



Biographical

Name: Professor Alia A. Alghwiri

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Education

- 1) PhD, Rehabilitation Sciences, 2011, University of Pittsburgh, PA, USA.
- 2) MSc, Neurological Physical Therapy, 2008, University of Pittsburgh, PA, USA.
- 3) BSc, Physical Therapy, 2005, University of Jordan, Amman, Jordan.

Title of PhD dissertation:

The Development and Validation of the Vestibular Activities and Participation Measure for People with Vestibular Disorders Based on the International Classification of Functioning, Disability and Health.

Academic Experiences

A) Academic Positions

1. Adjunct Professor, School of Health and Rehabilitation Science, University of Pittsburgh (1/1/2022-Present).

2. Full Professor, Department of Physiotherapy, School of Rehabilitation Sciences, University of Jordan, Amman, Jordan (3/2019-Present).

Responsibilities *Teaching physical therapy courses to undergraduate and graduate levels.*
Conducting research projects related to physical therapy.
Serving the community with physical therapy initiatives.

3. Associate Professor, Department of Physiotherapy, School of Rehabilitation Sciences, University of Jordan, Amman, Jordan (2015-2019).

4. Assistant Professor, Department of Physiotherapy, School of Rehabilitation Sciences, University of Jordan, Amman, Jordan (2011-2015).

5. Research assistant, department of otolaryngology, University of Pittsburgh Medical Center, Pittsburgh, PA USA (2008-2011).

Responsibilities *Conduct physical therapy research projects (collect, enter, and analyze data).*

6. Teaching assistant, department of Physiotherapy, School of Rehabilitation Sciences, University of Jordan, Amman, Jordan (2006-2007).

Responsibilities *Teach physical therapy practical labs.*
Supervise physical therapy students in clinical placements.

7. Peer Reviewer, Journal of Geriatric Physical Therapy, USA (2010-present).

Responsibilities *Review papers related to physical therapy for older adults.*

B) Administrative Positions at University of Jordan

1. Vice Dean for the School of Rehabilitation Sciences, University of Jordan, Amman, Jordan (2018-present).

2. Assistant dean for development and quality assurance, deanship of academic research and quality assurance, University of Jordan, Amman, Jordan (2016-2018).

Responsibilities *Develop and monitor the research process in university of Jordan.
Edit and modify the research law and regulations related to academic research.
Create regulations related to ethics committee and research assistants.
Enhance the process of publishing in the university scientific journals.*

3. **Head of students' support department**, deanship of students affairs, University of Jordan, Amman, Jordan (2015-2016).

Responsibilities *Facilitate educational process for students with disability at the university.
Allocate sign language interpreter for students with hearing disability.
Enhance the university environment for students with physical disability.
Conduct and participate in activities related to disability in Jordan.*

4. **Head of physiotherapy department**, School of Rehabilitation Sciences, University of Jordan, Amman, Jordan (2011-2012).

Responsibilities *Develop a new curriculum for the bachelor degree in physical therapy. Document and archive the department member achievements.*

C) Physical Therapy Administrative Positions

1. **Executive Board Member** at the World Physiotherapy, London, UK (2022-2023).
2. **General Secretary** at the Jordanian Athletic Therapy Association, Amman, Jordan (2020-present).
3. **Medical committee member** at the Jordanian Football Association, Amman, Jordan (2019-present).
4. **Board member** at the Jordanian Sports Medicine Federation, Amman, Jordan (2017-present).
5. **President** of the Jordanian Physiotherapy Society, Amman, Jordan (2017-2020).
6. **Head of Media Committee**, Jordanian Physiotherapy Society, Amman, Jordan (2016-2017).
7. **Head of Scientific Committee**, Jordanian Physiotherapy Society, Amman, Jordan (2011-2012).

D) Teaching Experience

Over 11 years of teaching experience in the field of physical therapy and other rehabilitation sciences for undergraduate and graduate levels.

1. **Theoretical and practical courses:** neuromuscular physiotherapy I, neuromuscular physiotherapy II, physical therapy for gynecology and obstetrics, occupational therapy techniques, principles and ethics of medical rehabilitation, occupational therapy approaches, physical and electrical modalities, principles and ethics of medical rehabilitation, and prosthetics & orthotics.
2. **Clinical training:** clinical neuromuscular physiotherapy I and II.
3. **Master's courses:** current topics in neuromuscular physiotherapy, measuring and analyzing health outcomes, advanced neuromuscular physiotherapy practice, and thesis supervision.

Licensure and Membership

- The World Confederation for Physical Therapy (WCPT) Congress Programme Committee (CPC), (2017-2019).
- The Bárány Society (2017-Present).
- The International Parkinson and Movement Disorder Society (MDS), Europe (2016).
- Association of Physiotherapists in Parkinson's Disease Europe (APPDE), Europe (2016).
- The Jordanian Physiotherapy Society, Amman, Jordan (2011-Present).
- Dr. Alghwiri has worked on several projects in collaboration with the **World Health Organization, Humanity, and Inclusion**, as well as the **Red Cross**.

Clinical Training

- Practical Neurological and vestibular rehabilitation (2011-Present).
- Traumatic Brain Injury clinic, University of Pittsburgh Medical Center, Pittsburgh, PA, USA (2007).
- The Jordan Center of Balance and Hearing Disorder, Pittsburgh, PA, USA (2007).
- Jordan University Hospital, Amman, Jordan (2006).

Publications

A) Research Articles

1. Mohammad Etoom, Kamal N. Aldaher, Abrar AlAbed Abdelhaq, Anoud Alawneh & **Alia A. Alghwiri**. *Predictors of distance learning in physiotherapy students during COVID-19 outbreak*. Physiotherapy Theory and Practice. 2022.
2. Khader A. Almhdawi, Hanan Jaber, **Alia Alghwiri**, Alaa Arabiatc, Alza Alazraia, Hashem Abu Tariahd, Donia Obeidata and Hassan Alrabbaie. *Health-related quality of life and its correlates among individuals with stroke during the COVID-19 pandemic*. Neuropsychological Rehabilitation, 2021.
3. David J. Stevens, **Alia Alghwiri**, Sarah L. Appleton, Jeffrey M. Rogers, Stephanie L. Plummer, Catharina Grant, Kelsey Bickley, Pasquale K. Alvaro, Stephen Kennett, Robert Adams, Louis Holtzhausen. *Should We Lose Sleep Over Sleep Disturbances After Sports-Related Concussion? A Scoping Review of the Literature*. The Journal of Head Trauma Rehabilitation, 2021.
4. Anas R. Alashram, **Alia A. Alghwiri**, Elvira Padua, and Giuseppe Annino. *Efficacy of proprioceptive neuromuscular facilitation on spasticity in patients with stroke: a systematic review*. Physical Therapy Reviews, 2021; 1-9.
5. Erica Beidler, Jessica Wallace, **Alia Alghwiri**, and Siobhan O'Connor. *Collegiate Athletes' Concussion Awareness, Understanding, and Reporting Behaviors in Different Countries with Varying Concussion Publicity*. Journal of Athletic Training, 2020; 56(1): 77-84. **ISI (IF: 2.478)**.
6. Audai A. Hayajneh, Mohammad Rababa, **Alia Alghwiri**, Dina Masha'al. *Factors Influencing the Deterioration from Cognitive Decline of Normal Aging to Dementia among Nursing Home Residents*. BMC Geriatrics, 2020; 20(1).
7. **Alia A. Alghwiri**, Khader Almhdawi, Gregory Marchetti (2020). *Are fatigue scales the same? A content comparison using the International Classification of Functioning, Disability and Health*. Multiple Sclerosis and Related Disorders, 11/2020; 46 (2):102596. **ISI (IF: 3.199)**.
8. Mayis Aldughmi, Alham Al-Shorman, Hanan Khalil, Khalid El-Salem, **Alia A Alghwiri**. *Translation and validation of the Arabic version of the patient determined disease steps in people with multiple sclerosis*. Physiotherapy Theory and Practice: Nov 6, 2020. **ISI (IF: 1.624)**
9. **Alia A. Alghwiri**, Fatima Jamali, Mayis Aldughmi, Hanan Khalil, Alham Al-Shorman, Dana Alhattab, Ali Al-Radaideh, Abdalla Awidi. *The effect of stem cell therapy and comprehensive physical therapy in motor and non-motor symptoms in patients with multiple sclerosis: A comparative study*. Medicine: August 21, 2020; 99(34): e21646 . **ISI (IF: 2.028)**.
10. Hayat Hamzeh, Mohammad Madi, **Alia A. Alghwiri**, Ziad Hawamdeh. *The long term effect of neurodynamics vs exercise therapy on pain and function in people with carpal tunnel syndrome: A randomized parallel-group clinical trial*. Journal of Hand Therapy: Sep 3rd, 2020. **ISI (IF: 1.504)**.
11. **Alia A. Alghwiri**, Fidaa Almomani, Alaa A. Alghwiri, Susan L. Whitney. *Predictors of sleep quality among university students: the use of advanced machine learning techniques*. Sleep and Breathing, July 3rd, 2020. **ISI (IF: 2.134)**.
12. **Alia Alghwiri**, Hanan Khalil, Alham Al-Sharman, Khalid El-Salem. *Psychometric properties of the Arabic Activities-specific Balance Confidence Scale in people with multiple sclerosis: reliability, validity, and minimal detectable change*. NeuroRehabilitation, Feb, 2020; 46(1):119-125. **ISI (IF: 1.779)**.
13. Hanan Khalil, Alham Al-Shorman, **Alia A Alghwiri**, Nour Abdo, Khalid El-Salem, Sarah Al-Shalabi, Aseel Aburub. *Cross Cultural Adaptation and Psychometric evaluation of an Arabic version of the Modified Fatigue Impact Scale in People with Multiple Sclerosis*. Multiple Sclerosis and Related Disorders, 4/1/2020; 39:101878. 2020. **ISI (IF: 3.199)**.
14. Fidaa Almomani, **Alia A Alghwiri**, Ahmad H Alghadir, Amal Al-momani, Amir Iqbal. *Prevalence of upper limb pain and disability and its correlates with demographic and personal factors*. Journal of Pain Research, 2019; 12:2691-2700. **ISI (IF: 2.236) Scopus, SJR=0.84, Q1**.

15. Alham Al-Sharman, Hanan Khalil, Khalid El-Salem, **Alia Alghwiri**, Shada Khazaaleh, Mohammad Kharaim. *Motor performance improvement through virtual reality task is related to fatigue and cognition in people with multiple sclerosis*. *Physiotherapy Research International*, 2019. **Scopus**.
16. Giuseppe Annino, Anas R. Alashram, **Alia A Alghwiri**, Cristian Romagnoli, Giuseppe Messina, Virginia Tancredi, Elvira Padua, Nicola Biagio Mercuri. *Effect of segmental muscle vibration on upper extremity functional ability poststroke: A randomized controlled trial*. *Medicine*, 2019; 98:7(e14444). **ISI (IF: 2.028)**.
17. Hanan Khalil, Alham Al-Sharman, Khalid El-Salem, **Alia Alghwiri**, Duah Al-Shorafat, Shada Kazaaleh, Lamees Abu foul. *The Development and Pilot Evaluation of Virtual Reality Balance Scenarios in People with Multiple Sclerosis (MS); a Feasibility Study*. *NeuroRehabilitation*, 2018; 43:473–482. **ISI (IF: 1.779)**.
18. **Alia A Alghwiri**, Ahmad Alghadir, Hamzeh Awad, Shahnawaz Anwer. *Comparison of diabetes risk estimate in the cities of Riyadh and Amman*. *Medicine*, 2018; 97 (40): e12689. **ISI (IF: 2.028)**.
19. **Alia Alghwiri**, Hanan Khalil, Alham Al-Sharman, Khalid El-Salem. *Depression is A Predictor for Balance in People with Multiple Sclerosis*. *Multiple sclerosis and related disorders*, 2018; 2: 28-31. **ISI (IF: 3.199)**.
20. Alham Al-Sharman, Hanan Khalil, Mohammad Nazzal, Nihaya Al-Sheyab, **Alia Alghwiri**, Khalid El-Salem, Mayis Al-dughmi. *Living with Multiple Sclerosis: A Jordanian perspective*. *Physiotherapy Research International*, 2018; 23(2): e1709. **Scopus**.
21. Hanan Khalil, Alham Al-Sharman, Khalid El-Salem, Nour Abdo, **Alia Alghwiri**, Aseel Aburub, Firas Al Mustafa. *Fear of falling in people with multiple sclerosis: which clinical characteristics are important?* *Physical Therapy*, 2017; 97(7): 698-706. **ISI (IF: 2.764)**.
22. **Alia Alghwiri**, Gregory Marchetti. *Occupational Back Pain Among Schoolteachers in Jordan: Estimated Prevalence and Factors Associated with Self-Reported Pain and Work Limitations*. *International Journal of Occupational Safety and Ergonomics*, 2018; 24 (3): 341-346. **ISI (IF: 0.657)**.
23. Susan L. Whitney, Ahmad Alghadir, **Alia Alghwiri**, Kefah M Alshebber, Mohammed Alshehri, Joseph M Furman, Martin Mueller, Eva Grill. *The development of the ICF vestibular environmental scale*. *Journal of Vestibular Research*, 2016; 26(3): 297-302. **ISI (IF: 0.900)**.
24. Ahmad Alghadir, **Alia Alghwiri**, Hamzeh Awad, Shahnawaz Anwer. *Ten-year Diabetes Risk Forecast in the Capital of Jordan*. *Medicine*, 2016; 95(12): E3181. **ISI (IF: 1.803)**.
25. Ziad Hawamdeh, **Alia Alghwiri**, Aseel Nassar. *The Short-Term Effect of Extracorporeal Shock Wave in Treating Plantar Fasciitis: RCT*. *Jordan Medical Journal*, 2016; 50(1):1-11. **Scopus**.
26. **Alia Alghwiri**, Ahmad Alghadir, Murad Al-momani, Susan Whitney. *The activities-specific balance confidence scale and berg balance scale: Reliability and validity in Arabic-speaking vestibular patients*. *Journal of Vestibular Research*, 2016; 25(5-6): 253-259. **ISI (IF: 0.900)**.
27. **Alia Alghwiri**. *The Correlation between Depression, Balance, and Physical Functioning Post Stroke*. *Journal of Stroke and Cerebrovascular Accident*, 2015; 25 (2): 475-479. **ISI (IF: 1.517)**.
28. Susan L. Whitney, **Alia Alghwiri**, Ahmad Alghadir. *Physical therapy for persons with vestibular disorders*. *Current Opinion in Neurology*, 2015; 28 (1): 61-68. **ISI (IF: 4.699)**.
29. Martin Mueller, Susan L Whitney, **Alia Alghwiri**, Kefah Alshebber, Ralf Strobl, Ahmad Alghadir, Murad O Al-momani, Joseph M Furman, Eva Grill. *Subscales of the Vestibular Activities and*

Participation Questionnaire could be applied across cultures. Journal of Clinical Epidemiology, 2014; 68 (2): 211. **ISI (IF: 4.978).**

30. Patrick J. Sparo, Susan Furman, Mark Redfern, Subashan Perera, Richard Jennings, **Alia Alghwiri**, Joseph Furman. *Postural adjustment errors during lateral step initiation in older and younger adults.* Experimental Brain Research, 2014; 232 (12): 3977-3989. **ISI (IF: 1.917).**
 31. **Alia Alghwiri**, Ahmad Alghadir, Hamzeh Awad. *The Arab Risk (ARABRISK): Translation and Validation.* Biomedical Research, 2014; 25 (2): 271-275. **ISI (IF: 0.219).**
 32. **Alia Alghwiri**. *Reliability and Validity of the Arabic-Dynamic Gait Index in People Poststroke.* Topics in Stroke Rehabilitation, 2014; 21(2): 173-179. **ISI (IF: 1.216).**
 33. Ahmad Alghadir, Hamzeh Awad, Einas Al-Eisa, **Alia Alghwiri**. *Diabetes risk 10 years forecast in the capital of Saudi Arabia: Canadian Diabetes Risk Assessment Questionnaire (CANRISK) perspective.* Biomedical Research, 2014; 25 (1): 88-96. **ISI (IF: 0.219).**
 34. **Alia Alghwiri**, Ahmad Alghadir, Susan Whitney. *The Vestibular Activities and Participation Measure and Vestibular Disorders.* Journal of Vestibular Research, 2013; 23(6): 305-312. **ISI (IF: 0.900).**
 35. Eva Grill, Joseph Furman, **Alia Alghwiri**, Martin Muller, Susan Whitney. *Using core sets of the international classification of functioning, disability and health (ICF) to measure disability in vestibular disorders: Study protocol.* Journal of Vestibular Research, 2013; 23 (6): 297-303. **ISI (IF: 0.900).**
 36. **Alia Alghwiri**, Susan Whitney, Carol Baker, Patrick Sparto, Gregory Marchetti, John Rogers, Joseph Furman. *The Development and Validation of the Vestibular Activities and Participation Measure.* Archives of Physical Medicine and Rehabilitation, 2012; 15:1822-1831. **ISI (IF: 3.289).**
 37. **Alia Alghwiri**, Gregory Marchetti, Susan Whitney. *Content Comparison of Self-Report Measures Used in Vestibular Rehabilitation Based on the International Classification of Functioning, Disability and Health.* Physical Therapy, 2011;19:346-357. **ISI (IF: 2.764).**
- B) Book Chapters
38. **Alia Alghwiri**, Susan Whitney. *Balance and Falls, Geriatric Physical Therapy, 4th ed.* Ed. By Andrew Guccione, Rita Wong and Dale Avers, 2019. **(Publisher: Elsevier).**
 39. Susan Whitney, **Alia Alghwiri**, Ahmad Alghadir. *An Overview of Vestibular Rehabilitation, Handbook of Clinical Neurology, 3rd Series, V(137).* Ed. by Joseph Furman and Thomas Lempert, 2016. **(Publisher: Elsevier).**
 40. **Alia Alghwiri**, Susan Whitney. *Balance and Falls, Geriatric Physical Therapy, 3rd ed.* Ed. By Andrew Guccione, Rita Wong and Dale Avers, 2011. **(Publisher: Elsevier).**
- C) Conference Proceedings
1. Deutsch J, Whitney SL. Global Neurological Physical Therapy: Be a Part of the Community. 1 hour educational session, CSM virtual meeting, 02/23/2021
 2. **Alia A. Alghwiri**. Collegiate Athletes' Concussion Awareness, Understanding, and Reporting Behaviors in Different Countries with Varying Concussion Publicity. 7th Biennial Emirates Physiotherapy Virtual Conference. Dubai, June, 2020.
 3. **Alia A. Alghwiri**; Mayis Aldughmi; Fatima Jamali; Abdullah Awidi; Hanan Khalil; Alham Al-Sharman. The Effect of Stem Cell Therapy and Combined Exercise Program on Balance and Gait in people with MS: A Pilot RCT. The World Confederation of Physiotherapy (WCPT). Geneva, Switzerland, 2019.

4. **Alia A. Alghwiri**. Vestibular Rehabilitation: New Advances and Technology. Physio Beirut 2018.
5. **Alia A. Alghwiri**. Vestibular Rehabilitation: An Update. The 4th Jordanian international Physical Therapy Conference. Amman, 2018.
6. **Alia A. Alghwiri**. Vestibular Rehabilitation: Evidence Based Practice. The 2nd Kuwait international Physical Therapy Conference. Kuwait, 2018.
7. Hanan Khalil, Alham Al-Sharman, **Alia A. Alghwiri**, Shada Kazaaleh, Lamees Abu foul, Duah Al-Shorafat , Khalid El-Salem. The Development and Evaluation of Virtual Reality Balance Scenarios in People with Multiple Sclerosis (MS): A pilot Study. World Confederation of Physiotherapy (WCPT). Cape Town, South Africa, 2017.
8. **Alia A. Alghwiri**; Hanan Khalil; Alham Al-sharman. The Correlation between Balance and Depression in People with Multiple Sclerosis. World Confederation of Physiotherapy (WCPT). Cape Town, South Africa, 2017.
9. **Alia Alghwiri**, Hanan Khalil, Alham Al-Sharman, Khalid El-Salim. Balance and Mobility Evaluation in People with Multiple Sclerosis. The Second Conference of Jordan Universities in Rehabilitation Sciences. Irbid, Jordan, 2016.
10. **Alia Alghwiri**, Hanan Khalil, Alham Al-Sharman. Reliability and Validity of the Arabic Activities-specific Balance Confidence Scale in People with Multiple Sclerosis. *MENACTRIMS*, Amman, 2016.
11. Alham Al-Sharman Hanan Khalil, Mohammad Nazzal, Sarah Alshalabi, **Alia Alghwiri**, Khalid El-Salem. Perspective and Experiences of Jordanian People with Multiple Sclerosis: A Qualitative Study. *MENACTRIMS*, Amman, Jordan, 2016.
12. **Alia Alghwiri**. The Vestibular Activities & Participation (VAP) Measure. *Southampton Audiology Symposium*, University of Southampton, United Kingdom, 2015.
13. **Alia Alghwiri**. Are our self-report measures consistent with the ICF?. *Southampton Audiology Symposium*, University of Southampton, United Kingdom, 2015.
14. **Alia Alghwiri**, Kholoud Kaabneh, Osama Hamarneh. Vestibular Rehabilitation: Case study. *The 3rd Conference of the Advances Arab Academy of Audiovestibulogy*. Amman, Jordan, 2015.
15. **Alia Alghwiri**. The Correlation between Symptoms of Knee Osteoarthritis and Functional Balance. *The First Scientific Day for Allied Health Professions*. Amman, Jprdan, 2015.
16. **Alia Alghwiri**, Hassan Sarsak. Accessibility in University of Jordan: Reality and ambitions. *Rights of People with Disability and environmental Accessibility*. Zarqa, Jordan, 2015.
17. **Alia Alghwiri**. Reliability and Validity of the Arabic-Dynamic Gait Index in People Poststroke. *The 7th International Conference of The Royal Medical Services*, The Dead Sea, Jordan, 2014.
18. **Alia Alghwiri**. HydroMax Multipurpose Device. Sofex. Amman, Jordan, 2014.
19. **Alia Alghwiri**. Vestibular Disorders and Disability. *The Arab Confederation for Physical Therapy*. Amman, Jordan, 2013.
20. **Alia Alghwiri**. Reliability and Validity of the Arabic-Dynamic Gait Index in People Post Stroke. *APTA Combined Section Meeting*, San Diego, CA. 2013.
21. **Alia Alghwiri**. Vestibular Rehabilitation. *The 6th International Conference of the Royal Medical Services*, the Dead Sea, Jordan, 2012.
22. **Alia Alghwiri**, Whitney SL, Baker CE, Sparto PJ, Marchetti GF, Rogers JC, Furman JM. The Reliability and Validity of the Vestibular Activities and Participation (VAP) Measure in People with Balance and vestibular Disorders. *APTA Combined Section Meeting*, Chicago, IL. 2012.
23. **Alia Alghwiri**, Whitney SL, Baker CE, Sparto PJ, Marchetti GF, Rogers JC, Furman JM. The Development of the Vestibular Activities and Participation (VAP) Measure using the Delphi Technique. *APTA Combined Section Meeting*, New Orleans, LA. 2011.

24. **Alia Alghwiri**, Marchetti GF, Whitney SL (2010) Content Comparison of Self-report Measures Used in Vestibular Rehabilitation Based on the International Classification of Functioning, Disability and Health. North American Collaborating Center (NACC): "Enhancing Our Understanding of the ICF", Bethesda, MD, 2010.
 25. **Alia Alghwiri**, Marchetti GF, Whitney SL (2010) Content Comparison of Self-report Measures Used in Vestibular Rehabilitation Based on the International Classification of Functioning, Disability and Health. *APTA Combined Section Meeting*, San Diego, CA, 2010.
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Courses I offered at Scientific Events

- 1) "Physical Therapy Management for Vestibular Disorders" Course. Lebanon. 27-28/7/2019.
- 2) "Neurological Rehabilitation for stroke" Course. Kuwait. 3-5/2/2019
- 3) "Cerebral Palsy" awareness lecture. *Kings Academy*. 8/9/2015.
- 4) "The Correlation between Symptoms of Knee Osteoarthritis and Functional Balance". *First Scientific Day of Allied Health Professions*, Royal Medical Services, May/10/2015.
- 5) "The Development and Validation of the Vestibular Activities and Participation Measure". *The 7th Scientific day*, Faculty of Rehabilitation Sciences, The University of Jordan, 2013.
- 6) "The role of physical therapy with patients with Down Syndrome". The University of Jordan, Amman, Jordan. 2011.
- 7) "The role of physical therapy with patients with Multiple Sclerosis". *Scientific day of MS*, Faculty of Rehabilitation Sciences, The University of Jordan, 2011.
- 8) "Content Comparison of Self-report Measures Used in Vestibular Rehabilitation Based on the International Classification of Functioning, Disability and Health". *The 5th Scientific day*, Faculty of Rehabilitation Sciences, The University of Jordan, 2011.

Research Grants

- 1) **Alia Alghwiri**. "The effect of using transcranial direct current stimulation (tDCS) in improving quality of sleep in people with multiple sclerosis: A randomized controlled trial". **MENACTRIMS**. 2022.
- 2) **Alia Alghwiri**, Jennifer Muhaidat, Majd Jarrar, Lana Halaseh. "Measuring the effect of using the Arabic Otago Exercise Program on falls and falls-related outcomes in older adults". Deanship of Scientific Research, University of Jordan. 2021.
- 3) Faten Obeidat, **Alia Alghwiri**, Steven Bell. "Clinical evaluation of human balance function pre and post unilateral cochlear implantation". Deanship of Scientific Research, University of Jordan. 2021.
- 4) **Alia Alghwiri**. "Identifying the relationship between quality of sleep and athletic performance in Jordanian athletes". Deanship of Scientific Research, University of Jordan. 2020.
- 5) Faten Obeidat, **Alia Alghwiri**, Steven Bell. "Investigating subjective and objective balance measurements in the diagnosis of people with Meniere's disease". Deanship of Scientific Research, University of Jordan. 2020.
- 6) Fatima Aljamali, Said Dahbour, Ali Al Radayideh, **Alia Alghwiri**, Osama Hamid Faleh Ababneh. "Assessment of Safety and Efficacy of Allogenic Umbilical Cord Derived Mesenchymal Stem Cells in the Treatment of Multiple Sclerosis Patients". Scientific Research Support Fund, Ministry of Higher Education, Jordan. 2018.
- 7) **Alia Alghwiri**. "Investigating Sport-Related Concussion Injury Perception and Knowledge in Jordanian Athletes". Deanship of Academic Research, University of Jordan. 2017.
- 8) Naser Alhunaiti, **Alia Alghwiri**, Reem Alfayez. "Improving the processes related to the deanship of academic research and quality assurance to increase their effectiveness". Deanship of Academic Research, University of Jordan. 2017.
- 9) Fatima Aljamali, **Alia Alghwiri**, Mais Aldughmi, Abdallah Alabbadi. "The effect of stem cell therapy and comprehensive physical therapy on motor and non-motor symptoms in patients with

- multiple sclerosis: a comparative study". Deanship of Academic Research, University of Jordan. 2017.
- 10) "Establishment of an Interdisciplinary Clinical Master Program in Rehabilitation Sciences at JUST (JUST-CRS)". Erasmus plus. 2016.
 - 11) **Alia Alghwiri**, Za'er Abo-Hammor. "Hybrid Hydro Max (HHM)". King Abdullah II Fund for Development. 2016.
 - 12) **Alia Alghwiri**, Za'er Abo-Hammor. The development of a hydrotherapy device called "Hydromax multipurpose (HMMP)". King Abdullah II Fund for Development. 2013.
 - 13) **Alia Alghwiri**, Jennifer Muhaidat. "The prevalence of balance and gait impairments and their effect on function in patients with multiple sclerosis (MS) living in Jordan". Deanship of Academic Research, The University of Jordan. 2013.
 - 14) Ziad Hawamdeh, Sumayah Malkawi, **Alia Alghwiri**. "Rehabilitation of Patients with Stroke: A Descriptive Study of Current Practice in Jordan". Deanship of Academic Research, University of Jordan. 2012.
 - 15) **Alia Alghwiri**. "The impact of low back pain (LBP) on patients' activities of daily living (ADL) and the effectiveness of the intervention techniques used by physical therapists in Jordan". Deanship of Academic Research, University of Jordan. 2011.

Training Courses and Workshops

i. General:

- "Step-by-step Guide on How to Prepare a Successful Paper". Springer Nature. November 18, 2020.
- "Polymerase Chain Reaction". University of Jordan. (May, 2019).
- "Global Leader". Ehab Hamarneh, Amman (2019).
- "Publication in Peer-Reviewed Journals". USAID, (April 5-6, 2017).
- "Bridging Science and Business". Support to Research, Technological, Development and Innovation (SRTDII), (February 12, 2017).
- "Tempus and Erasmus+ in Jordan: Impact, Success Factors, and Challenges". National Erasmus + Office-Jordan, (October 27, 2016).
- "Continuous improvement in student performance based on assessment of learning outcome". Center of Quality Assurance, University of Jordan, (October 13, 2016).
- "Preparation of self-study to obtain a quality assurance certificate". Higher Education Accreditation Commission, (October 4, 2016).
- "Advanced course in Intended Learning Outcomes". Center of Quality Assurance, University of Jordan, (October 5, 2016).
- "TTU Training Workshop". Technology Transfer Oriented Organization, (September 5-7, 2016).
- "Determining research priorities in Arab world". Association of Arab Universities, (October 10, 2012).
- "Writing Research Articles". University of Pittsburgh, Pittsburgh, PA (January 29, 2009).
- "Teaching". University of Pittsburgh, Pittsburgh, PA, (November 8, 2008).

ii. Neuro-Rehabilitation workshops, University of Pittsburgh Medical Center, Pittsburgh, PA

- "Neuro Rehabilitation: Complex Regional Pain Syndrome (CPRS) after stroke". Lois E. Pendrod, MD and Laura Ebbert, PTR/L (October 7, 2008).
- "The Smart House-Facilitating Independent Through Advanced Technology". Robert Walters, PE, MSSE; John Bertoty, M.ED; and Jim Osborn, MS. (November 7, 2007).
- "Provision and justification of optimally configured manual wheelchairs". Kendra Betz, MSPT, ATP; Mark Schmeler, M.S., OTR/L, ATP. (July 26, 2007).

- “Augmentative Communication (ACC) options for people with severe Aphasia”. Kathryn L. Garret, PhD, CCC-SLP. (May 9, 2007).

iii. Physical Therapy Training Courses.

- “LSVT-BIG” for People with Parkinson’s Disease. LSVT-Global. February, 2021.
- “Update on MS Treatment Strategies”. Dubai Health Authority. September 16, 2020.
- “Sleep and Exercise”. Wits Institute for Sport and Health (WISH), Faculty of Health Sciences, University of the Witwatersrand. (24/June/2020).
- “Trauma Informed Physical Therapy Intervention”. CVT, (July, 2019).
- “Biopsychosocial approach: Posture, Balance and Pelvic floor”. CVT, (July, 2019).
- “Wheelchair Service Training for Managers”. Mobility India, WHO, (Sep, 11-13, 2017).
- “Concussion”. WFATT, (July 22, 2017).
- “Neurodynamics”. PrimePhysio, (July 11, 2017).
- "Diploma in Neurological Physiotherapy Rehabilitation". Bhanu Ramaswamy, OBE, FCSP, Sheffield Hallam University, UK, (March 10-12, 2017) and (March 10-12, 2017).
- "Vestibular Rehabilitation". Susan Whitney, DPT, PhD, University of Pittsburgh, USA, (August, 19-20, 2016).
- “Rehabilitation Updates in Parkinson's Disease”. MDS-AOS, (May, 20, 2016).
- “Trigger Points, Pain and Muscle Tone”. Edgar Wilson, BA, MCSP, HPC, Integrated Soft Touch Techniques, UK, (April, 12-13, 2013).
- “Osteopathy I Lumbosacral Spine”. Amjad Mohammad, PT, Future Health Institute, Switzerland, (March, 29-20, 2013).
- “Mulligan Concept-Part A&B”. Josef Andersen, PT, (April, 4-7, 2012).
- “Medical Taping”. Lilian Aqiqi, PT, Tape-Concept, (February, 17-18, 2012).
- “McKenzie Concepts and Techniques-Part A&B”. Grant Watson, PT, (January, 16-24, 2012).
- Leg, Ankle, and Foot Assessment and Taping”. Thaer Manaseer, PT, AT, (December, 23-25, 2011).
- “Therapeutic massage”. Rami Bkhaitan, PT, (September, 2011).
- "Theratogs / Sure step technique for children with disabilities”. Ali Nweiri, (July, 2nd, 2012).

Community Service

- "**Qusai**": A royal initiative that was launched by the crown prince Husain to improve the readiness of sports' therapists in Jordan, (2014-Present). (<https://www.cpf.jo/en/our-initiatives/qusai>)
- “**Living Healthy**” Radio program: A program to increase the awareness about the role of physiotherapy in managing many health conditions. University of Jordan radio station (JU FM 94.9), (2015/2016).
- "**Reject Extremism**": An initiative to spread awareness against extremism and terrorism in collaboration with Jordanian Peace Community Center, (March 1st, 2016).
- "**Light of Hope**": An initiative to gather volunteers to help in providing blind students with the academic courses recorded or typed, (February 11, 2016).
- "**Kursi wa Kitab**": An initiative to spread *conductive education* (a neurological approach to treat patients with cerebral palsy, Parkinson's disease, multiple sclerosis, and stroke) in Jordan in collaboration with Peto Institute-Austria, (July, 2015).
- “**How to avoid back pain**”: Awareness lectures for schoolteachers on wrong postures, activities that cause back pain and to guide them on correct postures, (May, 2014).
- “**Your mother in your mind**”: An activity to honor mothers with disability or mothers who raised children with disability, (April, 2014).
- “**From Amman we begin**”: An initiative that aims to raise the public awareness of disability, teach the rights of people with disability and to improve the environmental accessibility for them, (January, 2014).

- **“How to avoid diabetes”**: An initiative that aims to raise awareness of how to avoid getting diabetes mellitus in 6 Jordanian districts (Amman, Salt, Madaba, Ajloun, Jerash and Aqaba) (March-May, 2013).

Awards

World Confederation for Physical Therapy Outstanding Platform Presentation Award by an Early Career Researcher. Geneva, 2019. www.wcpt.org/wcpt2019/programme/awards

References

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