

# Ahmed Abdelazim Hassan

MBBCh, MSc, MRCSEd., PhD(c)



*The Lambs Building, 2 South  
Parade, Nottingham, NG1 2JS, UK*

+447768571828

+201288103657

ahmed\_hassan1@med.aun.edu.eg

ahmed.hassan53@nhs.net

linkedin.com/in/ahmed-hassan-  
438a9914b

A conscientious, reliable and hardworking Orthopedics & trauma surgery assistant lecturer pays attention to details, crusader of clinical governance, with excellent interpersonal and time management skills, seeking further training, experience and insight in orthopaedic and trauma surgery.

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## Personal Data

**Full name:** Ahmed Abdelazim Abdelrahim Hassan

**Current Posts:**

Clinical Fellow, Centre for Spinal Studies and Surgery, Queen's Medical Centre, Nottingham University Hospitals, UK

Assistant lecturer of Orthopedics and Trauma Surgery, Faculty of Medicine, Assiut University, Egypt

Specialist of Orthopedics and Trauma Surgery, Assiut University Hospitals, Egypt

**Birth Date and Place:** 03/11/1991 in Assiut, Egypt

**Nationality:** Egyptian

**Marital Status:** Single

## Spoken Languages

**English:** Academic IELTS total band score: 7.5 (Level C1)

Occupational English test (OET): 2A`s, 2B`s (OET gold standard)

**French:** Elementary proficiency

**German:** B1 level

**Arabic:** Native Language

## Medical License and Registration

**Egypt**

Egyptian Medical Syndicate (EMS)

Registration number: **275747**

License number: **278417**

**The United Kingdom**

Full registration with a license to practice

GMC Registration number: **8039212**

## EMPLOYMENT HISTORY

OCTOBER 2023- ONGOING

**Spinal Clinical Fellow/** Centre for Spinal Studies and Surgery, Queen`s Medical Centre, Nottingham University Hospitals NHS Trust, Nottingham, UK

NOVEMBER 2022- FEBRAUARY 2023

**Clinical Fellow/** Department of Spine Surgery, Helios Klinikum Erfurt, Erfurt, Germany

MARCH 2022-JUNE 2022

**Clinical Research Fellow/** AO Foundation Innovation and Translation Center (AO ITC), Dübendorf, Zürich, Switzerland

June 2021- ongoing

**Assistant Lecturer/** Department of Orthopedics and Trauma Surgery, Faculty of Medicine, Assiut University, Assiut, Egypt

SEPTEMBER 2019 – JUNE 2021

**Demonstrator/** Department of Orthopedics and Trauma Surgery, Faculty of Medicine, Assiut University, Assiut, Egypt

MARCH 2017 – SEPTEMBER 2019

**Resident/** Department of Orthopedics and Trauma Surgery, Assiut University Hospitals, Assiut, Egypt

March 2016 – March 2017

**House Officer/** Assiut University Hospitals, Assiut, Egypt

completed rotations in General Surgery, OB/GYN, Pediatrics, Cardiothoracic Surgery, accidents and emergency, and Internal Medicine

01/02/2016-28/02/2016

**Training Physician/** Department of Orthopedics and Traumatology, Universitätsklinikum Freiburg, Freiburg im Breisgau, Germany

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## Education

MARCH 2017

**MBBCh / Faculty of Medicine, Assiut University, Assiut, Egypt**

*Magna Cum laude*

APRIL 2021

**MSc (Orthopedics and Trauma Surgery) / Faculty of Medicine, Assiut University, Assiut, Egypt**

**GPA 3.4**

a) Dissertation titled "Arabic Translation and Validation of the modified Japanese Orthopedic Association (mJOA) cervical myelopathy score".

b) Examination:

- First Part: Pathology, Anatomy, Physiology, Pharmacology, Histology and General Surgery.
- Second Part: Orthopedic and Trauma Exams: Written, Oral, Clinical and Operative.

DECEMBER 2021

**AO College program (AOSpine division) / AO Foundation, Switzerland**

APRIL 2023

**MRCSEd (Membership of the Royal College of Surgeons of Edinburgh) / RCSEd (Royal College of Surgeons of Edinburgh), UK**

MAY 2021 - ONGOING

**PhD (Orthopedics and Trauma Surgery) / Faculty of Medicine, Assiut University, Assiut, Egypt**

- Dissertation titled "Minimally Invasive Surgical Management of Traumatic Spinopelvic Instability"
- Passed first part in October 2021 (including Forensic medicine, Research Methodology and Basic Biomedical Statistics)
- Passed the second part in October 2022 (including orthopaedic biomaterials & biomechanics, orthopaedic surgical anatomy, and orthopaedics surgical pathology)

FEBRUARY 2022 - ONGOING

**Global Spine Diploma Program / AO Foundation, Switzerland**

## Research grants

- 1- **Sub-investigator, The AO Spine MENA Research grant award 2019, *Vitamin D Deficiency as a Risk Factor for Spondylolysis in Young Adults; Case-control Study***
- 2- **Principal investigator, AO Spine 2021 Research Start-up Grant, *Evaluation of the Reliability & Validity of Remote Spine Examination***

## International Research Projects

- 1- **Sub-investigator, *Spine TL-A3-A4 study: Thoracolumbar burst fractures (AO Spine A3, A4) in neurologically intact patients: An observational, multicenter cohort study comparing surgical versus non-surgical treatment.***
- 2- **Sub-investigator, *History Study:***

## Ongoing Research Projects

- 1- Sub-investigator, Metal removal of thoracolumbar fractures in neurologically intact patients: A systematic review
- 2- Principal investigator, The value of Quantitative CT parameters in the diagnosis of meniscal and ligamentous injuries in acute tibial plateau fractures: a systematic review and meta-analysis
- 3- Principal investigator, Management of osteolytic lesion of the cuboid: A case report and review of literature
- 4- Sub-investigator, Asymmetrical VCR for management of Adolescent Congenital Scoliosis: case series
- 5- Principal investigator, Traumatic lumbar disc prolapse on top of neglected congenital lumbar kyphosis: A case report
- 6- Sub- investigator, workplace harassment among orthopaedic surgeons
- 7- Sub- investigator, Fast-Track surgery in degenerative lumbar spine.
- 8- Principal Investigator, Minimally Invasive surgical management of traumatic spinopelvic instability
- 9- Sub-investigator, The Incidence of AVN after modified Dunn procedure for SCFE: A systematic review and meta-analysis.

## Publications

- 1- Abdelnasser MK, Morsy M, Osman AE, AbdelKawi AF, Ibrahim MF, Eisa A, Fadle AA, Hatem A, Abdelhameed MA, **Hassan AAA** & Abdelgawaad AS (2020) COVID-19. An update for orthopaedic surgeons. *SICOT-J* 6, 24
- 2- Elnady B, **Hassan AAA**, Hassan KM & Ali HM (2021) Validation of a translated version of the modified Japanese Orthopedic Association (mJOA) cervical myelopathy score in an Arabic-speaking population. *SICOT-J* 7, 50
- 3- Mahran MA, **Hassan AAA**, Moustafa MM, et al. Femoral head osteonecrosis post-COVID-19 infection, a prophecy coming true. A report of seven hips. *Journal of Musculoskeletal Research* 2022.
- 4- Vaccaro, Alexander R., et al. "Global Validation of the AO Spine Upper Cervical Injury Classification." *Spine* (2022): 10-1097
- 5- Lambrechts, Mark J., et al. "Global Validation of the AO Spine Upper Cervical Injury Classification: Geographic Region Affects Reliability and Reproducibility." *Global Spine Journal* (2024): 21925682221124100.
- 6- Elective surgery system strengthening development, measurement, and validation of the Surgical Preparedness Index (SPI) across 1632 hospitals in 119 countries. J Glasbey, A Bhangu, COVIDSurg Collaborative - The Lancet, 2022
- 7- National Institute for Health and Care Research Global Health Research Unit on Global Surgery, Reducing the environmental impact of surgery on a global scale: systematic review and co-prioritization with healthcare workers in 132 countries, *British Journal of Surgery*, Volume 110, Issue 7, July 2023, Pages 804–817
- 8- **Hassan, A.A.A.**, Khalifa, A.A. Femoral head avascular necrosis in COVID-19 survivors: a systematic review. *Rheumatol Int* (2023).
- 9- Khaled M, Fadle AA, **Hassan AAA**, Khalifa AA, Nabil A, Hafez A, Abol Oyouun N. To Bury or Not to Bury the K-wires After Fixation of Both Bone Forearm Fractures in Patients Younger Than 11 Years Old: A Randomized Controlled Trial. *J Pediatr Orthop*. 2023 Sep 7
- 10- Ahmed A. Khalifa, Shimaa S. Khidr, **Ahmed Abdelazim A. Hassan**, Heba M. Mohammed, Mohammad El-Sharkawi, Amr A. Fadle, Can Orthopaedic Surgeons adequately assess an Electrocardiogram (ECG) trace paper? A cross sectional study, *Heliyon*, 2023, e22617, ISSN 2405-8440.

- 11- Joaquim AF, Bigdon SF, Bransford R, et al. Streamlining the Journey of Research Into Clinical Practice: Making Your Patients and Practice Flourish Optimizing Management and Minimizing Risk of Osteoporotic Vertebral Fractures – Perspectives of the AO Spine KF Trauma and Infection Group Key Opinion Leaders. *Global Spine Journal*. 2024;0(0). doi:[10.1177/21925682241278953](https://doi.org/10.1177/21925682241278953)
- 12- Abdelgawaad, Ahmed Shawky MD, MHBA; **Hassan, Ahmed Abdelazim MSc, MRCSEd**; Metry, Samuel Safwat; Hassan, Khaled Mohammed MD; Hassan, Mohammed Gamal MD; and Elnady, Belal MD (2024) "Radiographic Features Associated with Neurological Deficit in Thoracic and Lumbar Spine Fractures," *Advanced Spine Journal*: Vol. 43 : Iss. 1 , Article 3.
- 13- Khalifa, A.A., **Hassan, A.A.** Surgeon handedness affects the acetabular cup positioning during primary total hip arthroplasty regardless of the surgical approach. a systematic review and metanalysis. *BMC Musculoskelet Disord* **25**, 792 (2024). <https://doi.org/10.1186/s12891-024-07868-2>
- 14- El-Hameed, Islam M.A.; El-Meshtawy, Mohamed A.E.-H.; Abdelgawaad, Ahmed S.; **Hassan, Ahmed A.A.**; Ibrahim, Mahmoud Fouad. Monoaxial versus polyaxial pedicle screw fixation for thoracolumbar fractures. *The Egyptian Orthopaedic Journal* ():10.4103/eoj.eoj\_137\_23, October 09, 2024. | DOI: 10.4103/eoj.eoj\_137\_23

## Fellowships

- 1- AO ITC Clinical Research fellowship, AO Foundation, Zurich, Switzerland, March 2022
- 2- AO Spine MENA Fellowship, Helios Klinikum Erfurt, Erfurt, Germany, November 2022

## International Conference Presentations & E-Posters

- *Arabic Translation and Validation of the modified Japanese Orthopedic Association (mJOA) cervical myelopathy score*, presented at the Global Spine Congress (GSC) 2022, Las Vegas, USA, June 2022
- *The AOITC Clinical Research Fellowship: integrating clinical research and surgery*, Presented at the AO Trauma Research Symposium – Complex Trauma Management, Cairo, Egypt, February 2023
- *Spinopelvic Dissociation" Revisiting an Ambiguous Term: A Systematic Review*, E-poster at the Global Spine Congress (GSC) 2023, Prague, Czech Republic, June 2023
- *"Mono-axial Versus Poly-axial Pedicle Screw Fixation for Thoracolumbar Fractures: A Randomized Controlled Trial"*, E-poster at the Global Spine Congress (GSC) 2023, Prague, Czech Republic, June 2023

- *Post-COVID Avascular Necrosis of the Femoral Head: A Systematic Review*, presented at the 43<sup>rd</sup> SICOT Orthopaedic World Congress, Cairo, Egypt, November 2023
- *Management of Neglected Congenital Kyphoscoliosis by a Modified Posterior Vertebral Column Resection*, presented at the 43<sup>rd</sup> SICOT Orthopaedic World Congress, Cairo, Egypt, November 2023
- *"Spinopelvic Dissociation" Redefining an Old Term: A Systematic Review*, E-poster at the 43<sup>rd</sup> SICOT Orthopaedic World Congress, Cairo, Egypt, November 2023

## **National and Regional Presentations**

- *Recent Trends in the Management of Perianal Fistulae*, presented at the Department of General Surgery, Assiut University Hospital, March 2015.
- *Disorders of fetal growth*, presented at the Department of OB/GYN, Women Health Hospital, Assiut University, June 2015
- *External fixation: indications and general assembly* presented at the Department of Orthopedics and Trauma Surgery, Assiut University Hospital, April 2018
- *Hip examination*, presented at the Department of Orthopedics and Trauma Surgery, Assiut University Hospitals, April 2019
- *Management of Hallux Valgus*, presented at the Department of Orthopedics and Trauma Surgery, Assiut University Hospitals, September 2019
- *Morbidity & Mortality report*, presented at the monthly Grand Conference, Department of Orthopedics and Trauma Surgery, Assiut University hospitals, March 2020
- *Morbidity & Mortality report*, presented at the monthly Grand Conference, Department of Orthopedics and Trauma Surgery, Assiut University Hospitals, April 2021
- Microsurgery Unit monthly report, presented at the monthly Grand Conference, Department of Orthopedics and Trauma Surgery, Assiut University hospitals, June 2021
- *Osteochondrosis of the foot*, presented at the Foot and Ankle Unit Conference, Department of Orthopedics and Trauma Surgery, Assiut University Hospitals, July 2021
- Arthroscopy Unit monthly report, presented at the monthly Grand Conference, Department of Orthopedics and Trauma Surgery, Assiut University hospitals, December 2021
- *An Unusual Pattern of Spinopelvic Dissociation*, presented at the 6<sup>th</sup> Annual Specialties Conference, Department of Orthopedics & Trauma Surgery, May 2023, Assiut, Egypt



- *Ipsilateral Femoral Neck and Shaft Fractures*, presented at the 6<sup>th</sup> Annual Specialties Conference, Department of Orthopedics & Trauma Surgery, May 2023, Assiut, Egypt

## **Journal Reviewer**

- Global Spine Journal (GSJ) since August 2023
- PLOS One since August 2024
- Cureus Journal for Medical Science since September 2024

## **Course Instructor**

- The Basics of Clinical and Surgical Skills of the Orthopedic Surgeon Course, Cairo, Egypt, September 2022

## **Courses Attended**

- Basic Life Support (BLS) course (certified BLS provider), April 2017, Assiut, Egypt
- AO PEER course program- Principles of clinical research, January 2018, Cairo, Egypt
- AO Trauma Course- Basic Principles of Fracture Management, Assiut, Egypt, March 2018
- Advanced Trauma Life Support (ATLS) course (certified ATLS provider), September 2019, Assiut, Egypt
- Deformity Planning Course, provided by the Egyptian Orthopaedic Association, 6-8 November 2019, Cairo, Egypt
- AO PEER Level 2—Grant Writing Course, February 2021
- AO Trauma Blended Course-Advanced Principles of Fracture Management, July 2021, Cairo, Egypt
- AO Spine Advanced Course—Complications Avoidance and Management in Cervical Spine Surgery, August 2021, Cairo, Egypt
- Pre-course: Next Generation Spinal Intervention: augmented reality and virtual reality, Global Spine Congress (GSC) 2021, November 2021, Paris, France
- AO Spine Course—Micro-decompression and Percutaneous Fixation, December 2021, Davos, Switzerland
- ATLS Instructor course, December 2021, Cairo, Egypt
- Good Clinical Practice (GCP) course, Whitehall Training (online course), April 2022

- AO Spine Advanced Level Simulation Course – Complications in Spine Surgery, October 2022, Dubai, UAE
- Care of the Critically Ill Surgical Patient (CCrISP) Course, April 2023, Cairo, Egypt
- Pre-course: New and Upcoming Technologies and Techniques in Spinal MIS Surgery, Global Spine Congress (GSC) 2023, June 2023, Prague, Czech Republic
- Pre-course: Cervical Spine Injuries, Global Spine Congress (GSC) 2023, June 2023, Prague, Czech Republic
- Spinal Osteotomies and Navigated Spine Surgery Cadaveric Course, Centre for Spinal Studies and Surgery, Nottingham University Hospitals NHS Trust, September 2024, Nottingham, UK

## **Conferences, Seminars and Webinars**

- Principles of Spinal fractures: an AO Spine endorsed meeting, April 2017, Assiut, Egypt
- AO Trauma Seminar – Polytrauma, November 2017, Cairo, Egypt
- Annual International Congress of the Egyptian Orthopedic Association, December 2017, Cairo, Egypt
- The 3<sup>rd</sup> Annual Specialties Conference, Department of Orthopedics & Trauma Surgery, Assiut University, March 2018, Assiut, Egypt
- AO Trauma Seminar – Bone Infection, November 2018, Cairo, Egypt
- AO Spine Seminar – Spinal Deformity, December 2018, Cairo, Egypt
- The 4<sup>th</sup> Annual Specialties Conference, Department of Orthopedics & Trauma Surgery, Assiut University, March 2019, Assiut, Egypt
- The 12<sup>th</sup> international conference of the Egyptian society for surgery of the hand and microsurgery “ESSHM”, March 2019, Cairo, Egypt
- AO Wrist Symposium, March 2019, Cairo, Egypt
- Annual International Congress of the Egyptian Orthopedic Association, December 2019, Cairo, Egypt
- AO Spine Advanced Level Live Surgery Seminar—Minimally Invasive Spinal Surgery, February 2020, Cairo, Egypt
- AO Spine Research Webinar - Defining the knowledge gaps to accelerate progress and advance outcomes in DCM, May 2020
- AO Spine Principles Webinar—Pyogenic Spondylodiscitis: Epidemiology, classification, options of treatment, May 2020
- AO Spine Principles Webinar—Osteoporotic Fractures: State of the Art, June 2020
- AO Spine in-League Advanced Webinar—Adult Degenerative Scoliosis: What We Should Know in 2020, June 2020
- AO Spine Advanced Webinar—Bilateral Decompression of Lumbar Spinal Stenosis via a Monolateral Approach, June 2020
- AO Spine Webinar—Asymptomatic Dangerously Positioned Pedicle Screws, July 2020

- AO PEER Webinar: Statistics and sample size calculation: Give your study enough power, July 2020
- AO Spine Webinar—Artificial Intelligence and Machine Learning: Cutting Edge Applications in Spine, November 2020
- AO Spine Advanced Webinar—Management of Osteoporotic Fractures. New Advances, March 2021
- Global Spine Congress (GSC) 2021, November 2021, Paris, France
- Annual International Congress of the Egyptian Orthopaedic Association, December 2021, Cairo, Egypt
- AO Spine Principles webinar – cervical myelopathy: anterior, posterior, or combined approach, April 2022
- AO Spine principles webinar – Is there a rationale for sacroiliac and joint fusion? November 2022
- Global Spine Congress (GSC) 2022, June 2022, Las Vegas, USA
- AO Trauma Research Symposium – Complex Trauma Management, Cairo, Egypt, February 2023
- The 6<sup>th</sup> Annual Specialties Conference, Department of Orthopedics & Trauma Surgery, May 2023, Assiut, Egypt
- Global Spine Congress (GSC) 2023, June 2023, Prague, Czech Republic
- The 43<sup>rd</sup> SICOT Orthopaedic World Congress, Cairo, Egypt, November 2023
- Global Spine Congress (GSC) 2024, May 2024, Bangkok, Thailand

## **Conference Organization**

- The 2<sup>nd</sup> Annual Specialties Conference, Department of Orthopedics & Trauma Surgery, April 2017, Assiut, Egypt
- Member of the scientific committee of the Global Spine Congress (GSC) 2024

## **Student Organizations**

During college, I was an active member of the Assiut Student Scientific Association (ASSA), which is a member of the IFMSA (International Federation of Medical Students Associations).

## **Voluntary Work**

I am a member of the Assiut Childhood and Development Association (ACDA), a Non-Governmental Organization that aims to care for handicapped children physically, socially, and mentally (<https://acdaegypt.com/>).

## Scientific Organizations Membership

- Member of the Egyptian Orthopaedic Association (EOA) since March 2018
- Member of AO Trauma since March 2018
- Associate member of the SICOT (Société Internationale de Chirurgie Orthopédique et de Traumatologie) since March 2018
- Member of AO Spine since November 2018
- Associate Member of the AOSpine Knowledge Forum Trauma and Infection, since June 2023

## Education

**As an assistant lecturer in the department of Orthopedics and Trauma Surgery, I am extensively involved in:**

- A biweekly held Orthopedic teaching rounds to final year medical students.
- A weekly teaching lecture for Orthopedic Residents and Assistant Lecturers.
- Postgraduate teaching for Orthopedic surgeons in Assiut University Hospitals.
- Helping in the research programs held at our department.

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## Surgical Experience

During the past six years, I was able to take part in a wide variety of surgical procedures exceeding 3000 operations, including:

### Operating surgeon

- **Spine Surgery**
  - Fixation of Thoracolumbar fractures, including decompression and dural tear repair
  - Lumbar intertransverse fusion
  - Lumbar interbody fusion
  - Lumbar decompression and discectomy
  - Anterior cervical discectomy and fusion
  - Anterior cervical corpectomy
  - Lateral mass screw fixation and cervical laminectomy
  - Percutaneous transpedicular screw fixation
  - Spinopelvic Fixation
- **Trauma Surgery**
  - Fixation of diaphyseal and complex intra-articular fractures and dislocations
  - Pelvic and Acetabular Fractures
  - Management of non-unions and malunions

Bone grafting (including iliac bone grafts, non-vascularized fibular grafts and allografts)

External fixation of open fracture and wound management

Fasciotomies

Management of polytraumatized patients

Various implant removal procedures

- **Arthroplasty**

Hip hemiarthroplasty

Total hip replacement

High tibial osteotomy

DAIR procedures (Debridement Antibiotics and Implant Retention)

Hip excision arthroplasty (Girdlestone procedure)

Knee arthrodesis

- **Arthroscopy**

Diagnostic knee arthroscopy

Arthroscopic meniscectomy

Diagnostic shoulder arthroscopy

Mini-open rotator cuff tear repair and biceps tenodesis

- **Foot and ankle surgery**

Ankle, subtalar and pantalar fusion

Ankle arthrodesis by Ilizarov

Tibialis anterior tendon transfer

Steindler procedure

Tendoachilles lengthening

Tendoachilles repair

- **Pediatric Surgery**

Eight plate epiphysiodesis

Adductor and hamstring lengthening

- **Hand and Reconstructive Microsurgery**

Tendon injury repair and grafting

Nerve injury repair and grafting

Carpal tunnel, cubital tunnel and Guyon canal release

Ulnar nerve anterior transposition

Incisional and excisional biopsies

Split and full-thickness skin grafts

Medial and lateral head gastrocnemius flaps

Proximal raw carpectomy

ORIF of various wrist and hand fracture

**1st assistant surgeon:**

1. Minimally invasive discectomy
2. Lumbar & thoracic corpectomy
3. Occipitocervical fusion
4. Surgical correction of congenital scoliosis and adolescent idiopathic scoliosis
5. Autologous cartilage implantation (ACI)
6. Total knee replacement
7. Free vascularized flaps
8. Bone transport by Ilizarov
9. Shoulder hemiarthroplasty
10. Arthroscopic ACL reconstruction
11. Shoulder arthroscopic surgeries (Bankart repair, SLAP repair, Rotator cuff repair, Subacromial decompression, AC joint excision, arthroscopic capsular release)