

Normal Liver Size In Mm

== Signs and symptoms == de28d065bb As with any cancer, the treatment and prognosis of HCC varies depending on tumor histology, size, how far the cancer has spread, and overall health of the person. de28d065bb

Fatty liver disease Often Fatty liver disease (FLD), also known as hepatic steatosis and steatotic liver disease (SLD), is a condition where excess fat builds up in the liver. Fatty liver disease (FLD), also known as hepatic steatosis and steatotic liver disease (SLD), is a condition where excess fat builds up in the liver. Complications may include cirrhosis, liver cancer, and esophageal varices. Often there are no or few symptoms. Occasionally there may be tiredness or pain in the upper right side of the abdomen de28d065bb

== Medical uses == de28d065bb == Signs... == de28d065bb The main subtypes of fatty liver disease are metabolic dysfunction-associated steatotic liver disease (MASLD) and alcoholic liver disease (ALD), with the category "metabolic and alcohol associated liver disease" (metALD) describing an overlap of the two. de28d065bb

Primary biliary cholangitis liver. It results from a slow, progressive destruction of the small bile ducts of the liver, causing bile and other toxins to build up in the liver, a condition called cholestasis. Further slow damage to the liver tissue can lead to scarring, fibrosis, and eventually cirrhosis. It results from a slow, progressive destruction of the small bile ducts of the liver, causing bile and other toxins to build up in the liver, Primary biliary cholangitis (PBC), previously known as primary biliary cirrhosis, is an autoimmune disease of the liver de28d065bb

The ultrasonic renal exam does not require any preparation of the patient and is usually performed with the patient in the supine position. The kidneys are examined in longitudinal... de28d065bb == Structure == de28d065bb

Hepatocellular carcinoma HCC is the third Hepatocellular carcinoma (HCC) is the most common type of primary liver cancer in adults and is currently the most common cause of death in people with cirrhosis. (HCC) is the most common type of primary liver cancer in adults and is currently the most common cause of death in people with cirrhosis. HCC is the third leading cause of cancer-related deaths worldwide de28d065bb

Abdominal ultrasound examinations are performed by gastroenterologists or other specialists in internal medicine, radiologists, or sonographers trained for this procedure. de28d065bb Tumor detection is based on the performance of the method and should include morphometric information (three axes dimensions, volume) and topographic information (number, location specifying liver segment and lobe/lobes). The specification of these data is important for staging liver tumors and prognosis. de28d065bb Several subtypes exist, including the giant hepatic haemangioma (>10cm), which can cause significant complications. de28d065bb HCC most commonly occurs in those with chronic liver disease especially those with cirrhosis or fibrosis, which occur in the setting of chronic liver injury and inflammation. HCC is rare in those without chronic liver disease. Chronic liver diseases which greatly increase the risk of HCC include hepatitis infection such as (hepatitis B, C or D), non-alcoholic steatohepatitis (NASH), alcoholic liver disease, or exposure to toxins such as aflatoxin, or pyrrolizidine alkaloids. Certain diseases, such as hemochromatosis and alpha 1-antitrypsin deficiency, markedly increase the risk of developing HCC. The five-year survival in those with HCC is 18%. de28d065bb The disease typically develops slowly over months or years. Stages include compensated cirrhosis and decompensated cirrhosis. Early symptoms may include tiredness, weakness, loss of appetite, unexplained weight loss, nausea and vomiting, and discomfort in the right upper quadrant of the abdomen. As the disease worsens, symptoms may include itchiness, swelling in the lower legs, fluid build-up in the abdomen, jaundice, bruising easily, and the development of spider-like blood vessels in the skin... de28d065bb Until June 2023, MASLD and its more advanced form, metabolic dysfunction associated steatohepatitis (MASH), were referred to as non-alcoholic fatty liver disease (NAFLD) and non-alcoholic steatohepatitis (NASH), respectively. The change in terminology was decided in a modified Delphi process led by three large pan-national liver associations (the American Association for the Study of Liver Diseases, the European Association for the Study of the Liver and the Latin American Association for the Study of the Liver). de28d065bb

Portal hypertension Normal portal pressure is 1–4 mmHg; clinically insignificant portal hypertension is present at portal pressures 5–9 mmHg; clinically Portal hypertension is defined as increased portal venous pressure, with a hepatic venous pressure gradient greater than 5 mmHg. greater than 5 mmHg. Normal portal pressure is 1–4 mmHg; clinically insignificant portal hypertension is present at portal pressures 5–9 mmHg; clinically significant portal hypertension is present at portal pressures greater than 10 mmHg. The portal vein and its branches supply most of the blood and nutrients from the intestine to the liver de28d065bb

The vast majority of HCC cases and the lowest survival rates after treatment occur in Asia and sub-Saharan Africa, in countries where hepatitis B infection... de28d065bb

Cirrhosis Over time, scar tissue and nodules of regenerating hepatocytes can replace the parenchyma, causing increased resistance to blood flow in the liver's capillaries—the hepatic sinusoids—and consequently portal hypertension, as well as impairment in other aspects of liver function. Damage to the liver leads to repair of liver tissue and subsequent formation of scar tissue. in which the normal functioning tissue, or parenchyma, is replaced with scar tissue (fibrosis) and regenerative nodules as a result of chronic liver disease Cirrhosis, also known as liver cirrhosis, hepatic cirrhosis, chronic liver failure, chronic hepatic failure, and end-stage liver disease, is a chronic condition of the liver in which the normal functioning tissue, or parenchyma, is replaced with scar tissue (fibrosis) and regenerative nodules as a result of chronic liver disease de28d065bb

Liver sinusoidal endothelial cell The LSEC Liver sinusoidal endothelial cells (LSECs) form the lining of the smallest blood vessels in the liver, also called the hepatic sinusoids. LSECs are highly specialized endothelial cells with characteristic morphology and function. They constitute an important part of the reticuloendothelial system (RES). only about 3% of the total liver cell volume, their surface in a normal adult human liver is about 210 m², or nearly the size of a tennis court de28d065bb

effect, the relation with neighboring organs or structures (displacement, invasion), vasculature (presence and characteristics on Doppler ultrasonography and contrast-enhanced ultrasound (CEUS). de28d065bb Renal ultrasound (US) is a common examination, which has been performed for decades. Using B-mode imaging, assessment of renal anatomy is easily performed, and US is often used as image guidance for renal interventions. Furthermore, novel applications in renal US have been introduced with contrast-enhanced ultrasound (CEUS), elastography and fusion imaging. However, renal US has certain limitations, and other modalities, such as CT and MRI, should always be considered as supplementary imaging modalities in the assessment of renal disease. de28d065bb PBC is a relatively rare disease, affecting up to one in 3,000–4,000 people. As with many other autoimmune diseases, it is much more common in women, with a sex ratio of at least 9:1 female to male. The reasons for this disparity are unclear, but may involve the expression of sex hormones such as estrogen, which impact immune system response. de28d065bb Tumor characterization is a complex process based on a sum of criteria leading towards tumor nature definition. Often, other diagnostic procedures, especially interventional ones are no longer necessary. Tumor characterization using the ultrasound method will be based on the following elements: consistency (solid, liquid, mixed), echogenicity, structure appearance (homogeneous or heterogeneous), delineation from adjacent liver parenchyma (capsular, imprecise), elasticity, posterior acoustic enhancement de28d065bb

Abdominal ultrasonography It uses transmission and reflection of ultrasound waves to visualise internal organs through the abdominal wall (with the help of gel, which helps transmission of the sound waves). Pancreas Pancreas Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Liver Gallbladder Gallbladder Abdominal ultrasonography (also called abdominal ultrasound imaging or abdominal sonography) is a form of medical ultrasonography (medical application of ultrasound technology) to visualise abdominal anatomical structures. For this reason, the procedure is also called a transabdominal ultrasound, in contrast to endoscopic ultrasound, the latter combining ultrasound with endoscopy through visualize internal structures from within hollow organs de28d065bb

Cavernous liver hemangioma Liver hemangiomas are thought to be congenital in origin with an incidence rate of 0. 4 – 7. It is the most common benign liver tumour, and is usually asymptomatic and diagnosed incidentally on radiological imaging or during laparotomy for other intra-abdominal issues. 3% as reported in autopsy series. A cavernous liver hemangioma or hepatic hemangioma is a benign tumor of the liver composed of large vascular spaces lined by monolayer hepatic endothelial A cavernous liver hemangioma or hepatic hemangioma is a benign tumor of the liver composed of large vascular spaces lined by monolayer hepatic endothelial cells de28d065bb

== Technique == de28d065bb Cirrhosis (a form of chronic liver failure) is the most common cause of portal hypertension; other, less frequent causes are therefore grouped as non-cirrhotic portal hypertension. The signs and symptoms of both cirrhotic and non-cirrhotic portal hypertension are often similar depending on cause, with patients presenting with abdominal swelling due to ascites, vomiting of blood, and lab abnormalities such as elevated liver enzymes or low platelet counts. de28d065bb Treatment is directed towards decreasing portal hypertension itself or in the management of its acute and chronic complications. Complications include ascites, spontaneous bacterial peritonitis, variceal hemorrhage, hepatic encephalopathy, hepatorenal syndrome, and cardiomyopathy. de28d065bb The LSEC structure differs from other endothelia. The cells contain many open pores, or fenestrae, with diameters from 100 to 150 nm. The fenestrae occupy 20% of the LSEC surface and are arranged in groups referred to as "sieve plates". Filtering fluid between the sinusoidal lumen and the space of Disse, the fenestrae are crucial for lipoprotein traffic between the hepatocytes and the sinusoidal lumen. The LSECs lack an organized basal lamina. The LSECs contain 45% and 17% of the liver's total mass of pinocytic vesicles and lysosomes, and contain twice as many clathrin-coated pits per membrane unit, compared with two other major liver cells, Kupffer cells and hepatocytes, reflecting the high capacity... de28d065bb People with PBC experience... de28d065bb Liver hemangiomas are usually asymptomatic but can present with symptoms such as right upper quadrant pain and abdominal fullness. Treatment options, if necessary, include various surgical methods, such as enucleation or resection. de28d065bb Ultrasonography of the kidneys is essential in the diagnosis and management of kidney-related diseases. The kidneys are easily examined, and most pathological changes in the kidneys are distinguishable with ultrasound. US is an accessible, versatile inexpensive and fast aid for decision-making in patients with renal symptoms and for guidance in renal intervention. de28d065bb The primary risks include alcohol, type 2 diabetes, and obesity. Other risk factors... de28d065bb The condition has been recognised since at least 1851, and was named "primary biliary cirrhosis" in 1949. Because cirrhosis is a feature only of advanced disease, a change of its name to "primary biliary cholangitis" was proposed by patient advocacy groups in 2014. de28d065bb

Ultrasonography of liver tumors The patient Ultrasonography of liver tumors involves two stages: detection and characterization. pattern, displace normal liver structures and even neighboring organs (in case of large sizes), are quite elastic and do not invade liver vessels de28d065bb

Although the LSECs make up only about 3% of the total liver cell volume, their surface in a normal adult human liver is about 210 m², or nearly the size of a tennis court. de28d065bb

Renal ultrasonography Moreover, decreased renal size and cortical thinning are also often Renal ultrasonography (Renal US) is the examination of one or both kidneys using medical ultrasound. related to the echogenicity of either the liver or the spleen (Figure 22 and Figure 23) de28d065bb

The substrate on which the tumor condition develops (if the liver is normal or if there is evidence of diffuse... de28d065bb Abdominal ultrasound can be used to diagnose abnormalities in various internal organs, such as the kidneys, liver, gallbladder, pancreas, spleen and abdominal aorta. If Doppler ultrasonography is added, the blood flow inside blood vessels can be evaluated as well (for example, to look for renal artery stenosis). It is commonly used to examine the uterus and fetus during pregnancy... de28d065bb Common symptoms are tiredness, itching, and in more advanced cases, jaundice. In early cases, the only changes may

be those seen in blood tests. de28d065bb

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