



Masterclass in Robotic assisted hepatobiliary surgery Endorsed by ILLS

Course Leaders

Course Directors:

Dr. Mathieu D'Hondt Dr. Iswanto Sucandy,

Faculty:

Dr. Mo Abu Hilal Dr. Luca Aldrighetti, Dr. Fabrizo Di Benedetto Dr. Rutger-Jan Swijnenburg Dr. Pieter Jan Steenlant

Date: Thursday 28th and Friday the 29th of November 2024

Venue: Orsi Academy

Duration 2 Days

Delegates day 1 120 attendees

Delegates day 2 12 trainees (2 on each system) and 12 observing trainees

Robotic platform da Vinci Xi

Aim To comprehensively cover robotic assisted liver surgery

Pre-course requirements Basic knowledge of the robotic system and familiarity with (minimally

invasive) liver surgery.

Learning objectives understanding of the robotic set-up within liver surgery

understanding of the different robotic liver resections the use of advance energy during the liver dissection

implementation of imaging technology for surgical guidance

Certification

Orsi Academy certificate of attendance & CME credits





Time table

Day 1 – 28th of November - Scientific lectures

a) Morning session

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- 8h30-9h00: History and Evolution of Minimally Invasive Hepatopancreatobiliary Surgery and Future Possibilities (dr. Abu Hilal)
- 9h00-9h30: Implementation of robotic liver surgery Lessons learned after > 300 cases (dr. D'Hondt)
- 9h30-10h00: patient selection and preoperative preparation for robotic liver surgery (dr. Sucandy)
- 10h00-10h30 Anesthesia in minimally invasive liver surgery (dr. Steelant)
- 10h30-10h50: Coffee break
- 10h50-11h30: port placement for various types of liver surgery, OR set-up and robotic surgical instrumentation (dr. Swijnenburg)
- 11h30-12h00: techniques for inflow dissection and Pringle Maneuver (dr. Di Benedetto)
- 12h0-12h30: intraoperative liver ultrasound for tumor assessment and vascular mapping. Use of indocyanine green with firefly technology (dr. Swijnenburg)
- 12h30 13h00: different techniques for Parenchymal transection and choice of instruments. Why I do it this way?
 - Hybrid Robotic-laparoscopic CUSA (dr. Aldrighetti)
 - Energy devices (ultrasonic synchroseal/vessel sealer etc... (dr. Sucandy)
- 13h00-14h00: lunch

b) Afternoon session

- 14h00-14h30: management of intraoperative issue (portal vein/hepatic vein/IVC bleeding and bile leak and conversion to open (dr. D'Hondt)
- 14h30-15h00: outcomes of Robotic vs Laparoscopic liver surgery (dr. Aldrighetti)
- 15h00-15h30: technique of robotic Biliary surgery/hepaticojejunostomy (dr. Di Benedetto)
- 15h30-15h50: coffee break
- 15h50-17h50: video technique review and operative tips and tricks (15 minutes each with 5 minutes discussion)
 - Robotic left lateral sectionectomy (dr. Swijnenburg)
 - o Robotic left hepatectomy (dr. D'Hondt)
 - o Robotic right hepatectomy (dr. Di Benedetto)
 - Robotic right posterior sectionectomy (dr. Sucandy)
 - Robotic central/right anterior/left medial sectionectomy (dr. Aldrighetti)





- Robotic non-anatomical resection/ posterosuperior segment 7 or 8 or 4a resection (dr. Swijnenburg)
- Robotic hepatectomy and biliary reconstruction (dr. Sucandy)
- 17h50-18h00: Wrap-up of the day

Day 2 – 29th of November - hands-on with human cadaver models

a) Morning session

- 8h00-8h30: welcome and breakfast
- 8h30-12h: Robotic liver resection:
 - o Robotic left lateral sectionectomy (prior to left hepatectomy)
 - o Robotic left hepatectomy
 - Robotic right posterior sectionectomy (prior to right heptactomy)
 - Robotic right hepatectomy
- 12h00-12h45: lunch break

b) Afternoon session

- 12h45-14h45: robotic liver resection
 - o Robotic biliary resection and hepaticojejunostomy
 - Laparoscopic liver tumor ablation
 - o Bile duct exploration
- 14h45: wrap-up of the day