate kidney stone formation, cholelithiasis.

- Material: 1 ml serum
  - TAT: 7-10 days\*

Method: ezmymatic test

Units: µmol/l

Ref.- range: < 10.0

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit http://www.fml-dubai.com/parameter-listings/

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