Neurosoft rTMS Features

The complete design of the Neurosoft rTMS system was originally for clinical usage which fundamentally provides many reasons behind the advantages of our system:

- the curved coil design which has practical advantages in skull placement, and focussing of the beam, provides a higher level of comfort and patient compliance/tolerance.
- the highly efficient cooling system which is necessary for up to 24/7 usage at full power without any heating of the coil whatsoever.
- coil longevity is therefore assured due to the design, the cooling and robust manufacturing.
- therefore, coils last an extremely long time (typically 10+ years) & do not require replacement after a certain time or usage.
- theta burst is included in the full system and is overall more economical to purchase.
- there are no running costs or consumables except for optional patient caps.
- touch screen all-in-one computer system provides a very easy and pleasant to use user interface.
- computer provides a complete patient data base, history of patients and treatments which can all be exported.
- software updates are provided free of charge; latest updates include soft-start, chime before start/each train & finish, auto & semi-auto MT assist, and more.
- maintenance free system, spare parts in Australasia if ever needed.
- A specifically designed TMS chair enabling articulated coil holder to attach to the chair back, providing a perfect ergonomic solution for both operator and patient.
- A simple individual patient cap & clever positioning tool can be used to mark DLPFC and anatomical landmarks for re-use with each patient for treatment position.
- This combined with new optional positioning tool enhances coil positioning and accuracy of treatment.
- full support by our own engineers in Australia & NZ.
  24/7 Skype on-line Neurosoft support including remote diagnosis.

WHAT IS TMS?

The alternating magnetic field easily penetrates through skin, cranium bones, soft tissues and reaches the cortex. This field has extremely high intensity. If the coil is positioned over the brain cortex and the stimulus is delivered, the intensity of induced field is enough to activate large groups of neurons.

Such impact allows performing a wide range of diagnostic and therapeutic procedures. The repetitive transcranial magnetic stimulation performed for a long time (about 10-30 minutes) can modulate the cortex excitability.

For example, the excitability can be increased with high-frequency stimulation or decreased with low-frequency stimulation. The magnetic stimulation has proven therapeutic effect at different psychiatric and neurological disorders. The main indication, where most of TMS machines are used now in daily practice, is MDD (Major Depression Disor-der).

TMS IN DEPRESSION TREATMENT

Nowadays, both pharmacological and non-pharmacological options are used to treat the depression. Most often a patient is offered either pharmacological or the combined treatment consisting of antidepressant medication and psychotherapy, which really works, but, unfortunately, not for everyone.

If the patient does not respond to medication or cannot tolerate the side effects of medication, rTMS therapy becomes an alternative. According to the results of the clinical trials, the number of responders of rTMS therapy in antidepressant treatment-resistant patients is about 50%. At that, depending on the depression type the remission is reached in every second* patient.

WHY NEUROSOFT?

The Neuro-MS/D magnetic stimulators can perform deep focused stimulation of dorsal prefrontal cortex (DLPFC). It impacts the mood stabilizers, thus, the long-lasting therapeutic effect with no pain and minimum contraindications is achieved.
The Neuro-MS/D configurations are not only highly effective but also thoughtfully designed. Neurosoft magnetic stimulators are the obvious choice of TMS specialists all over the world. The choice of those, who value reliability, safety and time.