



Sandhiya M

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Objective

To establish my career in a leading medical environment where I can contribute my best efforts and continually enhance my expertise through a proactive, dedicated, and self-driven approach in the fields of treatment Planning for EBRT and Brachytherapy, Quality Assurance, Radiation Protection and safety, Diagnostic radiology and Nuclear Medicine

Experience

Apollo Imperial Cancer Hospital, Bangalore

Intern Medical Physicist

JULY 2023 - AUGUST 2024

- Upgradation of Treatment planning system from Version 11.0.31 to Version 17.0.1
- Varian 600C Decommissioning
- Cyberknife Commissioning

American Oncology Institute at Sarvodaya Multi-speciality Hospital , Haryana

Medical Physicist

JULY 2025 - CURRENT

Treatment planning

Eclipse TPS and ARIA Workstation version 16 and 17.0.1. Perform clinical treatment plans for techniques such as 2D,3D-CRT,IMRT,VMAT, SBRT,SRT,ICBT,IVBT and electron therapy

Machines handled:

Linear accelerator:

- °Varian Truebeam STx (HD MLC)
- °Varian Clinac 600C (Millenium MLC)
- °Varian Unique (Millenium MLC)

HDR Afterloader Brachytherapy:

- °Varian Gamma MedPlus iX (Ir-192)

Equipments handled:

Radiation field analyzer:

- IBA Bluephantom
- PTW Beamscan
- Standard imaging Doseview

Radiation Dose Measuring Chambers, Detectors and Monitoring devices:

- Farmer and parallel plate chamber (Exradin A19 0.6cc chamber, PTW Markus, CC15 0.125cc chamber)
- Octavius phantom with 729 2D Array detector

Quality Assurance

- Proficient in Daily, weekly, Monthly QA of Medical Linear Accelerator and HDR brachytherapy
- Efficient in Patient specific QA using point dose measurements, 2D array detector and Portal dosimetry

Project

“Analysis of late radiation proctitis in cervical cancer patients after HDR Intracavitary Brachytherapy–A single institutional study”

Guide:Dr. Karthick Rajamanickam, M.D.(RT).,Director and Head, Thangam Cancer Center and Hospital,Namakkal, Tamilnadu, January-February,2023

Summer training

Mr.M.Shajahan, Chief Medical Physicist & RSO, Meenakshi Hospital, Thanjavur,July 2022

Education

Bharathiar University, Coimbatore

2021-2023

MSc.Medical Physics - **8.764 CGPA (Gold Medalist)**

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

2018-2021

Bsc.Physics - **9.02 CGPA**

Certificate course

•Certificate course on “Human Behavior”, NPTEL

Conference and webinars

•International Symposium on Medical and Radiation Physics - 20 to 25 July 2020 organized by Women's Christian College, Chennai

•Workshop on "Film dosimetry" - 4 November 2023, AMPI Karnataka Chapter and Kidwai Memorial Institute Of Oncology, Bangalore

•International Conference on Medical Physics - 2023,DAE Convention Centre, Mumbai, India

• Teaching Course Cum Workshop on External Beam Photon and Electron Radiation Reference Dosimetry,2024, Kidwai Memorial Institute of Oncology, Bangalore

•Rapidplan workshop, Association of Medical Physicists in India Conference (AMPICON), 2024, Hyderabad

•Radiation Safety in Nuclear Medicine Workshop, American Oncology Institute,2025

•An Update on AAPM TG Report 135.B: Quality Assurance for Robotic Radiosurgery, 2025,Accuracy Exchange Community Webinar series

• EFOMP webinar on radiobiology,The Rs of radiobiology from old to new, EFOMP early career,2024

Skills

•Microsoft office tools: Word, PowerPoint,Excel

•Statistical Package for Social sciences (SPSS) software

Certifications

eLORA RP - Atomic Energy Regulatory Board

Language

English- Speak,Read and write

Tamil- Speak ,Read and write

Kannada- Speak

Reference

Mr. M Prasanna Kumar – Chief Medical Physicist & RSO

Apollo Imperial Cancer Hospitals, Bangalore

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