

ROBOTIC-ASSISTED SURGERY CHOLECYSTECTOMY IN CHILDREN

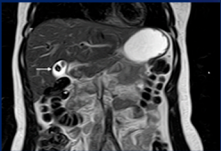
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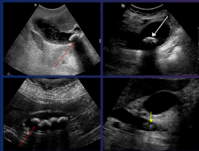
AIM

Demonstration of the capabilities of robot-assisted surgery for pathology of the gallbladder in children

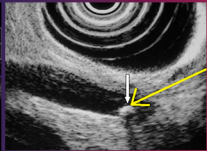
MATERIALS AND METHODS



MRI SCAN OF THE ABDOMINAL CAVITY - THE ARROW INDICATES THE GALLBLADDER WITH STONES IN THE LUMEN



EUS, ENDOSCOPIC SONOGRAPHY OF THE GALLBLADDER



Cholecystectomy is one of the most common surgical procedures performed in a minimally invasive manner. This study presents the first experience of performing robotic cholecystectomy in children with gallstones and analyzes its results. The study presents retrospective data on 6 patients with cholelithiasis who were operated on using robotic technologies at the Irkutsk State Regional Children's Clinical Hospital. The study was approved by the hospital's local ethics committee. The robotic cholecystectomy procedures were performed using the new Verslur robot model from CMR (Cambridge Medical Robotics, UK) with four ports.

RESULTS

	AGE, YEARS	WEIGHT, KG	OPERATION TIME, MIN	DOCKING TIME, MIN	ICU TIME, HOURS	DURATION OF HOSPITALIZATION, DAYS
N 6	16,5±0,5	71,0±20,0	64,2±13,6	10	17,6±3,1	6,0±3,6

PLACEMENT OF PORTS



PLACEMENT OF ROBOT MODULES

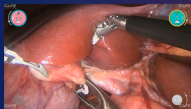


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ROBOT-ASSISTED CHOLECYSTECTOMY



ANATOMY: 1 – COMMON HEPATIC DUCT, 2 – COMMON BILE DUCT, 3 – CYSTIC DUCT, 4 – CYSTIC ARTERY



CLIPPING THE CYSTIC DUCT



CLIPPING THE CYSTIC ARTERY

CONCLUSION

Robotic cholecystectomy is a reproducible, minimally invasive treatment method for children

Patients and their parents have a positive attitude towards it as a safe and cosmetically beneficial surgical procedure

Further research is needed to determine the potential benefits of using this approach in pediatric surgery



REMOVAL OF THE GALLBLADDER