Transcranial Magnetic Stimulator(MEP, TMS Solution) A proven non-drug treatment for depression

TAMAS

















What is TAMAS(TMS)

TAMAS – Transcranial magnetic stimulation(TMS is a safe, non-invasive therapy method that uses rapidly changing magnetic field to stimulate the neurons in the brain. It is indicated for the treatment of Major Depressive Disorder(MDD), and other certain conditions, in adult patients who have failed to achieve satisfactory improvement from prior antidepressant medication. Using highly focused, MRI strength magnetic pulses, TMS activates a specific region of the brain which regulates mood. This precise focusing of magnetic field that can pass through tissues and bones will enable stimulation without surgery.









Benefits & Features of TAMAS

TMS is an outpatient procedure and does not require anesthesia or sedation, so you can go back to your daily life right after a treatment. There is no need to disrupt your usual routine. Unlike other treatments, such as electro-convulsive therapy(ECT), TMS does not cause cognitive side effects or memory problems.

TMS is created about 3 Tesla magnetic field.

Built-in cooling system for coil overheating prevention.

Touch screen interface offers access to easy operation.

The transducer of figure-of-eight design allows precise focusing.

It can be linked to biological signal instruments like EMG.



Contraindications

TAMAS is contraindicated in patients with implanted metallic devices or non-removable metallic objects in or around the head.

If you have anything other than braces or metal fillings, you should consult a physician.

Mechanism

High power supply (volt/Current)

Figure-of-eight Stimulation coil

AC High power Electromagnetic Field

Skin / Bone Penetration Target Therapy (Deep penetration)

Clinical Application

Neuropsychiatry Neuropsychiatry		Rehabilitation
Depression	Tinnitus	Multiple Sclerosis
Obsessive Compulsive Disorder	Hallucination	Epilepsy
Schizophrenia	Insomnia	Facial Palsy
Bipolar Disorder	Headache	Stroke
Anxiety	Panic	Parkinson Disease

Specification

Peak magnetic energy	0.5~3.0 Tesla@100% output	
Repetition rate	15Hz@100% output	
	20Hz@80% output	
	30Hz@50% output	
	50Hz@30% output	
Train Duration	User selectable in 0.1sec increment	
Output waveform	Symmetric biphasic pulse	
Pulse width	350µs	
Trigger input/output	TTL(Active low or high: via D-type connector)	
Operating	Color TFT LCD touch screen	
Weight	50kg	
Power supply	200~240Vac 50/60Hz 5A, Single phase	
Software	Integrated color touch screen display	
	3 stimulation modes(single, repetitive, burst)	

Company History

2003 Corporate Establishment

Releasing CR-3000 for the magnetic treatment of joint pains Permit of medical instrument manufacturing business(KFDA)

2004 New product introduction/announcement of TAMAS for the magnetic evoked potential(Kangnam St.Mary's Hospital)

Establishment of corporate R&D center

Selected as the managing company for the government project sponsored by the Ministry of Commerce, Industry & Energy Developing brain map diagnosis system(MEG) using biomagnetic field

2005 Selected as the managing company for the government project sponsored by the Ministry of Health & Welfare

Developing X-ray detector with Photon Counting Method capabilities

Certificate of Venture company(Small and Medium Business Administration)

Acquisition of Certificate EN ISO9001-2000

2007 Development of combined stimulator(Salus-Talent) for medical purpose

Acquisition of permit for manufacture of laser irradiation instrument for medical purpose

Patent application of TAMAS

Patent application of Salus-Talent

Acquisition of ISO13485

TAMAS receiving Excellence Award from Technology Exhibition of Healthcare Industry

President & CEO Geun Yong Lee receiving award from Commissioner of KFDA

Development of body age measurement system(developed collaboratively with SMT Germany) 2008

TAMAS certified for quality by Korea Health Industry Development Institute

Acquisition of GH Mark

Acquisition of INNO-BIZ

Releasing Salus-Talent

Acquisition of Salus-Talent CE certificate

2009 Acquisition of TAMAS CE certificate

Patent for ESWT created using electromagnetic

Acquisition of Salus-Talent III for ESWT/pain solution

Releasing ESWT Rosetta 2010



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