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Robotic right hepatectomy

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Liver surgery has advanced more than any other type of surgery since the early 1980s. This is partly due to advances in technology and surgical instrumentation, as well as in anesthetic management of patients. In fact, indications for extended liver surgery interventions being performed today were thought of as unthinkable practice just a few decades ago. The open approach continues as the predominant one in liver surgery, despite great enthusiasm following the development and growth of laparoscopy since the early 1990s. In some high-volume centers with skilled surgeons, laparoscopy is now the method of choice when performing left lateral segmentectomy or when lesions are located in anterior segments. However, major resection (removal of three or more segments) is typically performed using the open approach. In our experience, the robot-assisted approach is distinctly different from laparoscopy for this type of surgery. Major liver resection using the robot is not only feasible but also advantageous, creating the ideal gateway for minimally invasive surgery of the liver of all liver resections, right hepatectomy is the most commonly performed worldwide, and its technique is well standardized. In this video, we describe the surgical steps of this technique using the robot-assisted approach. Robotic right hepatectomy is feasible, safe and offers a new technical option for minimally invasive major liver resection.

Biography

Rehan Saif is a Consultant in HPB Surgery and Abdominal Multi-Organ Transplantation. He is associated with the Integrated Liver Care Team at Aster DM Healthcare Group in India running multi-organ transplant centers at Aster Medcity, Kochi and Aster CMI Hospital, Bangalore. He completed his Post-graduate general surgical training in India following which he spent 12 years gaining further specialist higher surgical training in the United Kingdom. He obtained his MRCS and FRCS (HPB and Transplantation) from The Royal College of Surgeons of Edinburgh leading on to CCT (UK). He also completed the European Diploma in Transplantation (European Society for Organ Transplantation) and is accredited by the UEMS (European Board of Surgery) where he obtained his FEBS (HPB Surgery). This was followed by a period of further fellowships and training in the field of Liver Transplantation first at the Institute of Transplantation, Newcastle upon Tyne, UK (Post CCT Senior Fellowship) and then an International Travelling Fellowship in Living Donor Liver Transplantation at the Kaohsiung Chang Gung Memorial Hospital, Taiwan (RCSEd Ethicon Travelling Fellowship). He is also trained in the field of Robotic Minimally Invasive HPB Surgery in the UK, Europe and has done an International Fellowship in Robotic HPB Surgery at UIC Medical Center, Chicago (USA). He is an expert in highly advanced procedures including liver transplantation (live donor and cadaveric), pancreas transplant, kidney transplant, complex HPB surgery and minimally invasive robotic HPB surgery.

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