

## **The different faces of robotic surgery for intrahepatic cholangiocarcinoma**

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**Lecture :** Intrahepatic cholangiocarcinoma (ICC) presents a challenging disease with a wide range of clinical presentation. When resectable, surgery currently offers the only chance for long-term survival and cure. While extensive liver tumors often require complex open surgery, many ICC are also accessible for minimally invasive procedures including robotic assisted approaches. Robotic surgery has been introduced to overcome the limitation of conventional laparoscopic surgery such as in depth perception, restricted movement, and fixed fulcrum. Patients with morbid medical conditions and/or challenging anatomic tumor locations benefit from robotic assisted approaches. The expert's video presentation shows three cases of robotic assisted surgery for different tumor and patient scenarios.

Video Case Presentation #1: This video shows the benefits of ICG-assisted robotic liver surgery in a 74-year-old male patient with challenging medical conditions and anatomically difficult hepatic localization of an ICC.

Video Case Presentation #2: This video shows a robotic assisted pump placement for intra-arterial continuous chemotherapy in a 47-year-old female with a large, non-resectable ICC involving segments II and IVa as well as major in and outflow structures. Intra-arterial continuous chemotherapy offers an effective conversion therapy for otherwise unresectable ICC.

Video Case Presentation #3: This video shows a robotic assisted resection of a large exophytically growing ICC originating from segments 4b/5 in a 75-year-old female with a BMI of 48.

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