

CURRICULAM VIATE

Ahmed mousa Jaafar

PERSONAL DATA

Born: 14/12/1986.Baghdad - Iraq

Nationality: Iraqi

Marital status: married.

Mobile: +9647707897901

Mail: Ahmedmoosajaafar@gmail.com

OBJECTIVE

Medical physicist has an experience in radiotherapy department and radiation protection, excellent communication, interpersonal and presentation skills, strong compelling motivation and desire to learn and excel .

QUALIFICATIONS

- ٢٠١٠ Bachelor Degree of physics (B.Sc.). Faculty of Science, Mustansiriyah University.
- ٢013 Master of Science (M.Sc.) in physics, Faculty of Science, Mustansiriyah University .
- 2022 PhD in Medical physics, Faculty of Science -Helwan University In title of “Assessment study on Monaco treatment planning system cost function and optimization processes for VMAT Radiotherapy.”

RELEVANT EXPERIENCE

I had the opportunity to work on four treatment planning system, three for the conformal 3 D, IMRT and VMAT (Xio, Monaco, Multidata and Eclipse), as well as the acceptance, commissioning and routine quality assurance programme of Linear Accelerator in different sites. During that period, I participate in many activities such as training, teaching, academic and .clinical research

My job duties and responsibilities include:

- Quality assurance programs of the therapeutic machines .
- Radiation protection duties in the department and hospital.
- Dose calculations using treatment planning systems for conformal therapy, IMRT, VMAT, SRS and SBRT .
- Radiation dosimetry and Dose calculation for Total Body Irradiation.
- Patient positioning verification using Electron portal Image device (EPID)
- Patient positioning verification using Electron portal Image device (EPID) and Cone Beam Computed Tomography (CBCT)
- Acceptance test and commissioning of radiotherapy machines and data transfer for treatment planning systems.
- Teaching Medical Physics for board students.
- Reviewer in: -
 - Radiation Physics and Chemistry Journal.
 - Journal of Radiation Research and Applied Sciences.
 - International Journal of Radiation Research.

EMPLOYMENT HISTORY**Last Position:**

2011-2015 Medical physicist at Radiotherapy Department, al- Amal National Hospital, Baghdad; Iraq.

2015-2018 Senior Medical physicist at Radiotherapy Department, Medical City Hospital, Baghdad; Iraq.

2018-2021 Medical physicist at Radiotherapy Department, 57357 Cancer Hospital, Cairo, Egypt.

Current position

Senior Medical physicist at Radiotherapy Department warith international cancer institute

Publications:

- 1- Saleh AF, **Jaffar AM**, Samoom NA, Mahmmmod MW. Effect Adding PVA Polymer on Structural and Optical Properties of TiO₂ Thin Films. Al-Nahrain Journal of Science. 2014;17(2):161-21.

- 2- **Jaafar AM**, Elsayed H, Khalil MM, Yaseen MN, Alshewered A, Ammar H. The influence of different kVs and phantoms on computed tomography number to relative electron density calibration curve for radiotherapy dose calculation. Precision Radiation Oncology. 2022 Dec;6(4):289-97.
- 3- **Jaafar AM**, Arif RK, Alabedi HH, Khalil MM, Yaseen MN, Ammar H. Comparing biological and physical cost functions in VMAT planning for pediatric nasopharyngeal cancer. Journal of Medical Imaging and Radiation Sciences. 2023 Sep 1;54(3):473-80.

Training courses and Workshops:

- 1- Training Course at the Al- Amal National hospital in the field of Applied Radiation Physics, 2011.
- 2 - Training Course organized by Elekta company in the field of radiotherapy technique, in Amman Jordan 2014.
- 3 - Training Course organized by Elekta company in the field of radiotherapy technique, in Amman Jordan 2014.
- 4 - Training course in radiotherapy in neolife center, Istanbul, Turkey, November 2014.
- 5 - Training course in Maysan center for tumors treatment, Amarah, Iraq, 2015.
- 6 - Training course in Lisbon, Portugal,2015.
- 7 – training sessions in radiologic diagnosis and radiotherapy treatment of cancer 2016
- 8 - training sessions in radiologic diagnosis and radiotherapy treatment of cancer 2017
- 9 - Workshop of linear accelerator beam data commissioning, Iraq 2017.
- 10 – effective communication and feedback techniques 2017.
- 11 - Medical physics program in Children Cancer Hospital Egypt 57357, 18 September 2019 to 18 September 2020, Cairo, Egypt.
- 12 - SAFE Europe Webinar Series: daily, monthly, and annual QA procedures for linear accelerators organized by EFRS CEO (P. Van Laer), 22 Jun 2021.
- 13 - Training course in the oncology information system, eclipse operations, true beam platform 2022.
- 14 –training course in mastering IMRT / VMAT of medical physicists 2022.
- 15 – training course in brachytherapy of medical physicists 2022.

Varieties

1. International computer driving license (ICDL).

2. American language course in defence language institute.
3. Human resource course (communication challenges – planning – time management – mind mapping).

REFERENCES

All Reference letters, documents, and certificates are present upon request.