# WHAT KIND OF PATIENTS IS SEEME FOR?

SeeMe purpose is to support functional therapy for patients who have lost the function of or have restricted function in their body or cognitive functions caused by cerebral, neurogenic, spinal, muscular or bone-related disorders. Taking into account the contraindications and every patient's individual profile, SeeMe can be used in the case of:

• *Cerebro Vascular Accidents* • *Multiple sclerosis* • *Cerebral palsy* • *Parkinson`s Disease and Extrapyramidal Syndromes* • *Brain-tumor operations* • *Spinal cord injuries* • *Traumatic brain injury* • *Muscular atrophy* • *Deconditioning - muscle weakness due to lack of mobility* • *Endoprosthesis for hip, knee, elbow and shoulder joints* • *Following stable fractures of vertebra and/or extremities* • *Limb amputations with or without prosthesis* • *Balance and Equilibrium disturbances*

## WHAT ARE THE SYSTEM REQUIREMENTS FOR THE SEEME SYSTEM?

Operating System: Windows 7, Windows 8
Processor: Intel(R) i3 or better
Memory: 2 GB RAM
Graphics: NVIDIA® GeForce® or ATI™ Radeon™ or Intel HD Graphics 4000 (or better)
Hard Drive Space: 2 GB space available
Sensor Hardware: Kinect for Windows
Second screen: An external monitor or TV

## CONTACT

### BRONTES PROCESSING.coM

**Brontes Processing Sp. z o.o.**
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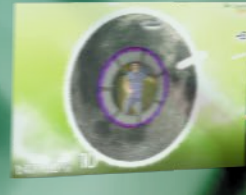http://www.virtual-reality-rehabilitation.com

## COMPANY PROFILE

Brontes Processing is a medical technology company based in Gliwice, Poland. The company develops innovative therapy solutions, working closely with leading clinics and research centers. Its SeeMe system is applied successfully in many renowned clinics and research institutes worldwide, improving the field of rehabilitation medicine.

## WHY PATIENTS LIKE SEEME?

The SeeMe system is suitable to be used to treat a wide variety of patients. It has a big library of interactive tasks that can be tailored for children or seniors.

## PARTNERSHIP OPPORTUNITIES & SUPPORT

In order to bring more of our ideas into reality we are currently looking for the international partners, who would be willing to help us by providing medical guidance or financial support. If you have any questions, comments or suggestions, please contact us.

SeeMe

REHABILITATION BY FUN

This one and another **10** THERAPEUTIC TASKS

ISO
ISO 13485 CERTIFIED

# VIRTUAL **REALITY** REHABILITATION
## with BIOFEEDBACK

SeeMe is a PC based, innovative, comprehensive, clinician–controlled exercise and diagnostic system. SeeMe is designed to aid the rehabilitation process, and track patients' progress. It improves coordination, balance, muscle strength, range of motion, reaction times, memory – the number of applications is getting bigger with system updates. SeeMe uses Microsoft's Kinect technology.

VR REHABILIT

# Key features of SeeMe

SeeMe provides active training in the form of games – what makes patients more motivated to participate in their rehabilitation process. SeeMe creates a feedback loop between a patient performing rehabilitation exercises and a physical therapist. In real time the physical therapist can monitor the patient's performance and adjust parameters of current "gamified" exercise to match the patient's individual recovery needs.

## 1. DEEP CUSTOMIZATION

Each exercise can be personally customized to meet the specific requirements of the patient. All the task customizations can be done in real time - while patient is playing.

**SeeMe**

R E H A B I L I T A T I O N   B Y   F U N

Exercise params
Statistics Preview
Reports generator
therapist's panel
Import/export data
Patients database

therapeutic tasks for the patient

Microsoft Kinect controller

**ISO**
ISO 13485 CERTIFIED

## 2. MANY APPLICATIONS

SeeMe uses a wide variety of therapeutic tasks to enable training in all rehabilitation domains:

### MUSCULO-SKELETAL
- Range of motion
- Strength
- Endurance
- Fitness and cardiovascular training

### BALANCE AND EQUILIBRIUM
- Trunk and postural control
- Anticipatory postural responses
- Adequate reactions to stimuli and distractors placed in preplanned positions or random
- Crossing the midline

### NEUROLOGICAL
- Movement quality
- Movement awareness and proprioception
- Bilateral movements in response to bilateral stimuli

### COGNITION
- Memory
- Perception
- Planning and Executive Functions

## 3. ENGAGING ACTIVITIES

All the therapeutic tasks included in SeeMe offer plenty of parameters and levels. By having those options – therapists are able to prepare trainings that let patients experience positive emotions, keep motivation, become more self-confident and in the same time remain challenged. There is no need to wear, hold or be attached to any equipment – patients can almost forget it is still a real rehabilitation!

## 4. POWERFUL REPORTS

Biofeedback, delivered by the system, enables detailed insight into the course of each training and long-term progress as well. It allows therapist to collect objective results of treatment progress. The system is able to detect compensation movements, the relative angles between various limbs, movement times, range of motion and more.

## 5. RESEARCH TOOL

SeeMe software provides relevant documentation about the therapy. The stored documentation offers information about the results achieved by the patient with all the details describing the conditions in which patient was playing. The documentation collected by SeeMe allows objective evaluation of the therapy progress and can be used to support clinical decision making.