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Laparoscopic cholecystectomy in children: One centre experience

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Symptomatic cholelithiasis surgery in children has increased in tendency over the last 10 years. The frequency of cholelithiasis in children is assessed to range from 0.13 to 1.9% and when compared with the adult population, where risk of cholelithiasis is assessed as 10-15%. Cholecystectomy in children was performed extremely rarely before the era of minimally invasive procedures. They present their experience of treatment of cholelithiasis in children. Laparoscopic cholecystectomy was performed using the three ports technique. Laparoscopic cholecystectomy is routine surgical procedure in non-complicated cases when concerns are located in gallbladder, but in the cases of choledocholithiasis or complications of cholelithiasis as: cholecystitis, hydrops of the gallbladder and biliary pancreatitis algorithms of treatment are different. The pediatric surgical units which treat those conditions should be prepared to manage all that complications. The experience of pediatric gastroenterologist's in endoscopic retrograde cholangiopancreatography (ERCP) is limited and in many times cooperation with adult gastroenterologist or experienced pediatric units are crucial. Between 2011 and 2017, 149 laparoscopic cholecystectomies were performed in their center. In 98 patients, elective LC was performed. In 32 patients with biliary colic LC was performed after resolution of symptoms during the same admission. In nine patient's cholecystitis and in three hydrops of gallbladder were recognized. In five patients choledocholithiasis required ERCP procedure before cholecystectomy and in two patient's biliary pancreatitis was connected with cholelithiasis. All patients had performed LC using three port techniques. There were no intraoperative complications demanding reoperation such as injury to the choledochus or other viscera, bile leakage or bleeding. The time of hospitalization ranged from 2 days to 21 days (average 4.5 days). The treatment of cholelithiasis should be performed in pediatric surgical units which have experience in laparoscopic procedures and are able to treat complicated cases especially when choledocholithiasis is suspected. In experienced hands the laparoscopic three ports technique is safe procedure connected with minimal rate of complications.

Recent Publications:

1. P Nachulewicz, A Kamiński, P Kaliciński, T Kmiec, W Szapłyko, J Teisseyre and A Kowalski. (2006) Analysis of neurological complications in children transplanted due to fulminant liver failure. *Transplantation Proceedings* 38(1):253-254.
2. Paweł Nachulewicz, Błażej Rogowski, Marcin Obel and Janusz Woźniak (2015) Central pancreatectomy as a good solution in Frantz tumor resection: A case report. *Medicine* 94(29):e1165.
3. Paweł Nachulewicz, Anna Golonka, Tomasz Żądkowski, Paweł Osemlak, Joanna Flak-Nużyńska, Agnieszka Brodzisz and Elżbieta Pac-Kożuchowska (2016) Closure of the thoracic duct from the left-side access: a case report. *Medicine* 95 (35):e4552.
4. Magdalena M Woźniak, Andrzej P Wiczorek, Agata Pawelec, Agnieszka Brodzisz, Maria M Zajączkowska, Halina Borzęcka and Paweł Nachulewicz (2016) Two-dimensional (2D), three-dimensional static (3D) and real-time (4D) contrast enhanced voiding urosonography (ceVUS) versus voiding cystourethrography (VCUG) in children with vesicoureteral reflux. *Eur. J. Radiol.* 85(6):1238-1245.
5. Magdalena M Woźniak, Thomas M Scholbach, Jakob Scholbach, Agata Pawelec, Paweł Nachulewicz, Andrzej P Wiczorek, Agnieszka Brodzisz, Maria M Zajączkowska and Halina Borzęcka (2016) Color Doppler dynamic tissue perfusion measurement: a novel tool in the assessment of renal parenchymal perfusion in children with vesicoureteral reflux. *Arch. Med. Sci.* 12(3):621-628.

Biography

Pawel Nachulewicz is a Pediatric Surgeon, Transplant Surgeon and a General Surgeon. Since 2010, he is the Chief of Pediatric Surgical Clinic at Medical University of Lublin, Poland. From 1998, he focused in laparoscopic and thoracoscopic surgery in children. He is the author and co-author of more than 190 publications, congress reports and books chapters.

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