



ESTRO

11th AROI-ESTRO

**Teaching Course on
Advanced Technologies in
Radiation Oncology**

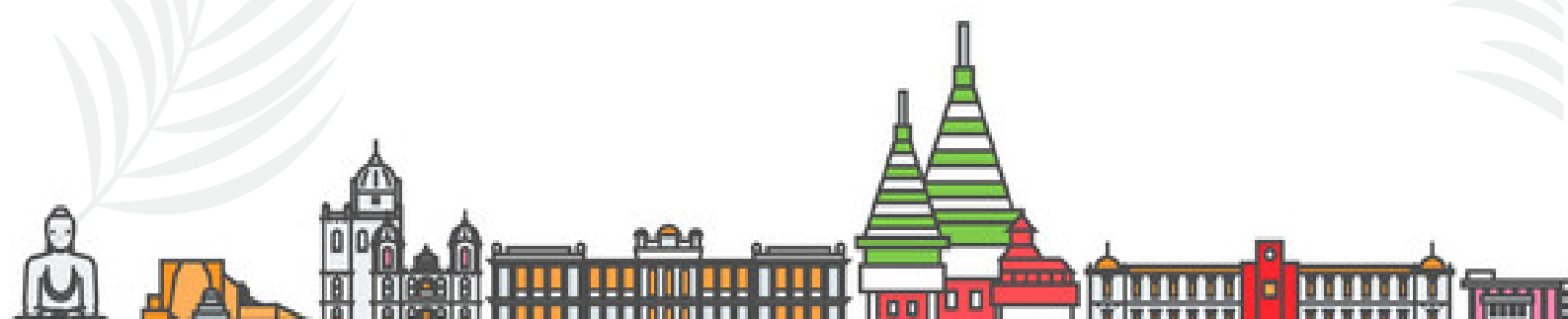
**Theme:
Closing the gap with advancing technology**

**5TH - 8TH DECEMBER 2024
Auditorium, AIIMS, Patna**



TIME	TOPIC/FACULTY
09:00 am - 09:10 am	Course Introduction Dr. Ben Heijmen, Dr. Indranil Mallick
09:10 am - 09:40 am	Clinical Rationale for using advanced technologies Speaker: Dr. Andrew Hope
09:40 am - 10:10 am	Principles, opportunities and challenges of incorporating modern imaging in target definition Speaker: Dr. Tejpal Gupta
10:10 am - 10:50 am	Errors and margins in your clinical practice Speaker: Dr. Santam Chakraborty
10:50 am - 11:10 am	Inauguration
11:10 am - 11:30 am	Break
11:30 am - 12:10 pm	Correction strategies for interfraction tumor setup variations in external beam radiotherapy Speaker: Dr. Mairead Daly (Dr. Ben Heijmen)
12:10 pm - 12:50 pm	Respiratory Motion Management - Principles and practice Speaker: Dr. Andrew Hope
12:50 pm - 01:10 pm	Discussion and take home points Discussants: Dr. Pritanjali Singh, Dr. Jyotirup Goswami
01:10 pm - 02:00 pm	Lunch
02:00 pm - 02:30 pm	IMRT Delivery techniques Speaker: Dr. Ben Heijmen
02:30 pm - 03:15 pm	IMRT Plan evaluation Speaker: Dr. Indranil Mallick
03.15 pm -3.45 pm	Break
03:45 pm - 05:15 pm	Clinical Session: How to develop sitewise protocols for PTV margins and image guidance in your department - Head and Neck Cancers, Gyne and Prostate Cancer Speaker: Dr. Mairead Daly / Dr. Prakash Umbarkar (Dr. Indranil / Dr. Andrew / Dr. Santam)
05:15 pm - 05:35pm	Discussion and take home points Discussants: Dr. Tanweer Shahid, Dr. Anil Anand

TIME	TOPIC/FACULTY
09:00 am - 09:40 am	Stereotactic (body) radiotherapy - definition, radiobiology, physics and technology Speaker: Dr. Tharmar Ganesh
09:40 am - 10:10 am	Frameless IGRT and Stereotactic RT Speaker: Dr. Andrew Hope
10:10 am - 10:50 am	Introduction to Biophysical models Speaker: Dr. Ben Heijmen
10:50 am - 11:20 am	Break
11:20 am - 11:50 am	Particle therapy - Physics, Technology and Radiobiology Speaker: Dr. Ben Heijmen
11:50 am - 12:40 pm	Particle therapy - Clinical Applications - Opportunities, evidence and challenges Speaker: Dr. Tejpal Gupta
12:40 pm - 01:00 pm	Discussion and take home points Discussants: Dr. Pritanjali Singh, Dr. Tanweer Shahid
01:00 pm - 02:00 pm	Lunch
02:00 pm - 03:20 pm	Clinical Session: Lung SBRT (indications, selected contours and dose constraints)" Speaker: Dr. Andrew Hope
03:20 pm - 03:50 pm	Break
03:50 pm - 05:10 pm	Clinical Session: Cranial SRS (OARs and constraints, gamma-knife vs linac based, QA)" Speaker: Dr. Tejpal Gupta
05:10 pm - 05:30 pm	Discussion and take home points Discussants: Dr. Pritanjali Singh, Dr. Ben Heijmen, Dr. Mairead Daly



TIME	TOPIC/FACULTY
09:00 am - 09:40 am	Surface Guided Radiation Therapy Speaker: Dr. Ben Heijmen
09:40 am - 10:00 am	Adaptive Radiation Therapy principles Speaker: Dr. Indranil Mallick
10:00 am - 10:30 am	CT based adaptive RT - Technology Speaker: Dr. Sai Subramanian
10:30 am - 11:00 am	CT based adaptive RT - Implementation Speaker: Dr. Prakash Umbarkar
11:00 am - 11:30 am	Break
11:30 am - 12:00 pm	MR Linac based adaptive RT - Technology Speaker: Dr. Sai Subramanian
12:00 pm - 12:30 pm	MR Linac based adaptive RT - Implementation Speaker: Dr. Mairead Daly
12:30 pm - 12:50 pm	Adaptive Radiation Therapy - What is the evidence for clinical benefit? Speaker: Dr. Anil Anand
12:50 pm - 01:10 pm	Discussion and take home points Discussants: Dr. Indranil Mallick, Dr. Andrew Hope
01:10 pm - 02:10 pm	Lunch
02:10 pm - 03:30 pm	Clinical Session: Breast DIBH and IMRT Speaker: Dr. Santam Chakraborty
03:30 pm - 03:50 pm	Break
03:50 pm - 05:10 pm	Clinical Session: Liver SBRT (indications, liver toxicity and dose constraints, respiratory motion management during scanning and delivery) Speaker: Dr. Supriya Chopra
05:10 pm - 05:30 pm	Discussion and take home points Discussants: Dr. Tanweer Shahid, Dr. Jyotirup Goswami, Dr. Mairead Daly



TIME	TOPIC/FACULTY
09:00 am - 09:30 am	Automated Treatment Planning Speaker: Dr. Ben Heijmen
09:30 am - 10:00 am	AI in Radiation Oncology: Potential applications Speaker: Dr. Andrew Hope
10:00 am - 10:30 am	AI for contouring Speaker: Dr. Santam Chakraborty
10:30 am - 11:00 am	Transitioning to Advanced Technology: Impact analysis of workflow and clinical analysis Speaker: Dr. Supriya Chopra
11:00 am - 11:30 am	Break
11:30 am - 12:00 pm	How should we design clinical trials to assess new technology? Speaker: Dr. Jyotirup Goswami
12:00 pm - 12:20 pm	On the horizon: Heavy Ions Speaker: Dr. Ben Heijmen
12:20 pm - 12:40 pm	On the horizon: Flash Therapy Speaker: Dr. Tharmar Ganesh
12:40 pm - 01:00 pm	On the horizon: Grid therapy Speaker: Dr. Santam Chakraborty
01:00 pm - 01:20 pm	Discussion and take home points Discussants: Dr. Tanweer Shahid, Dr. Sai Subramanian, Dr. Mairead Daly
01:20 pm - 01:50 pm	Wrap-up, certificates Dr. Ben Heijmen / Dr. Indranil Mallick / Dr. Pritanjali Singh
01:50 pm	Lunch and dispersal



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