

Precision Medicine for Brain Health

personalized tES for MCI & mild AD

Custom-made Miamind® Neurostimulator

The Miamind® Neurostimulator, registered as custom-made medical device according to ANNEX XIII EU-MDR, is a modern non-invasive transcranial electrical stimulation (tES) and electroencephalography (EEG) device for **personalized, non-invasive brain stimulation**. Up to 34, freely placeable electrodes allow complete personalization and ensure high treatment focality. Each device is custom-made to account for the patient's unique anatomy. To ensure comfortable fit, good electrode-scalp contact and precise location of the electrodes, each device is 3D printed based on the individuals anatomical MRI scans. The Miamind® Neurostimulator is **commercially available in the EU, UK, and Switzerland**.

Miamind® Neurostimulator Cap –
3D printed and customised to your
own anatomy

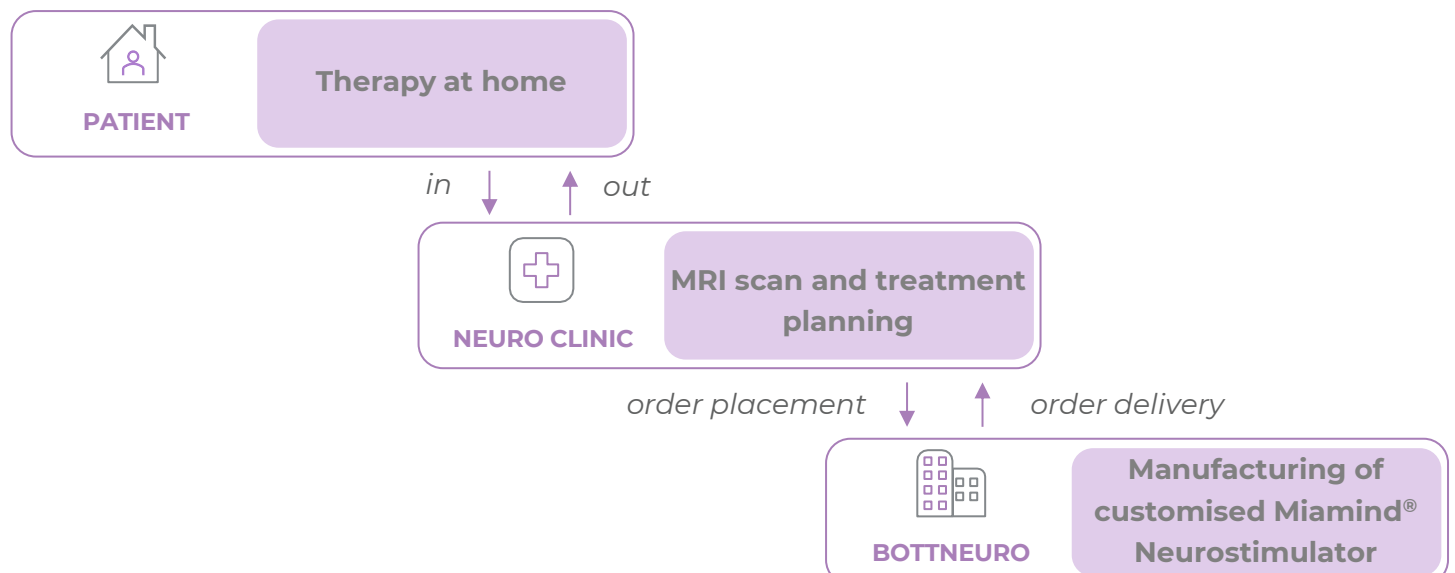
Miamind® Neurostimulator Neckpiece –
main control unit of
Miamind® Neurostimulator

Miamind® Neurostimulator Tablet App –
therapy monitoring and data transfer

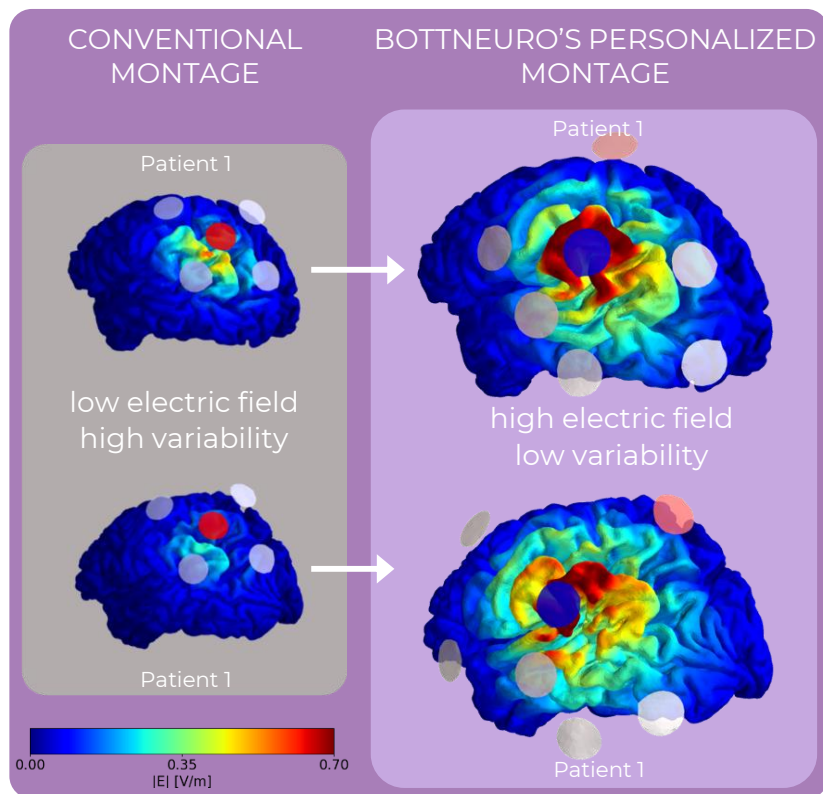


User Friendly Design for Home Use

The Miamind® Neurostimulator is **designed for home use**. The user-friendly app on the included tablet guides the user through each session. This simplicity not only enhances the overall user experience but also encourages regular use, making neurostimulation therapy more effective.



Personalized tES as Promising AD Treatment



Inter-subject anatomical differences lead to high variability in the induced electric field and thus the tES treatment effects across patients^{1,2}. **Bottneuro's personalized montage** allows to account for the complex trade-off between electric field strength and focality, ensuring **reproducible treatment**.

Targeting Alzheimer's disease affected functional networks shows great clinical potential. Multiple clinical trials and pilot studies using 40 Hz γ -tACS have shown promising results regarding memory performance³⁻⁸, **cognitive control** and **working memory**⁹, **cerebral blood flow**⁵, **cholinergic transmission**^{3,4}, **neural activity**^{4,5,7,9,10} and even first indications of reduced cerebral **p-Tau** accumulation and **microglia activity**¹⁰ and a decreased **A β 40/42** ratio in peripheral blood⁸.

Bring Personalized tES to Your Patients Now!

Neurologists, Psychiatrists, and other Medical Professionals in Europe, UK, and Switzerland: Are you interested in cutting-edge treatment options?

The Miamind® Neurostimulator is now clinically available and can be prescribed as custom-made medical device.

“ For the **past three months**, my husband, who suffers from Alzheimer's, has been using the **Miamind® Neurostimulator** – and the **results have been impressive!**

His **speech and communication abilities** have significantly improved. He actively participates in conversations, **remembers** everyday things like his keys, and finds it much easier to read the clock and solve math problems.

Our family was surprised by these improvements – especially since no noticeable progress had been seen before. **We are very grateful for this positive development.** ”

- Spouse about her husband with mild-AD, 62 years old -

Contact us for a **free consultation** on how the Miamind® Neurostimulator can benefit your patients.

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References

¹Datta et al., *Front. Psychiatry* (2012) ²Guerra et al., *Neurosci. Lett.* (2020) ³Benussi et al., *Brain Stim.* (2021) ⁴Benussi et al., *Ann. Neurol.* (2022) ⁵Sprugnoli et al., *Alzheimers Res.* (2021) ⁶Bréchet et al., *Front. Neurol.* (2021) ⁷Cappon et al., *Front. Hum. Neurosci.* (2023) ⁸Zhou et al., *J. Neurol. Neurosurg. Psychiatry* (2022) ⁹Kim et al., *J. Psychiatr. Res.* (2021) ¹⁰Dhaynaut et al., *J. Alzheimers Dis.* (2022)

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