**Mohammd Etoom, PT, PhD**

**Date of birth: 3-4-1990   
Nationality: Jordanian  
Marital status: Married   
Address: Tabrbour, Amman, Jordan   
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***Education*PhD in ‘’ Advance sciences and technologies in medical rehabilitation and sport’’, Tor Vergata University, Rome-Italy. 2013-2017 (Excellent with loude)**

**Accurate specialization:** Physiotherapy for nervous system

**Title of thesis:** Evidence-based practice for physiotherapy interventions targeting rehabilitation the central nervous system disorders

**BSc. in physical therapy (Average of 3.1 out 4, Very Good), The Hashemite University, Zarqa-Jordan. 2008-2012**

***PROFESSIONAL EXPERIENCE  
A- Jordan University of Science and technology (10/2023- Now)*:**

***Graduate Courses:***-Advanced Neurosciences ***Undergraduate courses:***- Neurosciences - Musculoskeletal Assessment  
- Musculoskeletal Anatomy - Graduation Project ***Master thesis student supervision:***1- Attitude and beliefs toward non-specific neck pain among physiotherapists in Jordan. [Student name: Elham Bani Bakar].

2- Assessment of Pain in Parkinson’s Disease, linking to the international classification of function. [Student name: Toqa Elmastrehy].  
3- Fatigue in stroke: Influential and risk factors. [Student name: Lojain abuqaoud].

***B- Aqaba University of Technology (10/2020- 10/2023):***

***- Acting Dean of the faculty of Allied Medical Sciences* 7/2023-10/2023**

***- Head of Physical Therapy department,* 10/2022-10/2023**

***- Founding Head of allied medical sciences department 10/2020-10/2022***

**In this Current position, I had both academic and management responsibilities. We are working in new department and faculty that required a strong establishment and organization. Courses description, Programs learning outcomes, study plans, academic advising, and advisory plans are examples of the works that we did. I manage a team composite of expertise and early-career academic staff. Furthermore, I was a member in quality assurance council, University Council, and Jordanian Framework for qualification. In 9/2023, I have been promoted to associated professor using fast-tract system.   
  
The Courses that I have coordinated and teach were as follow:   
- Introduction to Physical Therapy - Biostatistics   
- Biomechanics and Kinesiology (Theory, and experimental)  
- NeuroAnatomy - Neuromuscular development  
- Physical Therapy for Neurological disorders (Theory, and experimental)**

**- Physical Therapy in Geriatric**

***C-* Al-Isra University, Amman-Jordan, Physical Therapy Department (*10/2017-10/2020):*  
Three years of academic, research, management, and quality assurance work. I have worked in new established department.**

**In the first, we have done all the required documents, and facilities to start education in both theory and practice according to Higher Education Accreditation Commission (HEAC), quality assurance committees’ guidelines, and world confederation of Physical Therapy (WCPT). 12 students graduated in the first group, 41% of them were qualified according to the national exam of quality by AQACHEI. This percentage was around the national score in all university Jordanian that reflected a good reputation of physical therapy department in Al-isra University.**

**In addition to the academic, I have published a set of articles in Peer-reviewed journals. Regarding quality** **assurance, I was head, or coordinator of committees regarding the quality assurance and accreditation in education. Finally, we have established 2 new programs:** "**Technology of Radiation Imaging", and "Anesthesiology and Resuscitation".  
  
The Courses that I have coordinated and teach were as follow:**

**- Neurosciences (Theory, and experimental)  
- Physical Therapy for Neurological disorders (Theory, and experimental)  
- Introduction to Physical Therapy - Neuromuscular development  
- Electro therapy (Theory, and experimental) - Research Methodology   
- Biomechanics and Kinesiology (Theory, and experimental)  
- NeuroAnatomy - Musculoskeletal Anatomy   
- Graduation Project**

***D- Physiotherapist, Medical Researcher,* IRCCS Neuromed- Mediterranean Neurological Institute, Pozzilli- Italy (*4/2016-11/2016):*** - Physiotherapy for Parkinson's Disease patients  
 - Postural Disorders Rehabilitation  
- Pisa Syndrome Pathophysiology and Management

***E- Physiotherapist, Medical Researcher* Policlinco di Università Tor Vergat, Rome-Italy (*4/2014-4/2016):*** - Physiotherapy for Patients with Multiple Sclerosis.  
 - Fatigue and Spasticity Rehabilitation  
 - Disability Management

***F- Physiotherapist,* Abdoun Physiohealth Centre, Amman – Jordan (*7/2012-3/2014)***

***RESEARCH INTERESTS*  
Neurorehabilitation, Meta-analysis, Physiotherapy Education**

***PEER REVIEWED PUBLICATIONS***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Title** | **Year** | **Journal** | **Volume, (Issue)** | **Pages** |
| **Exploring the Links between Physical Activity, Emotional Regulation, and Mental Well-Being in Jordanian University Students** | **2024** | **Journal of Clinical medicine** | **13 (6)** | **1533** |
| **The Efficacy of Muscle Energy and Mulligan Mobilization Techniques for the Upper Extremities and Posture after Breast Cancer Surgery with Axillary Dissection: A Randomized Controlled Trial** | **2024** | **Journal of Clinical medicine** | **13 (4)** | **980** |
| **prevalence of attention-deficit hyperactivity disorder in children, adolescents and adults in the Middle East and North Africa region: a systematic review and meta-analysis** | **2024** | **BMJ open** | **14 (1)** | **e078849** |
| **Relationship between Sleep Quality and Shoulder Disorders in People with Stroke** | **2023** | **Medicina** | **59(11)** | **2010** |
| **The effectiveness of home-based therapeutic exercises on adults with fibromyalgia: a systematic review and meta-analysis** | **2023** | **International Journal of Rehabilitation Research** | **46(4)** | **359–368** |
| **Exploring Communication Practices in Italian Physiotherapy: Knowledge and Use of Effective Communication Strategies—A National Descriptive Study** | **2023** | **Healthcare** | **11 (16)** | **2247** |
| **Axial postural abnormalities and pain in Parkinson’s disease** | **2023** | **Journal of Neural Transmission** | **130 (1)** | **77–85** |
| **Ataxia Rating Scales: Content Analysis by Linking to the International Classification of Functioning, Disability and Health** | **2022** | **Healthcare** | **10 (12)** | **2459** |
| **Home-Based Exercise to Improve Motor Functions, Cognitive Functions, and Quality of Life in People with Huntington’s Disease: A Systematic Review and Meta-Analysis** | **2022** | **Int. J. Environ. Res. Public Health** | **19 (22)** | **14915** |
| **Single textured insole for the less affected leg in freezing of gait: A Hypothesis** | **2022** | **Frontiers in Neurology** | **13** | **892492** |
| **Effects of Transcranial Direct Current Stimulation on Sleep in Athletes: A Protocol of a Randomized Controlled Trial** | **2022** | **Journal of Clinical Medicine** | **11 (19)** | **5883** |
| **Vagus Nerve Stimulation for the treatment of Epilepsy; Things to Note on the protocols, the effects and the mechanisms of Action** | **2022** | **International Journal of Neuroscience** | **Ahead of Print** | |
| **Rehabilitation interventions for improving balance in Parkinson’s disease: a narrative review** | **2022** | **American Journal of Physical Medicine and Rehabilitation** | **102(3)** | **270-274** |
| **Evidence- based physiotherapy practice in Jordan: Evaluation and identification of implementation factors** | **2022** | **Physiotherapy theory and Practice** | **39 (12)** | **2723-2739** |
| **Distance learning in physiotherapy education during the COVID-19 pandemic: students’ satisfaction, perceived quality, and potential predictors of satisfaction** | **2022** | **Physiotherapy theory and Practice** | **39 (7)** | **1513-1518** |
| **Determination of Hand Grip Strength and its Correlates during Pregnancy: A Cross-sectional Study** | **2021** | **BMC pregnancy childbirth** | **21(1),** | **540** |
| **Outcomes in transcranial direct current stimulation studies among people with Parkinson's disease** | **2021** | **Parkinsonism & Related Disorders** | **79** | **E124-E125** |
| **Osteoporotic fracture and conservative management in Parkinson’s disease and Pisa syndrome: case report.** | **2021** | **Journal of Bodywork and Movement Therapies** | **25** | **170-173** |
| **Therapeutic interventions for Pisa Syndrome in idiopathic Parkinson’s disease. A Scoping Systematic Review** | **2020** | **Clinical Neurology and Neurosurgery** | **198, (18)** | **106242** |
| Is transcranial direct current stimulation (tDCS) effective for chronic low back pain? A systematic review and meta-analysis | **2020** | **Journal of neural transmission** | **127, (9)** | **1257-70** |
| **Issues for conducting meta-analyses in COVID-19. Commentary on “Prevalence and severity of corona virus disease 2019 (COVID-19): A systematic review and meta-analysis’’** | **2020** | **Journal of clinical virology** | **128, (4)** | **104389** |
| **Effectiveness of robot-assisted gait training on freezing of gait in people with Parkinson disease: Evidence from a literature review** | **2019** | **Journal of Exercise Rehabilitation** | **15,(2)** | **187-192** |
| **The effects of whole-body vibration energy on bone mineral density in post-menopausal women: A systematic review** | **2019** | **Fizjoterapia Polska** | **19, (1)** | **46-50** |
| **Effectiveness of robot-assisted gait training on motor impairments in people with Parkinson's disease: A systematic review and meta-analysis** | **2018** | **International Journal of Rehabilitation Research** | **41, (4)** | **287-296** |
| **Effectiveness of Physiotherapy Interventions on Spasticity in People with Multiple Sclerosis: A Systematic Review and Meta-Analysis** | **2018** | **American Journal of Physical Medicine and Rehabilitation** | **97, (11)** | **793-807** |
| **Letter: Quality of Life After Motor Cortex Stimulation: Clinical Results and Systematic Review of the Literature** | **2018** | **Neurosurgery** | **83, (3)** | **E131** |
| **Neuromuscular Electrical Stimulation for Lower Limb in Chronic Stroke** | **2018** | **Archives of Physical Medicine and Rehabilitation** | **99,(8)** | **1689-1690** |
| **Comments on: Influence of transcutaneous electrical nerve stimulation on spasticity, balance, and walking speed in stroke patients: A systematic review and meta-analysis** | **2018** | **Journal of Rehabilitation Medicine** | **50, (1)** | **94** |
| **4th year physical therapy students satisfaction in Jordanian universities: A survey study** | **2018** | **Fizjoterapia Polska** | **18, (4)** | **34-37** |
| **Transcutaneous Electrical Nerve Stimulation for Spasticity** | **2017** | **American Journal of Physical Medicine and Rehabilitation** | **96, (11)** | **e198** |
| **Effects of postural exercises in patients with Parkinson's disease and Pisa syndrome: A pilot study** | **2017** | **NeuroRehabilitation** | **41, (2)** | **423-428** |
| **Constraint-induced movement therapy as a rehabilitation intervention for upper extremity in stroke patients: Systematic review and meta-analysis** | **2016** | **International Journal of Rehabilitation Research** | **39, (3)** | **197-210** |

#### **Conferences:**

#### 1. Etoom M. Ground Reaction Force Analysis in Parkinson’s Disease and Freezing of Gait. A secondary analysis of a gait-analysis data set. XXIX World congress on Parkinson’s disease and related disorders. 19-22 May 2024. Lisbon, Portugal 2. Etoom M. OUTCOMES IN TRANSCRANIAL DIRECT CURRENT STIMULATION STUDIES AMONG PEOPLE WITH PARKINSON'S DISEASE. XXV World congress on Parkinson’s disease and related disorders.7-10 June 2020. Prauge- Czech Republic.

#### 3. Etoom M. THERAPEUTIC INTERVENTIONS FOR LATERAL AXIAL DYSTONIA (PISA SYNDROME) IN IDIOPATHIC PARKINSON'S DISEASE. ISPRM World Congress and Annual Meeting of the Association of Academic Physiatrists Orlando, Florida March 4–9, 2020.

4- Etoom M. Effectiveness of exercises on spasticity in People with multiple sclerosis. A meta-analysis. 12th International Society of Physical and Rehabilitation Medicine (ISPRM) World Congress. Paris, France | July 8-12, 2018.

5- Etoom M. Effects of spasticity on posture and gaits in multiple sclerosis. The 7th Jordanian and 10th Arabic congress in rehabilitation medicine, ‘’ New Horizons in Rehabilitation Medicine’’. Amman-Jordan,11-13/10/2017

6- Etoom M., Lena F. Effects of Postural Exercises in Patients with Parkinson's Disease and Pisa syndrome. 6TH Biennial Workshop on Dystonia: ‘’ Dystonia: The link between hypo-and hyperkinetic movement disorder?’’. Rome-Italy, 12,13/5/2017.

***Current Funded Projects:***1- Effect of Transcranial Direct Current Stimulation on Sleep Quality in Athletes  
Funder: University of Jordan

***Postgraduate Supervision***

1- External Examiner for master thesis defense, University of Jordan, 10/5/2021. Title: The relationship between the quality of sleep and shoulder disorders in people with stroke. Supervisor: Prof, Alia Alghwiri  
  
2- External Examiner for master thesis defense, University of Jordan, 25/8/2021. Title: The effect of Frenkel Exercises combined with weight on balance in people with Multiple Sclerosis: a Randomized controlled trial. Supervisor: Dr. Mayis Aldughmi  
  
3- External Examiner for master thesis defense, University of Jordan, 26/12/2021  
Title: The relationship between the fatigue and cognitive impairments in people with diabetes mellitus. Supervisor: Prof, Alia Alghwiri  
  
4- External Examiner for master thesis defense, University of Jordan, 29/5/2022  
Title: Mental Health and its correlated among athletes with long COVID.   
Supervisor: Prof, Alia Alghwiri  
  
5- External Examiner for master thesis defense, University of Jordan, 21/12/2022  
Title: EXAMINING SPORT-RELATED CONCUSSION KNOWLEDGE AND COMMUNICATION BEHAVIORS AMONG COACHES IN JORDAN  
Supervisor: Prof, Alia Alghwiri  
  
6- External Examiner for master thesis defense, Jordan University of Science and Technology,024/1/2023. Title: THE EFFECT OF HOME-BASED THERAPEUTIC EXERCISES ON ADULT PEOPLE WITH FIBROMYALGIA: A SYSTEMATIC REVIEW AND META-ANALYSIS. Supervisors: Dr. Mohammad Yabroudi, Dr. Mohammad Alwardat  
  
7- External Examiner for master thesis defense, University of Jordan, 23/5/2023. Title: SLEEP AND ITS CORRELATES AMONG ATHLETES. Supervisor: Prof, Alia Alghwiri

8- External Examiner for master thesis defense, University of Jordan, 16/8/2023. Title: Barriers to physiotherapy evidence-based practice implementation in Jordan: A qualitative study. Supervisors: Dr. Mayis Aldughmi, Prof. Nihad Almasri  
  
9- External Examiner for master thesis defense, Al-ahlya Palestine university, 13/7/2024. Title: The Effect of Preoperative Physiotherapy Interventions on Postoperative Outcomes in ACL Reconstruction Patients in Palestine.

***Citation and indexes:*1- Pubmed:** [**https://www.ncbi.nlm.nih.gov/pubmed/?term=mohammad+etoom**](https://www.ncbi.nlm.nih.gov/pubmed/?term=mohammad+etoom%20) **2- Google Scholar:** [**https://scholar.google.com/scholar?hl=en&as\_sdt=0%2C5&q=etoom+ mohammad&btnG=&oq=moha**](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=etoom+%20mohammad&btnG=&oq=moha%20)

**3. Researchgate:** [**https://www.researchgate.net/profile/Mohammad\_Etoo m?ev=hdr\_xprf**](https://www.researchgate.net/profile/Mohammad_Etoo%20m?ev=hdr_xprf)

**4.ORCID:** [**http://orcid.org/0000-0002-5607-1030**](http://orcid.org/0000-0002-5607-1030)

***PROFESSIONAL AND SCIENFIFIC MEMBERSHIP:***1- Member of International society of Physical Medicine and Rehabilitation (ISPRM).   
2- Member of Jordanian Society of Physical Therapy (JPTS)

3- Member of World federation of Neurorehabilitation (WFNR)  
4- Leader member in ERASMUS + project titled ‘’ Art Therapy’’

5- Contact person and active participant In the educational and research agreement between Al-isra University and University of Rome Tor Vergat  
6- Member of scientific and organizing committees of the first Physical therapy conference at Al-isra University. 25-27/10/2019  
7- Head of media committee in Jordanian Society of Physical Therapy. 6/2019-3/2020

***Continuous education and workshop***

* 10/2024. The Ethics of Teaching and Classroom Management. Jordan University of Science and Technology. Irbid-Jordan. 12 Hours
* 7/2022. Pre-Gait and Gait Interventions to Improve Function in Children With Cerebral Palsy.PhysicalTherapy.com. Online. 1.5 Hours.
* 9/2021. Training of trainers in Interaction Learning Methods in Health Education. Royal Health Awareness Society. Aqaba-Jordan, 24 Hours.
* 6/2021. The Gross Motor Function Measure (GMFM). Jordanian Physiotherapy Society. Amman-Jordan, 8 Hours.
* 6/2021. National framework for qualifications. Accreditation and quality assurance commission for higher education institutions. Amman-Jordan, 32 Hours
* 2/2021. Leadership in Higher Education. Dale Carnegie Jordan. Aqaba University of Technology. Aqaba-Jordan, 16 Hours
* 2/2021. TEDEI - Training in Early Detection for Early Intervention. Newcastle University. Online, 10 Hours
* 3/2020 Introduction to COVID-19 AND the role of physiotherapy, Physiopedia, Online, 12 Hours
* 1/2020 Dynamic Suit Orthosis. Jordan Society of Physical Therapy, Amman-Jordan, 36 hours
* 9/2019 Toward learning based on Quality, Isra University, Amman-Jordan, 27 hours
* 6/2019 Role of PT in victims of torture, Jordan Society of Physical Therapy, Amman-Jordan, 36 hours
* 6/2019 Traumatic brain Injury, Physiopedia, Online courses, 25 hours
* 9/2018 Physiotherapy Management of Spinal Cord Injury International Spinal Cord Society, Online course, 25 Hours
* 11/2016 The posture: Functional evaluation and Therapy Elform e-learning formation and applications, Rome- Italy, 12 hours
* 3/2016 Let’s write a manuscript- Extra Terme di pompeo- Italy, 8 Hours
* 3/2016 Rehabilitation and Sports: ‘’ up to date’’ Terme di pompeo- Italy, 8 Hours
* 11/2015 TECHAR Therapy Elform e-learning formation and applications, Rome- Italy, 12 hours
* 7/2014 Exoskeleton in Medical Rehabilitation University of Rome Tor Vergata, Rome-Italy, 6 Hours
* 5/2014 Vascular Pathologies and Rehabilitation Medicine. AIM Group international, Rome- Italy, 10 Hours
* 1/2012 Postgraduate program (Mechanical diagnosis and therapy) Part A&B The McKENZIE INSTIUTE INTERNATIONAL, Amman-Jordan, 56 Hours

***Workshops I trained:***

**11-18/5/2022** Early detection of atypical motor development in the first 6 months. Aqaba University of Technology, Aqaba-Jordan, 20 Hours  
  
**11/ 2020** Meta-analysis, one day workshop. An activity of the Scientific committee of Faculty of Art and sciences. Aqaba University of Technology, Aqaba-Jordan  
 **1/2020** Meta-analysis, one day workshop. An activity of the Scientific committee of Faculty of allied medical sciences. Isra University, Amman-Jordan

***Editorial / Referee Experience***

1- Guest Associate editor: Frontiers in Rehabilitation sciences

2- Review editor: Frontiers in Neuroergonomics, Journal of Clinical Medicine

3- Reviewer in: BMC Neurology, Clinical Rehabilitation, Journal of body work and movement therapies, European journal of Physiotherapy , International Journal of Therapy and Rehabilitation, Asian Spine Journal, Archives of physical medicine and rehabilitation, BMC musculoskeletal disorders, Brain sciences, Children, Clinical rehabilitation, Complementary Medicine Research, Disability and rehabilitation, Expert review of neurotherapeutics, Frontiers in rehabilitation science, Frontiers in Neurology, Healthcare, Heliyon, International journal of environmental research and public health, International journal of surgery, Journal of clinical medicine, Journal of clinical tuberculosis and other mycobacterial diseases, Journal of personalized medicine, Medicina, Neurological sciences,  PloS one, Scientific reports, Symmetry.

***References:***

**1- Prof. Calogero Foti. Chair of Physical Medicine and Rehabilitation, Tor Vergata University, Rome-Italy. E-mail:** [**foti@med.uniroma2.it**](mailto:foti@med.uniroma2.it)

**2- Prof. Mohammad Sannad Abudarwish. Director of science and scientific research in Arab League Educational, Cultural and Scientific Organization (ALESCO). E-mail:** [**maa973@yahoo.com**](mailto:maa973@yahoo.com)

**3- Prof. Ziad Hawamdeh. Vice President of University of Jordan, Amman- Jordan.   
E-mail:** [**z.hawamdeh@ju.edu.jo**](mailto:z.hawamdeh@ju.edu.jo)

**4- Dr. Salameh aldajah. Dean of the faculty of Allied medical Sciences, Isra University, Amman- Jordan. E-mail**: [salameh.aldajah@aut.edu.jo](mailto:salameh.aldajah@aut.edu.jo)