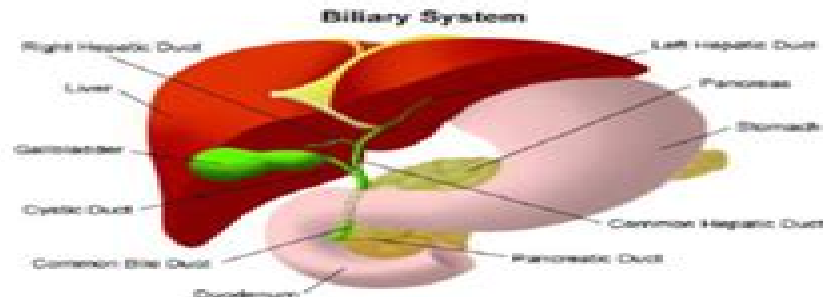


HEPATOBIILIARY AND PANCREATIC DISORDERS

Anatomy and Physiology

1. The liver, one of the body's most important organs, has many metabolic and regulatory roles. However, its digestive system function is to produce bile for export to the duodenum.
2. The liver and gallbladder are accessory organs associated with the small intestine.
3. Bile is a fat emulsifier that breaks down fats into tiny particles to make them more readily digestible. Although the liver also processes nutrient-laden venous blood delivered to it from the digestive organs, this is a metabolic rather than a digestive role.



Gross Anatomy of the Liver

- a. The ruddy, blood-rich liver is the largest gland in the body, weighing about 1.4 kg (3 lb) in the average adult.
- b. Shaped like a wedge, it occupies most of the right hypochondriac and epigastric regions extending farther to the right of the body midline than to the left.
- c. Located under the diaphragm, the liver lies almost entirely within the rib cage, which provides
- d. some protection.
- e. The liver has four primary lobes. The largest, the right lobe, is visible on all liver surfaces and separated from the smaller left lobe by a deep fissure.
- f. Bile leaves the liver through several bile ducts that ultimately fuse to form the large common hepatic duct, which travels downward toward the duodenum.

Microscopic Anatomy of the Liver

- a. The liver is composed of sesame seed-sized structural and functional units called **liver lobules**. Each lobule is a roughly hexagonal (six-sided) structure consisting of plates of liver cells, or **hepatocytes**, organized like bricks in a garden wall.
- b. The hepatocytes also:
 - Process blood borne nutrients in various ways (e.g., they store glucose as glycogen and use amino acids to make plasma proteins)
 - Store fat-soluble vitamins
 - Play important roles in detoxification, such as ridding the blood of ammonia by converting it to urea

Composition of Bile

- ☐ Bile is a yellow-green, alkaline solution containing bile salts, bile pigments, cholesterol, triglycerides, phospholipids (lecithin and others), and a variety of electrolytes. Of these, only bile salts and phospholipids aid the digestive process.
- ☐ Bile salts, primarily cholic and chenodeoxycholic acids, are cholesterol derivatives.
 1. Their role is to emulsify fats—break them down into smaller pieces and distribute them throughout the watery intestinal contents, just as dish detergent breaks up a pool of fat droppings in a roasting pan.
 2. Bile salts physically separate large fat globules entering the small intestine into millions of smaller, more accessible fatty droplets that provide large surface areas for the fat-digesting enzymes to work on.
 3. Bile salts also facilitate fat and cholesterol absorption. In addition, they help solubilize cholesterol, both that contained in bile and that entering the small intestine in food.

Laboratory and Diagnostic Tests

1. **Hepatobiliary Scan**
 - a. Noninvasive nuclear medicine study (also referred to as HIDA scan based on the isotopes use)
 - b. Aids in the diagnoses of hepatobiliary disorders such as common bile duct obstruction, acute and chronic cholecystitis, bile leak, biliary atresia, and liver transplant function
 - c. A radioactive agent is administered I.V. It is taken up by the hepatocytes and excreted rapidly through the biliary tract.

Test Bank For Hepatobiliary And Pancreatic Disorders

Daniela Niemeyer



Test Bank For Hepatobiliary And Pancreatic Disorders:

The Top Books of the Year Test Bank For Hepatobiliary And Pancreatic Disorders The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Test Bank For Hepatobiliary And Pancreatic Disorders : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Test Bank For Hepatobiliary And Pancreatic Disorders

1. Understanding the eBook Test Bank For Hepatobiliary And Pancreatic Disorders
 - The Rise of Digital Reading Test Bank For Hepatobiliary And Pancreatic Disorders
 - Advantages of eBooks Over Traditional Books
2. Identifying Test Bank For Hepatobiliary And Pancreatic Disorders
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Test Bank For Hepatobiliary And Pancreatic Disorders
 - User-Friendly Interface
4. Exploring eBook Recommendations from Test Bank For Hepatobiliary And Pancreatic Disorders
 - Personalized Recommendations
 - Test Bank For Hepatobiliary And Pancreatic Disorders User Reviews and Ratings
 - Test Bank For Hepatobiliary And Pancreatic Disorders and Bestseller Lists
5. Accessing Test Bank For Hepatobiliary And Pancreatic Disorders Free and Paid eBooks
 - Test Bank For Hepatobiliary And Pancreatic Disorders Public Domain eBooks
 - Test Bank For Hepatobiliary And Pancreatic Disorders eBook Subscription Services
 - Test Bank For Hepatobiliary And Pancreatic Disorders Budget-Friendly Options
6. Navigating Test Bank For Hepatobiliary And Pancreatic Disorders eBook Formats
 - ePub, PDF, MOBI, and More
 - Test Bank For Hepatobiliary And Pancreatic Disorders Compatibility with Devices
 - Test Bank For Hepatobiliary And Pancreatic Disorders Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Test Bank For Hepatobiliary And Pancreatic Disorders
 - Highlighting and Note-Taking Test Bank For Hepatobiliary And Pancreatic Disorders
 - Interactive Elements Test Bank For Hepatobiliary And Pancreatic Disorders
8. Staying Engaged with Test Bank For Hepatobiliary And Pancreatic Disorders

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Test Bank For Hepatobiliary And Pancreatic Disorders
- 9. Balancing eBooks and Physical Books Test Bank For Hepatobiliary And Pancreatic Disorders
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Test Bank For Hepatobiliary And Pancreatic Disorders
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Test Bank For Hepatobiliary And Pancreatic Disorders
 - Setting Reading Goals Test Bank For Hepatobiliary And Pancreatic Disorders
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Test Bank For Hepatobiliary And Pancreatic Disorders
 - Fact-Checking eBook Content of Test Bank For Hepatobiliary And Pancreatic Disorders
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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