



HRIDYA RAJ R

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A motivated professional of medical physics having experience in the fields of radiotherapy and nuclear medicine



ACADEMIA

- **MSc Radiation Physics**
University of Calicut, Calicut CGPA 6.9/10 **2013-2016**
- **BSc Physics**
MET Arts and Science College, Nadapuram CGPA 3.08/ 4 **2010-2013**

CERTIFICATION

- Radiological Safety Officer -medical(Govt.of India, BARC)

ACADEMIC PROJECTS

- Comparison Of Photoneutron Tracks Due To Flattened and Unflattened Beams In Medical Linear Accelerator”- In my study I have measured the neutron fluence with and without flattening filter in Elekta VERSA HD medical linear accelerator using cr-39 neutron detector **September 2016**

WORK HISTORY

- **Medical physicist, Kiran Multispecialty hospital, Surat, Gujarat** **November 2022 – Present**
- **Medical physicist, DDNMRC Pet scans Pvt. Ltd, Caritas Hospital Campus, Kottayam** **June 2018 to December 2018**
- **Medical physicist, Geethanjali Medical College and Hospital, Udaipur, Rajasthan** **April 2017 to April 2018**
- **Internship, Malabar Cancer center, Thalassery, Kannur** **October 2015 to October 2016**

CLINICAL WORK EXPERIENCE

- Experienced in VARIAN ETHOS (AI driven machine, AI based planning)
- Experience in operating VARIAN HALCYON, TRUEBEAM Clinac ix, Elekta VERSA HD, Microselectron HDR Brachytherapy unit, 4DCT- CT simulator, conventional simulator, Cobalt-60 -Theratron elite 80
- Experienced in 3DCRT, IMRT and VMAT (RapidArc) plannings in eclipse planning system (version 10)
- Experienced in Brachytherapy planning in oncentrabrachy planning system(version 4.3)(3D planning)
- Experienced in 3DCRT, VMA and Radiosurgery plannings in Monaco planning system (version 5.10.02)
- Actively participated in commissioning of Elekta VERSA-HD linac
- Worked in blood irradiator, BIOBEAM
- Familiar with all QAs in LINAC, COBALT-60 and HDR Brachytherapy machine and simulator
- Siemens Biograph True Point PETCT
- Radiation protection in Nuclear Medicine department

FAMILIAR QA EQUIPMENTS

- Radiation Field Analyzer –PTW MP3 and IBA, Sun Nuclear
- Octavius 4D with detector array -PTW (for patient specific QA)
- Octavius phantom with 729 2D array-PTW (for patient specific QA)

- Arc Check-Sunnuclear (for patient specific QA)
- Imatrix detector array (for patient specific QA)
- Quick check daily QA phantom (PTW)
- **Familiar detectors:** 0.125cc semiflex ion chamber, 0.6cc farmer chamber, marcus chamber, pin-point chamber diode detector and microdiamond detector
- **Familiar softwares:** Mephysto (for absolute and relative dosimetry), verisoft (for patient specific QA), Omni pro (IMRT QA verification)

CONFERENCES AND SEMINARS ATTENEDED

- Participated in 37th annual conference of Association Of Medical Physicists of India(AMPI)-2016 November at Hyderabad
- Participated in 36th annual conference of Association Of Medical Physicists of India(AMPI)-and preconference workshop, 2015 november at kovalam, Thiruvananthapuram
- Advanced radiation concepts-2015 on 8th Feb. 2015 at Malabar cancer centre, Thalassery
- Two day national workshop on Applications of Microcontrollers and Expeyes kit on march 27&28,2013 held on University of Calicut organized by Dept. of Physics and Inter University Accelerator Centre(IUAC), Delhi
- One Day National Seminar on Modern Trends in Energy Research and Applications, held on October 4, 2013 at University of Calicut, organized by Department of Physics

PUBLICATIONS

- A comparative Study of Photo-Neutron Production from Flattened and Unflattened beams in a Medical Linear Accelerator.RajeshK.R, M.M. Musthafa, HridyaRaj R, Naiby Joseph, R.Ganapathi Raman. Journal of Public health Research and Devolopement- December 2019.

LANGUAGES

- Malayalam – Mother tongue
- English – Fluent
- Tamil – Fluent
- Hindi – Working proficiency

“ I hereby declare that the above information's are true to best of my knowledge ”

Hridya Raj R

REFERENCES

Dr. RAJESH KR

Medical physicist and RSO
Department of radiation oncology
American Hospital
Dubai

Phone number.: 9895422128

Dr. SHANKER

Senior Consultant radiation oncology
Oncology Apollo Cancer
hospital, Chennai

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Dr. PANKAJ AGARWAL

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speciality hospital, Surat,
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