

**KLINIKEN
SCHMIEDER**

Clinic for Neurology and
Neurological Rehabilitation

Brain Stimulation Center (BSC)



KLINIKEN SCHMIEDER ALLENSBACH



high quality in neurological rehabilitation

OUR DOCTORS

Prof. Dr. med. **ANASTASIOS CHATZIKONSTANTINOU** is the Medical Director of the Acute Neurology and the Early Neurological Rehabilitation in Allensbach. Post-stroke management as well as the full range of acute treatment of neurological conditions are his key activities. His research areas include epilepsy, strokes and electrophysiology.

Dr. med. **OLYA NEUMANN** is an experienced specialist in neurology. She is a senior physician responsible for the international patients. She speaks English, German and Russian fluently. One of her special medical interests is the pharmacological and non-pharmacological stimulation of coma patients. Other activities include neurological diagnostics, differential diagnostics, neurological intensive medicine and rehabilitation as well as the treatment of traumatic and non-traumatic brain injuries.



**PROF. DR. MED.
ANASTASIOS
CHATZIKONSTANTINOU**



**DR. MED.
OLYA NEUMANN**

BRAIN STIMULATION CENTER

In our Brain Stimulation Center, we offer innovative, invasive and non-invasive diagnostic and treatment options for patients in coma and with disorders of consciousness.

NON-INVASIVE BRAIN STIMULATION

Non-invasive Brain Stimulation helps to increase the activity of the nerve cells in the brain by pharmacological, electrical or magnetic stimulation. Another option is the treatment of dysphagia using pharyngeal stimulation.

FOR WHICH PATIENTS IS THE TREATMENT RECOMMENDED?

The Brain Stimulation Center is specialized in the treatment of severe brain damage:

- Traumatic Brain Injury
- Inflammatory CNS Disease
- Intoxication
- Hypoxia/Anoxia
- Stroke

It is especially recommended for patients in Coma, in Minimally Conscious State (MCS), and with Unresponsive Wakefulness Syndrome.

SERVICES

The following services are offered in our Brain Stimulation Center:

- Thorough review of medical records.
- Tele-consultation prior to admission with a physician specialized in disorders of consciousness to decide if a treatment in our clinic is possible.
- If admission is not possible: exchange between the physicians including recommendations for further treatments and therapies.
- Assessment/diagnostics including structural and functional brain imaging (3 Tesla MRI, resting state fMRI, PET-CT), evoked potentials (SSEP, VEP, AEP, blink reflex), event-related potentials, EEG, detailed dysphagia diagnostics, neurocognitive diagnostics.
- Discussion of the treatment options and the expected prognosis.



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We offer highly innovative diagnostic and treatment options.

THERAPY

- Development of an individual treatment and therapy plan by the physicians specialized in the fields of coma and disorders of consciousness.
- Case-related collaboration with external specialists like the Coma Science Group (Prof. Laureys).
- Stimulation in form of:
 - pharmacological brain stimulation
 - non-pharmacological brain stimulation: transcranial Direct Current Stimulation (tDCS), Transcranial Magnetic Stimulation (TMS)
 - pharyngeal stimulation
- Interdisciplinary treatment: occupational therapy, physiotherapy, speech/language therapy, swallowing therapy, physical therapy (massage, lymphatic drainage), neuropsychology.
- Intensive cognitive training.
- Regular talks about the current situation and further procedure.
- Monitoring of the progress using Coma Recovery Scale and EEG.

CONTACT

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