

Effect of Rehabilitation on Strength Ratio on Ankle Muscles in Adult

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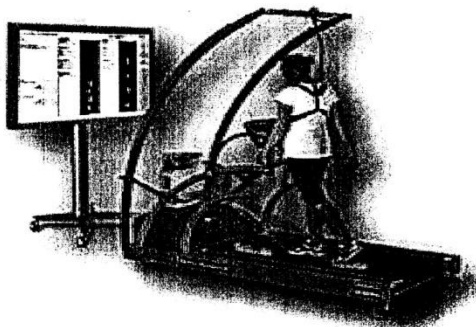
Type of Participation: Search Study.

The following benefits were acquired:

•At personal level

- Communication with research from different scientific background.
- Improved personal and presentation skills
- Increase scope of research
- Enrich my scientific knowledge
- increase my self-confidence in my research ideas and work.
- update scientific knowledge about advanced instrumentation in assessment and rehabilitation.

Instrumented h/p/cosmos treadmill – through the zebris medical pressure distribution platform



integrated instrumented pressure platform within the treadmill - detailed analysis of all gait parameters compatible with Simi Motion video analysis -visual stimulation for gait training – visual clues for patients projected onto treadmill, for example footsteps, blocks, dots, etc.

virtual training for improvement of cognitive skills and balance

THERA- Trainer balo

It is a dynamic standing and balancing trainer. Feet, legs and pelvis can be secured together or individually in almost any position depending on the exercise goal. The THERA-Trainer balo can also be adjusted to suit the needs of severely and critically affected patients (including those in a vegetative state).



•At faculty level

-Broaden scope of research through communication with researcher from different countries.

-Allocate faculty of physical therapy, Cairo University research level between several countries seeking improvement.

-Put faculty on the map of scientific research.

The following workshops were presented in:

First day 29/5/2016

Clinical Gait analysis

Assessment of swallowing problems

Musculoskeletal ultrasound (upper and lower limbs)

Non-invasive brain stimulation

Extracorporeal shock wave therapy in musculoskeletal disorders

The following items were discussed in the conference sessions:

• **Second day 30/5/2016**

• **stroke**

-stroke rehabilitation role in cortical reorganization

- Knee hyperextension orthosis on lower extremity motor functions in individuals with stroke: a randomized controlled trial

• **Pain**

-Complex regional pain syndrome : an update

-Randomized controlled trial of cervical nerve root pulsed radiofrequency via posterior approach for the cervical radioculopathy.

• **Musculoskeletal condition**

-Physical activity in osteoporosis rehabilitation.

-Rheumatoid Hand Rehab steps.

• **Physical and rehabilitation medicine intervention**

-Ultrasound therapy versus extracorporeal shock wave therapy in treatment of plantar fascitis.

PRM intervention

Correlation of sonographic longitudinal-sagittal technique and transverse-axial technique of articular cartilage measurement in patients with knee osteoarthritis.

Third day 31/5/2016

Traumatic brain injuries

- The relationship between iq and cerebral metabolic rate of oxygen for traumatic brain injury with higher brain dysfunction
- Self-awareness of neuropsychological functioning at five years following traumatic brain injury
- The applicability of errorless learning strategy in neurological rehabilitation: a systematic review of clinical trials

Back pain and spin disorders

- Evidence based physical and rehabilitation medicine: conservative approach to adolescents with idiopathic scoliosis
- Role of gravity reduction therapy in management of prolapsed lumbar inter-vertebral disc
- Effectiveness of a research designed cost-effective lumbar brace as an adjunct in the treatment to patients with non-neurological low back pain

Geriatric

- Music therapy for geriatric rehabilitation
- Characteristics of falls in patients with hip fragility fractures in Italy: the physiatric approach to osteoporosis 2 survey
- Are dietary supplements effective for musculoskeletal and cognitive functions in older people? a scoping review

- Computer-assisted cryotherapy in rehabilitation after total knee arthroplasty.
- Hypovitaminosis in patients with radial fractures
- Lower limb muscle reflex contraction latency, peak force and movement control in children with developmental coordination disorder.
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- The cost and use of rehabilitation in patients with hemophilia a in taiwan: a nationwide population-based study
- Meeting global needs for cancer rehabilitation
- pesanserinus tendinitis/bursitis after total knee arthroplasty: mesotherapy treatment - our experience
- Performance of women with fibromyalgia in walking-up stairs while carrying a load
- The effectiveness of transforaminal epidural steroid injection in patients with radicular low back pain: combining the results with predictive value of pain provocation

Fifth day 2/6/2016

- ICF vocational rehabilitation core sets in SCI
- Practical considerations when selecting rehabilitation outcome measures
- Therapeutic applications of noninvasive brain stimulation in clinical neurorehabilitation
- Effects of low- and high-frequency repetitive magnetic stimulation on neuronal cell proliferation and growth factor expression: a preliminary report
- Clinical trial of baclofen and electrical stimulation in management of spasticity
- Disorders of attention, including neglect
- Disorders of consciousness in disaster rehabilitation
- New development in dysphagia management
- Does respiratory phase influence the anatomy of the pharynx and larynx?
Analysis using 3d dynamic computed tomography
- Assessment of swallowing using high-resolution manometry.