

## **Hepatobiliary case discussion (8 am to 3 pm)**

### **1. Basic liver anatomy - Prof. Aloka Pathirana (30 min – 45 min discussion based on figures, images and liver specimen)**

- Liver segmental anatomy
  - Hilar anatomy
  - Venous anatomy
  - Main variations
  - Levier fascial sheaths
- (Surgical relevance of the anatomy)

### **2. Radiological anatomy of liver - Dr. Chinthaka Appuhami (30 min discussion based on images)**

- Identification of vascular anatomy in an image
- Identification of segments in a CT
- Basics in reading a liver CT

### **3. Basics in evaluation and planning a liver resection – Dr. Arinda Dharmapala (20 min)**

- Residual volume – (Introduction to the concept of residual volume)
- Background liver quality – (Assessment of liver quality - Discussion based on cases)
- Impact of anatomical location of lesion – (Image based discussion)
- Non-anatomical/Anatomical resection - (Open discussion)
- When not to operate liver – (Image based discussion)

### **4. Managing a common benign liver lesion – Dr. Prabath Kumarasinghe (1 hour)**

- Hepatic Adenoma - (Introduction, Work-up, Radiology, Treatment, Follow-up discussed - Max 5 slides)
- FNH - (Introduction, Work-up, Radiology, Treatment, Follow-up discussed - Max 5 slides)
- Hemangioma - (Introduction, Work-up, Radiology, Treatment, Follow-up discussed - Max 5 slides)

### **Case presentations and discussion**

- a. Adenoma needing surgery and follow-up
- b. Large FNH
- c. Benign Lesion without a diagnosis

(Discussion areas - Surgery Vs. follow-up, What surgery, Place for ablation, Place for embolization, Other special investigations, Biopsy and problems with biopsy)

### **5. Basics of managing a hepatocellular carcinoma – Dr. Niroshan Atalugama (1 hour and 30 min)**

- Diagnostic criteria – Standard radiology, Common guidelines available, Novel methods used to diagnose (4 slides)
- Treatment options - Basics in different treatment (1 slide each)

## **Case presentations and discussion**

- Case for resection cirrhotic/non cirrhotic
- Case for RFA or MWA.
- Case for embolization
- Case for Alcohol ablation
- Case for Transplant
- Case for Palliative care/Sorafenib

(Discussion areas - What is the basis for selection of each treatment, When not to offer each treatment)

## **6. Management of liver metastasis - Dr Buddhika Dassanayake (1 hour and 30 min)**

Initial introduction - Evidence on liver surgery for metastatic cancer, Gradual development of evidence for colorectal cancer liver metastasis surgery, Options for regeneration and liver volume expansion, Place for Adjuvant/Neo-Adjuvant, Sandwich chemo (max 15 slides), Timing of liver surgery

### **Case presentation and discussion**

- Case for synchronous resection
- Case for stage resection
- Case for volume expansion before resection
- Case for down staging
- Neuro endocrine tumour - debunking

## **7. Cholangiocarcinoma – Dr S. Shivagansesh (40 min)**

Initial introduction - Basis of classification, Diagnostic evaluation and difficulties in diagnosis, Planning for surgery - Importance of extent of bile duct involvement and caudate lobe branches, Different surgical approaches (max – 12 slides)

### **Case presentation and discussion**

- Hilar cholangiocarcinoma needing right hepatectomy with increasing serum bilirubin
- Inoperable case/stenting
- Hilar stricture - Benign

## **8. Basic concepts of liver transplant – Dr. Ruwan Dissanayake (40 min)**

Initial introduction - When and when not to transplant liver, Options for organs (DBD/DCD/LD), Organ perfusion in-vitro, Aims of liver transplant, Basic steps during surgery, Immuno-suppression (total 15 slides)

### **Case presentation and discussion**

- Liver transplant for high MELD
- Liver transplant for hepatoma