

Treating Brain Tumours with Pinpoint Precision

Treating brain tumours with radiotherapy poses a special challenge. Quite often, malignant tumours in the brain are located near highly sensitive areas such as the optic nerve or the brain stem. Because vital functions are bounded to tiny structures in the brain tissue, radiotherapy must take particular care to ensure that the other parts of the brain near the tumour are not affected.

Through its cross-regional centre for high-precision radiotherapy, the MediClin Robert Janker Klinik offers effective and exceptionally accurate treatment methods for irradiating brain tumours and vascular malformations in the brain. Moreover, we have refined and enhanced stereotactic irradiation with the high-precision radiotherapy systems Novalis® and Varian Silhouette.

State-of-the-Art Treatment

Our state-of-the-art radiotherapy systems facilitate:

- The application of concentrated, high-dosage irradiation to a precisely defined target area.
- The radiation exposure to the surrounding healthy tissue is thus minimized significantly.
- Conversely, the concentration of radiation is particularly high at the targeted site.

Types of Treatment

There are essentially two forms of high-precision radiotherapy available at the MediClin Robert Janker Klinik:

- Radio-surgery: here, a single, high dosage of radiation is administered.
- Stereotactic precision radiotherapy: the entire dosage of radiation is divided over several sessions.

Thanks to the state-of-the-art radiotherapy systems Novalis® and Varian Silhouette, we are able to individually treat a broad spectrum of brain tumours and vascular malformations at our Klinik. As a result, small and irregularly formed tissue changes can be approached from multiple directions. Also, tumours that have recurred or relapsed after conventional treatment can be treated if necessary.

We treat:

- Gliomas
- Medulloblastomas
- Meningiomas
- Schwannomas
- Lymphomas
- Pituitary adenomas
- Metastases in the brain
- Vascular malformations

Quality through Interdisciplinary Cooperation

In addition to state-of-the-art medical technology and over 70 years of experience, MediClin Robert Janker Klinik is distinguished through its close, interdisciplinary exchange between neurosurgery and radiotherapy. We have also expanded our expertise in treating brain tumours thanks to Neurosurgeon Dr. Jan Bostroem from our medical care centre MVZ MediClin Bonn.

In addition, we maintain a direct data exchange between our Klinik and the Klinik for Neurosurgery of the University Klinik Bonn. With the help of special software, important diagnostic images (from magnetic resonance tomography, computer tomography, positron emission tomography and angiographs) can be exchanged digitally. Consequently, the specialists from both areas of Neurosurgery and Radiotherapy can assess the information and coordinate a treatment plan.

In the course of their entire treatment, brain tumour patients receive an array of advantages through the interdisciplinary care at our Klinik, which makes prompt and efficient coordination among the specialists possible. From the radiological diagnostics to the actual therapy, the treatment plan is coordinated with regard to duration, substance and location. For our patients, this also means shorter distances and less waiting time, avoiding redundant and unnecessary examinations.