LIVER DISEASE PREDICTION

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PROJECT NAME	STAISTICAL MACHINE LEARNING APPROCHES TO LIVER DISEASE PREDICTION
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PROBLEM STATEMENT

To detect disease, healthcare professionals need to collect samples from patients which can cost both time and money. Often, more than one kind of test or many samples are needed from the patient to accumulate all the necessary information for a better diagnosis. The most routine tests are urinalysis, complete blood count (CBC), and comper hensive metabolic panel (CMP). These tests are generally less expensive and can still be very informative.The liver has many functions such as glucose synthesis and storage, detoxification,production of digestive enzymes, erythrocyte regulation, protein synthesis, and variousother features of metabolism. Chronic liver diseases include chronic hepatitis, fibrosis, andcirrhosis.

Who is at risk for chronic liver disease?	The three commonest risk factors for CLD are **excessive alcohol consumption; blood borne viruses, in particular Hepatitis B and C, and obesity**.
What is disease prediction system?	The general disease prediction system **predicts chance of presence of a disease present in a patient on the basis of their symptoms**. It will also recommend necessary precautionary measures required to treat the predicted disease.
When can you get liver disease?	The scary thing is that they're only in their 30s and 40s," he says, noting that the chances of developing liver disease go up the longer a person has been drinking and is most common **between the ages of 40 and 50**. Other Yale Medicine doctors have diagnosed people with liver disease when they are still in their 20s.

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Where is pain located with liver disease?	Most people with liver disease report abdominal pain. Pain in your liver itself can feel like a dull throbbing pain or a stabbing sensation in your **right upper abdomen just under your ribs**.
Why is it important to take care of your liver?	"**Your liver removes all toxins, clears medication from your body and metabolizes [breaks down] all your food**," says Dr. Alqahtani. It also adjust cholesterol levels, builds proteins and makes bile, which helps you absorb fats, stores sugar for when you really need it and regulates hormone levels.