Overview

Radiation therapy uses radiation to damage the DNA of cells. This kills the cancer cells or stops them from reproducing. It is used to treat many types of cancer. It is estimated that 50% of cancer patients will receive radiation during treatment for their cancer and it is also called a localized treatment because it treats a specific area of the body where the cancer is growing. Hence education about Radiotherapy is highly essential in creating awareness and proficiency. Hence the present workshop by the distinguished speaker with international expertise will be an indispensable source for students and practitioners of this complex and challenging modality. The workshop will describe the rapid evolution of this technique as an essential element in the multidisciplinary technique in a comprehensive manner and thoroughly up-to-date.

Program Schedule

Days: January 4th – 9th, 2021

Time: 1:30 pm - 3:00 pm

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics To Be Covered</th>
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<tbody>
<tr>
<td>4th January 2021</td>
<td>Introduction to Radiotherapy</td>
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<tr>
<td>5th January 2021</td>
<td>Calibration of $^{60}$Co and High energy photon</td>
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<tr>
<td>6th January 2021</td>
<td>Conventional and Modern Treatment Planning</td>
</tr>
<tr>
<td>7th January 2021</td>
<td>Basics of Brachytherapy</td>
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<tr>
<td>8th January 2021</td>
<td>Treatment Planning Algorithms</td>
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<tr>
<td>9th January 2021</td>
<td>Practical Treatment Planning</td>
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Foreign Faculty

Prabhakar Ramachandran, PhD
Director of Medical Physics
Department of Radiation Oncology
Princess Alexandra Hospital
Brisbane, Australia 4102
prabhakar.ramachandran@health.qld.gov.au
+61 7 3176 6574

Areas of Interest

- External Beam Radiotherapy
- Electronic Brachytherapy
- Gamma Knife
- Deep Learning in Radiation Oncology
- In-vivo Dosimetry (EPR, TLD, OSLD)

External Beam

- Acceptance, Commissioning, Monthly and annual linear accelerator quality assurance (Varian & Elekta Linacs), and treatment machine calls.
- 3D treatment planning, plan and monitor unit checks, and weekly chart checks.
- IGRT, Adaptive RT, IMRT, SRS / SRT, SBRT, VMAT, TSET

Brachytherapy

HDR
- Designed and developed eBrachy program at the Peter MacCallum Cancer Centre
- LDR/MDR/HDR/PDR

Radiation Safety Officer

Credentials

- PhD (Medical Physics), All India Institute of Medical Sciences, 2006
- MSc (Medical Physics), Anna University, 1994-1996
- M.E (Elec.), La Trobe University, 2018
- MCA, 2003
- Board Certification: Therapeutic Radiological Physics, American Board of Radiology, 2013
- ACPSEM ROMP Accreditation, 2012
- ARPS Radiation Safety Certification, 2014
Co-Coordinators

Dr. S. Ganesan is the Professor of Medical Physics in Department of Medical Physics, Anna University Chennai. He is the recipient of prestigious BOYSCAST award by DST during 1994. He has more than 150 international publications in reputed journals and he has guided 25 research students. His area of Research Interest is Bio photonics, Radiation Dosimetry and other allied Sciences.

Dr. P. Aruna is the Professor and Head, Department of Medical Physics, Anna University, Chennai. She has received Ph.D. degree from Anna University in 1991. She is the recipient of the prestigious BOYSCAST award from DST in 1998. She has guided 11 doctoral candidates and 150 post graduate projects of MDS, M.Tech., M.Phil.&M.Sc. students in the field of Mediphotonics. Her research interests include fluoroscopy and spectroscopy based techniques for cancer diagnosis. She has published more than 100 papers in national and international journals.

Contact Details

Prof. Dr. Aruna
Professor and Head
Department of Medical Physics
Anna University, Chennai-600025
Mobile:+91 9840776274
Email: arunaprakasarao@gmail.com

Prof. S. Ganesan
Director Health Centre &
Professor, Department of Medical Physics
Anna University, Chennai-600025
Mobile:+91 9444412270
Email: singaravelu.ganesan@gmail.com

Who can attend?
- PG students (Physics and Medical Physics)

Registration: Interested Participants can register through GOOGLE FORM
https://forms.gle/m1R4cJcjqXyyqUuM6

to receive the link to join the workshop.

Last date for Registration: On or before 02.01.2021

RegistrationFee :NIL