

jaundice



جامعة ساوة كلية التقنيات الصحية والطبية قسم تقنيات التخدير

المرحلة الثالثة

م.م شاکر کاظم

المحاضرة الاولى



jaundice is a serious medical condition that makes your skin and the whites of your eyes look yellowish. this happens when too much bilirubin builds up in your blood. bilirubin is a yellowish pigment created as hemoglobin a component of red blood cells — is broken down. normally, bilirubin is delivered from the bloodstream into your liver, then, it passes through tubes called bile ducts. these ducts carry a substance called bile into your small intestine. eventually, bilirubin is passed out of your body through urine or stool.

Types of jaundice

are categorized by where they happen within the liver's process of taking in and filtering out bilirubin. They include Trusted Source:

- . Pre-hepatic jaundice.
- . Hepatic jaundice.
- . Post-hepatic jaundice .

All about pre-hepatic jaundice

Pre-hepatic jaundice is caused by conditions that raise your blood's rate of hemolysis. This is the process through which red blood cells are broken down, converting hemoglobin to bilirubin.

Because the liver can only process so much bilirubin at once, bilirubin overflows into bodily tissues, resulting in jaundice.

Causes of pre-hepatic jaundice

Having certain conditions that affect how your red blood cells are broken down may lead to jaundice.

Common causes of pre-hepatic jaundice <u>include Trusted Source</u>: malaria, a blood infection caused by a parasite sickle cell anemia, a genetic condition in which red blood cells become crescent-shaped rather than the typical disc shape spherocytosis, a genetic condition of the red blood cell membrane that causes them to be sphere-shaped rather than disc-shaped thalassemia, a genetic condition that causes your body to make an irregular type of hemoglobin that limits the number of healthy red blood cells in your bloodstream

Symptoms of pre-hepatic jaundice

abdominal pain fever, including chills or cold sweats abnormal weight loss feeling itchy dark urine or pale stool

Diagnosis of pre-hepatic jaundice

urine

To diagnose pre-hepatic jaundice, a doctor will likely order tests to determine your liver function and measure bilirubin.

a urinalysis to measure the amount of certain substances in your

blood tests, such as a complete blood count (CBC) or liver function tests to measure bilirubin and other substances in the blood imaging tests, such as an MRI or ultrasound, to examine your liver, gallbladder, and bile ducts to rule out other forms of jaundice a HIDA scan to help find blockages or other issues in the liver, gallbladder, bile ducts, and small intestine

Treatment for pre-hepatic jaundice

Treatment for this type of jaundice involves treating the condition that is causing it. The treatment options will vary by condition.

Treatment for pre-hepatic jaundice may include:

For malaria:

medications to help destroy the parasite and prevent parasites from reinfecting your liver again

For sickle cell anemia:

blood transfusions from a healthy donor rehydrating with intravenous (IV) fluid medications for any infections that can cause a sickle cell crisis

For spherocytosis:

folic acid supplements blood transfusions for anemia spleen removal surgery to help increase red blood cell life and lower the chance of gallstones

For thalassemia:

blood transfusions bone marrow transplants spleen or gallbladder removal surgery

Jaundice



All about hepatic jaundice

Hepatic jaundice happens when your liver tissue is scarred (known as cirrhosis), damaged, or dysfunctional. This makes it less effective at filtering out bilirubin from your blood. Since it can't be filtered into your digestive system for removal, bilirubin builds up to high levels in your blood.

Causes of hepatic jaundice

Hepatic jaundice occurs when the liver becomes less effective at removing bilirubin from the blood. This can occur if you have liver damage or conditions that affect liver function.

Common causesTrusted Source of hepatic jaundice include:

- liver cirrhosis, which means that liver tissues are scarred by long-term exposure to infections or toxic substances, such as high levels of alcohol viral hepatitis, an inflammation of the liver caused by one of several viruses that can get into your body through infected food, water, blood, stool, or sexual contact primary biliary cirrhosis, which happens when bile ducts are damaged and can't process bile, causing it to build up in your liver and damage liver tissue alcoholic hepatitis, in which your liver tissues are scarred by the heavy, long-term drinking of alcohol
- leptospirosis, a bacterial infection that can be spread by infected animals or infected animal urine or feces

liver cancer, in which cancerous cells develop and multiply within liver tissues

loss of appetite bloody nose skin itching weakness abnormal weight loss swelling of your abdomen or legs dark urine or pale stool pain in your muscles or joints darkening skin fever feeling sick throwing up

To diagnose hepatic jaundice, a doctor will likely order the following tests:

a urinalysis to measure levels of substances in your urine related to your liver function

blood tests, such as a complete blood count (CBC) and antibody tests, or liver function tests to measure bilirubin in the blood and levels of substances that indicate that your liver may not be processing bilirubin properly imaging tests, such as an MRI or ultrasound, to examine your liver for

imaging tests, such as an MRI or ultrasound, to examine your liver for damage or for the presence of cancerous cells an endoscopy, which involves inserting a thin, lighted tube into a small incision to look at your liver and take a tissue sample (biopsy) if necessary for analysis for cancer or other conditions

Hepatic jaundice treatment Treatment for hepatic jaundice involves treating its cause. Treatment may vary depending on the condition. In some instances, following a diet for jaundice may help. For liver cirrhosis: quitting drinking beta-blockers intravenous (IV) antibiotics a low protein diet For viral hepatitis: antiviral medications

hepatitis vaccination

plenty of rest and fluids

bile-lowering medication

For primary biliary cirrhosis:

bile acids to help with digestion

For alcoholic hepatitis:

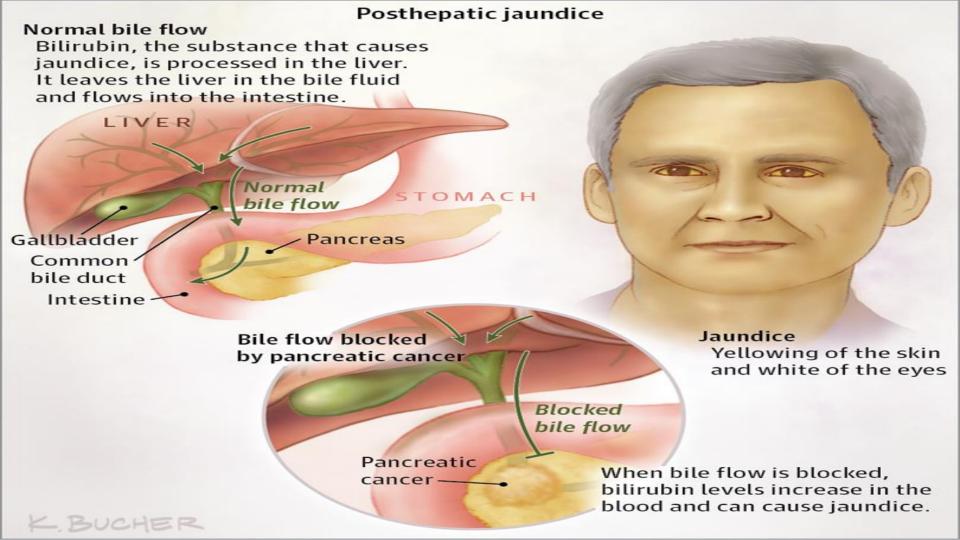
quitting alcohol nutrition supplements liver transplant, in severe cases

For leptospirosis:

antibiotics for infection ventilator for breathing trouble dialysis for kidney damage

For liver cancer:

chemotherapy or radiation to kill cancer cells partial liver resection liver transplant



drained properly into the bile ducts or digestive tract because of a blockage.

Causes of post-hepatic jaundice

Causes of post-hepatic jaundice may include Trusted Source:
gallstones, hard calcium deposits in the gallbladder that can block bile ducts
pancreatic cancer, the development and spread of cancer cells in

bile duct cancer, the development and spread of cancer cells in your bile

biliary atresia, a genetic condition in which you have narrow or missing

the pancreas, an organ that helps produce digestive substances

pancreatitis, an inflammation or infection of your pancreas

ducts

bile ducts

Post-hepatic, or obstructive jaundice, happens when bilirubin can't be

Symptoms of post-hepatic jaundice

feeling sick throwing up dark urine or pale stool abdominal pain diarrhea abnormal weight loss skin itching abdominal swelling fever

Diagnosis of post-hepatic jaundice

a urinalysis to measure levels of substances in your urine blood tests, such as a complete blood count (CBC) and antibody tests for cancer, or liver function tests to rule out hepatic jaundice imaging tests, such as an MRI, ultrasound, or HIDA scan, to examine your liver, gallbladder, and bile ducts for obstructions like gallstones or tumors

an endoscopy, which involves inserting a thin, lighted tube down the esophagus to look at your liver, gallbladder, or bile ducts and take a tissue sample if necessary for analysis for cancer or other conditions

Post-hepatic jaundice treatment

Treatment for post-hepatic jaundice will address the cause.

For gallstones:

changing your diet to stop producing gallstones removing gallstones or your gallbladder entirely taking medications or treatments to dissolve gallstones

For pancreatic cancer:

surgery to remove cancerous tissue or your whole pancreas radiation or chemotherapy to destroy cancer cells

For bile duct cancer:

surgery to remove bile ducts and parts of your liver and pancreas radiation or chemotherapy to destroy cancer cells liver transplant

For pancreatitis:

rest

intravenous (IV) fluids or pain medication surgery to remove any causes of inflammation (like gallstones)

For biliary atresia:

the Kasai procedure to remove and replace ducts liver transplant



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