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Advantages Of Robotic PD Over Laparoscopic PD

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Lecture : Since the introduction of laparoscopy since 1980, it plays the major role in most of abdominal surgery. Although minimally invasive surgery (MIS) has been attempted in pancreatic surgery, laparoscopic pancreaticoduodenectomy (PD) has not been widely conducted because of the complex surgical anatomy and difficult anastomoses involved, particularly in pancreaticojejunostomy (PJ). According to the international Survey, many of HBP surgeons have difficulty in performing pancreatic anastomosis. Except very experience surgeons and centers, overall surgical morbidity related with POPF in LPD is much higher than open PD(OPD). Recent Dutch trial showed that 5 times higher op mortality in LPD compared to OPD. Robotic surgery may overcome these difficulties with laparoscopic surgery, especially through the ability to perform the anastomosis using a 3D magnified view, with stable handling and precise suturing because of the enhanced degree of freedom. Recent data showed that robotic PD has increased rapidly through the world. In the world, there are 500% times increase of robotic and 3600% in Korea PD during 5 years. In this lecture, I will introduce the recent trends of MIS-PD especially robotic PD(RPD) and improved clinical outcomes using robotic platform using recent data. Compared with LPD, RPD is associated with better functional and safety outcome. Moreover, robot platform has some merits such better ergonomics followed by reducing musculoskeletal distress and shortening the learning curve through well developed operation simulator which is very beneficial to the beginner of MIS-PD. RPD is safe and feasible and enables early postoperative recovery. It is expected to play a key role in very near future