
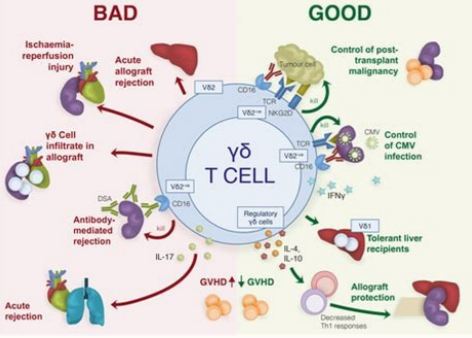


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Liver Test	Abnormal in:
Aminotransferases (AST, ALT)	Hepatocellular injury (ethanol, hepatitis, ischemic injury, NAFLD), acute biliary obstruction (gall, hyperthyroidism, celiac disease, inherited muscle disease)
Alkaline phosphatase	Cholestasis, canalicular injury, children during bone growth, bone disease, pregnancy (placental origin)
GGT	Cholesterol, medications, ethanol, acute acrolysis, cirrhosis, hyperthyroidism, myasthenia, dystrophy
Bilirubin	Any acute or chronic liver disease, congenital disorders of bilirubin metabolism

Created with references to: (Spatnik, S.A., Todor, N., Svecnik, V. Liver enzyme alteration: a guide for clinicians. Clin Med 2005;13:303-319)



The reader of these materials uses these materials at his or her own risk, and AST shall not be responsible for any errors, omissions, or inaccuracies in these materials, whether arising through negligence, oversight, or otherwise. If you currently have cirrhosis, hepatitis B or hepatitis C — or have other risk factors that may increase your likelihood of developing liver cancer — talk to your doctor about screening. Specifically, they form in your liver, which is an organ that cleans your blood and helps your body process nutrients. Reliance on any information appearing on this site is strictly at your own risk. To protect yourself against hepatitis C, don't use intravenous drugs, always practice safe sex and only visit safe, clean tattoo parlors. BMC Cancer. Pikepro Those with chronic alcohol problems or chronic hepatitis infections have an increased risk of developing liver cancer, but many patients do not have risk factors present before a diagnosis. However, in many cases, doctors can't pinpoint the cause of liver cancer. doi: 10.1186/1471-2407-10-190. Liver Cancer Prevention One of the best ways to reduce your risk of liver cancer is to drink alcohol in moderation if you choose to drink. A prospective randomised, open-labeled, trial comparing sirolimus-containing versus mTOR-inhibitor-free immunosuppression in patients undergoing liver transplantation for hepatocellular carcinoma. Being obese or having fatty liver disease can also cause a person to develop liver cancer. Many of the symptoms of liver cancer can mimic other mild gastrointestinal (GI) disturbances that often go ignored. Damage from excessive alcohol use, disease or birth defects can lead to liver cancer. Schnitzbauer AA, et al. SELF Magazine/Flickr MORE FROM SYMPTOMFIND.COM Read the full disclaimer. Symptoms Related to Liver Tumors Sometimes, the growth of tumors related to liver cancer can make hormones cause other types of symptoms. 2010 May 11;10:190. While the AST and its committees take great care to screen the credentials of the contributors and make every attempt to review the contents, AST MAKES NO WARRANTY, EXPRESSED OR IMPLIED, as to the completeness or accuracy of the content contained in the educational materials or on this website. You have the option of getting vaccinated against hepatitis B — even adults can receive the vaccine. Read on to learn about the early and later symptoms of liver cancer, along with risk factors and prevention steps. When this cancer initially forms in the liver, it's often due to damage to liver cells. However, liver cancer is often diagnosed as a secondary form of cancer. Compared to other types of cancer, such as lung cancer, breast cancer and colon cancer, liver cancer isn't as common. Adrian Swancar/Unsplash Some of the early symptoms of liver cancer include unexplained fatigue or weakness, unintended weight loss, loss of appetite, nausea, vomiting, abdominal swelling, upper abdominal pain, chalky or white stools, itching and yellow-colored skin or eyes (jaundice). HansMartinPaul/Needpix Causes of Liver Cancer Only about 2% of all liver cancer cases originate in the liver; most are due to cancer elsewhere in the body metastasizing. These include cirrhosis of the liver, which is a permanent scarring most often caused by overconsumption of alcohol; nonalcoholic fatty liver disease; inherited liver diseases, such as Wilson's disease; hepatitis infections, such as those from hepatitis B and hepatitis C; or exposure to aflatoxins, which are poisons that form on foods when crops aren't properly stored. A patient may have a primary type of cancer, such as colon cancer, that later spreads (or metastasizes), to the liver. Schnitzbauer AA, Zuelke C, Graeb C, Rochon J, Bilbao J, Burra P, de Jong KP, Duvoux C, Kneteman NM, Adam R, Bechstein WO, Becker T, Beckebaum S, Chazouilleres O, Cillo U, Colledan M, Fändrich F, Gugenheim J, Hauss JP, Heise M, Hidalgo E, Jamieson N, Königsrainer A, Lamby PE, Lerut JP, Mäkisalo H, Margreiter R, Mazzaferro V, Mutzbauer I, Otto G, Pageaux GP, Pinna AD, Pirenne J, Rizell M, Rossi G, Rostaing L, Roy A, Turrión VS, Schmidt J, Troisi RI, van Hoek B, Valente U, Wolf P, Wolters H, Mirza DF, Scholz T, Steininger R, Soderdahl G, Strasser SI, Jauch KW, Neuhaus P, Schlitt HJ, Geissler EK. Vic/Flickr Liver cancer forms in the cells of part of your digestive system. National Center for Advancing Translational Science - Duke University/Flickr Liver cancer screening isn't typically recommended unless you fall into one of these risk factor categories. PMID: 20459775 Free PMC article. It's important to note that if any type of GI symptoms last for more than a few days, you should consult your doctor. 2010. If you notice a yellow tinge developing in your face or eyes, it's important to consult your physician as soon as possible. Many patients are asymptomatic in the early stages of liver cancer, meaning they don't notice any symptoms or the changes they do notice are easily explained away. Hepatitis B and C also increase your liver cancer risk. You may experience symptoms such as skin flushing, which involves changes in color and a hot sensation; high cholesterol levels; breast enlargement in women or testicle shrinkage in men; confusion, weakness or muscle problems, which are due to high blood calcium levels, or fainting or fatigue, which happen because of low blood sugar levels. Clinical Trial. Generally, jaundice is a sign of any type of liver dysfunction or disease. Overconsumption of alcohol and the development of cirrhosis greatly increase your risk of liver cancer. Risk Factors and Liver Cancer Screening There are certain risk factors that predispose some patients to liver cancer. Educational Content Disclaimer: The content, information, opinions, and viewpoints contained in educational materials housed on and linked from the AST web site are those of the authors or contributors of such materials. Drinking heavily over many years can cause your liver to scar, which leads to cirrhosis.

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