Thursday

Laparoscopic aortoiliac surgery

Morning

8.30 am  Shuttle bus Hilton Hotel - IRCAD
9.00 am  Welcome to participants
9.15 am  **Basic principles of laparoscopic surgery**
  > Basic techniques:
  > - Insufflation, positioning of trocars, open laparoscopy
  > - Exposure, dissection techniques
  > - Laparoscopic sutures and ligation
  > Electrosurgery and new operative devices
  > Introduction to Robotic: how to use the robot?
  > Demonstration: Conventional and Robotic
  > prosthetic anastomosis on live tissue
  > Vascular laparoscopic instrumentation:
  > - Forceps “de Bakey”, laparoscopic intestinal retractors
  > and clamps, arteriotome, new laparoscopic
  > anastomotic devices
  > - Disposable instrumentation: clips, staples...
  > Different approaches in laparoscopic aortic surgery
  > and new instrumentation

*Video*
Laparoscopic retroperitoneal replacement of the abdominal aorta in pigs

1.00 pm  Lunch at the institute

Afternoon

2.00 pm  **Training on live tissue**
  > Laparoscopic retroperitoneal approach of the abdominal
  > aorta on pigs and prosthetic aortic replacement

**Training on robot**
Robotic prosthetic anastomosis on live tissue

6.15 pm  Shuttle-bus IRCAD/EITS - Hilton Hotel
Friday
Laparoscopic aortoiliac surgery

Morning

7.30 am Shuttle bus Hilton Hotel - IRCAD
8.00 am Laparoscopic aortoiliac surgery
> Anesthesia and laparoscopic aortic surgery
- Patient selection
- Pneumoperitoneum and retropneumoperitoneum
- Intra and postoperative monitoring
- Real benefits of laparoscopic aortoiliac surgery
> Laparoscopic aortoiliac reconstructions: techniques and indications
- The different aortoiliac laparoscopic approaches: transperitoneal, retroperitoneal, the “apron” technique
- The aortoiliac surgery: totally laparoscopic, minimally invasive video-assisted (Hand-Port,...), minimally invasive hand-assisted
- Laparoscopic aortoiliac surgery for occlusive disease and aneurysm
- Thoracoscopic bypass from descendant thoracic aorta

Telesurgery - Telerobotics
> Development in visceral surgery
> Practice in cardiovascular surgery
> Robotic and laparoscopic aortic reconstruction: experimental and clinical study (VIDEO)

Video
> Laparoscopic transperitoneal abdominal aortic replacement with left renal artery direct reimplantation in pigs

1.00 pm Lunch at the institute

Afternoon

2.00 pm Training on live tissue
> Laparoscopic transperitoneal approach of the abdominal aorta on pigs: prosthetic aortic replacement +/- left renal artery reimplantation

Training on robot
Robotic prosthetic anastomosis on live tissue

6.15 pm Shuttle-bus IRCAD/EITS - Hilton Hotel
8.00 pm Shuttle-bus Hilton Hotel - Restaurant
8.30 pm Dinner at a typical Alsatian Restaurant
Saturday
Laparoscopic aortoiliac surgery

Morning

7.30 am  Shuttle bus Hilton Hotel - IRCAD
8.00 am  **Video**
> Thoracoscopic bypass between the descendant thoracic aorta and the left femoral bifurcation in pigs (video)

**Training on live tissue**
> Thoracoscopic approach of the descendant thoracic aorta and prosthetic implantation

**Training on robot**
Robotic prosthetic anastomosis on live tissue

**Conclusion**

12.00 pm  Lunch at the Institute
1.00 pm  End of seminar

This programme may be subject to modifications.

**Course objectives**
> To cover a broad spectrum of surgical procedures in aortoiliac surgery
> To provide indications for surgical treatment and discuss operative complications
> To highlight technicalities of surgical interventions through the broadcasting of videos
> To allow real-time discussion between the operators and the surgeon trainees
> To provide hands-on sessions to improve skills in laparoscopic surgery through practice on LIVE TISSUE and ON ROBOT under experts’ tutorials
> To describe postoperative clinical results and practical applications of evidence-based clinical medicine.