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Clinical outcomes of robotic cholecystectomy: single center early experience

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Introduction : Laparoscopic cholecystectomy is the gold-standard approach for gallbladder diseases. Recently, the robotic platform including single port has been released, which could technically facilitate cholecystectomy. Therefore, we report our early experience in robotic cholecystectomy at Chonbuk national medical center.

Methods : From September 2017 to November 2018, all consecutive patients(n=72) who underwent robotic cholecystectomy were retrospectively analyzed. Variables of interest for this study were patient demographics, operative times for the procedure and morbidities.

Results : Among 72 patients, the mean age was 43.4 years with range of 15-68 years. The male (n=26) to female (n=46) ratio was 1:1.8. The indication of cholecystectomy were stone in 57 cases and polyp in 15 cases. Single incision and 3-port robotic cholecystectomy were performed 59 and 13 cases, respectively.

The mean docking and operating times were 8.6 and 83 mins.

Total numbers of open or laparoscopic conversion are 2 cases due to sever adhesion.

Postoperative complication was shown cholangitis in 1 case. (Clavien-Dindo classification grade 2)

Conclusions : In our results, robotic cholecystectomy was shown feasible and safe procedures.

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