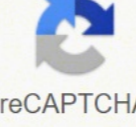
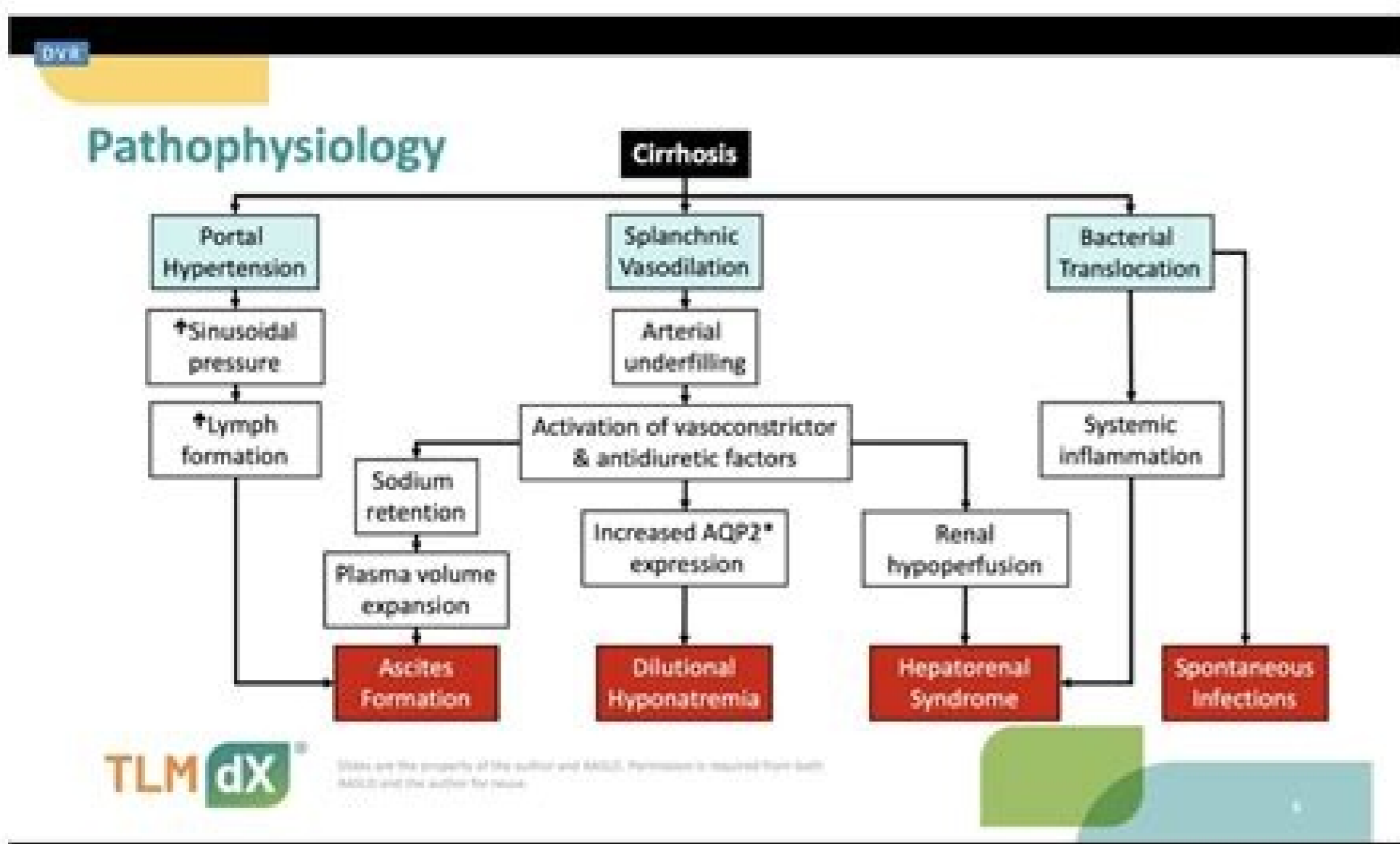
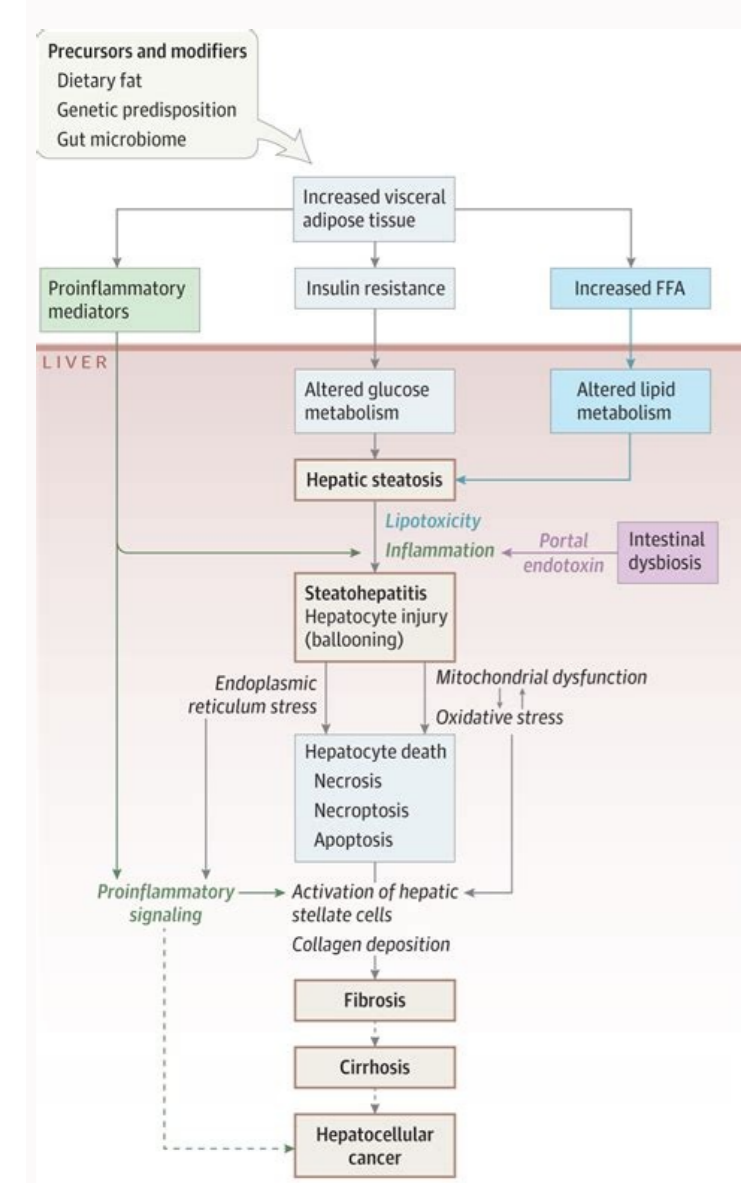


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Cirrhosis Histology Assessment

Common Causes Of

Cirrhosis

- Long-term Viral hepatitis C
- Chronic alcohol abuse

Some Other Possible Causes of Cirrhosis

- Hepatitis B
- Hepatitis D
- Autoimmune Disease inflammation
- Bile duct damage
- Disorders in the body's copper and iron handling or management

Case report

Non-traumatic gas gangrene in the abdomen: report of six autopsy cases

TOSHIKI SASAKI^{1,2}, HIROSHI NAKAO^{1,2}, MASATO TAKAHASHI^{1,2}, TATSUO SUGIYAMA², IWAO ONO³, and HIROTAKE MASUDA¹¹Department of Pathology, Nakadori General Hospital, 3-15 Misono-cho, Minamidori, Akita 010-8577, Japan²Second Department of Pathology, Akita University School of Medicine, Akita, Japan³Department of Pathology, Yuri Kumiai General Hospital, Akita, Japan

Abstract: Six autopsy cases of non-traumatic gas gangrene in the abdomen are reported. Five of the six were caused by *Clostridia*, as identified by culture or histology. There were associated underlying diseases, such as alcoholism, liver cirrhosis, diabetes mellitus, and malignant disease. Three of the six patients had gas gangrene in the liver. Bacterial proliferation and gas accumulation were found in the sinusoids of the liver, and congestion and edema with extensive gas embolism were found in the lungs. Pulmonary gas embolism was considered to be the direct cause of death in these three patients. The other three patients had intestinal clostridial gas gangrene, with alcoholism as an underlying condition. None of the six patients was clinically diagnosed as having gas gangrene. We suggest that gas gangrene should be considered in any patient with abdominal infection. A review of 19 autopsy cases of gas gangrene in the abdomen reported in the Japanese literature is also presented.

Key words: non-traumatic gas gangrene, *Clostridium*, autopsy case, electron microscopy

Introduction

Classically, gas gangrene was known to be associated mostly with trauma and caused by clostridial infection.^{1,2} It has also been reported to occur in the absence of trauma or surgical procedures, and gas gangrene without external injury is, therefore, called non-traumatic gas gangrene.^{3,4} Most non-traumatic gas gangrene is associated with underlying diseases which cause immunodeficiency, such as malignancy,^{3,4,6} hematological disease,^{10–18} and diabetes mellitus.^{1,3,10–17,20} Non-traumatic

gas gangrene is rare, but often rapidly progressive, and requires emergent care. Early diagnosis of non-traumatic gas gangrene in the abdomen is often difficult.

We report six autopsy cases of non-traumatic gas gangrene in the abdomen. We also present a review of the Japanese literature of 19 reported autopsy cases of gas gangrene in the abdomen. The features of intrabreptic and intestinal gas gangrene in Japan are summarized. To our knowledge, this is the first article to have summarized autopsy cases of gas gangrene in the abdomen in the Japanese literature. We hope this article will be helpful in improving the knowledge and management of non-traumatic gas gangrene in abdominal organs.

Case reports

Clinical findings

The clinical findings of the six patients reported are summarized in Table 1.

Cases 1–3 had intrabreptic gas gangrene. Case 1 was a 72-year-old woman who had had a fever and epigastralgia for 2 days before admission. She was diagnosed with acute hepatitis. She received conservative therapy and died 3 days after admission. Case 2, a 71-year-old woman, had had a fever for 2 days and died 4 h after admission. Case 3 was a 70-year-old diabetic woman who had had a fever for 1 day prior to admission. She was clinically diagnosed with infection in the biliary tract. Treatment with antibiotics failed and she died 3 days after admission. Clinically, the sudden death of all these three patients was attributed to acute respiratory failure.

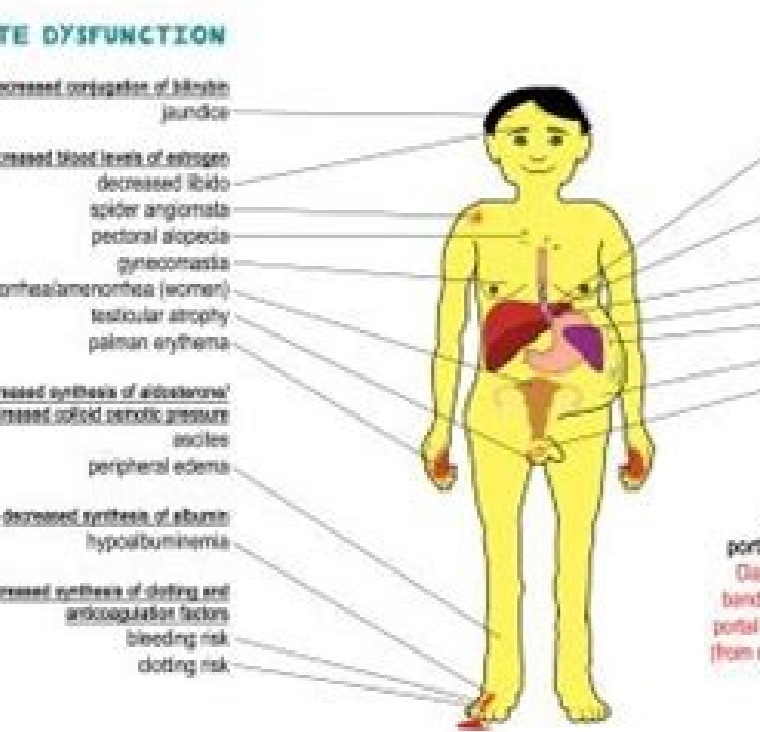
Cases 4–6 had intestinal clostridial gas gangrene (CGG). Case 4 was a 44-year-old man with the chief complaint of abdominal pain for 2 days; he died 8 h after admission. Case 5 was a 47-year-old man who had had disturbance of consciousness for several hours. He died

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Reprint requests to: T. Sasaki

UNDERLYING PATHOPHYSIOLOGY OF CIRRHOSIS

Cirrhosis is the end-stage of chronic liver disease and is NOT REVERSIBLE! Alcohol is the most common cause of cirrhosis in the United States



Cirrhosis pathophysiology nursing. Cirrhosis pathology. Cirrhosis pathophysiology. Cirrhosis liver pathology.

^ a b c Primary Biliary Cholangitis: Symptoms, Causes, Treatments". Retrieved 2021-03-10. ↵ Lawson T, RL, Adgaard Hansen S, MÅ, Åler HJ, Mortensen C, Karlson S, Nielsen DT, et al. Åal. [Updated 2021 Aug 11]. ^ a b Mok SR, Diehl DL (January 2019). doi:10.1016/j.cld.2020.11.009. "Cachexia in liver cirrhosis". Archived from the original on 2007-09-28. ↵ "Alcoholic liver disease: MedlinePlus Medical Encyclopedia". doi:10.1092/1061858X-009027pub2. S2CID 424927898. PMID 22375834. PMID 422357834. These include several drugs such as anti-depressants, certain antibiotics, and NSAIDs (like ibuprofen).[110] These agents are hepatotoxic as they are metabolized by the liver. The Model for End-Stage Liver Disease (MELD) score was later developed and approved in 2002.[90] It was approved by the United Network for Organ Sharing (UNOS) as a way to determine the allocation of liver transplants to awaiting patients in the United States.[91] It is also used as a validated survival predictor of cirrhosis, alcoholic hepatitis, acute liver failure, and acute hepatitis.[92] The variables included bilirubin, INR, creatinine, and dialysis frequency.[92] In 2016, sodium was added to the variables and the score is often referred to as MELD-Na.[93] MELD-Plus is a further risk score to assess severity of chronic liver disease. "Assessing portal hypertension in liver diseases". 35 (1): 363eA447. doi:10.1016/j.jhep.2017.07.020. PMID 29939595. Patient Center - Procedures. Endnote. 388 (10053): 1545eAAA1602. PMID 161678091. The Journal of the American Society of Nephrology. 23 (2): 1664AAA170. 28 September 2020. ISBN 1574-264-26849-8. Lancet. 2017-07-20. Albumin levels fall as the synthetic function of the liver declines with worsening cirrhosis since albumin is exclusively synthesized in the liver. ^ a b c Dooley JS, Lok AS, Garcia-Tsai G, Pizzani M (8 June 19th 970032375917. In severe complications of portal hypertension, it is occasionally indicated that transjugular indication of intra-hepatic (tip) intra-hepatic ports to relieve pressure in the portal vein. recovered 2022-03-21. 21 (2). 6. symptoms may include lack of response, forgetfulness, concentration problems, changes in sleep habits ^ psychosis. (2011) pmc 3430604. ^ heathcote ef (November 2003). Constructions and bleeding may result from the decrease in the production of coagulation factors [34] hepatic encephalopathy (he) occurs when ammonia and related substances accumulate in the blood.[34] this accumulation affects the brain function when they are not cleaned from the blood by the liver. isbn 978001748896. a. hypertensive hepatic portal gastropathy refers to changes in the stomach mucosa in people with portal hypertension and is associated with the severity of cirrhosis. [126] infection cirrhosis can cause immune system dysfunction, leading to infection. s2cid 206174528. pmid - 33773436. in general, it is not recommended that patients of the class and infant be subjected to elective surgery. [87] in the past, the classification of the child-pugna was oada to determine patients who were candidates for a liver transplant. [87] class a indicates an indication for transplant evaluation. [89] However, there are many problems when applying this score to the eligibility of liver transplantation. [87] thus, the meld score was created. pp. chapter 14: liver disease. Gastroenterology book (gbt 2013 mortality causes of death collaborators) (January 2015) the coagulation function is estimated by laboratory values, mainly platelet count, prothrombin time (en) and international normalized reason (r) (September 2015). Filed from the original on October 5, 2021. 55 (suppl 6): vi1-112. From the original on October 5, 2017. Plos One. Damage to the liver tissue of inflammation fibrosis through the production of myofibroblasts, and obstructs hepatic blood flow.[47] In addition, stellate cells secrete TGF beta 1, which leads to a fibrotic response and proliferation of connective tissue. 385 (9963): 117eAAA171. ^ a b McCarthy TR, Bazarrashi AN, Njei B, Royo M, Aslanian HR, Muniraj T (September 2020). doi:10.1016/j.scp.2020.09.073. ISBN 1473-0792. doi:10.1136/gut.2020.44.2.264. "Transjugular intrahepatic portosystemic shunt as a bridge to liver transplant: Current state and future directions". 73 (2): 625eAAA643. The Cochrane Database of Systematic Reviews. "Physical exercise in patients with cirrhosis". Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015". Typically much higher in chronic liver disease from alcohol.[65] Bilirubin levels are normal when compensated, but may increase as cirrhosis progresses. There is no evidence that support the avoidance of paracetamol in people with compensated cirrhosis; it is thus considered a safe analgesic for said individuals.[103] Vaccination of susceptible patients should be considered for hepatitis A and hepatitis B. PMC 47923668. S2CID 4203813520. S2CID 43373625. As this shunting can worsen hepatic encephalopathy, it is reserved for those patients at low risk of encephalopathy. [^ a b c Sapanlou S, Safiri S, Bisognano C, Ikuta KS, Morat S, Saberifirooz M, et Al. PMID 27733282. doi:10.1002/hep.21563. "Guidelines on the use of liver biopsy in clinical practice. Gastroenterology & Hepatology. Retrieved 2007-10-07. Furthermore, a small but significant risk of complications is associated with liver biopsy, and cirrhosis itself predisposes for complications caused by liver biopsy.[81] Once the biopsy is obtained, a pathologist will try to diagnose the cause of the patient's problem and the patient and is appropriate in any estate and for any type of cirrhosis. [110] Especially in later stages, people with cirrhosis experience significant symptoms such as abdominal swelling, itching, leg edema and other possible problems through palliative care. [111] As the disease is not curable, palliative care can also help in the discussions about the desires of the person in relation to the power of assisting motion, no Resurrect themselves or support for life and potentially hospice. [111] Despite the proven beneficial, people with cirrhosis rarely are sent to palliative care. [112] It is known that the cirrhosis of immunity causes immunological dysfunction of several ways. Laxatives, such as lactulose, decrease the risk of constipation. PMID 613194448. AME Medical Journal. (November 2016). ^ Mammal N, Dam G, Rinow AR, Vilstrud H, Ghul D, et al. (2016). "Global, regional and national incidence, prevalence and years lived with disabilities by 310 diseases and lesions, 1990-2015: a systematic dwarf for the global study of disease 2015". The tons include transmitted elastography, impulse images of eating radiation, shear splay imaging, and magnetic resonance elastography. [60] TRANSITION ELATE AND MAGNETIC RESONANCE ELASTOGRAPHY CAN HELP TO IDENTIFY FIBROSIS STAGE. [61] Compared to a year, elastography can prove a much larger and painless area. [62] shows a reasonable correlation with the severity of cirrhosis. [61] Other modalities have been introduced that are incorporated into ultrasonographic systems. ^ Van Thiel DH, Gavalier JS, Schade RR (February 1985). Etron Doubles of Cirrhosis. They also suggest the routine use of blood products, such as platelets, to prevent bleeding. [113] It is stated when there is no changes in the basal abnormalities of the values of the coagulation laboratory. coagulation. Detection, hearing treatment and survival rates for hepatocellular carcinoma in patients with cirrhosis: a meta-analysis". DOI: 10.1053/j.gastro.2018.12.036. ESHERICK DS, CLARK ED (2012-12-18). PMID 26079489. PMID 33185364. 70 (11): 172 e-193. S2CID 37088595. Medicine. Hoboken, NJ: HDL-1854/Lu-8731444. Cirrhotic Patients with Upper Gastrointestinal Sanginas (in English). Burden of Hepatic Disease in the World (in English). DOI: 10.3390/IJMS17020224. 36 (4): 782 e-787. S2CID 52882095. ^ A Viral Hepatitis: Background, Pathophysiology, Etiology. S10620-101-1221-6. ISBN 978340938422. Davis Company. 12 (4): 692 e+ e-698. ^ Piano S, Tonon M, Angelj P (February 2018). DOI: 10.1016/j.jhep.2018.06.024. Gastrointestinal Endoscopy Clinics of the North Korea. 44 (2): 264-269. Diarrated options for outpatient treatment include aldosterone antagonists (Spironolactone) and loop diuretic. People with decompensated cirrhosis usually require admissions to a hospital, with close monitoring of fluid equilibrium, mental state, and proper nutrition and mother treatment - often with diuretic, antibody, laxatives/other enemas, thiamine and occasionally steroids, acetylsalicylic acid and pentoxifylline. [109] The administration of the saline is avoided, as it will add to the high total body content that normally occurs in cirrhosis. ^ A B D E F FERENCI P (Feb 2022). ^ J Sampi ns, bugsan am, roy pk (2021-10-17). When the cause is an iron overload, the iron is removed using a klatation agent, such as deferoxamine or by the Blood. Scopes of po-sAp po-po-sAp e ocits-Angop. oadagAf of oEASAmr. A oEASAmr me Childrens Class Points Function of the Prognosis. Fan Surgery Abdominal Surgery Mortality Pyspecking Point Class 5-6 Points Good Function Hepomatic 15 e-9 points moderately impaired liver function 30% class of child-pugh e 10k e-15 points liver dysfunction advanced 1st e-3 years 82% the score Child-Pugh is a validated predictor of mortality after a major surgery. [87] For example, children's class with 10% mortality rates and patients with child class B - child tann mortality rate of 30%, while patients with child class C tann mortality rate of 70 to 80% after abdominal surgery. [87] Elective surgery is generally reserved for those in children's class A patients. "Galactosia". National Institute of Diabetes and Digestive and Kidney Diseases. PMID 2773281. JAMA. "Acute phase proteins in the diagnosis and prediction of associated bacterial infections". ^ A ^ IMMEMERMAFUNCTION IN CIRROSISSIAN". DOI: 10.1586/EGH.12.83. "A Systematic Review of the Evidence Behind Use of Reduced Dose of Acetaminophen in Chronic Liver DiseaseAm". PMID 30266282. ^ A B C D E F G H I J K L N O P R S T LOSCALZO J, FAUCI AS, KASPER DL, HAUSER SL, LONG DL, JAMESON JL (2022). PMC 1727391. (September 2014). Filed from the original on the 20 of 2021. Marion. Coagulation defects occur, as the fan produces the majority of coagulation factors, so coagulopathy correlates worsely the liver disease. McGraw-Hill. A "Hepatology by Drugs: The Most Common Implicated Agents" (in English). ↵ "Diagnosis of Cirrhosis". Calabrothers (2020 Marion). Filed from the original in 2007-06-29. 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