

# CURRICULUM VITAE

Duha M. Al-Shorafat

## Current Job/ Contact Information:

- Assistant Professor. Neurologist.
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## Education/Certificates

- **2020** Clinical fellowship in Movement disorders Surgical
- **2019** Clinical fellowship in Movement Disorders
- **2015** Jordanian Board of Neurology (Jordan Medical Council Certificate).
- **2015** Higher specialty certificate in Neurology (J.U.S.T)
- **2009** Medical Degree, Jordan University of Science & Technology (J.U.S.T.)

## Clinical training

- **Jan 2020- Aug 2020** Clinical Fellowship in Movement Disorders Surgical, University Health Network/ University of Toronto. Toronto. Canada
- **Jan 2018- Dec 2019** Clinical Fellowship in Movement Disorders, University Health Network/ University of Toronto. Toronto. Canada
- **Sep 2015- Dec 2017** Research and Teaching Assistant, Jordan University of Science and Technology (J.U.S.T). Irbid. Jordan
- **Jul 2014- Jun 2015** Chief resident of Neurology, King Abdullah University Hospital (KAUH)/ J.U.S.T. Irbid. Jordan
- **Jul 2010- Jun 2015** Neurology Residency, King Abdullah University Hospital (KAUH)/ J.U.S.T. Irbid. Jordan
- **Jul 2009- Jun 2010** Internship, King Abdullah University Hospital (KAUH)/ J.U.S.T. Irbid. Jordan.
- **Sep 2003- Jun 2009** Medical School, Jordan University of Science and Technology J.U.S.T. Irbid. Jordan.

## **Special Training/ Certificates**

- Principles and Practice of Clinical Research program. T.H Chan Public Health School. Harvard University. **March 2019-Nov 2019.**
- Cleveland Clinic 7<sup>th</sup> annual Neurotoxin Course for Neurological Conditions. Webinar series and full day live program. **October/November.2018**
- Standardized neurological examination and assessment of Kurtzke's Functional Systems and Expanded Disability Status Scale in Multiple Sclerosis Qualification (level C). **2014**
- National Institutes of Health Stroke Scale assessment- English Group A V3 in stroke patients Qualification. **2014**
- Diploma of French Language Studies (DELF). **2002**

## **Memberships**

- A co-founder and a member of the administrative board of the Parkinson's Care Association in Jordan **Feb, 2023-Ongoing**
- A member in the national committee in the ministry of health for establishing deep brain stimulation treatment in Jordan. **Feb, 2022-Jan, 2024**
- College of Physicians and Surgeons of Ontario. **Jan 2018-Aug 2020**
- American Academy of Neurology. **Not active.**
- International Parkinson and movement disorder society. **Active**

## **Selected Conferences**

- Speaker at the 11<sup>th</sup> international congress of of the Jordanian Neurological Society and 9<sup>th</sup> Congress of the Jordanian Chapter of Epilepsy. **Sep. 2023**
- International Congress of Movement Disorders Society. **27<sup>th</sup> Aug-31 st 2023 2023**
- International Congress of Movement Disorders Society. Virtual Congress. **17th Sep 2021-22<sup>nd</sup> Sep 2021**
- International Congress of Movement Disorders Society. Virtual Congress. **12th Sep 2020-16th Sep2020**
- A Comprehensive Review of Movement Disorders for the Clinical Practitioner Aspen, CO, USA. Virtual. **August 4<sup>th</sup> -August 8<sup>th</sup> ,2020**
- International Congress of Movement Disorders Society. Nice, France. **22nd-26th September 2019.**
- presenter in video challenge; American Academy of Neurology annual meeting. Philadelphia, USA. **May 2019**
- A Comprehensive Review of Movement Disorders for the Clinical Practitioner Aspen, CO, USA. **July 9<sup>th</sup> - August 2<sup>nd</sup> ,2018**
- The 6th International Congress of the Jordanian Neurological Society; The 3rd congress of the Jordanian chapter of Epilepsy, Amman-Jordan. **October 21<sup>st</sup> -24<sup>th</sup> ,2015**
- The First Jordanian-Australian Neurosurgical Conference, King Abdullah University Hospital, Jordan. **April 27th, 2014.**
- The 5<sup>th</sup> International Congress of the Jordanian Neurological Society, Amman, Jordan. **November 8th - 10th, 2012.**

- The First Scientific Day of The Department of Internal Medicine/ Faculty of Medicine. **April 3<sup>rd</sup>, 2007.**

## **Selected Research/ Clinical Trials**

- Rater in a randomized controlled clinical trial for efficacy of physical and occupational therapy for the treatment of essential tremor. **February 2021-present.**
- Sub-Investigator in A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multi-Center Trial to Evaluate the Efficacy and Safety of a Single Treatment of DaxibotulinumtoxinA for Injection in Adults with Isolated Cervical Dystonia (ASPEN-1) **2019.**
- Sub-Investigator in an open label Phase 2a Study to evaluate the Safety and tolerability of Perampanel (E2007) in subjects with Cervical Dystonia. **2018- 2019.**
- Sub-Investigator in the Dystonia Coalition Project 1: Natural History and Biospecimen Repository for Dystonia. **2018- 2019.**
- Sub-Investigator in phase 3 FORT Study evaluating the safety and efficacy of fosmetpantotenate compared to placebo in patients with pantothenate kinase-associated neurodegeneration (PKAN). **2018- 2019**
- Sub-Investigator in a randomized placebo-controlled, 2-arm parallel-group superiority phase II study of Glycopyrrrolate for moderate-to-severe sialorrhea in Parkinson's disease. **January-April, 2018.**
- Virtual Reality Based Motor Control Learning for people with Multiple Sclerosis: A pilot study. **2016-2017**
- Co-investigator in a single arm, open-label, multicenter study evaluating the long- term safety, tolerability and efficacy of 0.5 mg fingolimod. **2014-2016.**
- Cross-Cultural adaptation of the language/cognitive items of the NIHSS to the Arabic language validation study. **2014.**

## **Publications/ Abstracts**

### **Publications**

- Ayesh Haj Yousef MH, Audat Z, **Al-Shorafat DM**, Al-Khatib S, Daoud AK. Primary Diffuse Large B Cell Lymphoma of Bone: A Single-Center Experience. J Blood Med. 2022 Mar 18;13:143-149.
- Becker LF, Tunc S, Murphy P, Bäumer T, Weissbach A, Pauly MG, **Al-Shorafat DM**, Saranza G, Lang AE, Beste C, Donner TH, Verrel J, Münchau A. Time estimation and arousal responses in dopa-responsive dystonia. Sci Rep. 2022 Aug 22;12(1):14279. doi: 10.1038/s41598-022-17545-w.

- Weissbach A, Steinmeier A, Pauly M, **Al-Shorafat DM**, Saranza G, Lang A, Brüggemann N, Tadic V, Klein C, Münchau A, Bäumer T, Brown MJN. Longitudinal evaluations of somatosensory-motor inhibition in Dopa-responsive dystonia. *Parkinsonism Relat Disord.* **2022 Jan** 4;95:40-46.
- Weissbach, A., Steinmeier, A., Pauly, M.G., **Al-Shorafat, D.M.**, Saranza, G., Lang, A.E., Brüggemann, N., Tadic, V., Klein, C., Lohmann, K., Brown, M.J., Beste, C., Münchau, A. and Bäumer, T. Multimodal Longitudinal Neurophysiological Investigations in Dopa-Responsive Dystonia. *Movement Disorders.* **(2021)**
- Fox SH, Swan M, Jinnah HA, de Freitas MET, de Oliveira LM, **Al-Shorafat D**, Fernandez HH, Kompoliti K, Comella C. An Open-Label Phase 2a Study to Evaluate the Safety and Tolerability of Perampanel in Cervical Dystonia. *Mov Disord Clin Pract.* 2021 May 13;8(5):743-749. doi: 10.1002/mdc3.13229.
- **Al-Shorafat, D.M.**, Bhowmick, S., Espay, A.J. and Fasano, A. Beta-blocker-induced tremor. *Mov Disord Clin Pract.* **(2021)**
- Yassin A, El-Salem K, Khassawneh BY, Al-Mistarehi AH, Jarrah M, Zein Alaabdin AM, Abumurad SK, Qasaimeh MG, Bashayreh SY, Kofahi RM, Alhayk KA, **Alshorafat D**, Al Qawasmeh M. Diagnostic value of electrocardiogram during routine electroencephalogram. *Seizure.* **(2021)**
- Mestre TA, Freitas E, Basndwah A, Lopez MR, de Oliveira LM, **Al-Shorafat DM**, Zhang T, Lui JP, Grimes D, Fox SH. Glycopyrrolate Improves Disability from Sialorrhea in Parkinson's Disease: A 12-Week Controlled Trial. *Mov Disord.* **(2020 Jul 13)**
- **Al-Shorafat DM**, Lang AE. Amantadine for Gait Dysfunction in Pantothenate Kinase-Associated Neurodegeneration. *Can J Neurol Sci.* **(2019 Aug 1)**
- Karlo J Lizarraga, **Duha Al-Shorafat**, and Susan Fox. Update on current and emerging therapies for dystonia. *Neurodegenerative Disease Management.* **(2019)**
- Khalil H, Al-Sharman A, El-Salem K, Alghwiri AA, **Al-Shorafat D**, Khazaaleh S, Abu Foul L. The development and pilot evaluation of virtual reality balance scenarios in people with multiple sclerosis (MS): A feasibility study. *NeuroRehabilitation.* 2018;43(4):473-482.
- Shadi Hamouri, **Duha Al-Shorafat**. Bilateral Facial Nerve Paralysis as first presentation of lung cancer. *Case Reports in Oncology*, Karger 2016;9:792-795. **November, 2016.**
- El-Salem K, Yassin A, Al-Hayk K. Yahya S, **Al-Shorafat D**, Dahbour S.S. Treatment of MuSK associated myasthenia gravis. *Curr Treat Options Neurol.* 2014 Apr; 16(4):28

#### ➤ Accepted Abstracts

- **D. Al-Shorafat**, K. Al-Hayk, M. Qawasmeh, W. Kamel, S. Bashayreh. Low serum vitamin E in a genetically confirmed Autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay

(ARSACS). [abstract]. *Mov Disord.* 2023; 38 (suppl 1).

- H. Khalil, M. Nazzal, A. Al-Sharman, L. Samman, **D. Al-Shorafat**, K. El-Salem, H. Al Refa'I, S. Obeidat. The effect of exercise training on motor and non-motor symptoms in people with Essential Tremor; a feasibility pilot study [abstract]. *Mov Disord.* 2023; 38 (suppl 1)
- **D. Al-Shorafat**, A. Shetty, D. Munoz, A. Fasano, A. Lang. Spectrum of parkinsonian phenotypes associated with GCH1 mutation. MDS congress 2019. Nice, France.
- H. Khalil, A. Al-Sharman, N. Alissa, K. El-Salem, **D. Al-Shorafat**. The association between pain and physical activity in people with Parkinson's Disease (PD). MDS congress 2018.
- Alham Al-Sharman, Hanan Khalil, Khalid El-Salem, **Duha Al-Shorafat**, Shada Khazaaleh, Lamis Abu alfoul. Understanding Motor Learning in Individuals with Multiple Sclerosis: Using Real-Life Task through Virtual Reality. ACSM- USA, 2018
- Hanan Khalil, Alham Al-Sharman, Khalid El-Salem, **Duha Al-Shorafat**, Patrick Esser, Helen Dawes. The extent of the Relationship between Sleep Disturbances and walking ability in people with Multiple Sclerosis. ACSM-USA, 2018
- Hanan Khalil, Alham Al-Sharman, Alia A. Alghwiri, Shada Kazaaleh, Lamees Abu foul, **Duha Al-Shorafat**, Khalid El-Salem. The Development and Evaluation of Virtual Reality Balance Scenarios in People with Multiple Sclerosis (MS): A pilot Study. Presented at the World Congress of Physical Therapy, 2017: Cape town, South Africa.

## Licenses

- College of Physicians and surgeons of Ontario. **Jan 2018-Aug 2020**
- Jordanian Medical License. **Active**
- Jordanian Neurology License. **Active**

## References

1. **Susan H. Fox**, MRCP (UK), PHD. Professor of Neurology, Movement Disorders Clinic. Associate director of the Edmond J. Safra Program in Parkinson's Disease and the Morton and Gloria Shulman Movement Disorders Center. 399 Bathurst St. Toronto, Ontario. M5T 2S8 Canada. E mail: sfox@uhnresearch.ca. +1 416 603 6422.
2. **Anthony E. Lang**. MD, FRCPC. Professor of Neurology, Movement Disorders Clinic. Director of the Edmond J. Safra Program in Parkinson's Disease and the Morton and Gloria Shulman Movement Disorders Center. 399 Bathurst St. Toronto, Ontario. M5T 2S8 Canada. E mail: Anthony.Lang@uhnresearch.ca. +1 416 603 6422.
3. **Alfonso Fasano**. MD. PHD. Professor of Neurology, Movement Disorders Clinic. Co-Director of the surgical program in Parkinson's Disease and the Morton and Gloria Shulman Movement Disorders Center. 399 Bathurst St. Toronto, Ontario. M5T 2S8 Canada. E-mail: alfonso.fasano@uhn.ca. +1 416 603 6422