



Mohammad Hamdan, MD, Dr. med., MHBA

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Professional experience

- **Consultant in Neurosurgery (Oberarzt), Spine Surgery and Pain Management** –
Johannitter Krankenhaus Duisburg, Germany | 02/2025 - today
- **Specialist in Neurosurgery (Facharzt)** - Klinikum Frankfurt Hoechst (Varisano) , Germany | 10/2024 – 12/2024
- **Resident Physician for Neurosurgery** – Mediapark-klinikum Köln, Universitätsklinikum des Saarlandes, Klinikum Frankfurt Hoechst (Varisano) , Germany | 02/2018 – 09/2024.
- **Médecins Sans Frontières (Doctors Without Borders)** - Amman, Jordan. Treatment of war wounded from Syria, Yemen and Iraq | 07/2017 – 09/2017

Education & Qualifications

- **Advanced Pain Therapy** Sylt, Germany | 10/2025
- **Eurospine Diploma** Strasburg, France | 09/2025
- **PhD** - (PhD thesis submitted 11/2024) - Justus Liebig University Giessen, Germany.
Dissertation: "A Novel Technique of Endoscopic Transforaminal Lumbar Intervertebral Fusion and Percutaneous Dorsal Spondylodesis in Degenerative Lumbar Spinal Disorders" **Prof. Dr. med. Kartik Krishnan.**
- **Master of Health Business Administration (MHBA)** - Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany.
Thesis: "Augmented Reality (AR) in Health Care". | 10/2022 – 09/2024.
- **European Board Examination in Neurological Surgery (EANS) - Part 1** - Maastricht, Netherlands | 08/2022
- **Doctor of Medicine (MD)** - University of Jordan, Amman, Jordan | 08/2010 – 06/2017.
GPA: 3.84/4.00 (with distinction).
- **Other:**
 - Radiation protection § 18a RöV and § 30 StrSchV 2018, updated 2024
 - Neurosurgery International Master Class – Dubai, UAE 2024
 - Internship, Neuroscience Research Center – Jülich, Germany 2016
 - Secondary high school (Science) – Amman, Jordan (98.4% – **Top 1% in Jordan**).

Publications & Research

- "Vertebral Body Osteolysis 6 Years After Cervical Disk Arthroplasty" – J Neurol Surg A Cent Eur Neurosurg, 2020.
- Dissertation: "A Novel Technique of Endoscopic Transforaminal Lumbar Intervertebral Fusion and Percutaneous Dorsal Spondylodesis in Degenerative Lumbar Spinal Disorders" 2025.
- "L-Citrulline Supplementation Reduces Plasma Arginase Activity in Type 2 Diabetes Patients" – Circulation, 2015.
- "Central Corneal Thickness in a Jordanian Population and its Association with Different Types of Glaucoma" – BMC Ophthalmology, 2018.

Memberships & Networks

- German Society of Neurosurgery (DGNC)
- Eurospine
- European Association of Neurosurgical Societies (EANS)
- American Association of Neurological Surgeons – (AANS)

Languages

• **Arabic** (Mother tongue)

• **German** (C1)

• **English** (C1)

Other awards

- **The University Royal Scholarship** (Jordan, 2010) – scholarship for excellent academic achievement.
- **Demoqrati Award (2014)** – Award for the project "A Doctor in Every House".
- **NRW-DAAD Scholarship (2015)** – Funded by the German Academic Exchange Service.
- **The Global Experience Digital Participation Camp (2015, 2016)** – Social innovation projects to support cancer patients and refugees.

Hobbies and interests

- Chess • Table tennis • Programming • Piano
- **Digital skills:** Extensive knowledge of Python, C++ and SPSS for statistical analysis, as well as experience with fMRI analysis tools such as FSL. In the age of digitalization and AI, these capabilities enable the automation of work documentation, the optimization of clinical processes, and more efficient patient care.

Date: 16.11.2025

Duisburg, Germany

Mohammad Handan
