Broader application of robotic platform to complex mitral cases

Objective: Robotic assisted mitral valve surgery has established its position as the least invasive approach. However, the application of robotics is generally limited to selected patient populations depending on each surgeon's criteria to perform operation safely. Herein, we present our experience in successfully applying robotics for complex patient population. We believe more patients can potentially benefit from robotic assisted surgery by showing safe and effective implementation of this approach.

Case Video Summary: We present three different patients that underwent robotic assisted mitral valve surgery at our institution. This video includes cases of morbid obesity, pectus excavatum, reoperation after initial repair, and reoperation after failed transcatheter edge-to-edge repair with previous CABG. We were able to complete robotic assisted mitral valve surgery for these patients, and all patients were discharged home without complications.

Conclusions: Robotic assisted mitral valve surgery can be safely applied to more complex patient population without compromising clinical outcomes.

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