

E-022

## Feasibility Assessment Of Robotic Major Hepatectomy And Bile Duct Resection In Klatskin Type IIIB Tumor With Concomitant Gallbladder Cancer

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**Background** : Radical resection is the only curative treatment for perihilar cholangiocarcinoma (Klatskin tumor), the most common type of bile duct cancer. Because Klatskin tumors require major hepatectomy including segment 1, extensive lymphadenectomy, and bile duct reconstruction, laparoscopic surgery has technical challenges, especially with small and multiple bile ducts. The robotic platform has great freedom of movement, making it effective for dissection and suturing in minimally invasive Klatskin tumor resection. However, few cases have been reported, prompting this video demonstration.

**Methods** : A 74-year-old woman was referred to surgery after biliary drainage due to obstructive jaundice. Adenocarcinoma was diagnosed via endobiliary brushing, with magnetic resonance imaging and computed tomography (CT) showing a polypoid mass in the gallbladder and a 3-cm enhancing mass in the perihilar area. No signs of distant metastasis were present. Thus, robotic left hepatectomy including segment 1, partial hepatectomy of segment 5, and bile duct resection were performed.

**Results** : The total operative time was 419 min, with an estimated blood loss of 300 ml. Computed tomography on postoperative day 5 showed no abnormal findings, and the patient was discharged on postoperative day 10 without complications. The final pathologic results confirmed the double primary adenocarcinomas with clear resection margins of 6.4 cm and 3.8 cm, respectively, and 11 lymph nodes all were negative for malignancy.

**Conclusions** : This case exemplifes the safety and effectiveness of robotic surgery for Klatskin tumors, even with concomitant gallbladder cancer, and demonstrates the benefits and potential of this technique in complex surgical procedures.

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