

**M.Ch. – HEPATO PANCREATICO BILIARY SURGERY**

**Paper IV – HPB AS APPLIED TO ALLIED SCIENCES AND  
RECENT ADVANCES IN HPB SURGERY**

***Q.P. Code: 181974***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Describe in detail about the current management of colorectal liver metastasis.
2. Describe in detail the radiological image workstation platforms and its applications in liver resections including liver transplantation.

**II. Write notes on:** **(10 x 7 = 70)**

1. Argon plasma coagulation.
2. Usage of thrombo-elastography.
3. Endosonography in pancreatic diseases.
4. Use of indocyanine green in HPB surgery.
5. Newer antiviral therapy for hepatitis C.
6. Simulation in surgical training.
7. Ventilator associated pneumonia.
8. Use of robotics in HPB surgery.
9. ALPPSS procedure.
10. Newer immunosuppressants in liver transplantation.

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(MCH 0821)

**AUGUST 2021**

Sub. Code: 1974

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***Q.P. Code: 181974***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Advances in the management of necrotizing pancreatitis with evidences.
2. Role of laparoscopic and robotic techniques in liver surgery.

**II. Write notes on:** **(10 x 7 = 70)**

1. Immunonutrition in liver diseases.
2. Liver donation after cardiac death.
3. Islet cell auto transplantation.
4. Irreversible electroporation in liver and pancreatic cancer.
5. Image guided liver surgery.
6. ESWL in chronic pancreatitis.
7. Adjuvant therapies in pancreatic adenocarcinoma.
8. Artery first approach in pancreaticoduodenectomy.
9. Endotherapy in gallstone disease.
10. Auxillary liver transplantation.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**(MCH 0822)**

**AUGUST 2022**

**Sub. Code: 1974**

**M.Ch. – HEPATO PANCREATICO BILIARY SURGERY**

**Paper IV – HPB AS APPLIED TO ALLIED SCIENCES AND  
RECENT ADVANCES IN HPB SURGERY**

***Q.P. Code: 181974***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Artificial liver support systems for liver failure.
2. Applications of Artificial intelligence including augmented reality for hepato pancreato biliary surgeons.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Contrast agents used during CT scan for hepato pancreato biliary disease.
2. Radical antegrade modular pancreateosplenectomy (RAMPS).
3. Role of PET CT in pancreatic neuro endocrine tumours.
4. Endoscopic management of portal cavernoma cholangiopathy.
5. Indocyanine green fluorescence cholangiography.
6. Recent advances in chemotherapy for pancreatic carcinoma.
7. Applications of splenic artery embolization.
8. Pathophysiology, diagnosis and management of tumour lysis syndrome.
9. Neoadjuvant chemotherapy for gallbladder carcinoma.
10. Tranexamic acid during hepatectomy.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**(MCH 0124)**

**JANUARY 2024**

**Sub. Code: 1974**

**M.Ch. – HEPATO PANCREATICO BILIARY SURGERY**

**PAPER IV – HPB AS APPLIED TO ALLIED SCIENCES AND  
RECENT ADVANCES IN HPB SURGERY**

***Q.P. Code: 181974***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Post hepatectomy liver failure – review of the current concepts.
2. Evaluation and management of perihilar Cholangiocarcinoma.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Role of Plasma exchange (PLEX) in treatment of Acute Liver Failure.
2. Newer Oral anticoagulant drugs.
3. Mirizzi syndrome.
4. Portal biliopathy.
5. RAVAS (heterotopic transplantation of segments 2 and 3 using the splenic vein and artery after splenectomy and with delayed total hepatectomy) procedure. Write briefly the role of this procedure.
6. Hepatic Arterial Buffer Response in Liver Transplant Recipients: Implications and Treatment Options.
7. Importance of performance status in HPB oncology.
8. Non-Functional Neuroendocrine tumors (NET) of pancreas.
9. Evaluation of Pancreatic cystic neoplasm.
10. The POINTER (Postponed or Immediate Drainage of Infected Necrotizing Pancreatitis) trial.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**(MCH 0225)**

**FEBRUARY 2025**

**Sub. Code: 1974**

**M.Ch. BRACH XIII – HEPATO PANCREATICO BILIARY SURGERY**

**PAPER IV – HPB AS APPLIED TO ALLIED SCIENCES AND  
RECENT ADVANCES IN HPB SURGERY**

***Q.P. Code: 181974***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. How are pancreatic neuro endocrine tumours evaluated, graded and staged? Discuss the different scenarios where dual PET scan is being evaluated for pancreatic neuro endocrine tumour.
2. Adjuvant therapy for hepatocellular carcinoma. Recent advances in systemic therapy for hepatocellular carcinoma

**II. Write notes on:**

**(10 x 7 = 70)**

1. Complications following transarterial chemo embolization.
2. Application of the WATERFALL trial (Early Weight-Based Aggressive vs Nonaggressive Goal-Directed Fluid Resuscitation) in management of acute pancreatitis
3. Per oral cholangioscopy – equipment, techniques and applications.
4. Present status of hepatic xenotransplantation.
5. Hepatobiliary contrast agents for MRI scans.
6. Stereotactic body radiation therapy for liver tumours.
7. Tabulate the significant advantages and disadvantages of energy based ablative therapies for hepatic tumour treatment.
8. Gallbladder reporting and Data System (GB RADS) for risk stratification of gallbladder wall thickening on ultrasonography.
9. Single incision laparoscopic cholecystectomy and its current status.
10. Radiological findings in hepatocellular adenoma.

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