

SV5: LAPAROSCOPIC ADRENALECTOMY IN UNDETERMINED ADRENAL MASSES

Laszlo Sasi Szabo*¹ and Levente Szabo¹

E-mail: Laszlo Sasi Szabo — sasi.szabo.laszlo@med.unideb.hu

¹University of Debrecen, Institute of Pediatrics, Departement of Pediatric Surgery, Debrecen, Hungary

Background Adrenal masses in children are relatively common, with neuroblastoma being the most frequent extracranial tumor of infancy. Although the age of the patient, biochemical characteristics and imaging features usually allow diagnosis without surgery, still there are cases where the exact disease can only be determined by operative meanings. Laparoscopic adrenalectomy provides an excellent choice for both diagnosis and definitive treatment of adrenal pathologies.

Materials and methods In a five-year period between 2012–2016, we encountered four cases of an undetermined right adrenal mass,

Patient 1 was a 3 months old boy with a 2 cm lesion without any increase in tumor markers and catecholamins, patient 2 was a 3 years old boy with an accidentally diagnosed 25 mm mass without any other alterations, patient 3 was a 12 years old girls with a large adrenal mass who had a slight increase in catecholamine levels, patient 4 was a 13 years old girl with a known, rapidly enlarging lesion in the right suprarenal lesion.

Malignancy could not be excluded in any of the cases so we performed laparoscopic right adrenalectomy.

Results We encountered no intra- or postoperative complication. The operative time was 38 and 45 minutes in the first two cases, 110 minutes for the 3rd patient, and 165 minutes for the last one, where the resection of the upper pole of the right kidney was performed because of a suspected infiltration. The histology proved Stage I neuroblastoma in the 1st, ganglioneurinoma in the 2nd, ganglioneuroblastoma in the 3rd, and adrenal myelolipoma with haemorrhage in the 4th case. After a mean follow-up of 17 months, all patients are well and free of any recurrences.

Conclusions In cases where despite of adequate diagnostic methods, the origin of an adrenal mass is unclear laparoscopy provides a safe way for both histologic diagnosis and definitive treatment.

Key words adrenal mass, laparoscopy