

**REGISTRATION NUMBER: 00181**

## **ROBOTIC ASSIST RECTAL GIST RESECTION WITH RADICAL PROSTATECTOMY**

Po-Jen Hsiao<sup>1</sup>, Guang-Heng Chen<sup>1</sup>, Yi-Huei Chang<sup>1</sup>, Cheng-Kuang Yang<sup>2</sup>, Tao-Wei Ke<sup>3</sup>, Chao-Hsiang Chang<sup>1</sup>

<sup>1</sup> Department of Urology, China Medical University Hospital (Taiwan)

<sup>2</sup> Divisions of Urology, Department of Surgery, Taichung Veterans General Hospital (Taiwan)

<sup>3</sup> Division of Colorectal Surgery, Department of Surgery, China Medical University Hospital (Taiwan)

### **INTRODUCTION AND OBJECTIVES:**

Gastrointestinal stromal tumor (GIST) is the most common mesenchymal malignancy of the gastrointestinal tract. Rectal GIST with prostate invasion is extremely rare. Tumor resection is suggested but is very difficult and technical for surgical margin and minimizing the blood loss. A good surgical view will let surgeon possible for the free margin and decrease the peripheral organ and nerve injury after using the da Vinci Surgical System. We report a unique case of rectal GIST with prostate invasion treated with robotic-assisted surgery.

### **METHODS:**

A 54-year-old male because of a rectally, fixed, and firmly bulging mass was palpated right laterally to prostate. Biopsy under CT guidance revealed GIST. After neoadjuvant target therapy (Gleevec) for 7 months, the mass had decreased in size. Therefore, he underwent robotic-assisted laparoscopic radical prostatectomy and partial excision of rectal wall with left nerve sparing.

### **RESULTS:**

The robotic docking time was 20 minutes. The console time was 5 hours and 30 minutes. The total operative time was 6 hours. The estimated blood loss was 100ml and no complication. The patient recovered well and could tolerant diet on post-operative day 5 and discharged on day 8. The specimen showed no residual viable tumor and compatible of GIST. The surgical margins were all free of tumor. Prostatic tumor invasion was noted.

### **CONCLUSIONS:**

The robotic approach of rectal tumor with prostate invasion enables the surgeon to perform extensive surgery of rectum in a minimally invasive manner. The da Vinci Surgical System will make the surgery easier.

Source of Funding: