

"Zalety kliniczne"

NOWOŚĆ Muzykoterapia

Dla bieżni Biodex Gait Trainer 3



Wykorzystaj moc muzyki w zaburzeniach ruchowych

Terapia wspomagana muzyką (muzykoterapia) w połączeniu z technologią biofeedbacku rewolucjonizuje leczenie zaburzeń ruchowych.



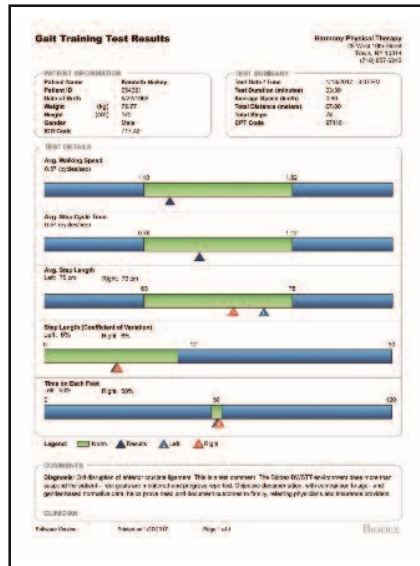
We współpracy z muzykoterapeutami

Muzyka przeznaczona dla pacjentów neurologicznych w połączeniu z technologią treningu chodu wprowadza terapię wspomaganą muzyką do planu rehabilitacyjnego.

How Music-Enhanced Therapy Impacts Rehabilitation

Those affected by debilitating neuropathologies respond favorably to rhythmic auditory cueing (RAC) and musical elements carefully chosen to enhance functional movement. Music is shown to jumpstart the brain's neuroplasticity, reorganizing neural pathways to help patients regain motor function that had been lost to brain injury or disease.

Fitting the music to the patient synchronizes gait for entrainment. Walking can be aligned with rhythmic auditory cueing to improve temporal (step speed), special gait (step length) and left/right stride deviations (step symmetry). The qualitative component of what is done musically is quantified and documented by the system's computer. The pretest, comparison to normative data, and posttest results are presented objectively.



An Exercise Summary Report shows need, progress and outcome of therapy.

Clinical Application

Biodex provides a manual, rehabilitative performance plan, and other clinical application tools to help you understand which compositions are best suited to various clinical categories, for example:

Neurologic Diagnosis:

- Extreme gait impairment
- Moderate to severe gait impairment coupled with cognitive impairment

Orthopedic Diagnosis:

- No cognitive impairment

The Music-Assisted Therapy Package offered for the Biodex Gait Trainer 3 is accessed via USB flash drive that activates the music player software. A library of neurologic music compositions, as well as various metronome beats and tones are provided. For those clinics fortunate to collaborate with a music therapist, the Gait Trainer 3 also accommodates custom recordings.



Sound Bar shown beneath the Gait Trainer 3 display.

APPLICATIONS

Music-Assisted Therapy can be used in rehabilitation and medical settings to improve functional movement, treating such conditions as:

- Parkinson's Disease**
- Multiple Sclerosis**
- Cerebral Palsy**
- Stroke**
- Traumatic Brain Injury**
- Orthopedic Dysfunction**

The right music, the correct beats per minute (bpm) and gait repetition help enhance neuroplasticity and get patients better, faster. Documented.



The Gait Trainer 3 provides real-time biofeedback and quantifiably displays step length, step speed (spm) and step symmetry.

950-413 Music-Assisted Therapy Package
Compatible with Gait Trainer 3
featuring Windows OS.
Includes music library and sound bar
with input for headphones and microphone.

BIODEX

Music Library – recorded among top performers

The Music-Assisted Therapy Package contains a library of recordings produced at historic and internationally renowned studios, known for high commitment to sound integrity and technological excellence. Locations include Premier Studios, New York City, NY, where industry artists such as Madonna have recorded, and Bismieux Studio, Austin, TX, which has seen the likes of Ray Benson and Asleep at the Wheel, Willie Nelson, George Strait and many others.

Silvery Moon Medley® is a music therapy arrangement that has a clear, complementary playback structure for walking patterns. Available in tempo ranges from 90-140 bpm. *Original arrangement from The Center for Music Therapy, Inc.*

Street Walking® is an original music therapy-informed composition provided at two different tempos between 60- and 140 bpm, each with a different arrangement, and geared toward specific movement needs. The composition provides a clear, complementary playback structure for walking patterns that are well below normal gait ranges. *Composed by The Center for Music Therapy, Inc.*

Animals Everywhere® is an original music therapy-informed composition provided at five different tempos between 45- and 130 bpm, each with a different arrangement and geared toward initiation and continuation of gait at extremely impaired levels of spm or bpm. *Composed by The Center for Music Therapy, Inc.*

These songs are in 4/4 time signature, with distinct, consistent down beat, without the confusion of non-complementary instrumentation for gait training. Street Walking® and Animals Everywhere® were recorded in DXD format as is used in SACD, (Super Audio CD) for Full Analog Bandwidth.

Studies show listening to music you love releases more dopamine. Once the kinematics of gait are re-established using neurologic music, patients can switch to their preferred music genre at the right tempo.

Also available in Music Library:

Non-neurologic compositions of various genres and bpm

Wide range of metronome tempos and sounds



www.biodex.com/musictherapy

BIODEX

Biodex Medical Systems, Inc.

20 Ramsey Road, Shirley, New York, 11967-4704, Tel: 800-224-6339 (Int'l 631-924-9000), Fax: 631-924-9241, Email: info@biodex.com, www.biodex.com

