

A. David Perianayagam

M.Sc (Physics), Dip.R.P (BARC), YSF (TMH)

Senior Consultant Medical Physicist & Radiological Safety Officer III

NABL Assessor for ISO/IEC-17025:2017

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Professional Summary

Highly experienced and result-oriented Senior Medical Physicist with over 28 years in Radiation Oncology. Proven leadership in commissioning Linear Accelerators (LINACs), setting up advanced radiotherapy departments, and ensuring compliance with AERB regulations. Adept in advanced treatment planning (3DCRT, IMRT, VMAT, SBRT), department administration, radiation safety, and regulatory affairs.

Key Achievements

- Commissioned over 5 Linear Accelerators including Siemens Plus, Elekta Synergy, Platform, Infinity, Varian Clinac iX, and Varian DMX systems.
- Led end-to-end setup of modern cancer hospitals in India including Desun Hospital (Kolkata) and Kerudi Cancer Hospital (Bagalkot).
- Designed radiotherapy departments including bunker planning, AERB approvals, TPS setup, and QA protocols.
- Established image-based 3D HDR brachytherapy and implemented advanced planning systems like Monaco, Eclipse, and Oncentra.
- Effectively managed e-LORA compliance and safety protocols as RSO Level III across multiple centers.

Professional Experience

Chief Medical Physicist & RSO III | Asha Nursing Home, Rampurhat | Oct 2024 – June 2025

- Supervised AERB SLA construction of Halcyon Bold Linac, CT Simulator and other infrastructure for a new radiotherapy department. Planned the design and submitted the AERB site layout of PET-CT for NM facility.
- Managed AERB regulatory approvals, radiation installation supervision, and TLD-PMS implementation.

Chief Medical Physicist & RSO III | Desun Hospital, Kolkata | Nov 2021 – Jan 2024

- Commissioned Elekta Infinity Linac, HDR Flexitron, Siemens RT-CT Simulator, and 3D planning systems.
- Led full setup of radiation and nuclear medicine departments, AERB compliance, QA protocols, and clinical go-live.

Chief Medical Physicist & RSO III | Saroj Gupta Cancer Centre, Kolkata | Sept 2019 – Sept 2021

- Supervised all medical physics operations; modified HDR and LINAC bunkers and handled AERB approvals.
- Oversaw decommissioning, QA, and planning for IMRT, IGRT, RapidArc, and brachytherapy treatments.

Education

- M.Sc in Physics – Madras Christian College, Chennai (1995)
- Diploma in Radiological Physics (Dip.R.P) – BARC, Mumbai (1994)
- B.Sc in Physics – Sacred Heart College, Tirupattur (1991)
- Young Scientist Fellowship – Tata Memorial Hospital, Mumbai (2002)

Technical Skills

- LINAC Commissioning, QA & Calibration
- 3DCRT, IMRT, RapidArc, VMAT, SRS, SBRT
- TPS: Eclipse, Monaco, Oncentra, CMS Xio
- HDR Brachytherapy – Planning & QA
- e-LORA Regulatory Compliance (AERB)
- Department Setup, Radiation Safety, Dosimetry QA

Professional Memberships

Life Member – Association of Medical Physicists of India (AMPI)

Selected Publications

- “Relative Dosimetrical Verification in HDR Brachytherapy Using IMatriXX” – Journal of Medical Physics, 2011.
- “Source Strength Calibration of Co-60 HDR Brachy Unit” – Journal of Medical Physics, Supplement Vol. 32.
- “Dosimetric Comparison of VMAT vs IMRT” – ICC 2017 Poster, Bangalore.