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Physiotherapy
&
Physical Rehabilitation**

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AGENDA

Title: GMFM-88/GMFM-66 Administration Overview

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Alzاهر

King Fahad Military Medical
Complex, Saudi Arabia

Gross Motor Function Measure (GMFM) is a clinical measure to evaluate changes in the gross motor function in children with cerebral palsy (CP). There are two versions of GMFM: GMFM-88 and GMFM-66. Items on GMFM-88 span aspects of what World Health Organization International Classification of Functioning, [Disability and Health](#) refers to as gross motor activity ranging from activities such as lying and rolling to walking, running and jumping skills. GMFM-66 consists of a subset of 88-items.

Title: Genes dominating Sports: Analysis and Interpretation

Abhishek Deo

Dr Deo's Sports Science
Academy, India

There are many sportsmen who work hard in their respective sport. But only few in thousands succeed. Science behind this is often not understood. In the year 2019 tests which test the genes are available in the medical market. Once the precise genetic makeup is understood the [Sports performance](#) planning should be done accordingly which is mostly ignored and problems such as recurring injuries, lack of sports performance resulting in a performance plateau etc. are bound to happen then.

Title: Yoga specific therapy on fibromyalgia

Turkan Ozturk

Avrupa Meslek Yuksek
Okulu Physiotherapy
Turkey

Fibromyalgia is a disorder characterized by widespread musculoskeletal pain accompanied by fatigue, sleep, memory and mood issues. Research show that [fibromyalgia amplifies](#) painful sensations by affecting the way your brain processes pain signals. It's not easy to spot fibromyalgia. This is one disease that doesn't have many visible signs. Most symptoms of fibromyalgia, includes pain, muscle tenderness, and fatigue.

SPEAKER SLOTS AVAILABLE

Title: Microgravity environments: the physical exercise in the space

Dario Furnari

Specialized in Biomedical Sciences and neurosciences, Space Human Physiology, UK

The force of gravity on the earth produces an acceleration of 1 g (g is the symbol that indicates the acceleration due to gravity). The term [microgravity](#) indicates a reduced force of gravity and is therefore used to describe conditions in which the force of gravity is less than that on the earth's surface (less than one g). For example, the gravity force of the moon is only 17% of that of the earth, or 0.17g. The term microgravity is often used to describe conditions in space, because the body may not always be in conditions of weightlessness, ie at 0 g.

Title: The efficacy of balance training in a Churg-Strauss Syndrome patient: a case report

Giorgio Pistone

SPT Cardinal Massaia Hospital, Asti, Italy

Churg-Strauss Syndrome, well known as Eosinophilia Granulomatosis with Polyangiitis (EGPA), is a rare small-vessels vasculitis associated with asthma, blood and tissue eosinophilia. Peripheral 12 neuropathy is reported in more than 50% of cases of EGPA and it is often found related to motor and functional recovery issues. Evidence suggests that [exercise programs](#) can effectively improve gait and balance in unselected fall risk populations and reduce falls and fall-related injuries.

Title: Cupping therapy versus interferential cupping therapy on mechanical low back pain

Ahmed Assem Abd El Rahim

Deraya University New minya, Egypt

Mechanical low back pain is one of the most common medical problems and causes a significant amount of [disability and incapacity](#) in different countries. Purpose: The purpose of this study was to investigate the effect of shock wave therapy with mechanical traction on mechanical low back pain. Subjects: Sixty mechanical low back pain patients aged from 20-35years of both sexes, randomly divided into three groups, selected from Sohag University [Neurosurgery](#) Hospital.

SPEAKER SLOTS AVAILABLE

Title: Prevalence of undernutrition among primary level children of Red Laterite Zone areas of Bankura District, India

Bappa Mullick

Sr. Director of Youth Welfare, Jadavpur University, India

A cross-sectional study was undertaken to determine the nutritional status of primary level children of Chhatna, Bankura District, West Bengal, India (a red laterite zone area, with poor soil fertility) based on their body mass index (BMI), weight for age, and height for age. A total of 285 children (5 < age < 10 years) from two villages (Dalpur and Ghosergram, approximately 260 km from Kolkata) were studied.

Title: Effect of Temperature Control Liner Materials on Long Term Outcomes of Prosthesis Use

Robert Johnston

Widener University One University Place, USA

In some cases; diabetes, cancer, and trauma-related accidents - commonly associated with Veterans – can lead to limb loss and an indication for a [prosthetic limb](#). The materials utilized in the making of [prosthesis affect](#) the comfort and fit of the individual. Commercially available phase change material (PCM) prosthetic liners are designed to absorb heat that radiates off an amputee's residual limb.

Title: Effect of arm sling on postural stability in stroke patients

Mohammed Fadda

Cairo university school of physiotherapy, Egypt

This study was designed to determine the effect of arm sling on [postural stability](#) in stroke patients. Patients and Method: This study was conducted on forty-five patients of both sexes (30 males and 15 females) with hemi paretic stroke (in the domain of carotid system). Their ages ranged from 45-60 years, the duration of stroke ranged from 6 to 18 months. They were assigned into one group (study group). All patients were assessed on biodex balance device.

SPEAKER SLOTS AVAILABLE

Title: Do Physical Therapy Interventions Improve Urinary Incontinence and Quality of Life in patient with Multiple Sclerosis: A systematic Literature Review

Najwa Alfarra

King Faisal Specialist
hospital, Saudi Arabia

Urinary incontinence is a common symptom observed in modern times, which may affect 7-37% of women aged 20-39 and 9-39% after the age of 60. Pregnancy and natural delivery are important risk factors increasing the likelihood of incontinence. Conservative intervention such as pelvic floor muscle training (PFMT) is superior in preventing and treating urinary incontinence. To three to 12 months, and up to 6-8 years after child birth.

Title: Immediate effect of dynamic and ballistic stretch as a warm up routines on the muscular performance among the normal subjects

**Hussam Mohammed
Alsaleh**

Prince Sultan Military Medical
City Riyadh, Saudi Arabia

To determine the acute effect of dynamic stretching on vertical jump height and also to determine the acute effect of ballistic stretching on vertical jump height. Thirty normal subjects ranged in age from fifteen to twenty years were participated in this study. The study group A (10) and B (10) received Dynamic stretch, Ballistic stretching for 15rep for 3set for muscle group of plantar flexors, hip extensors and knee extensor of both leg. Group C (10) is control group receives only warm up exercise.

Title: Provision of Rehabilitation following Lower Limb Orthoplastic Reconstruction and Lower Limb Trauma

Olivia Helston

The University of
Manchester Supervisor

Physiotherapy services are the foundation of rehabilitation services within the NHS, however more needs to be done to see if the current level of therapy is sufficient at ensuring as best a recovery as possible. This study set out to analyse the provision of physical therapy to a cohort of 29 patients at a single Centre. Data was collected prospectively through direct observation of physiotherapy sessions by an independent observer, and retrospectively using the electronic patient record service (EPR).

SPEAKER SLOTS AVAILABLE

Title: Effectiveness of forearm, wrist and hand muscles strengthening on the writing speed in college students

Dr. Swati

Assistant Professor
Lovely Professional University,
India

Handwriting is a complex activity and hence requires blending of various components such as cognitive, kinaesthetic, perceptual and motor components. If any of these components is missing then writing is affected. Handwriting is influenced by factors such as anatomy of extremity, general health, writing surface. Also not all age group can write with same speed, hence it is an age variant factor. To find the effectiveness of forearm, wrist & hand muscles strengthening in improving the handwriting speed of the students. The agenda was to teach the students safe and easy exercises in order to increase their overall forearm, wrist and hand strength.

Title: Physical activity prescription in healthcare: a comparative analysis of the influences of physicians and nurses on care quality

Nestor Asiamah

Africa Center for Epidemiology,
Accra, Ghana

There is a growing interest in [physical activity](#) (PA) prescription in healthcare among public health stakeholders. On the contrary, some are of the view that PA prescription in healthcare will rather waste time and scarce resources available for healthcare. The reality in many countries is that nurses and physicians, as peripheral healthcare personnel, are impelled to provide PA counseling in healthcare.

Title: Crude Oil Degradation Potential of Parent and X-Ray Treated Isolates from Automobile Spent-Oil Polluted Soils in Abraka, Nigeria

Pioger Isabelle

Assistant Professor

Hemiplegia is a pathology with a high prevalence in range (1 per 1000 inhabitants), the main cause of which is cerebrovascular accident (CVA). Among the implications encountered, shoulder pain affects 35 to 70% of patients. This alters the patient's quality of life by slowing down their participation in re-education sessions and slowing down their recovery in autonomy. Our experience of analgesic management in [mass-physiotherapy](#) (massage, mobilization, electrotherapy,) suggests that the passive mobilization of the scapula-thoracic seems the most interesting to develop.

SPEAKER SLOTS AVAILABLE

Title: Home care physiotherapy of hypoxic acquired brain injury - case report

Yasar Arafath

Assistant Professor

The Purpose of This Case Report is to describe The Home Care [Pediatric Physiotherapy](#) for a 5 year old Hypoxic Acquired Brain Injured Child. This Case involved a 5 years old child with Hypoxic Acquired Brain Injury was undertaken for [Physiotherapy](#) at Home for 8 weeks post medical management in hospital. The Therapy intervention was implemented to improve the arousal & to regain the gross motor functional activities through neuro developmental techniques, Task oriented positional release technique for the elongation of trunk & limb muscles, Static & Dynamic Balance training, Gait training were given vice versa.

Title: Electromyography of Scalene and Rectus Abdominis during the respiratory cycle in healthy subjects

Rola Tout

Saint Joseph University, USA

Expose the [electromyography](#) and spirometer relationship and establish the chronology of the contraction of Scalene and Rectus abdominals which works together in synergy antagonism in [physiological breathing](#). 128 electromyography tests were performed during the respiratory cycle on 43 healthy adults. EMG signals of Scalene, Rectus abdominal were recorded. The breathing was recorded by using a spirometer (vernier®).

Title: Identification of pathogenic Gram-negative bacteria by biosensors

**Jihan Amr Hussein
El Sokkary**

Physiotherapist
physical therapy clinic -
Motions Venture Physiotherapy

Non- compliance with prescribed treatment is an important cause of delay of recovery of patients. Researchers have reported that fear avoidance has been a known reason for non-compliance with patients with chronic pain. This behavior can be a challenge for [therapist](#) for there is no one way to deal with this. However, the selection of which technique to implement for a particular patient should be guided by information gathered about the particular patient and the possible reason(s) for the non-compliance.

SPEAKER SLOTS AVAILABLE

Title: Comparative effect of Evidence-based physiotherapy and corticosteroid injection o pain, disability and quality of life in patients with subacromial pain syndrome

Maryam Daghani

Mashhad University of Medical
Science, Iran

Considering the prevalence of Sub acromial pain syndrome (SAPS), the aim of this study was to investigate comparing effect of [evidence-based physiotherapy](#), and sub acromial corticosteroid injection (SCI) on patients with SAPS. 47 Patients with sign of SAPS participated in this 2×4 (group×times) randomized controlled trial. Patients were randomly assigned in 2 groups labeled as evidence-based physiotherapy (n=22) and corticosteroid injection group (SCI) (n=25).

Title: Comparison of short term effect of aerobic and resistance training exercises on blood glucose levels of type 2 dm patients

W.A.M.

Wickramarachchi

University of Kelaniya, Sri Lanka

Aerobic and resistance training exercises are recommended in the management of type 2 diabetes mellitus (DM) patients to reduce blood glucose levels, and improve health related quality of life. This study was designed to compare the short term effects of aerobic and resistance [training exercises](#) on blood glucose (BG) values of type 2 DM patients. This is a prospective cross over study, conducted in the District General Hospital, Matale, Sri Lanka.

Title: Effective Use of Semantic Web based techniques to Improve Quality of Health Care

**Chandresh Kumar
Chhatlani**

JRN Rajasthan Vidyapeeth
University, India

Health Care Industry including alternate therapies like Ayurvedic, [Homoeopathic and Physiotherapy](#) are always need to be improved quality of its products and services. It is one of the major goals of the Health Care industry. ICT can encompass a range of services, process, methods and systems that are at the edge of medicine/healthcare and information technology, these includes, Electronic health records, Computerized Physician Order Entry, ePrescribing

SPEAKER SLOTS AVAILABLE

Title: Effectiveness of the conventional therapy on reactive postural control, sensory orientation and dynamic balance by using the mini bestest in patients with chronic stroke

Chaitali Shah

Associate Professor, Parul
Institute of Physiotherapy,
Parul University

Accurate assessment of postural control and dynamic balance is important for documenting the outcome of [rehabilitation programs](#). Critical evaluation of the effects of these intervention strategies requires measures that have good [clinometric properties](#). Therefore purpose of the study is to find the assessment which can be incorporated as a part of regular assessment and having good responsiveness by which therapist can Plan their treatment protocol effectively and measure the recovery of Intervention

Title: Effectiveness of intermittent compression therapy along with virtual reality exercises to reduce upper limb lymphedema in breast

**Khushboo S.
Vachhani**

Assistant Professor at RK
university, India

[Lymphedema](#) is a serious after effect and a concern issue in patients with breast cancer. Since it is caused due to removal of regional [lymph nodes](#) and lack of lymphatic flow. It is believed that muscle activity helps to reduce oedema to a greater extent. This study was designed to evaluate the effectiveness of compression therapy and exercise through virtual reality in the treatment of lymphedema in [breast cancer](#) patients.

SPEAKER SLOTS AVAILABLE