

Transcranial Pulse Stimulation

A modern therapy method for treating Alzheimer's dementia

A diagnosis of Alzheimer's brings many changes – both for those with the disease and for their families.

Despite the best efforts of medical science, Alzheimer's remains incurable. However, some progress has already been made in the fight against this condition.

In addition to drug treatments, a range of accompanying therapies are used today to improve the mental abilities of patients or to maintain them for as long as possible. The aim is to improve the general quality of life as well as to ease the burden on relatives.

This brochure introduces a modern therapeutic procedure that has only recently become available – Transcranial Pulse Stimulation (TPS®).

Your therapy centre



To find out more, visit
www.tps-neuro.com

Treatment option for Alzheimer's dementia

Transcranial Pulse Stimulation (TPS®)
Our offer for improved quality of life

Alzheimer's disease

Alzheimer's disease is the commonest form of dementia. It is incurable. The number of people with this condition is continuing to rise – currently, there are some 33 million sufferers worldwide.

Due to the progressive loss of nerve cells, patients suffer from memory loss, have orientation problems and can no longer cope with everyday life unaided. This means a seriously compromised quality of life for sufferers and their families.

Pulse stimulation in Alzheimer's patients

Transcranial Pulse Stimulation (TPS®) is a treatment option that has been approved in Europe since 2018 for treating mild to moderate Alzheimer's disease. The aim of TPS® is to improve the cognitive abilities of people with Alzheimer's dementia by stimulating various regions of the brain and to maintain this state for as long as possible.

Patients and their relatives have reported improved verbal skills, memory, and sense of direction.

How does TPS® work?

The word »transcranial« means »through the skull«. For pulse stimulation, for example, sound pulses are targeted specifically at the affected regions of the patient's brain. The treatment is non-invasive, i.e. the pulses penetrate through the skin and skullcap without causing any damage.

Good to know: The sound pulses generated by TPS® have been successfully used in medicine since 1990 under the term »extracorporeal shock wave therapy« for the treatment of a variety of diseases – for example in the treatment of tendons, ligaments, muscles and bones as well as the heart.



Treatment

The TPS® is safe and uncomplicated for patients. The treatment is performed on an outpatient basis. It is not necessary to shave the patient's head.



Before the TPS® begins, the therapist applies ultrasound gel to the scalp or hair. This optimises the transmission of the pulses. The patient then puts on a pair of glasses to enable the position of the head to be detected. During the treatment, the therapist gently moves the handpiece over the scalp and the top of the skull.

A therapy session generally lasts about 30 minutes. On average, a course of TPS® treatment comprises six sessions within a two-week period.



At a glance: Key facts about TPS®

- For mild to moderate Alzheimer's dementia
- Aim: To improve or maintain the mental abilities of people with Alzheimer's disease
- Sound pulses are introduced specifically at the regions of the brain to be treated
- Outpatient treatment
- Safe and uncomplicated
- Treatment duration: approx. 30 minutes per session, 6 sessions over 2 weeks

To find out more about Transcranial Pulse Stimulation (TPS®), visit: www.tps-neuro.com