Neuromedicine
SPECIAL FIELDS

Neurooncology with stereotaxis, neuronavigation, intraoperative imaging and nerve function monitoring, neurovascular surgery with endovascular therapy, spinal surgery (tumor, intervertebral disc, stenosis), hydrocephalus therapy, neurosurgical pain therapy, intracerebral coiling, minimal invasive endoscopic neurosurgery, neurosurgical intensive care with multimodal monitoring and therapy.

EXPERT PROFILE

Prof. Dr. med. Christianto Lumenta is Head of the Department for Neurosurgery in our Bogenhausen Hospital and also Head of the Department for Neurosurgery in our Schwabing Hospital. His medical and scientific focus is on monitoring of brain function, spinal cord function and nerve function during surgical intervention, where clinical examination is not possible because of general anaesthesia. Here Prof. Lumenta developed various techniques for maintaining functionality in neurosurgery of tumors and vascular diseases of the brain, the spinal cord and the spinal column. In microsurgical and/or endoscopic technique these diseases are treated in surgical procedure with monitoring of vital functions and with application of computer technology with the aid of a navigation system. With the tool of intraoperative imaging by means of ultrasound -and/or fluorescence technique the success of the treatment is documented by imaging in the course of surgery.

A similar technique by means of intraoperative computer-aided tomography with a 3-D-Scanner as well as a robot allows high precision performance when placing implants in corrective or reconstructive surgery of the spinal column. The neurosurgery department in Bogenhausen is certified for neurosurgical pain therapy by the German Society for Neurosurgery.

Prof. Lumenta was the Head of Paediatric Neurosurgery at the University Hospital Düsseldorf earlier in his career and, based on this expert experience, covers the complete spectrum of Paediatric Neurosurgery in our Schwabing Hospital. Here we also treat movement disorders by means of deep brain stimulation for Parkinson’s Disease.

In cooperation with the Departments for Neurology, Neuropsychology, physical Medicine and Early Rehabilitation as well as Neuroradiology and Neuroradiology the Department for Neurosurgery forms the Neurocentre, where all neurological conditions from diagnostics to acute therapy and rehabilitation are treated. In our Schwabing Hospital the Neuro-Head-Centre consists of the Departments for Neurosurgery, ENT-Diseases with Oral and Maxillofacial Surgery and Ophthalmology. In interdisciplinary cooperation we offer surgical treatment for diseases of the skull base (trauma, tumors).

In summary we cover the whole spectrum of neurosurgical diseases in our Bogenhausen and Schwabing Hospitals.