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Who is eligible?

Neurogenic locomotor disorders

5- 21 y.o.

Residents of the Greater Poland (Poland region)

EU-funded project

Two-week rehabilitation, provided twice a year

Free rehabilitation

Outpatients

Accommodation provided for families living outside Poznan, more than 30 km from the city

Already about 1000 patients in programme (800 patients with CP)

Qualifications

Patients registration

Medical consultation /
assessment

Gait Laboratory evaluation
(currently conducted once
a year)

Two-week rehabilitation
program (repeated every
six months)



Lab Gait



Rehabilitation program

- Medical examination
- Orthopedic consultation (*if required / available upon request*)
- Individual physiotherapy
- Robotic physiotherapy
- Occupational therapy
- Educational sessions with a special educator
- Psychological consultations



Admission and discharge

- Physiotherapy assessment
- Medical examination
- Functional assessments
- Gait analysis session



Physiotherapy examination

- Range of motion measurements
 - Hip joint
 - Knee joint
 - Ankle joint
- Assessment of muscle strength (*Lovett Scale*) and selective motor control
- Assessment of spasticity using the **Tardieu Scale** and **Ashworth Scale**
- HAT assessment (*Hypertonia Assessment Tool*)
- Zancolli, House and MACS classifications
- Gillette Functional Assessment Questionnaire (FAQ-22 and FAQ-10)



Medical examination

- Clinical interview
- Measurement of range of motion of the lower limbs (LL), muscle strength assessment, and spasticity evaluation
- Assignment of equipment and a designated therapist

Functional testing

- 6MWT (6-minutes walking test)
- 10MWT (10-metres walking test)
- TUG (Time Up and Go)



GAS

- Goal Assessment Scale
- Tailored based on an interview with the parent and the child
- Based on interdisciplinary team collaboration (*medical assessment, physiotherapy assessment, pedagogical assessment, occupational therapy assessment, gait laboratory evaluation*)

Therapy

- **Individual kinesiotherapy**
- **Gait re-education** (*Lokomat, RoboGait, G-EO System, EKSO*)
- **Treadmill training** (*Zebris*)
- **Gait, static and dynamic balance, and eye–hand coordination training** (*GRAIL system*)
- **Gait and balance training** (*ZeroG*)
- **Balance platforms** (*Alfa, Gamma, Biodex, Biosway*)
- **Visuomotor coordination training** (*Neuroforma*)
- **Verticalization / standing training** (*Innowalk*)
- **Vibration therapy** (*Galileo*)
- **Hand therapy** (*Pablo system*)
- **Electrical stimulation**
- **Strength training on a climbing wall**

Cooperation

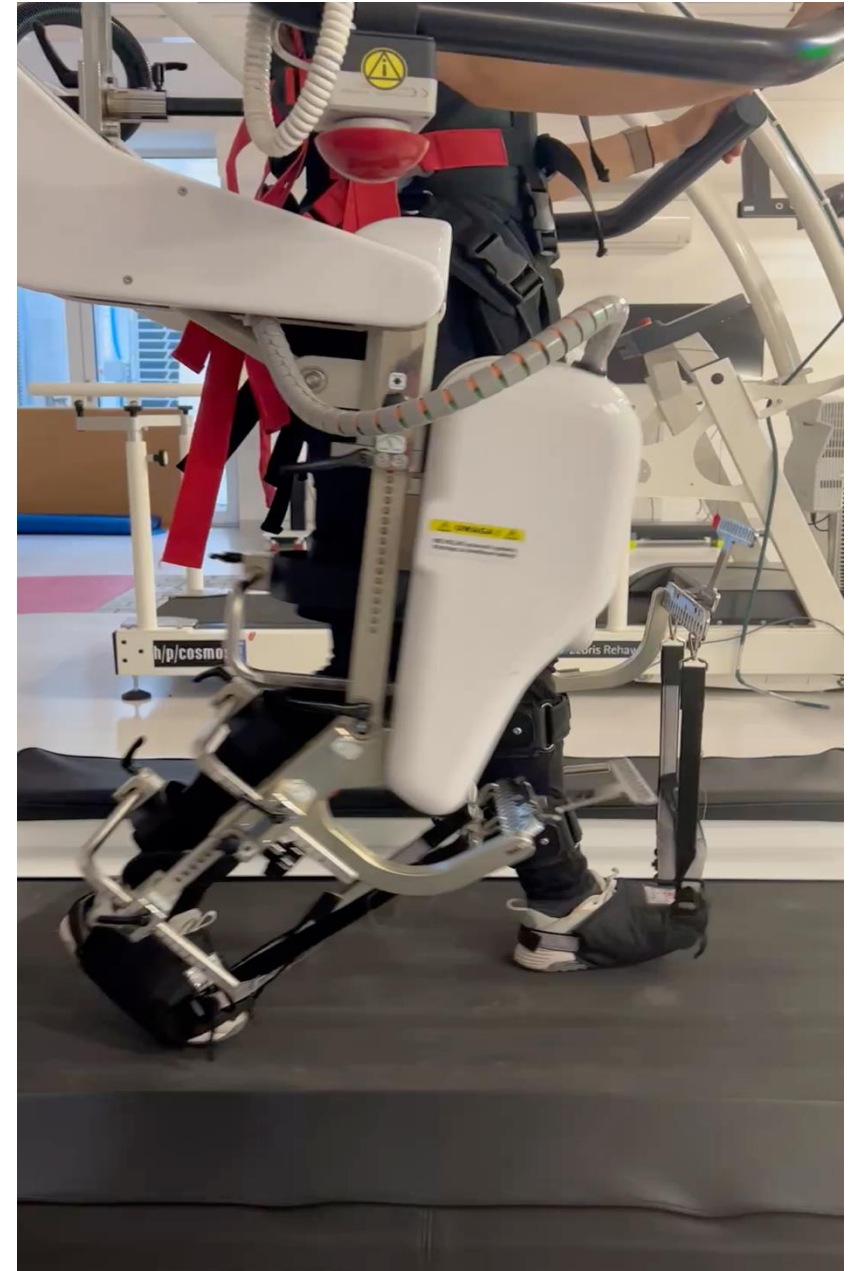
- Letters to physiotherapists treating children in their local areas to establish cooperation towards a shared goal, continuation of the selected GAS goals at the centre, or exploration of new therapeutic solutions.



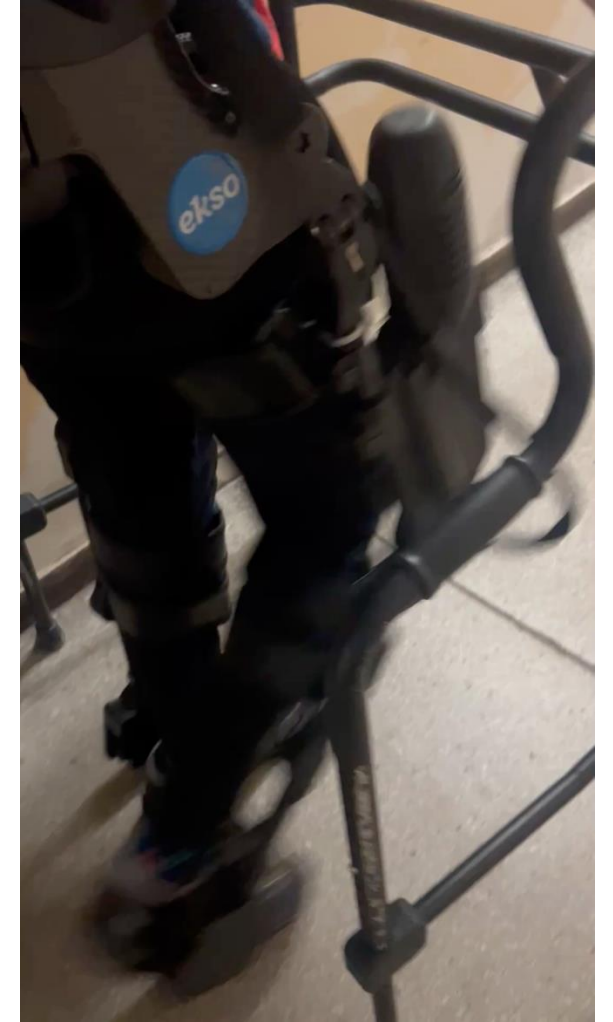
Lokomat



RoboGait



EKSO



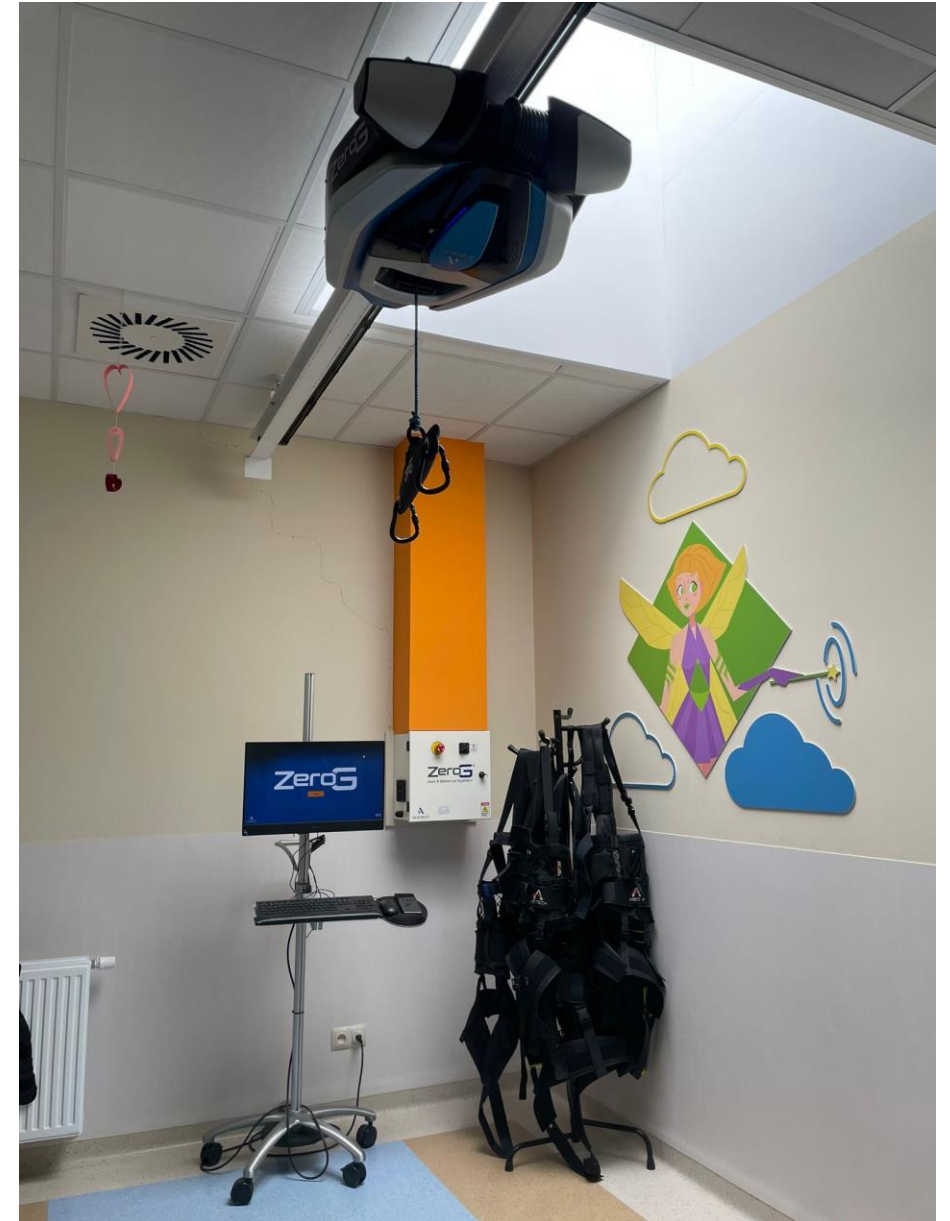
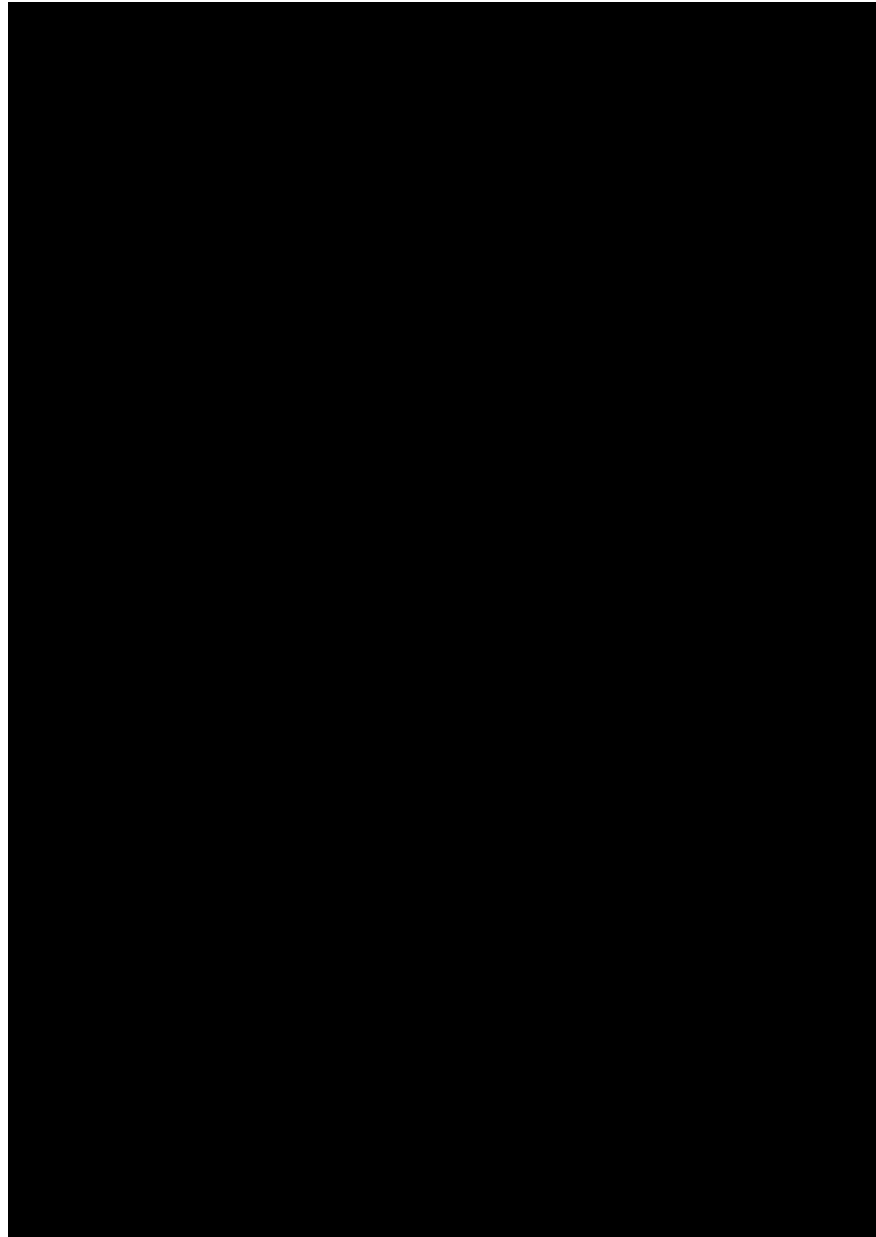
G-EO System



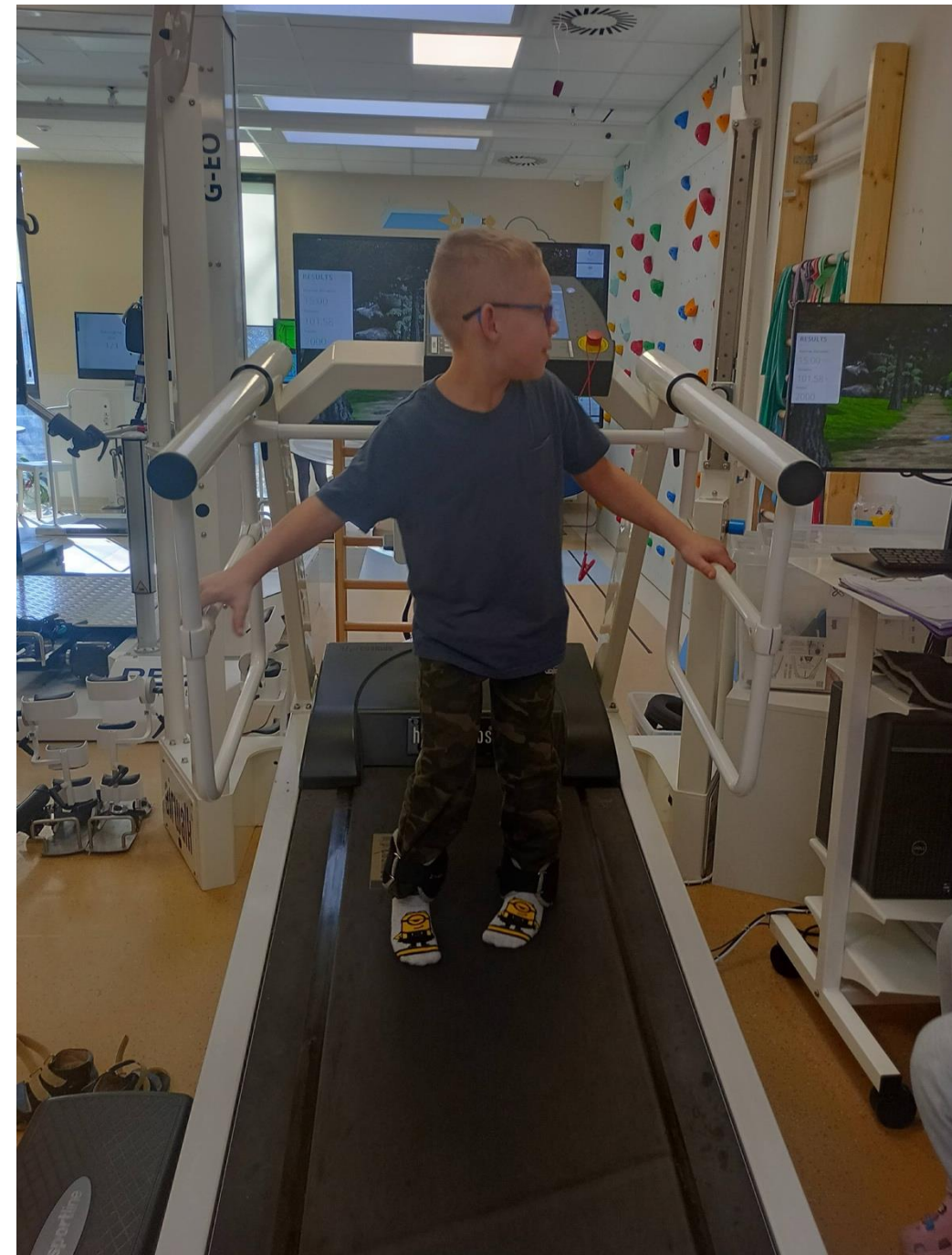
Grail



Zero-G



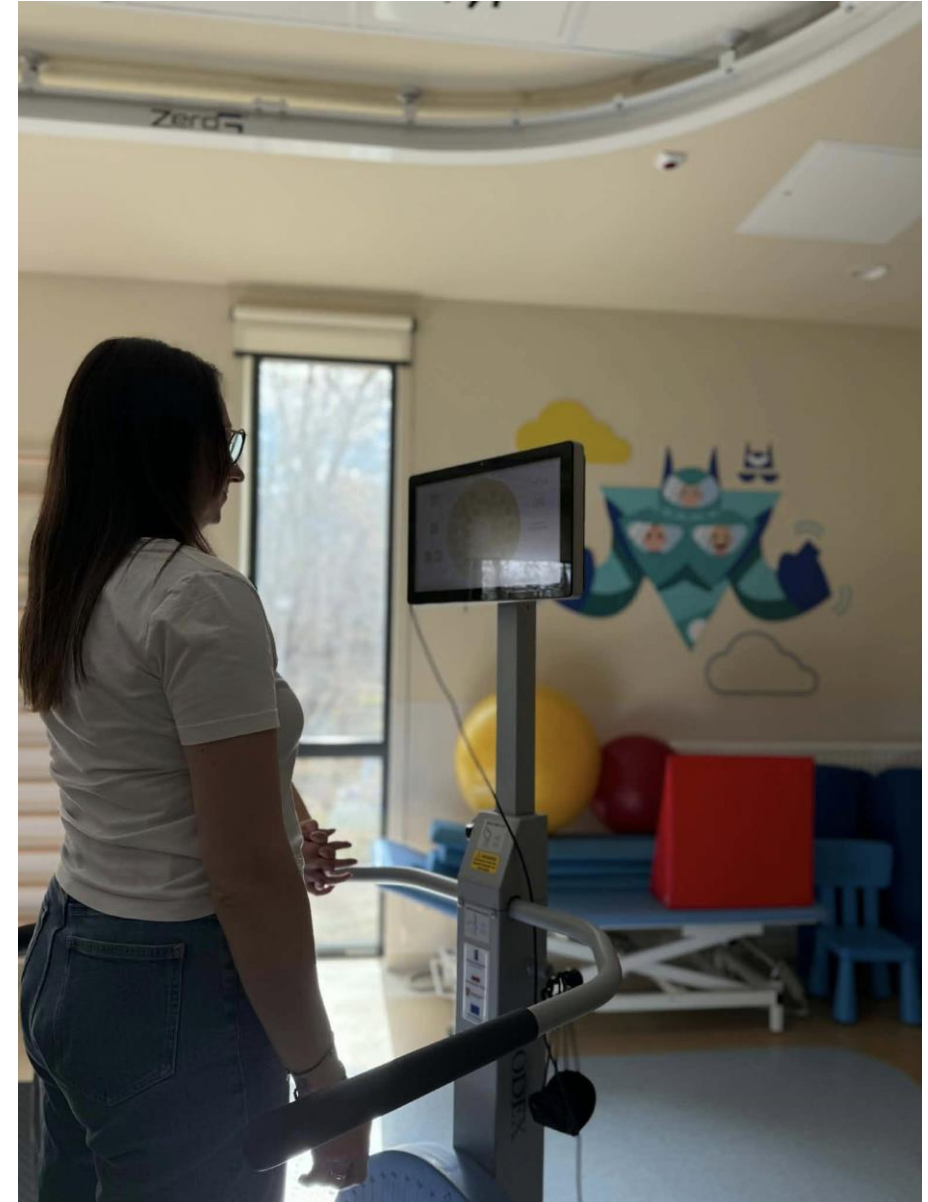
Zebris



Alfa and Gamma balance platforms



Biosway & Biodex balance platforms



Innowalk



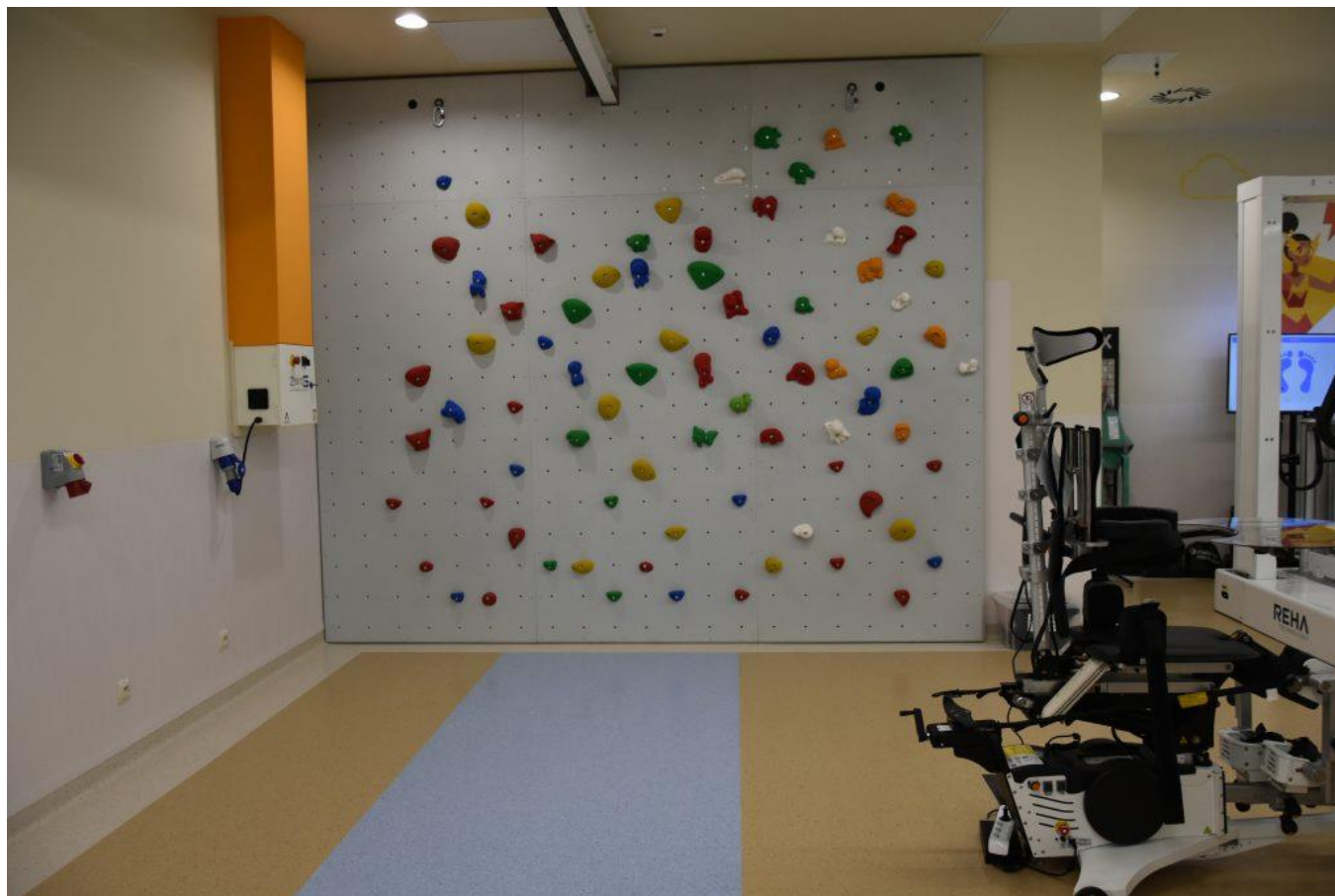
Galileo



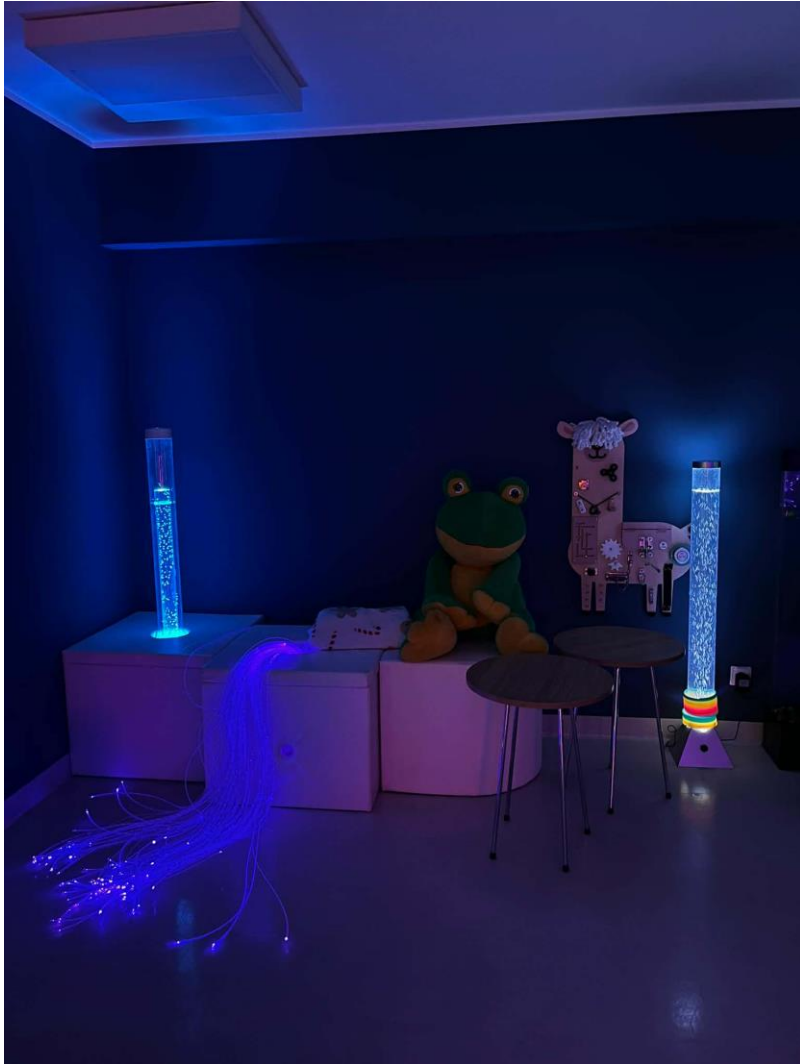
Neuroforma



Climbing wall



Multisensory room



F – WORDS (6F, framework for pediatric therapy)



- Fun
- Fitness
- Functioning
- Family
- Future
- Friends



Thank you for your attention! This is our team.

Let's stay in touch:

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