



The national Liver Institute, Located in Sheben El-Kom, Menoufia, was founded by the late Professor Yassen Abdel-ghaffar in 1986. The medical service, mainly started with outpatient clinic and endoscopy, later in 1990, extensions included in-patient department, operating room, ICU and hepatobiliary Surgery.

**The institute is based on three pillars of medical service, research and education.**

**Patient Care:** The institute is a tertiary referral center for liver, pancreatic and biliary diseases committed to serve the healthcare needs of those patients. We provide medical care for around 150,000 patients/year, 70 % of whom are from outside the menoufia governorate and of these 30% are even from outside the delta region. We have 15 000 admission /year and we perform over 15 000 endoscopy/year, 500-800 major operations /Year and 40-45 transplants /Year

**Postgraduate teaching:** National Liver Institute offers professional education & postgraduate degrees in Hepatology, Pediatric Hepatology & Hepatobiliary Surgery.

**Research:** The National Liver Institute support and sustains research of the highest quality and strengthens the culture of national & International collaboration.

Department of Hepatobiliary and liver transplant surgery serve all patients with liver, biliary and pancreatic surgical disease, also all liver patients with surgical problems. The department starts to have liver transplant program back to 1991. This is the first Living Donor Liver Transplant (LDLT) in Egypt, Middle East, and Africa and the 4th country after US, Germany and Japan. The program was held and restart in 2003 in collaboration with Kyoto University. More than 250 transplants were performed up to the present time. Liver transplantation at the institute is the least expensive in Egypt and is free of any expenses for all children. In addition to Egyptian patients we provide care for patients from Sudan, Libya, Syria, Oman, Palestine, Yemen and Nigeria.

**The Surgical Department has 8 highly equipped operative rooms for liver transplant (Pediatric & Adult) and HPB and laparoscopic surgeries.**

**Patient Care:** Operations of the surgical department in NLI:

### **A) ELECTIVE OPERATIONS**

- Biliary operations:
  - Cholecystectomy (open and laparoscopic) especially in cirrhotic patients that need specialized center (about 120/year).
  - CBD exploration and stone extraction (open and laparoscopic with choledoscope) (about 50/year).
  - Biliary enteric anastomosis for biliary strictures and biliary injuries and bile leak as such cases need specialized referral center in biliary surgeries as in our Liver Institute (about 55/year).
  - Operations for cholangiocarcinoma (peripheral, proximal CBD, or distal CBD): as liver resection, biliary enteric anastomosis, or pancreaticoduodenectomy). (About 30/Year).
  - Choledocal cyst (types I, II, III, IV, V (about 22/year).
  - Biliary atresia (type I, II, III) (about 35/year).
- Liver operations:
  - Liver resection: Especially in cirrhotic liver (laparoscopic or open):
  - All types of liver resections as: monosegmentectomy, bisegmentectomy (sectionectomy), Right or Lt Hepatectomy (bisectionectomy), Right or Lt extended hepatectomy (trisectionectomy) (about 70/year).
  - Liver resection for 1ry liver tumors as HCC, or cholangiocarcinoma (laparoscopic or open).
  - Liver resection for 2ry liver tumors as colorectal liver metastasis.
  - liver resection for cystic liver lesions as cystadenoma, cystadenocarcinoma, hydatid cyst.
  - Laparoscopic deroofting or drainage of cystic liver lesions (about 40/year).

- **Pancreatic operations:**

- Pancreaticoduodenectomy (Whipple's operation) for periampullary tumors (pancreatic, lower CBD, duodenum, ampullary) (about 40/year). The rate of these cases were increased this year after opening of the obstructive jaundice clinic.
- Operations for pancreatic cyst as cystic tumors or pseudopancreatic cyst.
- Operations for infected necrotizing pancreatitis or chronic pancreatitis.
- Distal pancreatectomy, mesoresection, or enucleation of pancreatic tumors.
- Total pancreatectomy.
- bypass operation for irresectable pancreatic head tumors as gastrojejunostomy and hepatico-jejunostomy.

- **Operations for portal hypertension:**

- Splenectomy and devascularization (about 30/year).

- **Abdominal wall hernias: specially in cirrhotic patients**

- Umbilical hernia, Inguinal hernia, Incisional hernia (about 90/year).

### **B) EMERGENCY OPERATIONS**

- Complicated abdominal wall hernia in cirrhotic patients as obstructed, strangulated, or ruptured hernia (about 160/year).
- Acute abdomen in cirrhotic patients as: mesenteric vascular occlusion, perforated peptic ulcer, intestinal obstruction (about 50/year).
- Acute appendicitis.
- Abdominal trauma with liver or splenic injury.

### **Types and Rate of operations/ yearly:**

- From 1991- start of 2016: 7786 surgical operation.
- 2012: 591 operations.
- 2013: 459 operations.
- 2014: 408 operations.
- 2015: 580 operations

**Outpatient clinic:** for preparation of new cases and follow up of patients after surgery (from 15-20 patients/day).

- General HBP clinic.
- HCC clinic.
- Obstructive Jaundice clinic.

### **POST GRADUATION**

The surgical department gives the master and doctorate degree in HPB and liver transplant surgery and it is the only center in Egypt that gives these specialized degrees.

Joint supervision of the surgical staff on the master and doctorate thesis of different Universities in Egypt, which is related to our speciality.

### **RESEARCH**

The surgical department does a lot of research work in the field of HPB and liver transplant surgery and different surgeries in cirrhotic patients. The department has many channels with different university in the world Such as: US (Tufts University, Harverd University, Pittesberg University, Mayo clinic, Florida University, Tennessee University) U.k ( Bremgham University, Hammersmith Hospital) Hongkong (Queen Mary Hospital, Hongkong University) Germany (Heidelberg University) Japan (Kyoto University) Swaziland (Bern University) Denmark (Aarhus University) Most of these researches were published in international and local journals.



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