



**RAMAIAH**

**ADVANCED  
LEARNING CENTER**



Department of Radiotherapy  
Ramaiah Medical College  
Ramaiah Advanced Learning Center  
In collaboration with Karnataka Chapter AROI



Transition from Conventional 2D to 3D  
Radiotherapy with a special emphasis on  
Brachytherapy in Cervical Cancers  
1<sup>st</sup> ESTRO-AROI GYN Teaching Course

8<sup>th</sup> to 11<sup>th</sup> March, 2017

Venue : Ramaiah Advanced Learning Center

## Dear friends

It's a great pleasure to share with you all, that we are conducting the first ESTRO-AROI GYN teaching course at our state of art "Ramaiah Advanced Learning Center" in Bengaluru between 8th and 11th March 2017.

The theme for this course is "Transition from conventional 2D to 3D" and the participants have the possibility to improve and refine their practice over the next three years. Participants have the opportunity to practice various brachy procedures on cadavers under the supervision of experts. This course also provides a comprehensive knowledge on smooth Transition from 2D to 3D Image guided radiation for cancer cervix along with aspects of commissioning & QA.

Bengaluru, the silicon valley of India welcomes you for this course and on behalf of ESTRO-AROI teaching faculty and the radiation team at Ramaiah Medical College, I welcome you to participate in this educational course.

Dr. Manur Gururajachar Janaki

Professor & HOD

Department of Radiotherapy, Ramaiah Medical College

## Course aim

- To learn the principles of 2D & 3D, EBRT & Brachytherapy
- To understand the commissioning, quality assurance, planning, evaluation and reporting of 2D & 3D Brachytherapy for carcinoma cervix
- To comprehend 2D & 3D Image based target concepts
- To implement 3D Techniques in EBRT & Brachytherapy in cervical cancer

## Learning Outcomes

- To Understand the rationale of transition from 2D to 3D
- To Perform Brachytherapy application on cadaver
- To Contour for 3D image guided EBRT and Brachytherapy
- To do the learnt procedures in their own departments

## Target Group

- Team of Radiation oncologist & Medical physicist
- From institutions which have recently procured HDR unit
- From institutions which have 3D brachytherapy facility
- Have relevant treatment planning system
- Team committed to learn brachytherapy, practice and improvise over next 3 Years.
- Participants from Asia Pacific Countries (APAC) may also participate.

## Course Content

- Anatomy of female pelvis
- Anatomical aspects with respect to US, CT MRI and conventional radiography
- CTV/ITV/PTV for external radiation
- Combining external radiation and brachytherapy
- Different brachytherapy procedure demonstration on cadavers
- Introduction to ICRU-GEC-ESTRO 89 recommendations
- Dose, dose rate fractionation and overall treatment time
- Radiobiological aspects
- Introduction to EMBRACE studies
- Commissioning and QA processes of brachytherapy planning

## Teaching Methods

- Lectures /tutorials -16hrs
- Practical workshop - 8hrs
- Applicators commissioning & reconstruction(Physicists) -6hrs
- Cadaveric workshop (Physicians) -6hrs

## Methods of Assessment

- FALCON tool
  - Pre and post course homework
  - Interactive feedback via audience voting during lectures
  - MCQ at the end of the course
  - ESTRO Teaching course evaluation form
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## FACULTY

### ESTRO Course Directors

- Richard Potter, Radiation Oncologist, Medical University Hospital, Vienna (AT)
- Kari Tanderup, Medical Physicist, University Hospital, Aarhus (DK)

### 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, Institute Gustave Roussy, Villejuif (FR)
- D. N. Sharma, Radiation Oncologist, AIIMS, Delhi (IN)

### Local Organisers

- M G Janaki, Radiation Oncologist, Ramaiah Medical College, Bengaluru
- Revathi, Medical Physicist, Ramaiah Medical College, Bengaluru

<b>Course Fee</b>	Physician and Physicist	Physician or Physicist
Indian Delegate	25000 INR	15000 INR
Foreign Delegate	500 USD	300 USD

Full attendance for the course including cadaveric / physics workshop / course material and one dinner.

### **Account Details**

Cheque / DD drawn in favour of  
 "MSRUAS - M.S.Ramaiah Advanced Learning Center"  
 MSRALC Account No - 914010033412174  
 MICR Code - 560211017  
 NEFT/ IFSC Code - UTIB0000559  
 AXIS BANK

### **For Registration Details Contact :**

#### **Secretary to President, MSRALC**

Phone : 080 2218 2819  
 e-mail : info@msralc.org  
 website : www.msralc.org

#### **Local Contact :**

**Dr. Janaki M G** - 9845362932  
**Dr. Mohan Kumar S** - 9945160884

### **Venue :**

Ramaiah Advanced Learning Centre  
 Gnanagangothri Campus,  
 MSR Nagar, Bangalore 560 054