Module 5:
Applications of Radioisotopes in Healthcare

Dr. N. Ramamoorthy

ABOUT INSTRUCTOR:

Dr. N. Ramamoorthy has made significant contributions to development of radiochemical separation procedures for radioisotopes and radionuclide generators, apart from making extensive contributions in the field of radiopharmaceuticals used in nuclear medicine. He had worked extensively on Technetium-99m generators, Tc-99m products and kits for medical applications. He has provided leadership to the development and launch of therapeutic products as well as launch of cyclotron based products. During 1986-2001, as Faculty for BARC-RMC PG Courses DRM and DMRIT, he contributed to HRD for nuclear medicine.

During 1999-2000, he was the President of the Society of Nuclear Medicine, India. During 1999-2003, he held concurrently leadership responsibilities for the radioisotope and radiation technology programme at BRIT and BARC, and steered R&D work on many new products, including Lutetium-177 for therapy, and played a key role in setting up the medical cyclotron and associated radiopharmaceutical facility and in propagation of radiation processing for various applications. He nurtured synergies between Radiopharmaceutical Division and RMC, and later between BARC and BRIT. He has mentored and motivated a number of students, scientists, physicians and engineers under his guidance and leadership.

He was a research guide in Chemistry of University of Bombay; seven students obtained PhD and five students M.Sc. degree under his guidance. During Oct 2003 to March 2011, he served the IAEA as Director, NAPC and led its programmes on ‘Nuclear Science’ and ‘RI Production and Radiation Technology’ and received acclaim for harnessing synergies in supporting IAEA Member States in the utilisation of research reactors and in radiopharmaceutical development & deployment. His career accomplishments are borne out from his numerous publications, four books compiled/edited by him, invited talks, and many awards received in India and at IAEA.

MODULE PLAN:

1. **Applications of Radioisotopes in Healthcare - 5 Lectures**