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Robotic reduced-port splenectomy using Single-site platform : 8 cases of single surgeon experience

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Introduction : The Da Vinci Robotic reduced-port splenectomy using Single-site platform permits greater freedom of movement and higher levels of accuracy than previous laparoscopic surgery through two small incisions.

Methods : We performed a retrospective review of all patients who underwent Robotic reduced-port splenectomy using Single-site platform at our institution between January,2015 and November,2018.
One 3 – 4 cm long periumbilical incision and the other 8mm long incision was made at left side of abdomen. Short gastric artery was ligated with hem-o-lok clips. Splenic artery and vein were ligated individually using hem-o-lok clips. A specimen was removed through umbilical port site.

Results : 6 women and 2 man, total 8 patients with median age of 33.5 years underwent Robotic reduced-port splenectomy. The indications were; hematological disease (N=3), splenic mass (benign N=4, malignant N=1). Preoperatively measured spleen size was ranged 5.5cm to 16cm (median=11). There were no intraoperative complications and conversion to open surgery. The operative time ranged 74 to 216 minutes (median=152). 2 patients experienced acute portal vein thrombosis, without elevation of serum transaminase or liver ischemia on image study. All PVT was resolved after 1 month follow up CT scan. The median follow up period was 174.5days.

Conclusions : Robotic reduced-port splenectomy using single-site platform seems to overcome certain limits of previous robotic or conventional single-site laparoscopic splenectomy and single-site only robotic splenectomy. We think 8mm additional port allows to use Endo-wrist Da Vinci instruments such as Vessel sealer which enhances dissection efficiency and- safety of procedures.

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