

POST DOCTORAL FELLOWSHIP PROGRAMME **IN LIVER TRANSPLANTATION**

SYLLABUS

DURATION OF THE COURSE : ONE YEAR

The purpose of Fellowship programme in Liver Transplantation is to provide a structured educational and training experience necessary to achieve expertise in the understanding, diagnosis, and management (including the necessary surgical skills) in the treatment of diseases of the liver and Liver Transplantation.

This course is designed

- To provide trainees with actual knowledge and technical proficiency in the preoperative evaluation, operative management, and postoperative care of patients with disease of the liver and Liver Transplantation.
- To provide trainees with technical proficiency in liver transplantation.
- Demonstrate clinical, intra operative and peri operative decision making that is based upon sound medical knowledge that minimises complications and demonstrates an awareness of the limitations of clinical experience and technical skills.
- To provide trainees with understanding and experience in immunosuppression management.
- To provide trainees the ability to evaluate donor organs and perform multi-organ procurements.
- To provide experience in the management of patients in an intensive care setting.
- Manage and lead clinical teams in an efficient and harmonious manner to optimise patient management.

- To provide an environment in which clinical and basic science literature can be evaluated and assessed critically, leading to sound conclusions.
- To provide the ability and desire to ask important questions and initiate investigative studies
- To foster attitudes and interpersonal skills that will allow a trainee to communicate well with peers and patients, and to carry him or herself with dignity.

CURRICULUM

I) KNOWLEDGE

LIVER

- Anatomy and its anatomical variations.
- (Patho)physiology of the liver (including knowledge of physiology and pathophysiology of coagulation).
- Pathophysiology of liver failure (including hepatorenal and hepatopulmonary syndrome).
- Basic knowledge of functional liver diseases, parenchymal diseases like hepatitis, metabolic diseases and vascular abnormalities (Budd-Chiari).
- Primary malignant liver tumors: etiology, pathophysiology and complications, diagnosis, treatment and prognosis with and without treatment.
- Secondary malignant liver tumors: etiology, pathophysiology and complications, diagnosis, treatment and prognosis with and without treatment.
- Pathophysiological aspects of surgery in the cirrhotic liver.
- Basic knowledge on indications, contraindications and outcome of liver transplantation.
- Basic knowledge about diagnostic and intervention procedures like endoscopy (ERCP).

PORTAL SYSTEM

- Anatomy and (patho) physiology of the portal system, anatomical variations
- Portal hypertension : etiology, pathophysiology, complications, diagnosis, and portosystemic decompression treatments (surgical and non surgical

options, pro's and con's of the different methods) and outcome.

II) CLINICAL SKILLS

LIVER

- Work up of patients for Transplantation.
- Evaluation and decision making about surgery.
- Techniques in Liver transplantation.
- Intraoperative ultrasound evaluation of the liver.
- Techniques of vascular control of the liver.
- Perioperative care in Liver Transplantation.

PORTAL SYSTEM

- Conservative(pharmacological) management of portal hypertension and ascites.
- Portosystemic shunt operations.
- Blocking procedures.

MODULES

Clinics- 4 months

Evaluation of Donor and Recipient

Post op care after discharge & management of immune suppression.

Surgery – 4 months

Donor Retrieval – Live and Cadaveric

Recipient surgery- Hepatectomy and Implantation

Peri op care – 4 months

ICU management

Post op management till discharge from hospital.