

# AYA MOGAHED ISSA ELSHAER

## Radiology & Medical Imaging Technologist

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### PROFILE

Dedicated researcher at the intersection of radiology and biology, focused on understanding the cellular effects of radiotherapy to advance cancer treatment technologies. Strongly interested in non-ionizing medical imaging modalities (MRI and ultrasound) for their safe, innovative, and rapidly evolving diagnostic potential. Passionate about translating scientific research into impactful healthcare solutions.

### EDUCATION

**B.Sc. in Radiology and Medical Imaging Technology** (2021-2025)

**CGPA: 3.88 / 4.00 (4<sup>th</sup> Rank with distinction and department honor)**

Faculty of Applied Medical Sciences, October 6 University, Egypt

#### Graduation Project:

*"Cytotoxic and Cell Cycle Modulatory Effects of Cranberry Extract and  $\gamma$ -Irradiation on A431 Carcinoma Cells: A Synergistic Approach for Cancer Therapy"*

Grade: Excellent (A)

#### Supervisors:

**Prof. Mohammed Abdalla Hussien** [Vice dean faculty of applied Health Sciences Technology, October 6 University].

**Dr. Mohammed Samieh** [Lecturer in the Department of Radiology and Medical Imaging, faculty of applied Health Sciences Technology, October 6 University].

#### Post graduate study

#### MSc in Radiobiology (Enrolled)

Medical Research Institute (MRI), Alexandria University.

### RESEARCH EXPERIENCE

**Graduation Research Project** (Oct 2024 - Present)

**Title:** Cytotoxic and Cell Cycle Modulatory Effects of Cranberry Extract and  $\gamma$ -Irradiation on A431 Carcinoma Cells.

**Institution:** October 6 University, Faculty of Applied Medical Sciences, Egypt

**Role:** Second Author

**Status:** Manuscript under preparation

It is a preclinical study exploring the radiosensitizing effect of cranberry extract combined with  $\gamma$ -irradiation on A431 carcinoma cells. Performed in vitro culture, cytotoxicity assays (MTT), flow cytometry, and  $\gamma$ -irradiation using Cs-137 source. Data analyzed to evaluate treatment synergy. Research aims to contribute novel approaches to adjuvant radiotherapy.

## RESEARCH & ACADEMIC SKILLS

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- Scientific writing and literature review
- Radiobiology techniques (Dose-Response Assessment)
- Medical imaging analysis
- Statistical data analysis (EXCEL)
- Poster, report and academic presentation skills
- Team-based lab collaboration and coordination

## CLINICAL TRAINING

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Baheya Foundation – 68 hours total - Nuclear Medicine & Radiotherapy Training	(September 2024)
Al Nas Hospital – Diagnostic Imaging Internship	(August 2024)
57357 Hospital – Diagnostic & Therapeutic Radiology, 90 hours	(September 2023)
Medix Foundation – 20 hours- Radiotherapy Program	(August 2023)

## CONFERENCES & WORKSHOPS

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Organizer 1st International Conference of Faculty of Applied Health Sciences Technology – O6U	(April 2025)
Future Imaging Innovations workshop – Smart Medical Academy	(April 2025)
Imaging Modalities & Radiation Safety workshop – ERSRQ	(June 2024)
Communication Skills in Healthcare workshop – O6U	(Dec 2023)
Organizer of Biomedical Equipment Conference – O6U	(March 2023)

## PROFESSIONAL MEMBERSHIPS

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Member – Egyptian Society of Radiation Safety and Quality (ESRSQ)	(Jul 2024)
Member – European Society of Radiology (ESR Friend)	(2023)

## CERTIFICATIONS

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### Training Certificates

▪ Diagnostic Radiology Techniques – Baheya Foundation – 48 hours	(Sept 2024)
▪ Radiology Training – Al Nas Hospital	(Aug 2024)
▪ Radiation Oncology Internship – 57357 Hospital – 60 hours	(Sept 2023)
▪ Diagnostic Radiology Internship – 57357 Hospital – 30 hours	(Sept 2023)
▪ Radiotherapy Program – Medix & Baheya – 20 hours	(Aug 2023)
▪ Blue Code & Emergency Response – Kaplan Academy – 24 hours	(July 2022)

### Online & International Courses

▪ Radiation Protection in Nuclear Medicine – IAEA	(July 2025)
▪ Nuclear Imaging of Brain Tumors – IAEA	(June 2025)
▪ Veterinary Radiography Basics – MindLuster	(Feb 2025)
▪ Overview of IAEA Safety Standards	(Jan 2025)
▪ PET/CT in Radiotherapy Planning – Siemens Healthineers	(Sept 2024)
▪ Radiation Protection – ISRRT	(July 2024)
▪ Digital Imaging Quality & Radiation Safety – ISRRT	(July 2024)
▪ Tips & Tricks: Radiation Protection in Radiography – IAEA	(July 2024)
▪ WHO: Standard Precautions & Meningitis	(July 2024)
▪ Patient Experience Forum – Everything MRI	(Sept 2024)

## **SKILLS**

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### **Technical Skills**

- Gamma irradiation (Cs-137)
- X-ray, CT, MRI imaging
- Nuclear medicine techniques
- Radiation protection & dosimetry
- Microsoft Office (Word, Excel, PowerPoint)
- Academic databases (Scopus, Google Scholar) and referencing tools

### **Soft Skills**

- Communication
- Teamwork
- Time management
- Critical thinking
- Organization, Accuracy and Attention to detail
- Academic commitment
- Adaptability

## **LANGUAGES**

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Arabic: Native

English: Excellent

German: A2