



# Christy Rajeev

## Radiotherapy Technologist

ARTTI member - LM-1487/2021

BSc. Radiotherapist graduate with two years of work experience and expertise in advanced radiotherapy techniques and machines

## Experience

Internship, CMC Vellore ( Dec 2019 - Dec2020 )

Radiotherapy Technologist, CMC Vellore ( Jan 2021- present )

## Contact

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### Address

Parampath (H)  
Vengassery P.O  
Ottapalam, Palakkad, KL, IN

## Education

2019

### BSc. Radiotherapy

Christian Medical College, Vellore, TN

2015

### High School + Higher Secondary

Jawahar Navodaya Vidyalaya, Palakkad

## Skills

- Professional
- Multilingual
- Self Driven
- Team Player
- Time Management
- Empathetic

## Language

English

Malayalam

Hindi

Tamil

## Machines Handled

- Simulator (Varian)
- CT Simulator (Varian)
- Equinox 780
- Primus - Linear Accelerator (Siemens)
- Clinac 2100/D - Linear Accelerator (Varian)
- Truebeam STX (Varian)
- Microselectron HDR
- CT Simulator (GE)
- Tomotherapy (Accuray)

## Special Procedures

- Total Marrow and Lymphoid Irradiation (TMLI)
- Total Body Irradiation (TBI)
- Stereotactic RadioSurgery (SRS)
- Stereotactic Radiotherapy (SRT)
- Stereotactic Body Radiotherapy (SBRT/SABR)
- Total Skin Electron Therapy (TSET)
- Intensity-Modulated Radiotherapy (IMRT)
- Volumetric Arc Therapy (VMAT)
- Deep Inspiration Breath Hold (DIBH)
- Four-Dimensional Computed Tomography (4DCT)

## Techniques Used

- Single Field - Photons & Electrons
- Parallel Opposed Pair Fields
- Perpendicular Wedge Fields
- Oblique Field
- Extended Distance Fields
- Four Field Box Technique

- Craniospinal Fields
- Tangential Field For Breast Treatment
- Conformal Therapy

## ○ Calculations

- Single Field
- Parallel Opposed Fields
- Electron Field
- Stanford Technique

## ○ Responsibilities Handled

### 1. MOULD ROOM

- Preparation of Immobilization Mask
- Preparation of LMPA Blocks using Styrofoam Cutter
- Preparation of Vaccum Cushion for Immobilization of Vaccum Cushion For Immobilization (Hemibody, Extremities, Pediatric, Whole Body for TMLI)
- Preparation of Electron Cutouts with Cerrobond
- Preparation of GTC Frame for SRT
- Preparation of Bolus (Wax & Gel)

### 2. SIMULATORS

- 3 Dimensional & 2 Dimensional Simulation
- Preparation of Patient for Simulation
- Pre-Treatment Planning Advice to patients and Explaining side effects of Radiation Therapy
- Liaising with Radiation Oncologist during Simulation
- Taking Simulator Films
- Fluoroscopy Images
- Taking Manual Contours
- Patient Positioning and Immobilization
- Imaging by Computer Tomography
- Contrast Enhanced Computer Tomography
- Four-Dimensional Computed Tomography
- Reconstruction of Images
- Deep Inspirational Breath Hold Training and Imaging
- Total Marrow and Lymphoid Irradiation Simulation

### 3. TELETHERAPY MACHINES

- Safe handling of machines
- Daily Quality Assurance
- Patient Verification
- Explaining the steps and procedures of Radiation Therapy to patients
- Plan Verification in the system
- Light field checking prior to the treatment
- Positioning of the patient in the treatment couch with proper immobilization
- Verification, Treatment and Recording of each fraction.
- Image verification by On-Board Imager (OBI) or Cone Beam Computed Tomography (CBCT)
- Treatment Execution
- Advising patients to have regular check-ups and referring to the oncologist in case of any major side effects
- Checking the changes in Body Contour and Immobilization, which can demand a change in Plan

### 4. BRACHYTHERAPY

- Preparation of Applicators
- Taking Orthogonal Verification Films
- Taking CT Images
- Liaising Oncologist in Theatre for Application Fixation
- Performing Quality Assurance for Microselectron
- Connecting Transfer Cables
- Treatment Execution

### Additional Responsibilities

- Educating Patients and Explaining Health & Safety standards to Patients, Staff and Visitors.
- Assisting Senior Radiotherapists in Treatment.
- Making Templates
- Performing Thermoluminescent Dosimetry
- Training Student Radiographers

- Participate in Weekend On-Call duty
- To observe that the rules of safety are being met.
- To ensure that a written report of an accident or similar incident is given to the service manager
- Presenting Papers on new Radiotherapy Techniques in Department's Scientific Sessions
- Teaching Radiotherapy Techniques and Patient Care to students

## ○ Achievements & Co - Curricular

- General Proficiency Second Rank in 3rd Year BSc. Radiotherapy Technology During the period 2019-2020
- Attended "International Symposium on Emerging Trends in Radiotherapy Pathways to the Future"(ISETRT -2019)
- Virtually Participated in Silver Jubilee Artticon-2021 & 25th National Conference of Association of Radiotherapy Technologists of India and Global Meet of Radiation Therapists.
- Attended Secondary Hospital Exposure at International Cancer Centre Neyyoor in 2019 (Elekta Precise Linear Accelerator Unit)
- Attended CME in Radiation Oncology -"Lessons from Past,Mirror for the Present,Vision for the Future"

## ○ Personal Details

Name: Christy Rajeev

Sex: Female

DOB: 23/01/1998

Marital Status: Unmarried

Nationality: Indian

## References

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### **Dr. Finlay Godson**

Lecturer, Radiological Physics, CMC Vellore

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### **Dr. Paul Raveendran Ph.D**

Chief Medical Physicist & Head, Allied  
Health and Sciences, CIHSR,  
Dimagpur, Nagaland

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### **Dr. Balu Krishna Sasidharan MBBS MD DNB DMRT**

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Radiation Oncology unit 2  
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