The Singapore General Hospital (SGH) is Singapore's flagship hospital. With more than 30 specialties, it provides holistic and comprehensive patient care.

As an academic healthcare institution, SGH provides postgraduate training and plays a major role in undergraduate training and clinical teaching for medical professionals locally and in the region. It is also committed to innovative translational and clinical research to provide the best possible care for patients.

Our Doctors

1. Daily Outpatient Specialist Clinics
   We provide daily consultation at our one-stop specialist Centre for Digestive and Liver Divisions (CDLD) located at Basement 1, Singapore General Hospital Block 3.

2. 24-hr Inpatient/Emergency HPB/Transplant Consultation
   Our department supports emergency services and is available 24/7 nationwide.

3. Transplantation
   Cadaveric or living-related liver transplantation is for selected patients with severe chronic liver disease or liver cirrhosis and those with primary liver cancers.

   Pancreas transplantation is a newly available treatment modality for Type 1 diabetics (with simultaneous kidney transplantation for end-stage renal failure) in Singapore.

4. Multidisciplinary Approach
   The Hepatopancreatobiliary (HPB) service offers minimally-invasive (laparoscopic) surgery for various gastrointestinal and pancreatic pathologies and cancers such as laparoscopic suturing in extremely small spaces or lymph node dissection along major vessels, to be performed with relative ease.

5. Minimally invasive (Laparoscopic)
   The HPB service offers minimally-invasive (laparoscopic) surgery for selected patients requiring liver or pancreatic resections. Patients benefit from smaller incisions, faster recovery and a shorter hospital stay.

   The da Vinci Surgical Robot system offers high-resolution 3D view, tremor filter, the ability to scale motions and instruments that allow for motion similar to a human wrist. This enables complex manoeuvres, such as laparoscopic suturing in extremely small spaces or lymph node dissection along major vessels, to be performed with relative ease.

7. General Surgery
   We perform all general abdominal surgical operations for various pathologies and cancers such as bowel resections, appendicectomies and splenectomies.

Conditions We Treat

- Conditions We Treat

- Our Services

- Our Doctors

- Services We Provide

- Our Surgeons

- GPs can call for appointments through the GP hotline at 6321 4402.
The Department of Hepato-Pancreato-Biliary and Transplant Surgery specialises in treating benign and malignant diseases of the liver, pancreas, gallbladder and bile ducts.

Our experienced team of surgeons is adept at performing complex operations of the liver, pancreas, bile duct and gallbladder. Besides providing cutting-edge surgical services to our local patients, we are also the regional referral centre as well as a leading centre for our patients from the local and international population, especially those from South-east Asia. The Department is involved heavily in clinical and basic science research with more than 200 scientific publications over the past 10 years.

We are heavily involved and spearheaded numerous international multicenter clinical trials treating patients with HPB malignancies. This allows our patients to gain access to the latest and costliest cancer treatments which would otherwise not be available and frequently at no additional cost.

We also offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

The Department of Hepato-Pancreato-Biliary and Transplant Surgery is an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

The Department of Hepato-Pancreato-Biliary and Transplant Surgery is an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

DEPARTMENT OF HEPATOPANCREATOBILIARY AND TRANSPLANT SURGERY

The Department of Hepato-Pancreato-Biliary and Transplant Surgery specialises in treating benign and malignant diseases of the liver, pancreas, gallbladder and bile ducts.

Our experienced team of surgeons is adept at performing complex operations of the liver, pancreas, bile duct and gallbladder. Besides providing cutting-edge surgical services to our local patients, we are also the regional referral centre as well as a leading centre for our patients from the local and international population, especially those from South-east Asia. The Department is involved heavily in clinical and basic science research with more than 200 scientific publications over the past 10 years.

We are heavily involved and spearheaded numerous international multicenter clinical trials treating patients with HPB malignancies. This allows our patients to gain access to the latest and costliest cancer treatments which would otherwise not be available and frequently at no additional cost.

We also offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

The HPB service has also developed significant expertise in radical surgery which is frequently requested for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal venous embolisation are important strategies performed with interventional radiologists and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular reconstructions and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singhealth General Surgery, Surgery in General and Transplantation year residency programs.
The Department sees patients at the one-stop multidisciplinary Centre for Digestive & Liver Diseases (CDLD) located at Singapore General Hospital, of clinical research.

We are also the regional referral centre as well as a leading centre for surgery, bile duct and gall bladder. Besides providing cutting-edge surgical services to our local population, we are also the regional referral centre as well as a leading centre of clinical research.

The department sees patients at the one-stop multidisciplinary Centre for Digestive & Liver Diseases (CDLD) located at Singapore General Hospital, of clinical research.

Our experienced team of surgeons is adept at performing complex operations of the liver, pancreas, bile duct and gall bladder. Besides providing cutting-edge surgical services to our local population, we are also the regional referral centre as well as a leading centre of clinical research.

The department sees patients at the one-stop multidisciplinary Centre for Digestive & Liver Diseases (CDLD) located at Singapore General Hospital, of clinical research.

The HPB service has also developed significant expertise in radical surgery which is frequently required for cancer of the bile duct and gall bladder. Selective pre-operative biliary drainage and portal vein embolisation are important strategies performed with intervention radiology, medical oncology and hepatology to offer patients other treatment modalities.

The HPB service has also developed significant expertise in radical surgery which is frequently required for cancer of the bile duct and gall bladder. Selective pre-operative biliary drainage and portal vein embolisation are important strategies performed with intervention radiology, medical oncology and hepatology to offer patients other treatment modalities.

The HPB service has also developed significant expertise in radical surgery which is frequently required for cancer of the bile duct and gall bladder. Selective pre-operative biliary drainage and portal vein embolisation are important strategies performed with intervention radiology, medical oncology and hepatology to improve outcome.

Our service is also adept in performing complex vascular resections and reconstructions for locally advanced cancers which would otherwise be deemed inoperable.

Endoscopic and laparoscopic (minimally invasive surgery or MIS) procedures are the main modalities of treatment in stone disease while special surgical techniques, including the creation of subcutaneous enteric access are used in the management of the more challenging cases of recurrent pyogenic cholangitis. We perform all types of pancreatic resections including Whipple procedure (including pylorus preserving pancreaticoduodenectomy), total pancreatectomy, enucleation, distal pancreatectomy and pancreatico-enteric bypass. We also adopt minimally-invasive approaches for selected procedures in appropriate patients.

The HPB service has also developed significant expertise in radical surgery which is frequently required for cancer of the bile duct and gall bladder. Selective pre-operative biliary drainage and portal vein embolisation are important strategies performed with intervention radiology, medical oncology and hepatology to improve outcome.

Our service is also adept in performing complex vascular resections and reconstructions for locally advanced cancers which would otherwise be deemed inoperable.

Research and Education

Our department is heavily involved in clinical and basic science research with more than 200 scientific publications over the past 10 years.

We are heavily involved and spear-headed numerous international multi-center clinical trials treating patients with HPB malignancies. This allows our patients to gain access to the latest and coelected cancer treatments which would otherwise not be available and frequently at no additional costs.

We also offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

We are also part of the SingHealth General Surgery, Surgery in General and Translational Year residency programs.

The HPB service has also developed significant expertise in radical surgery which is frequently required for cancer of the bile duct and gall bladder. Selective pre-operative biliary drainage and portal vein embolisation are important strategies performed with intervention radiology, medical oncology and hepatology to improve outcome.

Our service is also adept in performing complex vascular resections and reconstructions for locally advanced cancers which would otherwise be deemed inoperable.

Diseases especially cancers of the liver, pancreas, gallbladder and bile ducts are relatively common and frequently require surgery for complete recovery and good long-term outcome. Surgery usually offers the only chance of cure for HPB cancers and these frequently require complex major operations which are best performed in a high-volume tertiary centre.

Our experienced team of surgeons is adept at performing complex operations of the liver, pancreas, bile duct and gall bladder. Besides providing cutting-edge surgical services to our local population, we are also the regional referral centre as well as a leading centre of clinical research.

We are also the regional referral centre as well as a leading centre of clinical research.

We are also the regional referral centre as well as a leading centre of clinical research.
The Department of Hepato-pancreato-biliary and Transplant Surgery, located at Singapore General Hospital, is a high-volume tertiary centre specialising in treating benign and malignant diseases of the liver, pancreas, gallbladder and bile ducts. Our department sees patients at the one-stop multidisciplinary Centre for Digestive & Liver Diseases (CDLD) located at Singapore General Hospital, as well as a leading centre for clinical research.

The department is adept at performing complex major operations which are best performed in a high-volume tertiary centre. Surgery usually offers the only chance of cure for HPB cancers and these frequently require complex major operations which are best performed in a high-volume tertiary centre.

### Surgical Diseases of the Liver
- **Primary liver cancer such as hepatocellular carcinoma (HCC) and peripheral cholangiocarcinoma are common in South-east Asia.** Surgery is the best chance for cure. For HCC detected in cirrhotic liver, the patient’s poor liver reserve, liver transplantation is useful to eradicate the tumour and exchange with a new liver.
- **Secondary liver cancer such as colorectal metastasis** frequently requires surgical resection for optimal outcomes. Patients are comprehensively assessed in multidisciplinary meetings with our medical oncology and colorectal surgery colleagues regarding suitability and optimal timing for resection.
- **Other Treatment Modalities** When surgery is neither indicated nor useful, patients are discussed at multidisciplinary meetings where we work closely with colleagues in Interventional Radiology, Nuclear Medicine, Medical Oncology and Hepatology to offer other patients other treatment modalities.

### Surgical Diseases of the Gallbladder and Biliary System
- **Gallbladder stones**
- **Bile duct stones**
- **Recurrent Pyogenic Cholangitis (RPC)**
- **Cancers involving the gallbladder and bile duct**

### Surgical Diseases of the Pancreas
- **Solid cancers of the pancreas**
- **Cystic lesions of the pancreas**

Endoscopic and laparoscopic (minimally invasive surgery or MIS) procedures are the main modalities of treatment in stone disease while special surgical techniques, including the creation of subcutaneous enteric access are used in the management of the more challenging cases of recurrent pyogenic cholangitis.

The HPB service has also developed significant expertise in radical surgery which is frequently required for cancers of the bile duct and gallbladder. Selective pre-operative biliary drainage and portal vein embolisation are important strategies performed with interventional radiologist and gastroenterologist to improve outcome.

Our service is also adept in performing complex vascular resections and reconstructions for locally-advanced cancers which would otherwise be deemed unresectable.

### Gallstone Disease
- **Laparoscopic cholecystectomy** is currently the standard surgical method of treating symptomatic gallbladder stone disease. In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

### Gallbladder Disease
- **Laparoscopic cholecystectomy** is currently the standard surgical method of treating symptomatic gallbladder stone disease. In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

We offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

Our service is also adept in performing complex vascular resections and reconstructions for locally-advanced cancers which would otherwise be deemed unresectable.

As an established centre specialising in HPB and Transplantation Surgery in Singapore, we attract surgeons from all over the country and region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the SingHealth General Surgery, Surgery in General and Translational Year residency programs.
About Singapore General Hospital

As an academic healthcare institution, SGH provides postgraduate training and plays a major role in undergraduate training and clinical teaching for medical professionals locally and in the region. It is also committed to innovative translational and clinical research to provide the best possible care for patients.

The Singapore General Hospital (SGH) is Singapore’s flagship hospital. With more than 30 specialties, it provides holistic and comprehensive patient care. JCI-accredited, it is also the national referral centre for Haematology, Orthopaedic Surgery, Pathology and Plastic Surgery (Burns).

About Singapore General Hospital

Primary Healthcare                          Community Hospital               Partner in Academic Medicine

Academic Healthcare Cluster

National Specialty Centres

Tertiary Hospitals

Our Services

Conditions We Treat

Our Doctors

We provide daily consultation at our one-stop specialist Centre for Digestive and Liver Diseases (CDLD) located at Basement 1, Singapore General Hospital Block 3.

24-hr Inpatient/Emergency HPB/Transplant Consultation

Our department supports emergency services and is available for patients in other hospitals. Requests are made via an emergency consults line.

3. Transplantation

Cadaveric or living-related liver transplantation is for selected patients with severe chronic liver disease or liver cirrhosis and those with primary liver cancers.

Pancræo-pancreaticoduodenectomy (Whipple’s operation) offers high-resolution 3D view, a tumor filter, the ability to scale motions and instruments that allow for motion similar to a human wrist. This enables more complex manoeuvres, such as laparoscopic suturing in extremely small spaces or lymph node dissection along major vessels, to be performed with relative ease.

Our Surgeons

Services We Provide

We perform all general abdominal surgical operations for various pathologies and cancers such as bowel resections, appendicectomies and splenectomies.

GP hotline: 6321 4402
Tel: 6321 4377    Fax: 6224 9221

Outram Road Singapore 169608

www.singhealth.com.sg

Printed in May 2014  Reg No.:198705907Z

Transplant Consultation

Transplantation

Multidisciplinary approach to the care of Asian patients.

Transplantation

5. Minimally invasive (Laparoscopic) Surgery

The HPB service offers minimally-invasive (laparoscopic) surgery for selected patients requiring liver or pancreatic resections. Patients benefit from smaller incisions, faster recovery and a shorter hospital stay.


The da Vinci Surgical Robot system is used for complex cases, and offers high-definition images, tremor filtering, as well as instruments that provide 8 degrees of freedom and 7-mm incisions.

Our Surgeons

Our Surgeons

Multidisciplinary liver transplant meetings and rounds are held to discuss potential recipient/donor and follow-up cases.

1. Daily Outpatient Specialist Clinics

We provide free daily consultation at our one-stop specialist Centre for Digestive and Liver Diseases (CDLD) located at Basement 1, Singapore General Hospital Block 3.

2. 24-hr Inpatient/Emergency HPB/Transplant Consultation

Our department supports emergency services and is available for patients in other hospitals. Requests are made via an emergency consults line.


The da Vinci Surgical Robot system is used for complex cases, and offers high-definition images, tremor filtering, as well as instruments that provide 8 degrees of freedom and 7-mm incisions.

Our Surgeons

Multidisciplinary liver transplant meetings and rounds are held to discuss potential recipient/donor and follow-up cases.

1. Daily Outpatient Specialist Clinics

We provide free daily consultation at our one-stop specialist Centre for Digestive and Liver Diseases (CDLD) located at Basement 1, Singapore General Hospital Block 3.

2. 24-hr Inpatient/Emergency HPB/Transplant Consultation

Our department supports emergency services and is available for patients in other hospitals. Requests are made via an emergency consults line.


The da Vinci Surgical Robot system is used for complex cases, and offers high-definition images, tremor filtering, as well as instruments that provide 8 degrees of freedom and 7-mm incisions.

Our Surgeons

Multidisciplinary liver transplant meetings and rounds are held to discuss potential recipient/donor and follow-up cases.

1. Daily Outpatient Specialist Clinics

We provide free daily consultation at our one-stop specialist Centre for Digestive and Liver Diseases (CDLD) located at Basement 1, Singapore General Hospital Block 3.

2. 24-hr Inpatient/Emergency HPB/Transplant Consultation

Our department supports emergency services and is available for patients in other hospitals. Requests are made via an emergency consults line.


The da Vinci Surgical Robot system is used for complex cases, and offers high-definition images, tremor filtering, as well as instruments that provide 8 degrees of freedom and 7-mm incisions.

Our Surgeons

Multidisciplinary liver transplant meetings and rounds are held to discuss potential recipient/donor and follow-up cases.

1. Daily Outpatient Specialist Clinics

We provide free daily consultation at our one-stop specialist Centre for Digestive and Liver Diseases (CDLD) located at Basement 1, Singapore General Hospital Block 3.

2. 24-hr Inpatient/Emergency HPB/Transplant Consultation

Our department supports emergency services and is available for patients in other hospitals. Requests are made via an emergency consults line.


The da Vinci Surgical Robot system is used for complex cases, and offers high-definition images, tremor filtering, as well as instruments that provide 8 degrees of freedom and 7-mm incisions.

Our Surgeons

Multidisciplinary liver transplant meetings and rounds are held to discuss potential recipient/donor and follow-up cases.

1. Daily Outpatient Specialist Clinics

We provide free daily consultation at our one-stop specialist Centre for Digestive and Liver Diseases (CDLD) located at Basement 1, Singapore General Hospital Block 3.

2. 24-hr Inpatient/Emergency HPB/Transplant Consultation

Our department supports emergency services and is available for patients in other hospitals. Requests are made via an emergency consults line.


The da Vinci Surgical Robot system is used for complex cases, and offers high-definition images, tremor filtering, as well as instruments that provide 8 degrees of freedom and 7-mm incisions.

Our Surgeons

Multidisciplinary liver transplant meetings and rounds are held to discuss potential recipient/donor and follow-up cases.
The Singapore General Hospital (SGH) is Singapore’s flagship hospital. With more than 30 specialties, it provides holistic and comprehensive patient care.

As an academic healthcare institution, SGH provides postgraduate training and plays a major role in undergraduate training and clinical teaching for medical professionals locally and in the region.

It is also committed to innovative translational and clinical research to provide the best possible care for patients.

About Singapore General Hospital

The Hepatopancreatobiliary (HPB) service offers minimally-invasive (laparoscopic) surgery for selected patients requiring liver or pancreatic resections. Patients benefit from smaller incisions, faster recovery and a shorter hospital stay.

5. Minimally invasive (Laparoscopic) surgery is for selected patients requiring liver or pancreatic resections. Patients benefit from smaller incisions, faster recovery and a shorter hospital stay.

6. Robotic Surgery (da Vinci Robot) – The da Vinci Surgical Robot system offers high-resolution 3D view, tremor filter, the ability to scale motions and instruments that allow for motion similar to a human wrist. This enables complex manoeuvres, such as laparoscopic suturing in extremely small spaces or lymph node dissection along major vessels, to be performed with relative ease.

7. General Surgery – We perform all general abdominal surgical operations for various pathologies and cancers such as bowel resections, appendicectomies and splenectomies.

GP hotline : 6321 4402
Tel : 6321 4377    Fax : 6224 9221
Outram Road Singapore 169608

www.singhealth.com.sg

Printed in May 2014  Reg No.:198705907Z
The Department of Hepato-Pancreato-Biliary (HPB) and Transplant Surgery specialises in treating benign and malignant diseases of the liver, pancreas, gallbladder and bile ducts.

Our experienced team of surgeons is adept at performing complex operations of the liver, pancreas, bile duct and gallbladder. Besides providing cutting-edge surgical services to our local patients, we are also the regional referral centre as well as a leading centre in the local population, we are also the regional reference for cutting-edge surgical services to our colleagues in the region who are interested in advancing their skills in this field. Currently, we offer 6 to 12 monthly fellowships in HPB surgery. We are also part of the Singapore General Hospital, Surgery in General and Transitional Year residency programs.

### Diseases We Treat

#### Surgical Diseases of the Liver
- **Primary liver cancer** such as hepatocellular carcinoma (HCC) and peripheral cholangiocarcinoma are common in South-east Asia. Surgery is the best chance for cure. For HCC detected in cirrhotic liver, surgical resection is the treatment of choice as cure is only possible at an early stage.
- **Cancer invading the bile duct** and the common bile duct usually require surgical resection with wide resection margins and often with a new liver.

#### Surgical Diseases of the Gallbladder and Biliary System

Common conditions include:
- **Gallbladder stones**
- **Bile duct stones**
- **Recurrent Pyogenic Cholangitis (RPC)**
- **Cancer involving the gallbladder and bile ducts**

#### Endoscopic and laparoscopic surgical procedures are the main modalities of treatment in stone disease while special surgical techniques, including the creation of subcutaneous enteric access are used in the management of the more challenging cases of recurrent pyogenic cholangitis.

#### Other Treatment Modalities

When surgery is neither indicated nor useful, patients are discussed at multidisciplinary meetings where we work closely with colleagues in Interventional Radiology, Nuclear Medicine, Medical Oncology and Hepatology to offer patients other treatment modalities.

#### Research and Education

Our department is involved heavily in clinical and basic science research with more than 200 scientific publications over the past 10 years. We are heavily involved and spearhead numerous international multi-center clinical trials treating patients with HPB malignancies. This allows our patients to gain access to the latest and costliest cancer treatments which would otherwise not be available and frequently at no additional cost.

We also offer single-incision laparoscopic surgery (SILS) whereby the entire operation is performed via 2.5-cm incision through the belly-button for selected patients resulting in a near ‘scarless’ abdomen after surgery.

Our service is also adept in performing complex vascular resections and reconstructions for locally-advanced cancers which would otherwise be deemed inoperable.

### Research

- **Laparoscopic cholecystectomy** is currently the standard surgical method of treating symptomatic gallbladder stone disease.

In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

### Gallstone Disease

#### Laparoscopic cholecystectomy

- This is the current standard method of treating symptomatic gallbladder stone disease.
- In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

#### Laparoscopic procedures

- **Laparoscopic cholecystectomy** is preferred for mild to moderate acute inflammation.
- **Laparoscopic sphincterotomy** is preferred for patients with severe acute inflammation.
- **Laparoscopic drainage** is preferred for patients with peritonitis.

#### Open procedures

- **Cholecystectomy** is preferred for patients with severe acute inflammation and peritonitis.
- **Laparotomy** is preferred for patients with severe acute inflammation, peritonitis and failure of previous laparoscopic procedures.

#### Recurrent Pyogenic Cholangitis

- **Antibiotics** are the main treatment for recurrent pyogenic cholangitis.
- **Endoscopic retrograde cholangiopancreatography (ERCP)** is performed to relieve biliary obstruction.
- **Biliary stenting** is performed to prevent biliary stricture.
- **Laparoscopic cholecystectomy** is performed for symptomatic gallbladder disease.

#### Bile duct stones

- **Endoscopic retrograde cholangiopancreatography (ERCP)** is performed to remove bile duct stones.
- **Percutaneous transhepatic cholangiography (PTC)** is performed to drain bile duct stones.
- **Surgical drainage** is performed for bile duct stones which are not amenable to endoscopic or percutaneous treatment.

#### Gallbladder stones

- **Laparoscopic cholecystectomy** is the standard surgical method of treating symptomatic gallbladder stone disease.
- In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

#### Gallstone Disease

- **Laparoscopic cholecystectomy** is currently the standard surgical method of treating symptomatic gallbladder stone disease.
- In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

#### Gallstone Disease

- **Laparoscopic cholecystectomy** is currently the standard surgical method of treating symptomatic gallbladder stone disease.
- In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

#### Gallstone Disease

- **Laparoscopic cholecystectomy** is currently the standard surgical method of treating symptomatic gallbladder stone disease.
- In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.

#### Gallstone Disease

- **Laparoscopic cholecystectomy** is currently the standard surgical method of treating symptomatic gallbladder stone disease.
- In some patients, the procedure may not be possible because of acute or chronic inflammation of the gallbladder or because of previous abdominal surgery. Such patients will then require conventional or open cholecystectomy. Laparoscopic cholecystectomy is otherwise safe and successful in most patients.
As an academic healthcare institution, SGH provides postgraduate training and plays a major role in undergraduate training and clinical teaching for medical professionals locally and in the region. It is also committed to innovative translational and clinical research to provide the best possible care for patients.

**About Singapore General Hospital**

The Singapore General Hospital (SGH) is Singapore’s flagship hospital. With more than 30 specialties, it provides holistic and comprehensive patient care. JCI-accredited, it is also the national referral centre for Haematology, Orthopaedic Surgery, Pathology and Plastic Surgery (Burns).

**About Singapore General Hospital Block 3**

As an academic healthcare institution, SGH provides postgraduate training and plays a major role in undergraduate training and clinical teaching for medical professionals locally and in the region. It is also committed to innovative translational and clinical research to provide the best possible care for patients.

**About Singapore General Hospital Block 3**

As an academic healthcare institution, SGH provides postgraduate training and plays a major role in undergraduate training and clinical teaching for medical professionals locally and in the region. It is also committed to innovative translational and clinical research to provide the best possible care for patients.

**About Singapore General Hospital**

The Singapore General Hospital (SGH) is Singapore’s flagship hospital. With more than 30 specialties, it provides holistic and comprehensive patient care. JCI-accredited, it is also the national referral centre for Haematology, Orthopaedic Surgery, Pathology and Plastic Surgery (Burns).