



# Dr. Dania A. M. Abdelhady

Assistant Professor of Medical Physiology

College of Medicine, Dubai Medical University, UAE

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## Professional Summary

Assistant Professor of Medical Physiology at Dubai Medical University with over a decade of academic and research experience in medical education and experimental physiology. Specialized in cardiovascular, metabolic, and hepatorenal physiology, with multiple Scopus-indexed publications. Experienced in curriculum design, quality assurance, student mentorship, and faculty development. Dedicated to integrating innovative teaching methodologies and promoting excellence in physiology education.

## Education

- 2025–Present – Master of Health Professional Education (MHPE), Dubai Medical University, UAE
- 2024 – Diploma in Medical Nutrition, National Nutrition Institute, Egypt
- 2020 – M.D. in Medical Physiology, Benha University, Egypt
- 2017 – M.Sc. in Medical Physiology (Excellent), Benha University, Egypt
- 2011 – M.B.B.S. in Medicine and Surgery (Excellent with Distinction), Benha University, Egypt

## Professional Experience

- Assistant Professor of Medical Physiology, College of Medicine, Dubai Medical University, UAE (2024–Present)
- Lecturer of Medical Physiology, College of Medicine, Badr University, Egypt (2022–2024)
- Lecturer of Medical Physiology, College of Medicine, Delta University, Egypt (2020–2022)
- Lecturer of Medical Physiology, College of Medicine, Benha University, Egypt (2020–Present)
- Assistant Lecturer of Medical Physiology, College of Medicine, Benha University, Egypt (2017–2020)
- Demonstrator, Department of Medical Physiology, College of Medicine, Benha University, Egypt (2012–2017)

- Postgraduate Internship (House Officer), Benha University Hospitals, Egypt (2011–2012)

### **Administrative & Leadership Roles**

- Coordinator, Gastrointestinal (GIT) Course, Dubai Medical University, UAE
- Research Supervisor and Mentor, Undergraduate Research Training Program, Dubai Medical University
- Member, Multiple Mini Interview (MMI) Admissions Committee, Dubai Medical University
- Faculty Representative, Disciplinary Committee, Dubai Medical University
- Cardiology Module Coordinator, Benha University, Egypt (2022)
- Quality Assurance Coordinator, Faculty of Medicine, Benha University, Egypt (2018–2020)
- Member, Curriculum Development Committee, Benha University, Egypt (2022)

### **Research Publications**

- Evaluation of the effects of monosodium glutamate overconsumption on liver, kidney, and heart functions of male rats: involvement of dyslipidemia, oxidative stress, and inflammation. *Journal of Xenobiotics*, 2025. (Scopus-indexed)
- Bee venom ameliorates gentamicin-induced kidney injury by restoring renal aquaporins and enhancing antioxidant and anti-inflammatory activities in rats. *Frontiers in Pharmacology*, 2025. (Scopus-indexed)
- Preferential therapeutic potential of *Ficus carica* against monosodium glutamate and metanil yellow-evoked hepato-renal injury: in vivo and in silico approaches. *Molecular Nutrition & Food Research*, 2025. (Scopus-indexed)
- From biomolecules to breakthroughs: exosomes as next-generation theranostics in female infertility. *Frontiers in Cell and Developmental Biology*, 2025. (Scopus-indexed)
- Ameliorative effects of quercetin against copper oxide nanoparticles-induced hepatic toxicity in albino rats. *Egyptian Journal of Veterinary Sciences*, 2025. (Scopus-indexed)
- Nephroprotective potential of ginger, diosmin, and their combination on induced diabetic nephropathy in a rat model: light and electron microscopic observations. *Egyptian Journal of Histology*, 2024. (Scopus-indexed)
- Nootkatone mitigated melamine-evoked hepatotoxicity by featuring oxidative stress and inflammation interconnected mechanisms: in vivo and in silico approaches. *Toxics*, 2023. (Scopus-indexed)
- Effect of pitavastatin on non-alcoholic fatty liver disease (NAFLD) in rats fed on high-fat high-fructose diet. 2023.
- Hepatorenal protective effect of dandelion (*Taraxacum officinale* L.) and its role in improving exercise capacity in type 2 diabetic albino rats: possible mechanisms. 2022.
- Risk and protective factors for ADHD in Damietta, Egypt. 2022.

- The potential cardioprotective role of erythropoietin in uremic cardiomyopathy targeting NF-κB of adult male albino rats. 2020.
- The potential effect of Vitamin D on rats with fatty liver induced by choline-deficient diet. 2017.

### **Professional Memberships & Committees**

- Member, Faculty Association, Dubai Medical University
- Member, Egyptian Society of Physiology and Clinical Physiology
- Member, National Committee for Medical Nutrition – Egypt
- Member, Quality Assurance Committee, Benha University (2018–2020)
- Member, Curriculum Development Committee, Benha University (2022)
- Member, Organizing Committee for Annual Medical Conferences, Benha University (2021–Present)

### **Awards & Recognition**

- Award for Research Presentation, 10th Annual Medical Conference, Benha University, 2023
- Certificate of Excellence in Teaching, Faculty of Medicine, Benha University, 2021
- Young Researcher Award Nominee, Physiology Department Annual Scientific Day, Benha University, 2020
- Academic Distinction Award (Excellent with Distinction), Benha University, 2011

### **Workshops & Professional Development**

- Workshop Speaker – MCQ Writing, Dubai Medical University, 2025
- Training – Augmented AI (XR & AI) in Medical Education, Dubai Medical University, 2025
- Workshop – Faculty Appraisal and Evaluation System (QAIE), Dubai Medical University, 2025
- Conference – 4th UAE Anatomy & Cellular Biology Conference, Dubai, 2025
- Conference – 4th Abu Dhabi Brain Conference, 2024
- Workshop – Enhancing Employability through Effective Pedagogies, Dubai Medical University, 2024
- Faculty Development – Course Files and Documentation, Dubai Medical University, 2025
- Workshop – Enhancing Student Engagement and Learning, Dubai Medical University, 2025

### **Technical Skills**

- SPSS – Statistical analysis (ANOVA, regression, correlation, non-parametric tests)

- GraphPad Prism – Data visualization and statistical interpretation
- Microsoft Office Suite – Word, Excel, PowerPoint (advanced user)
- EndNote / Mendeley – Reference management and citation formatting
- HTML – Basic web content creation (Benha University training, 2020)
- Zoom / Microsoft Teams / Google Meet – Virtual teaching and webinars