Vineeth Muraleedharan

Radiation Therapist (RTT)

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Riyadh, Saudi Arabia (Current) | Kollam, Kerala, India (Permanent)

SUMMARY

Radiation Therapist (RTT) with over 5 years of clinical experience in image-guided and stereotactic radiation therapy (IGRT, IMRT, SBRT, SRS, VMAT) across CyberKnife, Tomotherapy and Linear Accelerator platforms. Experienced in staff training, mentorship and supervision of new staff and interns, patient scheduling during equipment downtime, and treatment chart and dose verification audits. Brings a unique blend of clinical expertise and technical insight, having built AI-driven software tools for radiation oncology workflows alongside clinical practice. HCPC (UK) and AERB eLORA (India) registered; based in Riyadh, Saudi Arabia, and pursuing SCFHS registration for clinical practice in the Kingdom.

CORE CLINICAL AND TECHNICAL SKILLS

Clinical Skills

- Treatment Techniques: IGRT, IMRT, SRS, SBRT, VMAT, TBI, 4DCT, Cone Beam CT (CBCT)
- Patient Positioning, Immobilization and Mould Room Accessory Handling
- CBCT Imaging and Report Writing, Treatment Planning Collaboration
- Patient-Specific QA and Treatment Chart/Dose Verification Audits
- Patient Care, Communication and Multidisciplinary Team Collaboration
- Staff Training, Mentorship and Clinical Supervision of New Staff and Interns
- Patient Scheduling and Contingency Planning during Equipment Downtime
- Radiation Safety Protocols and Regulatory Compliance

Technical Skills

- Treatment Units: CyberKnife M6 F1+, Tomotherapy (Tomo H, Radixact X9), Elekta Precise & Synergy with CBCT
- Brachytherapy: Nucletron Flexitron and Micro Selectron HDR Afterloaders
- Simulation and Imaging: CT Simulator (GE Optima 580W RT, 16-slice with Advantage 4DCT),
- PET CT Simulator (Siemens Biograph Horizon, 16-slice),
- Conventional Simulator (Nucletron Simulix Evolution),
- Diagnostic CT (Philips ICT Brilliance 256-slice, Siemens Somatom Emotion 16-slice)
- Equipment and Simulator Quality Assurance

EXPERIENCE

Amrita Institute of Medical Sciences and Research Centre, Kochi, India **11/2020 - 05/2026**
Radiation Therapist (RTT) Kochi, India

- Delivered radiation therapy and performed CBCT imaging across CyberKnife, Tomotherapy and Elekta linear accelerator platforms, following IGRT, IMRT, SBRT, SRS and VMAT protocols
- Collaborated with radiation oncologists, medical physicists and dosimetrists on treatment planning, accurately administered treatments per prescribed plans
- Monitored patient progress throughout treatment courses and recommended amendments to treatment plans when clinically indicated
- Supervised and mentored new staff and intern radiation therapists; taught and precepted students during clinical placements
- Coordinated and re-prioritized patient scheduling during machine failures and other technical downtime; triaged emergent cases to minimize delays
- Reviewed patient treatment files, plans and dose records, supported treatment chart and QA audits for safety and regulatory compliance
- Conducted equipment, simulator and patient-specific QA, including TBI, IGRT, VMAT and SRS, managed mould room accessories
- Explained treatment process, risks and side effects to patients and families, providing emotional support throughout treatment courses
- Received consistent positive feedback from patients for quality of care, compassion and professionalism
- Maintained up-to-date expertise in radiation therapy techniques, technologies and research to continually improve patient outcomes

EDUCATION

Amrita Vishwa Vidyapeetham University - Amrita Institute of Medical Sciences and Research Centre, Kochi **2016 - 2020**
Bachelor of Science, Medical Radiologic Technology (BSc. MRT) Kochi, India

- Project: Comparison of the Planning Target Volume based on 3-Dimensional and 4-Dimensional CT Images for Radiation Therapy in Lung Tumors; guided by Dr. Haridas M Nair, MD, Department of Radiation Oncology, AIMS Kochi

REGISTRATION & MEMBERSHIP

- Health and Care Professions Council (HCPC), UK - Registration No. RA094294
- E-Licensing of Radiation Applications (eLORA), Atomic Energy Regulatory Board (AERB), India - License No. 21-00031
- Saudi Commission for Health Specialties (SCFHS) - registration in process
- Association of Radiation Therapy Technologist of India (ARTTI) - Membership No. LM-1683/2023
- Indian Society of Radiographers and Technologists (ISRT) - Membership No. LM-GN12960/2021

CONFERENCE & PROFESSIONAL DEVELOPMENT

- LISTECHON 2025, Lissie Hospital, Kochi - February 2025
- 4th MVRCANCON, MVR Cancer Centre, Kozhikode - poster presenter, September 2023
- International Stereotactic Radiosurgery Society Conference, AIMS Kochi - August 2023
- ARTTICON 2020, National Conference of Radiotherapy Technologists, AIMS Kochi - December 2020