

Eman Amin Abdel Zaher Alhogaraty

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Professional Summery

Medical Physicist with 15 years of experience with PhD degree .

Adept at planning research projects and operating with different TPS (Monaco and Eclipse) expert in VMAT, IMRT, SRS, Conformal planning and HDR Brachytherapy.

User for different dosimetry system and multiple LINAC (Varian and Elekta series). Performed acceptance, commission and Machine QA of different LINAC and patient QA.

I would enhance my professional capabilities, increase my practical experience in Medical physics through many topics some of this: Small field size dosimetry, Monte Carlo simulation. Adaptive radiation therapy (ART) Stereotactic radiation therapy and Different types of imaging. Exert my effort in cooperating with members of the Medical physicist team to help patients from different cultures and hopefully to form new friendships.

If given this chance, I would make my best to share in achieving the goal of the team.

Personal data

- Date of birth : 2/8/1983
- Nationality: Egyptian.
- Marital status: Married.

Skills

- Application of treatment planning systems and dosimetry software
- Operating system: Windows and Proficient in Office including Word, Excel and Power Point
- Programming language: C++ (fair), beginner user in python.
- Communication Skills.

Experience

Senior Medical Physicist (specialist) at Kasr Al-Ainy Center of Radiation Oncology and Nuclear Medicine (NEMROCK), Cairo University Hospital. (Oct.2005- current)

- Acceptance, commissioning and quality assurance of simulator and Teletherapy machines, data transfer to planning systems.
- Treatment planning techniques optimization, plan analysis and evaluation. VMAT and IMRT planning and quality assurance.

- SRS planning (Brain Lab), delivery and quality assurance.
- Dose calculation formalism.
- Radiation protection (regulatory, radiation survey and personal monitoring).
- Brachytherapy – manual dose calculation – Amersham system.
- HDR Planning and quality assurance.
- Lecturer for “Physics in Radiation Oncology” and Teaching practical lectures.
- Created reports with research findings for publications in scientific journals.
- **Dosimetric experience:**
- Acceptance, commissioning and Q.A. of different machines like Elekta Synergy® Platform, Elekta Precise Linac, Varian Linac Unique, DBX & 600c and Co-60 Unit machine (Phonix model).
- Wellhoffer (WP700, Omni Pro), PTW relative and absolute and PTW OCTAVIUS 4D IMRT dosimetry system .
- Film dosimetry and Portal dosimetry
- **Radiotherapy treatment experience:**
- Monaco, XiO, Eclipse, CadPlan, and BrainLab planning systems. Compu-Automatic Cutter (Autimo 2D), Elekta Portal image iViewGT and Varian portal vision dosimetry.
- Aria and MOSIQUE network System.
- HDR Brachytherapy Eckert & Ziegler.
- **Radiotherapy protection experience:**
- TLD Al-Nor system for radiation protection.
- **Academic experience:**
- Lecturer for “Physics in Radiation Oncology” course at Kasr Al- Ainy Center of Radiation Oncology and Nuclear Medicine (NEMROCK), Faculty of Medicine, Cairo University.
- Teaching practical lectures for first & second post-graduate Medical students at Kasr Al- Ainy Center of Radiation Oncology and Nuclear Medicine (NEMROCK), Faculty of Medicine, Cairo University.

Consultant Medical Physicist at Al-salam oncology Center in Al-salam Specialized Hospital Ministry of Health (Mar. 2019-current)

- Treatment planning techniques optimization, plan analysis and evaluation. Conformal and IMRT planning and quality assurance, delivery and quality assurance.
- Dose calculation formalism.
- Monaco TPS and MOSIQUE network User

Associated Lecture for Physics Faculty of dentistry at MSA University (sep.2017-Janu.2019)

- Taught undergraduate students foundational concepts such as mechanics, electricity, and magnetism.
- Evaluated and graded students' class work, laboratory work, assignments, and papers.
- Maintained regularly scheduled office hours to advise and assist students.

Education

B.Sc. of Biophysics Faculty of Science, Cairo University (May 2005)

Very Good 80.5 %. Rank on department: 7th

Grade of last year: Excellent (87.7 %)

Project of graduation: " Correction of Obliquity Problem in Photon Beam & Electron Treatment Planning" (Excellent).

M.Sc of Medical biophysics Faculty of Science, Cairo University (January 2010)

thesis title: " Electron Contamination Scatter Factor From Different Teletherapy Machines" .

Pre - Master courses 2006-2007 with grade Very good.

PhD. in medical Biophysics Faculty of Science, Cairo University (January 2019)

Pre - PhD courses 2010-2011 with grade very good.

PhD thesis title: " Comparative Skin Dose Measurements in Different Radiotherapy Techniques"

Accomplishments

- Kasr Al Ainy Center of Radiation Oncology Training course on Treatment Planning Techniques (2D & 3D) Dose Calculation, Q.A For Linac & Co-60 Machines, Radiation Protection, Stereotaxy, Dosimetry and Gamma Camera (15 Jul. to 30 Aug. 2004 & 1-Jul. to 15 Oct. 2005).
- Preparing Plans For Radiation Emergency Cases At Egyptian Atomic Energy Authority EAEA (21 to 25 May 2006).
- Varian Training Course On Eclipse Planning System at NEMROCK (17 to 21 Dec. 2006).
- ESTRO Teaching Course "Evidence- Based Radiation Therapy: Methodological Basis and Clinical Application" (16 to 21 Feb. 2008).
- ESTRO Teaching Course "Brachtherapy" (22 to 26 Mar. 2009).
- Varian Training Course on Aria (24 Hours) , Portal Vision (3 Hours) And Portal Dosimetry (15 Hours) at NEMROCK (4 to 14 Oct. 2009).
- Radiation Protection Training Course at NEMROCK (20 Sep. to 20 Oct. 2009).
- Training Course in MOSIQE at NEMROCK (Jun.-2015).
- Training Course on Small Field Dosimetry held in Argonne National Laboratory (IAEA) and University of Chicago Hospital, Illinois, USA (10 to 14 DEC.-2015).
- 2016 Best of ASCO (EGYPT) (27-29 Oct. 2016).
- 2016 Best of ASTRO EGYPT (27-29 Oct. 2016).
- Trainer at Medical physics and radiation physics application training course (36 Hours) (20-Jun to 10-Feb 2018).
- Training course on Monaco Planning system Nasser Institute (Mar. 2019).
- Training on HDR Brachytherapy Eckert & Ziegler (May 2019).
- Training course on Monaco Planning system Al-salam Hospital (Oct. 2019).
- Training course on MOSIQE at Al-salam Hospital (Nov. 2019).
- Training course on iViewGT at Al-salam Hospital (Nov. 2019).
- Go Live for Synergy Linear accelerator at Al-salam Hospital (Dec. 2019).

Conferences and Workshops

- Annual Scientific Conference of Kasr Al-Ainy Center Of Radiation Oncology, NEMROCK (1-4 Dec.2006) Cairo, Egypt.
- NEMROCK Workshop on High Precisian Radiation Therapy (5-6 Dec. 2006). Cairo, Egypt. Annual Scientific Conference of Kasr Al-Ainy Center of Radiation Oncology NEMROCK (30 Sep. to 2 Oct 2009) Cairo, Egypt.
- IRPA- Egypt Radiation Protection Workshop at Egyptian Atomic Energy Authority. EAEA (10-12 Jun.2010).
- Participated as a Lecturer in Medical Physics Training Course for Junior Physicists and Under Graduate Students (Dec. 2014). Cairo, Egypt.
- Annual Scientific Conference of Kasr Al-Ainy Center of Radiation Oncology NEMROCK (May 2015) Cairo, Egypt.
- Participated as a Lecturer in Breast 3D Radiation Educational Day Kasr Al- Ainy Center of Radiation Oncology and Nuclear Medicine (NEMROCK) (Jun. 2015) Cairo, Egypt.
- Annual Scientific Conference of Kasr Al-Ainy Center of Radiation Oncology NEMROCK (March 2017) Cairo, Egypt.
- Annual Scientific Conference of Kasr Al-Ainy Center of Radiation Oncology NEMROCK (March 2018) Cairo, Egypt.
- The 2018 Advanced Monaco Workshop held at NCI Cairo on June (20th- 21st, 2018).

References

1. **Prof. Dr. Wael M. Elshemey** (AAPM member).
(professor of Medical Physics at the Department of Biophysics, Faculty of science, Cairo University)
Tel: 002 01001560029 Email: welshemey@sci.cu.edu.eg
2. **Dr. Rania Mohamed Moussa**
(Senior of Medical Physics Unite at Kasr Al-Ainy Center of Radiation Oncology and Nuclear Medicine (NEMROCK) , Faculty of Medicine, Cairo University Hospital)
Tel: 002 01027970555 Email: ranya_moussa@yahoo.com
3. **Dr. Ahmed Habash.** (Lecturer of Medical Physics at Kasr Al-Ainy Center of Radiation Oncology and Nuclear Medicine (NEMROCK) , Faculty of Medicine, Cairo University).
Tel: 00966556577133 Email: ah_habash@yahoo.com

Publications

- Salah Eldeen Elmesidy, Mohamad M Moussa, Dalia O Darwish, Heba A Khafagy, **Eman Amin** and Maha Kamal 2015: Accelerated concomitant boost conformal radiotherapy versus conventional sequential boost in patients with locally advanced inoperable non-small cell lung cancer **J Clin Oncol 33, ASCO, 2017**

- Talima. S, AL Daly M, **Alhogaraty E** :Axillary Irradiation in Breast Cancer; Does Meticulous Contouring Make A Difference? ,**Tumori Journal**, 2018 Vol. 104 (1S) 9.

Languages

- Arabic (Native).
- English (Very good).
- Germany (Fair).

Personality

Creative, able to accept risk, responsible and hard worker.

Enjoy working within a frame of duties, teamwork and research groups.

