



AB004. SOH23ABS_084. Robot-assisted retroperitoneal right hemi nephrectomy with partial ureterectomy for non-functioning obstructed upper-pole moiety: operative technique with a dual-console Xi da Vinci surgical system

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Background: A hemi nephrectomy of the affected moiety is the standard surgical treatment in symptomatic patients with duplex kidneys. We report our experience with retroperitoneal robot-assisted upper pole hemi nephrectomy with partial ureterectomy in adult patient with duplex right kidney with obstructed non-functioning upper pole moiety.

Methods: A 41 years old lady presented with recurrent episodes of right pyelonephritis. In conjunction with the computed tomography (CT) urogram and renal isotope MAG3 demonstrated normal functioning right lower moiety, completely obstructed non-functioning upper pole moiety and the split function is 57% on the left and 43% on the right. Normal left kidney and collecting system. Her case was discussed in our multidisciplinary meeting and patient opted for right robotic assisted right hemi-nephrectomy for non-functioning upper moiety. We describe operative details and our technique in video.

Results: Retro-peritoneal space was created and robot was docked accordingly. Adhesion was noted surrounding the upper pole moiety likely from recurrent pyelonephritis.

The procedure was performed without any intra-operative and post-operative complications. Total theatre time was 120 mins with estimated blood loss of 50 mL. He was discharged on post-operative day 2 after the removal of urethral catheter. Subjectively she was asymptomatic after procedure and very happy with the outcome.

Conclusions: Robot-assisted retro-peritoneal hemi nephrectomy with partial ureterectomy is feasible and safe where indicated with excellent post-operative outcome.

Keywords: Robotic-assisted; retroperitoneal hemi-nephrectomy; duplex kidneys; non-functioning; upper pole moiety

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Footnote

Conflicts of Interest: The authors have no conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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