



# APARNA P

## MEDICAL PHYSICIST

### PERSONAL PROFILE

Medical physicist with six years of experience, including work practices in radiotherapy as well as radio-diagnosis. Possesses strong theoretical and practical knowledge in radiation physics.

### ACHIEVEMENTS

Won the best presentation award for a session on intraoperative radiotherapy (IORT) in the national seminar Advanced Radiotherapy Concepts (ARC 2015) at Malabar Cancer Centre (Thalassery, Kerala).

### PUBLICATIONS

- "A study of enhanced dynamic wedge dosimetry using a 2D ion chamber array detector." *Journal of Radiotherapy in Practice* 14.04 (2015): 394-402.
- Comparison of dose volumetric parameters of oesophagus in the treatment of Carcinoma breast with and without oesophagus delineation". *Journal of Radiotherapy in Practice and Published online by Cambridge University Press*: 01 October 2021.

### CONTACT

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### WORK EXPERIENCE

#### DOSIMETRIST

*National Cancer Centre, Singapore (NCCS) | Jun 2023 - Present*

#### LECTURER IN RADIATION PHYSICS

*Government TD Medical College, Alappuzha, Kerala, India | Jun 2019 - May 2023*

- Conducting periodic quality assurance tests for linear accelerator Varian Clinac iX with Eclipse treatment planning system.
- Doing external beam therapy planning using the radiation treatment techniques: 3DCRT, IMRT&VMAT.
- Training radiation professionals on various aspects of radiation safety.
- Teaching diploma students on radiation physics, radiobiology, and radio-diagnosis.

#### MEDICAL PHYSICIST

*Mangalore Institute of Oncology, Karnataka, India | Mar 2018 - Jun 2019*

- Conducting quality assurance tests for linear accelerator Varian Unique with Eclipse treatment planning system [v.15.6] and brachytherapy (Nucletron with Oncentra planning system).
- Doing external radiation therapy planning using the techniques; 3DCRT, IMRT & VMAT and brachytherapy planning.

#### MEDICAL PHYSICIST

*HLL Lifecare Limited, Thiruvananthapuram, Kerala, India | May 2016 - Jan 2018*

- Carrying out testing and calibration of radiology and radiotherapy equipment in various hospitals, including government medical colleges in Kerala, India.
- Doing technical bid evaluation of linear accelerators along with the senior biomedical engineers for many hospitals.

#### RESIDENT MEDICAL PHYSICIST

*Malabar Cancer Centre, Thalassery, Kerala, India | July 2014 - July 2015*

- Operating and performing quality assurance of Varian Clinac iX, Theratron Elite 80 Cobalt60 teletherapy unit and Nucletron Microselectron HDR brachytherapy unit.
- Doing external radiation therapy planning and brachytherapy planning.

### EDUCATION

#### MASTER OF SCIENCE, RADIATION PHYSICS

*Calicut University, Kerala, India | 2012 - 2014*

#### BACHELOR OF SCIENCE, PHYSICS

*Sri Vyasa NSS College, Thrissur (affiliated to Calicut University), Kerala, India | 2012 - 2014*