



ESTRO

4th AROI - ESTRO GYN Teaching Course

4th-7th March 2020

Department of Radiation Oncology,
Tata Memorial Hospital, Mumbai

**3D Radiotherapy with a Special Emphasis on Implementation
of MRI / CT Based Brachytherapy in Cervical Cancer**



Venue : R. D. Choksi Auditorium, Tata Memorial Hospital, GJ Block , Mumbai, India



J. P. Agarwal
Course Organizer
ESTRO-AROI



Richard Potter
Course Director
ESTRO



Kari Tanderup
Course Director
ESTRO



Christine Haie meder
Radiation Oncologist
ESTRO Teacher



Umesh Mahantshetty
Course Director
AROI



Jamema Swamidas
Course Director
AROI



D N Sharma
Radiation Oncologist
AROI Teacher



Dear Friends

It is a great pleasure to announce the 4th ESTRO AROI GYN teaching course at the Tata Memorial Hospital, Mumbai.

The ESTRO-AROI GYN teaching course had been started with an aim to enhance current standards and develop uniform protocols in brachytherapy for cervical cancers in India.

The first course was conducted at the “*Ramaiah Advanced Learning Centre*” in Bengaluru in 2017 with the theme of “*Transition from conventional 2D to 3D brachytherapy in cervical cancers*”, the second course at the “*Dr Ram Manohar Lohia Institute of Medical Sciences*,” in Lucknow in 2018 with the theme of “*3D Radiotherapy with a Special Emphasis on Implementation of MRI/CT Based Brachytherapy in Cervical Cancer*” and the 3rd course at *AIIMS in Rishikesh*, in 2019.

The 4th ESTRO-AROI GYN teaching course is aimed to further refine the concepts emphasize on the reporting parameters and develop protocols for future research. The theme for the course is “*3D Radiotherapy with A Special Emphasis On Implementation of MRI / CT Based Brachytherapy in Cervical Cancer*”.

Hope to see you soon in Mumbai.. City of Dreams!

Dr. J. P Agarwal
ESTRO AROI Course organizer
Prof & Head, Department of Radiation Oncology
Tata Memorial Hospital

Faculty

ESTRO Course directors

Richard Potter

Radiation Oncologist
Medical University Hospital, Vienna (AT)

Kari Tanderup

Medical Physicist
University Hospital, Aarhus (DK) Teachers

AROI Course directors

Umesh Mahantshetty

Radiation Oncologist
Tata Memorial Hospital, Mumbai (IN)

Jamema Swamidas

Medical Physicist, ACTREC
Tata Memorial Centre, Mumbai (IN)

Teachers

Christine Haie Meder

Radiation Oncologist
Institut Gustave Roussy, Villejuif (FR)

Daya Nand Sharma

Radiation Oncologist
AIIMS, New Delhi (IN)

Guest Faculty

Manoj Gupta

Professor and Head,
Department of Radiation Oncology,
AIIMS, Rishikesh (IN)

Supriya Chopra Sastri

Professor, Radiation Oncology,
ACTREC, Tata Memorial Centre,
Mumbai (IN)

Bhavana Rai

Radiation Oncologist,
PGIMER,
Chandigarh (IN)

Abhishek Basu

Radiation Oncologist,
Medical College Kolkata, Kolkata (IN)

A Dheera

Medical Physicist,
Tata Memorial Hospital, Mumbai (IN)

Ajeet Gandhi

Radiation Oncologist,
RMLIMS, Lucknow (IN)

Lavanya Naidu

Radiation Oncologist,
Tata Memorial Hospital, Mumbai (IN)

Course organizer

Dr. J. P Agarwal

Prof & Head, Department of Radiation Oncology
Tata Memorial Hospital, Mumbai (IN)

COURSE OVERVIEW

TARGET GROUP

The course is aimed at teams consisting of radiation oncologists and medical physicists from institutions with concrete plans to implement 3D radiotherapy for cervical cancer, with a special interest in MR/ CT Image Based Brachytherapy. The Institutions which participated in previous editions of Gynaecology AROI ESTRO teaching course in Bengaluru, Lucknow and Rishikesh between 2017- 2019 are encouraged to register and will be selected on priority for the course. Also, Institutions who have the necessary infrastructure for 3D brachytherapy (afterloader, access to 3D (US/ CT/ MR) imaging, CT/MR compatible applicators and a relevant treatment planning system) to facilitate the initiation of implementation of 3D techniques after the course can apply. The course is conducted on regular basis every year and this will be 4th Edition which will focus on feedback, hurdles, progress and further development of a network to systematically work on research and implementation issues specific to India and other developing countries. The workshop involving both the advanced track and freshers should be prepared to invest time in implementation of 3D techniques in between courses and to take part in homework / feedback efforts. A finite number of teams from various set-ups and geographical locations in India will be invited by AROI. Participants from neighboring countries and other Asia Pacific (APAC) Region (max 5-10) may also apply to participate.

COURSE AIM

- The course aims to:
- Learn about principles of 3D image-based EBRT and brachytherapy including techniques and treatment planning
- Provide understanding of commissioning, quality assurance, principles of planning, plan evaluation and reporting of 2D and 3D brachytherapy in cervical cancer
- Introduce 3D image-based target concepts of GTV, CTV and PTV including both EBRT and brachytherapy in cervical cancer
- Enable practical implementation of 3D techniques in EBRT and brachytherapy in cervical cancer
- Provide an overview on the radiation therapy (external radiation and brachytherapy) in cervical cancer.
- Enhance the practical implementation and logistics in the existing environment.
- Further roadmap and steps of intervention to improve the existing standards.
- Provide a platform to implement and develop an Indian network for future research and development in cervical cancer radiotherapy

LEARNING OUTCOMES

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

Learning outcomes

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

- Understand the rationale of 3D and apply concepts of advanced brachytherapy techniques in clinical practice
- Understand and apply ICRU 89 concepts: GTV, CTV, PTV at diagnosis and at time of brachytherapy for 2D and 3D brachytherapy
Perform contouring and treatment planning for 3D image guided EBRT and brachytherapy in clinical practice
- Implement procedures for 3D image guided brachytherapy in cervical cancer in own department
- Implement advanced EBRT techniques in cervical cancer in own department.

COURSE CONTENT

- Normal and pathologic anatomy of female pelvis
- Image based anatomy including US, CT, MRI and conventional radiography at diagnosis and at BT
- CTV/ITV/PTV for external irradiation
- IMRT/VMAT, IGRT and treatment planning for external irradiation
- Combination of external irradiation and brachytherapy
- Dose, dose-rate and fractionation and overall treatment time
- Radiobiological effects from combined external irradiation and brachytherapy, linear quadratic model
- Prescribing, recording and reporting including ICRU- GEC-ESTRO 89 recommendations
- Therapeutic outcome: radio-chemotherapy, image based EBRT and brachytherapy
- Introduction to EMBRACE studies
- Commissioning and Quality Assurance of various processes involved 3D brachytherapy treatment planning.
- Feedback and review of hurdles in implementation
- Workshops with hands-on contouring and treatment planning

PREREQUISITES

- Before commencing this course participants should have:
- Basic knowledge of principles and experience with multi-modality management of cervical cancer
- Basic knowledge of and experience with radiological patho-anatomy relevant to cervical cancer
- Experience with existing external beam and brachytherapy workflows and processes in cervical cancer.
- Basic infrastructure in your department which facilitates post-course implementation of 3D image guided brachytherapy (afterloader, access to volumetric imaging, MRI/CT compatible applicators, and treatment planning system).

TEACHING METHODS

Lectures / tutorials: 16 hours

Practical workshop: 8 hours

Applicators commissioning and reconstruction: 6 hours – Physicists

Video presentations: 2 hours - Clinicians

Description: The tutorials include discussions of basics, evidence-based treatments, contouring guidelines, various processes involved in advanced EBRT and brachytherapy techniques and quality assurance. The practical hands on demonstration covers a direct learning process involved in approach, brachytherapy techniques, contouring exercises, evaluation and discussions on 3D radiotherapy.

METHODS OF ASSESSMENT

- Contouring (FALCON tool) and dose planning exercises (pre- and post-course homework)
- Interactive feedback through audience voting on specific questions during lectures
- MCQ (interactive session at the end of the course)
- ESTRO teaching course evaluation form.
- Exclusive feedback sessions for “Experienced track” participants

REGISTRATION FEE

Last Date of Registration is 31st January, 2020

One Physicist & Physician from an institute are encouraged for team participation.

Online Registration on the Website only

https://tmc.gov.in/m_events/Events/conference

Course Fee	Physician or Physicist	Physician & Physicist
Indian Delegate	8500 INR	15000 INR
Foreign Delegate	250 USD	400 USD

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Elekta

Eckert & Ziegler
Contributing to saving lives

Recommendations of Organizing Committee for Accommodation

YMCA International House	18, YMCA Road, Mumbai Central, Mumbai-400008 Tel-(022)23070601
YWCA International Centre	18, Madam Cama Road, Fort, Mumbai-39 Tel. No: +91-22 22029161
HMATC (Hospitality Management Applied Training Centre)	Veer Savarkar Marg, Dadar(W), Mumbai-28 Tel-Tel. No.: +91-22-24446204
Kohinoor Catering	B.W.Pathare Marg, Behind Catering Institute Tel No. +91-22 24459884
BARC Guest House	Training School Hostel, Anushakti Nagar, Trombay Mumbai-94 Tel- No. +91-22-25592574
Hotel Mid-Town Pritam	Pritam Estate, Near Dadar Railway station, Dadar (E), Mumbai-400014 Tel No: +91-22- 43449999 /24145555
Hotel City Point	Behind Imperial Mahal, Dadar T.T Circle, Dadar (E), Mumbai-14 Tel-022-24138637
Hotel Ramee International	Near Dadar Railway Station, Dadar (E), Mumbai-400014, Tel. No: +91-22-24115353 / 2411 6592
Hotel Kohinoor	Opp. Siddivinayak Temple, Dadar (W), Mumbai- 25 Tel No: +91-22-24373613
Hotel Taj Mahal	Apollo Bunder, Mumbai-400001 Tel. No: +91-22-5663366
Pals Hotel	Barrister Nath Pai Road, Kalachowki, Next to Union Bank of India, Mumbai - 400033. Landmark: Near Kalachowki Police Stn. Tel. No: +91-9820910694 / 9004191226 +91-22-23718671 / 23711955
Seva Niketan (Boys only)	National Sodality Centre, Sir J. J. Road, Byculla, Mumbai. Tel No: +91-22-23092934
Hotel Bawa Regency	Plot No. 16/76, Gokuldas Pasta Road, Behind Chitra Cinema, Dadar East, Mumbai, Maharashtra 400014 Tel. No: - +91-22 4049 8383 /24137843144
Hotel Hiltop	Sea Link, 43, Sir Pochkhanawala Rd, Municipal Colony, Near, Worli, Mumbai, Maharashtra 400030 Tel NO. : +91-22- 6650 2000
Hotel Amigo	No. 289, SVS Rd, Dadar West, Shivaji Park, Mumbai, Maharashtra 400028 Tel. No: +91-22 2446 3339

A list of nearby Hotels from the venue is detailed above.
Conference Secretariat does not take any responsibility for Hotel Booking.

Registration Form

Answer to the following questions are mandatory to complete the registration process

- Q1. How many cervical cancer patients do you approximately treat per year with definitive radiotherapy including external beam therapy, chemotherapy and brachytherapy?
A) 0-50 B) 50-100 C) 100
- Q2. How many years of Gyn Experience do you have?
A) < 5 years B) 5-10 years C) > 10 years
- Q3. What are the applicators available for Brachytherapy at your Institute?
A) Tandem ovoid B) Tandem Ring C) Tandem ring with needles D) Combination
- Q4. What is the type of Anaesthesia used for brachytherapy?
A) Short General Anaesthesia B) Spinal Anaesthesia C) Phenergan D) None
- Q5. How often do you use Ultrasound during the procedure?
A) Commonly B) Occasionally C) Nil
- Q6. What is the imaging modality for brachytherapy planning?
A) CT Scan B) MRI C) Both D) x Ray E) None
- Q7. What is the most common type of Optimization done?
A) No optimization B) Manual C) Graphical D) Inverse E) Combination
- Q8. What is the dose volume reporting level for Intracavitary brachytherapy as per ICRU 89?
A) Level I B) Level II C) Level III

Registration Details

Full Name 1. (Physician/Physicist)
2. (Physician/Physicist)
Med. Council Reg. No. : State
Designation 1. (Physician/Physicist)
2. (Physician/Physicist)
Institute/Hospital Add. City
Corresponding Add..... City
State Pin code.....
Country

Mobile No. 1. (Physician/Physicist)
2. (Physician/Physicist)
Email ID 1. (Physician/Physicist)
2. (Physician/Physicist)

Transaction Details

Transaction ID Bank name & Branch.....
Date of transaction..... Amount

Signature 1.

Signature 2.

Organizing Committee

Registration & Auditorium : Dr. Sarbani Ghosh Laskar
Dr Rajesh Kinhikar
Mr. Libin Scaria
Ms. Jyoti
Ms. Mayuri
Ms. Shrushti
Ms. Supriya

Scientific Committee Dr Umesh Mahantshetty
Dr SV Jamema
Dr Supriya Chopra Sastri
Dr Lavanya G
Mr Yogesh Ghadi
Ms A Dheera

Transport & Accomodation: Dr. Anil Tibdewal
Dr. Abhishek Chatterjee
Mr Sudarshan

Food & Beverages: Dr. Reena Engineer
Dr. Nehal Khanna
Mr Satish Kohle

Mailing Address

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Websites:

https://tmc.gov.in/m_events/Events/conference

<https://www.estro.org/Courses/3D-radiotherapy-with-a-special-emphasis-on-impleme>

Local Contact

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