

## Current State of Science in Alzheimer's Disease Research

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

Despite major scientific efforts, Alzheimer's disease is still incurable. However, progress is already being made in the fight against the effects of the disease.

In addition to medication, various other measures can now be taken to improve the patient's situation and general quality of life, thus also easing the burden on relatives.

Your specialist practice



More information is available at  
[www.tps-neuro.com](http://www.tps-neuro.com)

**Treatment Option for Patients with  
Symptoms of Alzheimer's Disease**

**Transcranial Pulse Stimulation (TPS®)  
with the NEUROLITH® System**

## Alzheimer's Disease

Alzheimer's disease is the most common form of dementia and is incurable. The number of people with Alzheimer's disease is continuously increasing – around 33 million people worldwide are currently living with the disease.

Due to the progressive loss of nerve cells, patients suffer from memory loss, have orientation problems and can no longer manage their daily lives independently. As a result, the quality of life of the patients and their relatives is considerably reduced.

### Pulse Stimulation Using the NEUROLITH® System for Symptoms of Alzheimer's Disease

The NEUROLITH® is a device for patients with symptoms of mild to moderate Alzheimer's disease and has been CE-marked since 2018.

To date, the NEUROLITH® system has been used in more than 130 clinics and practices worldwide in over 2,500 patients.

## How TPS® Works with the NEUROLITH® System

The word »transcranial« means »through the skull«. Hence, Transcranial Pulse Stimulation (TPS®) involves controlled transmission of acoustic pulses through the scalp and skull into the regions of the patient's brain typically affected by Alzheimer's disease.

**Good to know:** The acoustic pulses generated by the NEUROLITH® system have been used in medicine since 1990 to treat various conditions and are referred to as »extracorporeal shock waves«. They are used, for example, in the treatment of tendons, ligaments, muscles and bones as well as the heart.



## Using the NEUROLITH®

TPS® with the NEUROLITH® system is easy and uncomplicated for patients. It is not necessary to shave the patient's head. The NEUROLITH® system is used on an outpatient basis.



Before TPS® begins, the therapist applies ultrasound gel to the scalp and hair. This enables transmission of the acoustic pulses. A pair of glasses are then put on the patient to enable the position of the head to be detected. During application, the therapist gently moves the handpiece over the scalp and the top of the skull.

A session generally lasts about 30 minutes. An initial TPS® application series comprises 6 sessions taking place within the space of 2 weeks.



### At a Glance: The Most Important Facts about the NEUROLITH® System

- n For symptoms of mild to moderate Alzheimer's disease
- n Acoustic pulses are transmitted through the scalp and skull in a controlled manner
- n Straightforward outpatient use
- n Duration of application: approx. 30 minutes per session, 6 sessions over 2 weeks

Find out more about the NEUROLITH® system and Transcranial Pulse Stimulation (TPS®) at:  
[www.tps-neuro.com](http://www.tps-neuro.com)