

**Department of Pediatric Surgery, Hannover Medical School,
Hannover, Germany**

Program

The Department of Pediatric Surgery is a tertiary institution based in Hannover Medical School and is the only university department in the province of Lower Saxony (7.9 million inhabitants).

Our pediatric surgical staff consists of 20 members. The medical team includes a director/chairman, 5 consultant pediatric surgeons and 7 residents. A research laboratory, with 1 biologist and 2 medical-technical assistants, is an integral part of the department.

The department is subdivided into wards for infants, children and interdisciplinary patients with, altogether 29 beds. There are 2 operating theaters with the capacity to perform minimally invasive surgery, laser surgery, urologic endoscopy and x-ray. There are also facilities for urodynamic examinations and ultrasound.

Main clinical priorities are: minimally invasive surgery, neonatal surgery, surgical oncology, pediatric urology and thoracic surgery. Approximately 1200 mainly major operations are performed per year, including more than 200 major minimally invasive thoracic and abdominal procedures.

The research laboratory handles cell cultures, animal models (rat, mouse, knock-out mouse), PCR, western blot, FACS-analysis and numerous other immunological investigations.

There are numerous ongoing clinical studies concerning, in particular, minimally invasive techniques and neonatology. Basic research projects focus on 3 subjects: neonatal immunology, biliary atresia, new technology.

We perform active academic research and interventional clinical trials on variety of pediatric surgical conditions.

Conditions that we treat are as follows:

- **Newborn Surgery**

Esophageal atresia, duodenal atresia, small bowel atresia, gastroschisis, omphalocele, malrotation/volvulus, necrotizing Enterocolitis

- **General Pediatric Surgery**

Inguinal hernia, undescended testis, phimosis, branchial cleft anomalies, umbilical hernia, hemangioma, intussusception, Meckel's-Diverticulum, appendicitis, hypertrophic pyloric stenosis, gastroesophageal reflux, splenomegaly, operations on thymus, achalasia

- **Pediatric Urology**

Hypospadias, ureteropelvic junction disorders, bladder extrophy, epispadias, kidney stones

- **Hepatobiliary Surgery**

Choledochal cyst, gallstones, biliary atresia

- **Thoracic- & Lung-Surgery / Thoracic deformities**

Pectus excavatum, pectus carinatum, congenital cystic adenomatoid malformations of the lung (CPAM), pulmonary sequestration, congenital lobar emphysema, diaphragmatic hernia

- **Surgical oncology**

Neuroblastoma, nephroblastoma, liver tumors/Hepatoblastoma, oncologic diseases of the pancreas, soft tissue tumors and sarcomas, cervical lymphadenopathy

- **Colorectal Surgery**

Anorectal malformations/imperforate anus, Hirschsprung's disease, inflammatory bowel disease

For fellows (1-2 week program) we can offer:

Different programs are available for one- and two week visits including operation theatre, multidisciplinary rounds on wards and intensive care units, interdisciplinary meetings with radiologists and pathologists, surgeries and procedures and follow-up visits in outpatient clinics. Daily schedules depend on individual programs.

For senior clinicians (1-2 day program) we can offer:

For senior clinicians we will arrange operations and interventions in agreement and in advance with the participant according to the participant's main interests.

Different programs and options are available and will fill the 1-2 day program.