

CURRICULUM VITAE



Personal Information

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Address : Radiation Oncology and Nuclear Medicine Department, South Egypt
Cancer Institute, Assiut University, Assiut, Egypt.

Qualifications

- **Radiation Protection Expert (RPE0147M)**, Egyptian Nuclear and Radiological Regulatory Authority, Egypt, **February 2022**.
- **Ph. D. In Physics (Medical Radiation Physics)**, Faculty of Science, Assiut University, Egypt, **December 2013**.
Thesis title: "Dose Measurements to Develop the Applications of Radiotherapy Electron Beam using Radiographic Films".
- **Healthy Physicist (HP-63)**, Ministry of Health & Population – Egypt, **October 2010**.
- **M. Sc. In Physics (Medical Radiation Physics)**, Faculty of Science, Assiut University, Egypt, July 2010.
Thesis title: "Dose Measurement and Calculation of Asymmetric X-Ray Fields from Therapeutic Linac".
- **B. Sc. In Science (Physics and Mathematics)**, Faculty of Science, Assiut University, Egypt, June 1999.

Career History:

- **Manager of the Radiation Protection Unit**, South Egypt Cancer Institute, Assiut University, Egypt, (**From 2022 until now**).
- **Medical Physics Supervisor**, Radiotherapy and Nuclear Medicine Department, South Egypt Cancer Institute, Assiut University, Egypt, (**From 2020 until now**).
- Assistant Professor of Medical Radiation Physics, Department of Radiography and Medical Imaging Technology, Faculty of Applied Health Sciences Technology, Sphinx University, Assiut, Egypt, part time, (From 2022 to 2023).
- Assistant Professor of Medical Radiation Physics, Physics Department, Faculty of Science, Assiut University, Egypt, part time, (From 2019 to 2022).

- **Fellow (lecturer) of Medical Physics**, Radiotherapy and Nuclear Medicine Department, South Egypt Cancer Institute, Assiut University, Egypt, (**From 2018 until now**).
- **Assistant Professor of Medical Radiation Physics**, Physics Department, Faculty of Science, King Abdulaziz University, Kingdom Saudi Arabia, (**From 2015 to 2018**).
- **Medical Physicist & Assistant Curator of Radiation Protection committee**, Radiotherapy and Nuclear Medicine Department, South Egypt Cancer Institute, Assiut University, Egypt, (**From 2000 to 2015**).

Computer skills

Programming : Visual Basic, Visual C++, FORTRAN, Matlab,

MS Office : Word, Excel, Access, and Power point.

User Programs : Dos, Windows, UNIX, Linux, Internet and Computer's Hardware.

Training Courses

- **The Third Applied Radiation Physics and Radiotherapy Planning Course**, National Cancer Institute Cairo University, Cairo, Egypt, (3-8 Nov. 2001).
- **Using Radiation Isotopes and Ionizing Radiation Protection**, Egyptian Atomic Energy Authority, Cairo, Egypt, (8 Sep. - 10 Oct. 2001).

Job Expertise

- Teaching Postgraduate and undergraduate Courses of Medical Physics “**Radiation Therapy, Medical Radiation physics, Radiation Dosimetry, Radiation physics, General Physics, Nuclear Medicine, Quality Control and Radiation Protection, Dosimetry Technique, Instrumentation and Electric Measurement**”, (from 2015 until 2023)
- Radiation dosimetry and study of dynamic fields' characteristics like virtual or enhanced dynamic wedge and Intensity Modulator Radiation Therapy (IMRT).
- Study of new treatment planning techniques in the field of radiation oncology.
- Three-dimensional conformal radiation therapy (3D CRT), Intensity modulated radiation therapy (IMRT), Volumetric-modulated arc therapy (VMAT), and Image-guided radiation therapy (IGRT) treatment planning.
- Quality assurance of radiotherapy equipment.
- Understanding and teaching the treatment planning techniques.
- Data Commissioning and acceptance tests for Linear Accelerator.
- Quality assurance and acceptance tests for nuclear medicine and diagnostic radiology devices.

- Ionizing radiation protections - Radiation measurements for radiotherapy, nuclear medicine and diagnostic radiology - Designing and testing of Radiation shields for radiology rooms.
- Participation in the arbitration in the local of Assiut Governorate for **Intel International Science and Engineering Fair (ISEF)**, Egypt (2019, 2020, 2021, 2022, and 2023).

Conferences and Workshops

- **Eleventh Clinical Oncology and Nuclear Medicine Conference**, Annual international conference of Assiut Clinical Oncology department - Assiut University, Luxor, Egypt, (26-28 Feb. 2020).
- **The 10th international scientific conference of south Egypt Cancer Institute**, Cairo, Egypt, (24-26 Oct. 2018).
- **Eleventh Radiation Physics and Protection Conference**, Egyptian Atomic Energy Authority (EAEA), Cairo, Egypt, (25-28 Nov. 2012).
- **The Third Scientific Conference for Young Researchers**, Faculty of Science, Assiut University, Assiut, Egypt, (19-20 Apr. 2011).
- **Tenth Radiation Physics and Protection Conference**, Egyptian Atomic Energy Authority (EAEA), Cairo, Egypt, (27-30 Nov. 2010).
- **First Egyptian National Workshop on Decommissioning of Small Facilities and Research Reactors**, Egyptian Atomic Energy Authority (EAEA), Cairo, Egypt, (11-15 Jun. 2005).
- **Workshop on Material Science and Radiation Physics**, Assiut University, Assiut, Egypt, (20-22 Dec. 2003).
- **First National Seminar on Medical Physics**, Egyptian Atomic Energy Authority (EAEA), Cairo, Egypt, (16-17 Dec. 2002).
- **Sixth Radiation Physics and Protection Conference**, Assiut University, Assiut, Egypt, (27-30 Oct. 2002).

Publications:

1. **Mostafa A Hashem**, Aml S Allassdei, A Abu Sehly, A. Abu El-Fadl. “**Measuring and Assessing the Effect of a Carbon Fiber Couch on Radiotherapy Dose Distribution**” Assiut University Journal of Multidisciplinary Scientific Research (AUNJMSR), ID: AUNJ-2311-1070 (R1), (2024).
2. **Mostafa A. Hashem**, Aml S. Allassdei, A. Abu El-Fadl, A. Abu Sehly, Hossam A. Metwally. “**Measurement and Evaluation of the Impact of a Carbon Fiber Couch in Radiation Oncology**” Assiut University Journal of Multidisciplinary Scientific Research (AUNJMSR), Vol. 53(1): 22- 37 (2024).
3. **Mostafa A Hashem**, Moamen M. Aly, Ahmed L. El-Attar, Mahmoud A. Hefni, Mohamed I. Elsaid. “**The Effects of Paraffin Wedge Filters on The Electron Beam Therapy**”. Imperial Journal of Interdisciplinary Research (IJIR), 2:(3) 161-164 (2016).
4. **Mostafa A Hashem**, Ahmed L. El-Attar, Mahmoud A. Hefni, Mohamed I.

- Elsaid, Moamen M. Aly. “**Application of Virtual Wedge in Electron Beams of Mevatron Linear Accelerator**”. *International Journal of Applied Sciences and Engineering* 1:(2) 201-206 (2013).
5. Mohamed A Aboziada, **Mostafa A Hashem**, and Ahmed S Ahmed. “**Three dimensional CT-based evaluation of the supraclavicular and infraclavicular nodes and calculation of the administrated dose**”. *journal of Cancer Therapeutics and Research* 2 (2013).
 6. Hamza A Hamza Mohammad, Moamen M. O. M. Aly, and **Mostafa A. H. Soliman**. “**Asymmetric open field-in-field can replace wedged fields in tangential whole breast irradiation**”. *Gastric & Breast Cancer* 10:(4) (2011).
 7. Ahmed L. El-Attar, Mostafa E. Abdel-Wanees, and **Mostafa A. Hashem**. “**Dose Measurement and Calculation of Asymmetric X-Ray Fields from Therapeutic LINAC**”. *Arab Journal of Nuclear Sciences and Applications* 44: 367-374 (2011).
 8. Zienab E Mounir, Galal S. Hassan, Ahmed S. Ahmed, and **Mostafa A. Hashem**. “**Measurements and Calculation for Different Electron beam Shielding Block Shapes in Therapeutic LINAC**”. *Arab Journal of Nuclear Sciences and Applications* 36: 319-324 (2003).