



# ESTRO

# 11<sup>th</sup> AROI-ESTRO

**Teaching Course on** 

Advanced Technologies in Radiation Oncology

Theme: Closing the gap with advancing technology

5<sup>TH</sup> - 8<sup>TH</sup> DECEMBER 2024 Auditorium, AIIMS, Patna



#### PRESIDENT'S MESSAGE

#### Dear Guests, Faculty and Participants,

It is with great pleasure and honour that I invite you to the AROI-ESTRO Teaching Course Advanced Technologies in Radiation Oncology with theme "Closing the Gap with Advancing Technology", taking place from December 5th to 8th, 2024, at the AIIMS Patna.

The course that is being organised at Patna is a testament to our collective commitment in bringing the benefits of advanced radiation techniques to this part of the world. It is indeed the result of a collaborative effort of the AROI-ESTRO and AROI-Bihar Chapter and AIIMS Patna.

As the president of the AROI-Bihar Chapter, it is my honour and privilege to welcome distinguished international and national faculty and radiation oncologists from different parts of the world for this course. I am sure that at the end of the course, the participants will immensely benefit from the teachings and deliberations of the course. The course has been designed by leading experts to cover the topic of advanced technologies in radiation therapy, with lots of emphasis on the clinical aspects. It is expected that at the end of the courses, the participants will be able to acquire knowledge of the topics covered and be confident in implementing these technologies in their respective departments.

I extend my deepest gratitude to the faculties of the course, the office bearers of the AROI, India, and AROI-Bihar chapters, and the local organizing committee, particularly Dr Pritanjali Singh, Head of the Department of Radiation Oncology, AIIMS, Patna for their efforts in organizing the course at the AIIMS Patna.

The city of Patna is an ancient city, and there are many important historical places, museums, and tourist attractions to visit as well. I, along with the members of the AROI Bihar Chapter and the local organizing committee, look forward to welcoming you to Patna and wish that the course will be an enriching experience for the participants.

Warm regards,
Dr Rajiv Ranjan Prasad
President, AROI-Bihar Chapter and
Director- Radiation oncology Cancer Institute
JP Medanta Hospital, Patna, India





Prof. (Dr.) Gopal Krushna Pal Chief Patron Director, AlIMS, Patna



Dr. B Sanyal Patron



Dr. J K Singh Patron



Prof. Dr. Prem Kumar Patron



Dr. P N Pandit Patron



Prof. Dr. Sadhana Sharma Patron



Dr. Rajesh Vashistha Chair - AROI



Dr. Manoj Gupta President - AROI



Dr. V Srinivasan Secretary - AROI



Dr. S N Senapati President Elect-AROI



Prof. Ben Heijmen ESTRO Course Director



Dr. Indranil Mallick AROI Course Director



Dr. Pritanjali Singh Course Coordinator



Dr. Rajiv Ranjan Prasad President AROI Bihar Chapter



Dr. Prof. Rajesh Singh Secretary AROI Bihar Chapter



**Chief Patron** 

Prof.(Dr) Gopal

Krushna Pal

**Director AIIMS Patna** 

**Patrons** 

Dr B Sanyal

Dr J K Singh

Dr P N Pandit

Dr Prem Kumar

Dr Sadhana Sharma

<u>Mentors</u>

Dr Sudhakar Singh

Dr Seema Devi

Dr Shekhar Kesari

Dr Anita Kumari

Dr Mukesh Bharti

**Scientific Committee** 

Dr Vineeta Trivedi

Dr Dinesh Kumar Sinha

Dr Richa Chauhan

Dr Rita Rani

Dr Usha Singh

Dr Ravi Byahut

Dr Sneha Jha

Dr Richa Madhavi

Dr Kunal Kishor

Dr Shraddha Raj

Dr Mukesh Bharti

Dr Amrita Rakesh

Dr Shiv Mishra

**Transport &** 

accommodation

Dr Anil Jaiswal

Mr Sourab Kumar

Mr Abu Musa Shah

Mr Saurabh Kumar

Registration

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Dr Kanchan

Dr Shanmuga Priya

Dr Deepan S

Mr Ranjan Kumar

Mr. Rajhans Kumar

**Hall Management** 

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Singh,

Dr Meenakshi Mishra

Dr Ravind kumar Yadav

Mr Samyak Chauhan

Dr Ritesh

Ms Gazala Parveen

Food & Beverage

**Committee** 

Dr Ravi Roushan

Dr Kodela Jahanvi

#### **TARGET GROUP**

# The course is primarily aimed at:

- Radiation oncologists, medical physicists and radiation therapists/technologists early in their career who are implementing or planning to implement advanced technologies in their practice
- Trainees in radiation oncology or radiation physics

# The course is also suitable for:

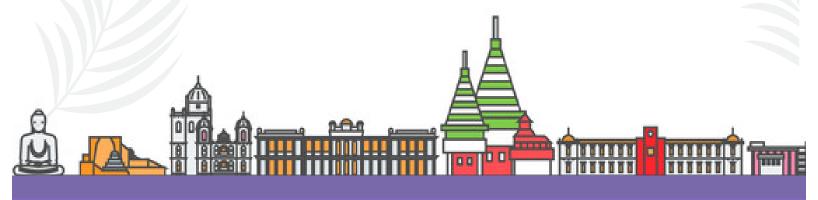
- Experienced clinicians and physicists who are eager to update their knowledge on new technical aspects of radiotherapy.
- Radiation technologists having a strong interest in the application of physics and technology in radiotherapy.
- Researchers in radiotherapy, radiotherapy physics and radiotherapy technology, e.g. pursuing a Master or PhD degree.

As the focus is on clinical application, the teachers' team consists of radiation oncologists, medical physicists and technologists.

## **COURSE DIRECTORS**

**AROI:** Dr Indranil Mallick, Sr. Consultant Radiation Oncologist, Tata Medical Center, Kolkata

**ESTRO:** Prof Ben Heijmen, Professor of Medical Physics, Erasmus MC, Rotterdam, the Netherlands



## **COURSE AIM**

The course will be a combination of didactic lectures and interactive clinical sessions

The overall aim of this course is to explore how new technologies can be best used for patient benefit, with a focus on scientific evidence.

- The lectures aim to provide multidisciplinary knowledge and understanding of:
- The clinical rationale for the use of advanced technologies in radiation therapy
- Errors and uncertainties and how multimodality imaging, respiratory motion management, MR linacs, surface guidance and adaptive radiotherapy are used to mitigate these.
- IMRT delivery techniques and plan evaluation
- Principles and applications of stereotactic (body) radiotherapy, and particle therapy, use of automation and artificial intelligence in radiation oncology contouring and planning
- An outlook to possible future new technologies, like FLASH, heavy ions and grid therapy

Complimentary to the lectures, this course has interactive clinical sessions where expert oncologists, physicists and radiographers will discuss developing protocols for the clinical implementation of advanced technologies, including IGRT, adaptive RT, cranial SRS and SBRT.

# **LEARNING OUTCOMES**

By the end of this course participants should be able to:

- Discuss and select modern treatment techniques based on their pros and cons
- Select physics and technical measures that enhance effective and safe application of radiation therapy.
- Discuss approaches for gathering scientific evidence for clinical application of novel technologies
- Get an understanding of the use and applications of novel emerging technologies.

# **COURSE CONTENT**

#### Lectures on:

- Modern imaging for treatment planning
- Errors, Margins and Correction Strategies
- Respiratory Motion Management
- IMRT delivery and plan evaluation
- Stereotactic radiotherapy and radiosurgery
- Biophysical models
- Particle therapy
- Adaptive Radiotherapy
- Automation and Artificial Intelligence
- Health technology assessment
- Designing studies to assess new technology
- Novel emerging technologies (Heavy ions, Flash and Grid therapy)

## **COURSE CONTENT**

## **Clinical sessions:**

There will be five interactive multidisciplinary clinical sessions, where faculty will coordinate discussion on contouring, plan evaluation, patient specific QA, and imaging protocols in different clinical sites.

- How to develop site-wise protocols for PTV margins and image guidance in your department - Head and Neck Cancers, Gyne and Prostate Cancer
- Lung SBRT (indications, selected contours on Educase, patient selection and dose constraints)
- Cranial SRS (OARs and constraints, gamma-knife or Cyberknife vs linac based, QA)
- Breast DIBH and IMRT
- Liver SBRT (indications, liver toxicity and dose constraints, respiratory motion management during scanning and delivery)

# **INTERNATIONAL FACULTY**

Ben Heijmen | Andrew Hope | Mairead Daly

# **NATIONAL FACULTY**

Tejpal Gupta | Anil Anand | Tharmar Ganesh
Rakesh Jalali | Santam Chakroborty | Pritanjali Singh
Jyotirup Goswami | Indranil Mallick | Prakash Umbarkar
Sai Subramaniam | Supriya Chopra | Tanveer Shahid

# **COURSE FEE**

# EARLY BIRD extended till 30<sup>th</sup> September 2024

	Indian Delegate	Foreign Delegate	PG	
Physician	INR 12000*	USD 250		
(AROI Member)	11NK 12000			
Physicist	INR 10000*	USD 250		
Radiotherapy Technologist	INR 8000*	USD 200	INR 10000*	
Team	INR 18000*	USD 400		
(Physician & Physicist	11111 10000	030 400		
Team				
(Physician, Physicist &	INR 25000*	USD 550		
Radiotherapy Technologist				
* Inclusive of 18% GST				

# LATE REGISTRATION after 1st October 2024

	Indian Delegate	Foreign Delegate	
Physician	INR 14000*	USD 270	
(AROI Member)	INK 14000		
Physicist	INR 12000*	USD 270	
Radiotherapy Technologist	INR 10000*	USD 220	
Team	INR 22000*	USD 420	
(Physician & Physicist)	114K 22000		
Team			
(Physician, Physicist &	INR 30000*	USD 570	
Radiotherapy Technologist)			
* Inclusive of 18% GST			

#### **REGISTRATION**

The course is aimed for the Radiation Oncologists/Physicists/RTT, involved in advanced treatment planning in their daily routine. One Physicist, one Physician and one Technologist from as institution are encouraged for team participation.

Please visit the website for registration.

Website - www.aroiestropatna.com

The last date of the early bird registration extended till 30th September 2024.

As the number of available seats are limited, registration will be first come first serve basis.

Mailing Address - aroiestropatna@gmail.com

**Contact Person** 

Dr. Pritanjali Siingh Mob: 9334931395

Application for CME recognition submitted to the Bihar Medical Council



**BODH GAYA** 



PATNA SAHIB GURUDWARA



**NALANDA UNIVERSITY** 



**RAJGIR GLASS BRIDGE** 



SCAN HERE TO REGISTER

**Account Details:** 

**Account Name: AROICON** 

**Account Number: 579320110000317** 

IFSC Code: BKID0005793 Bank Name: Bank of India

**Branch: Phulwari Sharif Branch** 

