



ENERGETIKA369

rTMS NeuroPulse



Transcranial Magnetic Stimulation

B R A I N R E H A B I L I T A T I O N I N S T R U M E N T

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Brain Rehabilitation Instrument



Technological Principle

The brain rehabilitation instrument functions by delivering repeated brain stimulation through a generated magnetic field of specific frequency and intensity. Based on Faraday's law and the uniform magnetic permeability of biological tissues, this magnetic field can non-invasively penetrate the skull and reach intracranial tissues. Once inside, it induces an electric current that stimulates brain cells.

Benefits and Functionality

1. Restoration of Damaged Brain Cells

The brain circulation treatment system utilizes a microcomputer to monitor and emit specialized "brain circulation" pulses. These pulses produce an alternating magnetic field that penetrates deep into the brain, altering the cell membrane potential. This stimulates damaged brain cells to detoxify, metabolize, and self-repair—contributing to the restoration of normal cellular function.

2. Stabilization of Collateral Circulation

The alternating magnetic field induces a high concentration of positive charges in the brain, which strongly attract negatively charged red blood cells. This interaction encourages red blood cell deformation within capillaries, enhancing microcirculation, increasing the elasticity of cerebral blood vessels, and gradually promoting the formation of collateral circulation.

3. Remodelling of Brain Function

By generating an alternating magnetic field, the therapy system interferes with and inhibits abnormal brain electrical activity (EEG). This helps re-establish normal EEG network functioning, contributing to the progressive restoration of healthy brain activity.

Areas of Application

- **Cerebrovascular Diseases:** Cerebral infarction, insufficient blood supply to the brain, stroke, etc.
- **Mental Disorders:** Insomnia, depression, anxiety, psychosis, etc.
- **Brain Injuries:** Concussion, cerebral palsy, recovery from cerebral hemorrhage, etc.
- **Movement Disorders:** Parkinson's disease, tremors, etc.



Product Introduction

Product Name

NeuroPulse – Transcranial Magnetic Stimulation for Brain Rehabilitation

Brain Rehabilitation Instrument

Model: BLNP0025

Specifications: 1 output channel

Product Structure and Technical Parameters

Product Structure

The device consists of the following components:

- One main unit (host)
- One power supply cable
- One magnetic therapy cap equipped with magnets and a vibration micromotor

The magnetic therapy cap for adults contains 7 magnets, while the children's version contains 6 magnets.

Technical Parameters

Operating Conditions:

- Ambient temperature: 5°C to 40°C
- Relative humidity: 30% to 75%

Electrical Specifications:

- Working voltage: AC 220V $\pm$ 22V
- Frequency: 50Hz $\pm$ 1Hz
- Input power: 150VA

Magnetic Field Intensity (Therapeutic Cap):

- Low setting: 6mT ~ 10mT
- High setting: 11mT ~ 19mT

Packing List

(Detailed list of accessories included in the package)

No.	Accessory name	Qty	Unit
1	host	1	pc
2	Power cord	1	pc
3	Therapeutic cap	1	pc
4	operation instruction	1	pc
5	Backup fuse	2	pc
6	certificates information	1	set



Product Contraindications

Use of the Transcranial Magnetic Stimulation Therapeutic Instrument is contraindicated in the following cases:

1. Pregnant or lactating women
2. Patients with severe primary diseases (e.g., liver, kidney, or hematopoietic disorders)
3. Individuals with pacemakers, metal implants, or electronic cochlear implants
4. Patients experiencing high fever
5. Individuals with bleeding disorders or a tendency to bleed
6. Patients with acute cerebral hemorrhage
7. Individuals with malignant tumors or cancer
8. People who are unable to tolerate magnetic fields

Precautions for Use

- Read this manual carefully before use. Operate the device only under the supervision of professionally trained personnel and with the guidance of a doctor.
- Patients in a weakened state should be closely monitored during treatment.
- If dizziness, palpitations, or other adverse reactions to the magnetic field occur, stop using the device immediately.
- Avoid exerting pressure on the helmet during treatment (e.g., lying flat), as this may impair its function and therapeutic effectiveness.
- Do not use the device on areas with skin lesions until the skin has healed.
- Patients must wear a disposable protective cap with a registration certificate before applying the magnetic therapy helmet.
- At the end of treatment, remove the helmet first, then switch off the power supply.
- When not in use, lock the safety pedal of the universal wheels.
- Always switch off the main unit before connecting or disconnecting the power cable.
- Do not use the device in humid environments or where harmful gases are present. Avoid subjecting the main unit to pressure, scratches, or strong vibrations.
- Before checking or replacing the fuse, disconnect the power cord and use only the same model and specification fuse.
- Do not open the rear panel of the device to prevent the risk of electric shock.

Instructions for Use

Preparation for Start-up

1. Connect the output connector of the magnetic therapy helmet to the corresponding port on the main unit.
2. Insert the power plug of the main unit into a properly grounded electrical outlet.
3. Turn on the power switch located on the back of the device.
4. Ensure the therapy instrument screen lights up.

Note: The incoming power supply must be properly grounded to prevent possible electric shocks to operators and patients.



Wearing the Magnetic Therapeutic Helmet

Positioning and Preparation

- The patient should be seated or in a semi-reclining position.
- Before wearing the helmet, the patient must put on a disposable protective cap.
- Position the helmet so that it is correctly aligned in the anterior (front) and posterior (back) orientation.



Magnetic Headgear Placement

- Ensure the three short-term magnetic heads are positioned at the front of the head.
- Maintain equal spacing between the magnetic heads for consistent and comfortable treatment.

Setting the Treatment Parameters

Note: The incoming power supply must be well earthed to avoid possible electric shocks to both operators and patients.

Setting Procedure

1. Switching on the device

After start-up, the main interface is accessed, which displays the following options:

- “Instructions for use”
- “Treatment Modalities”
- “Precautions for use”

2. Menu Navigation

- Click on “Instructions for use” to access the operating instructions interface, where you can learn about the operation of the device and the correct method of wearing the magnetic therapy helmet.
- Click on “Precautions for use” to view information on precautions to be taken when using the device.
- Click on “Treatment Modes” to access the parameter setting interface.

3. Setting Parameters

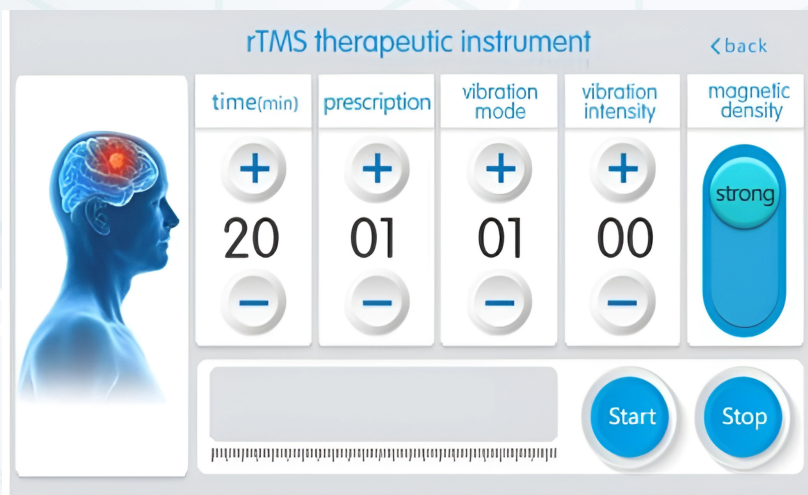
- Once in treatment mode, use the ‘+’ and ‘-’ buttons to adjust the desired parameters.





Setting the Treatment Parameters

- **Prescription (frequency and duration):** Press the '+' and '-' buttons to adjust the prescription as required.
- **Treatment time:** Selectable in 5-minute increments, up to a maximum of 95 minutes. At the end of the countdown, the output automatically stops and an acoustic signal sounds.
- **Magnetic field strength:** Select the on-screen button to switch between strong and weak modes.
- **Vibration modes:** 12 vibration modes are available. Press '+' and '-' to select the desired mode.
- **Vibration intensity:** Adjustable with the '+' and '-' buttons, within an adjustment range of 1 to 10.



Important Notes

- The prescription, treatment time, and vibration mode must be set before starting treatment.
- Once treatment has begun, these parameters cannot be changed, but magnetic field strength and vibration intensity can still be adjusted to suit the patient's tolerance.
- Always increase magnetic field strength and vibration gradually from the lowest level to avoid discomfort or adverse effects.
- Adjust intensity only with the patient's consent.

Start of Treatment

1. Press the Start button on the screen.
2. Monitor the patient's condition closely. If discomfort occurs, adjust the magnetic field or vibration intensity to suit tolerance.
3. If needed, press Pause to temporarily stop the session. The device will enter standby mode and reset parameters to default.

Switching Off the Device

1. Press the Stop button to turn off the main unit.
2. Remove the magnetic therapy helmet.
3. Allow the patient to rest.

Treatment Methods

- **Recommended use:** Once daily for 20 minutes.
- **Suggested cycle:** 4 weeks.
- Follow your doctor's guidance for any modifications to the treatment plan.



Daily Maintenance

Environmental Requirements for Use

- Maintain normal ambient temperature during operation.
- Keep the device free from dust, moisture, and avoid upside-down positioning.
- Do not place objects on the top panel.
- Keep away from high-frequency instruments or devices with large motors sharing the same power supply.
- Avoid contact with the screen using sharp objects.
- After use, disconnect the power supply and store the device in a dry, dust-free, and well-ventilated location, away from corrosive gases.

Transport Precautions

- For short distances, handle with care.
- For long-distance transport, pack securely in original packaging.

In Case of Device Failure

- Refer to the Common Faults and Solutions section of the manual.
- If the issue persists, contact the authorised service centre.
- Do not attempt self-repair.

Warnings

- Do not store in humid or high-temperature environments, or in direct sunlight.
- Keep out of reach of children.
- If used regularly, avoid leaving the device unused for extended periods.

Cleaning and Disinfection

Cleaning

- Wipe the surface with a cotton cloth soaked in neutral detergent.
- Do not use organic solvents, petrol, or abrasive materials.

Disinfection of Patient Contact Parts

- After each treatment, clean and disinfect all parts that have come into contact with the patient or operator using 75% alcohol.

Transport and Storage

Conditions

- Ambient Temperature: -40°C to $+55^{\circ}\text{C}$
- Relative Humidity: $\leq 80\%$
- Atmospheric Pressure: 500 hPa to 1060 hPa
- Store in a well-ventilated, corrosion-free environment with humidity below 80%.

Transport & Storage Method

- Use foam padding between the device and its packaging to protect from shock, vibration, and moisture during transport.
- Avoid storing in areas with high humidity, smoke, or water vapour to reduce electric shock risk.
- Do not store in environments with extreme temperatures (too low or too high).
- Never store the device upside down or on its sides.



Rehabilitation Scheme for Common Encephalopathies For Transcranial Magnetic Stimulation Therapeutic Equipment

Disease	Magnetic intensity	Treatment time (minutes)	vibration intensity	Vibration mode
Children's cerebral palsy	weak	30	0-1	1-3
Tourette's	weak	25	0-1	1-5
ADHD	weak	30	0-1	1-3
brain atrophy	weak	20-30	1-2	3-5
depression	weak	20-30	0-1	1-3
Epilepsy	weak	20-30	0-1	1-3
Children with severe autism	Strong	20-30	1-2	1-3
Cerebral infarction rehabilitation	Strong	20-30	1-2	3-5
cerebral arteriosclerosis	Strong	20-30	1-2	3-5
Rehabilitation of lacunar cerebral infarction	Strong	20-30	1-2	3-5
Postoperative rehabilitation of traumatic brain injury	Strong	20-30	1-2	3-5
Brain fatigue syndrome	Strong	20-30	1-2	3-5
hypomnesia	Strong	20	1-2	5-9
neurosis	weak	20-30	0-1	1-3
insomnia	weak	20-30	0-1	1-3
hypertension	weak	20-30	0-1	1-3
Mental disorder	Strong	30	1-2	3-5
Parkinson's disease	Strong	30	1-2	3-5
senile dementia	Strong	30	1-2	3-5
schizophrenia	weak	20-30	0-1	1-3
Nervous headache	Strong	20-30	1-2	3-5

THANK YOU!



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