HOPE Medical Centre
Offer:

Area of operation includes the treatment and therapy of diseases and dysfunctions of the children locomotor system, adolescents and adults. Our customers are patients neurological (SM, strokes, spinal injuries, cerebral palsy children etc.) orthopaedic patients (prosthesis, fractures, reconstruction, etc.) Patients neurosurgical (after spine surgery, sciatica, discopathy etc.). rheumatological, cardiac disorders, athletes and others.

We accomplish this by:

Consultations with physiotherapy and medical specialists:
- Orthopaedics
- Neurologists
- Sports Medicine Doctors
- Occupational medicine
- Paediatrics
- GP’s
- Internal Medicine
- And others.

Rehabilitation, including:
- Physiotherapy treatments (phototherapy, electrotherapy, thermotherapy, magnet therapy, laser therapy, ultrasound)
- Movement therapy (Lokomat, Biodex Gait, Biodex Balance, Kaiser, CycloErgometer, individual exercises Pragma system, according to PNF methods, NDT Bobath, manual therapy and others) Therapeutic massage and pneumatic massage (lymphatic drainage)

Diagnostics in:
- Biomechanics of movement
- Gait analysis
- Functional testing of recording EMG
- Posture, scoliosis, flat feet and other
Medical equipment offered:

1. **Apparatus for electrotherapy** and offers various types of currents min.:
   - DD currents
   - Interference currents
   - Galvanization
   - Iontophoresis
   - Tens currents
   - Currents, Traber
   - Electrostimulation
   - Other


3. **Lamp Q-light** - used for light therapy and colour therapy, used in the treatments of scars in neurological disorders in the post-traumatic, cosmetology and dermatology.

4. **Magnotherapy** - pulse therapy device low-frequency magnetic field.

5. **Laser** - bio stimulation lasers used in rehabilitation, Bio-stimulation scanning with 3 independent wavelengths issued simultaneously or separately.
6. Thermotherapy – Camera Thermopress allows you to set temperature control range from 0°St. C to 40°St. C.

7. Therapy Compression - compression massage equipment sequential circulatory disorders, lymphatic system, after mastectomy, in the fight against varicose veins,

8. A system for analysing attitude Zebris - test range of motion and shape of the curvature spine during certain tests, as well as the assessment of the figure in a static position and to computer diagnostics and ambient feet static and dynamic conditions.

11. **wireless system for recording and analysing EMG** - offers modern technologies for recording and analysing procurement of bio potentials of muscles, assessing the functioning of the musculoskeletal system for doctors, physiotherapists, scientists.

12. **Biodex Balance System** - a device for evaluation and balance training. Biodex Balance System Platform responsible for:

- Ability to maintain the level of unstable ground the so-called. dynamic equilibrium (dynamic balance)
- Controlling the mobility of unstable ground in different directions the so-called. Stability range (limits of stability) - training proprioception / balance of provision of feedback so. biofeedback to correctly re-education posture and balance:

**Advantages of the system:**

- biofeedback - available real-time feedback, which is essential
- neuromuscular re-education part of the process - the muscle. An objective assessment of various elements proprioception and balance, stability (the ability to maintain balance) and controlled
- balance (so-called. mobility imposed on stability).

13. **Biodex Gait Trainer** - a professional system that allows dynamic and precise relieving the patient for testing and treatment. Perfectly suited to work with patients with neurological disorders, orthopaedic.
The detection system shows: the length and width of the step and the walking speed parameter estimation the patient's gait. This allows you to develop normal patterns of gait, stimulating balance, coordination and strength and endurance respective groups muscle. A key component of the treatment is obtained by the so-called real feedback. biofeedback for the corresponding model and its i.e. parameters. length and speed step, and phase symmetry of gait.

14. **Automated orthosis to evaluate and study -to unique gait** LOKOMAT a device allowing gait training u in terms of dynamic relief from simulation of the walking pattern of lower limb segments (thigh and drumstick), with the possibility of setting the gait parameters (speed, stride length, angle employment knee and hip). The use of orthoses allows for precise assure the maximum number of repetitions of cycles in normal gait pattern, which It is an essential element in the re-education of lost or impaired gait function. In addition, it sued to prevent the emergence of compensation and pathological patterns the early stages of improvement in neurological diseases. Other advantages of the use of orthotics:

- Individualization parameters during training gait (individually adjustable resistance and / or support not busy hand, allowing execution of liquid symmetrical walking pattern (e.g. patient palsy sided).
Assessment of patient activity Calories, stiffness segments the body during the movement. generate power for the individual body segments (thigh. The lower leg), range of motion individual segments of the whole (the thigh. The lower leg). Increase induced neuroplasticity training through physiological stimulation of afferent endings in the extremities lower.

The use of the orthosis is in place in neurorehabilitation patients after stroke, CNS trauma. spinal cord injury, degenerative diseases of the CNS. in children with MPO.

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