



Combined robotic radical prostatectomy and left partial nephrectomy by a single port approach

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ABSTRACT

Introduction: To present the first case of a concomitant robotic radical prostatectomy and a left robotic partial nephrectomy performed by a single-port approach using the SP[®] da Vinci surgical system (Intuitive Surgical, Sunnyvale, CA).

Materials and Methods: A 66-year-old male diagnosed with localized prostate cancer and a left kidney renal mass incidentally found on computed tomography (CT) during prostate cancer evaluation. Procedures were performed using a single supra-umbilical 3cm incision, plus one additional laparoscopic port, utilizing a standard Gelpoint[®] (Applied Medical, Rancho Santa Margarita, CA) and replicating the technique previously described for single-port transperitoneal radical prostatectomy and partial nephrectomy with the use of the SP[®] robotic platform.

Results: Total operative time was 256 minutes (mins) with a console time of 108 mins for radical prostatectomy, and 101 mins for the partial nephrectomy respectively, including a warm ischemia time of 26 mins. Estimated blood loss was 250cc. Blood transfusion was not needed. Final pathology was adenocarcinoma of the prostate Gleason 4+3=7, pT3aN0R0 (9 pelvic lymph nodes negatives) and for the kidney renal cell carcinoma papillary type 1 pT1bNxR0. After two months of follow-up, PSA was undetectable and abdominopelvic CT scan did not showed any recurrence.

Conclusions: The single-port approach has advantage as easier surgical planning and transition for combined and multi-quadrants surgeries: faster recovery, minimal postoperative pain and need for opioids, and acceptable cosmetic outcomes.

CONFLICT OF INTEREST

None declared.

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