

# AI-01062 DDx High Liver Enzymes

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Differential diagnosis of very high liver enzymes and blood in urine.

Labs:

ALT-1000

AST-900

ALP-200

The combination of very high liver enzymes (ALT and AST) and blood in urine (hematuria) points towards several possible causes. Here's a breakdown for a differential diagnosis:

## Liver Function Tests (LFTs):

- ALT (alanine aminotransferase) and AST (aspartate aminotransferase) are enzymes primarily found in the liver. Extremely high levels (>1000) of both indicate significant liver damage.
- ALP (alkaline phosphatase) is another liver enzyme, but a moderately elevated level (200) in this case might not be directly related to the liver damage.

## Possible causes:

- **Viral Hepatitis:** Hepatitis B and C are common causes of elevated liver enzymes and can sometimes present with blood in urine due to kidney complications.
- **Autoimmune Hepatitis:** This is an autoimmune disease that attacks the liver, causing inflammation and damage.
- **Drug-induced Liver Injury:** Certain medications or toxins can cause severe liver damage.

- **Alcoholic Hepatitis:** Excessive alcohol consumption can lead to significant liver inflammation.
- **Nonalcoholic Steatohepatitis (NASH):** This is a fatty liver disease that can progress to liver damage.
- **Urological conditions:** Blood in the urine (hematuria) can be caused by various urological issues like kidney stones, urinary tract infections (UTIs), or enlarged prostate (in males). However, these wouldn't typically cause such high liver enzymes.

**Additional factors to consider:**

- **Symptoms:** Presence of fever, fatigue, nausea, vomiting, jaundice (yellowing of skin and eyes), or dark urine can help narrow down the diagnosis.
- **Medical history:** Past illnesses, surgeries, and medications can provide clues.
- **Alcohol and drug use:** Knowing the patient's habits can be crucial.

**Important Note:**

- This is not an exhaustive list, and a definitive diagnosis can only be made by a qualified healthcare professional.

**See a doctor immediately:**

Due to the severity of the liver enzyme levels, it's essential to seek medical attention as soon as possible. A doctor will perform a thorough examination, review your medical history, and order further tests to pinpoint the cause and recommend appropriate treatment.