

Transcranial Pulse Stimulation

A modern therapeutic procedure for treating Alzheimer's symptoms

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.

Drugs can help stabilize mental performance and slow the progression of symptoms.

As well as medicinal treatment, many concomitant therapies are in use today aimed at promoting sufferers' mental faculties or preserving these capabilities for as long as possible, improving overall quality of life and thus relieving 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

New treatment option for Alzheimer's disease

Transcranial Pulse Stimulation (TPS®)
Offering an 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 therapeutic option approved since 2018 that is used in patients with mild to moderate Alzheimer's disease. The goal of TPS® is, by stimulating various regions of the brain, to promote the cognitive abilities of Alzheimer's sufferers and maintain these faculties for as long as possible.

To date, more than 1,500 treatment sessions have been carried out with TPS®. Patients and their families report that treatment has resulted in improved verbal ability, better memory and improved sense of direction.

How does TPS® work?

The term »transcranial« means »through the skull«. Pulse stimulation involves acoustic pulses being generated in an application handpiece and directed into the patient's head. It is here that they produce their effect through targeted stimulation of the relevant cerebral regions. This is a non-invasive procedure, the pulses passing through the skin and skull without damaging them.

Good to know: The acoustic pulses generated by TPS® have been successfully used in medicine since as long ago as 1980 to treat many different conditions – examples being treatment of tendons, ligaments, muscle and bone.



Treatment

For patients, TPS® is pain-free and straightforward. Treatment is always performed on an outpatient basis. Afterwards, patients can go about their day as normal.



Before TPS® commences, the therapist applies ultrasound gel to the scalp or hair. This allows optimum transmission of pulses. The patient then puts on special glasses that are used to detect the position of the head. During therapy, the therapist gently moves the handpiece over the areas on the scalp that require treatment.

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®

- Used in patients with mild to moderate Alzheimer's
- Objective: to promote/maintain the mental capabilities of people with Alzheimer's disease
- Acoustic pulses generated outside the body are introduced specifically into the brain regions requiring treatment.
- Treatment on an outpatient basis
- Pain-free and straightforward
- Average treatment duration 30 minutes per session; a course of treatment involves 6 sessions over 2 weeks

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