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**Course Coordinator** 

Prof. Piyush Kumar Head - Radiation Oncology SRMS-IMS Bareilly



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Indian College of Radiation Oncology (ICRO)

Academic Wing of
Association of
Radiation Oncologists of India
(AROI)

20<sup>th</sup> AROI ICRO Radiobiology 2023 ( Intas )

TEACHING COURSE (North Zone)

Clinical Radiobiology for Radiation Oncologists on Saturday 15<sup>th</sup> April 2023 9.00 am to 5.30 pm

### **VENUE**

Examination Hall-2, II Floor, Medical College, Shri Ram Murti Smarak Institute of Medical Sciences, Bareilly (U.P.) I would like to participate in the "Clinical Radiobiology for Radiation Oncologist" on 15<sup>th</sup> April 2023

Designation: Consultant / Student
Qualification
DMRT MD DNB
Year
AROI Membership
Mobile No.
E-mail
Name & Address of Institute
City State

Pin Code.....

Signature

# Application

# **Course Aim**

- 1) To understand radio-biological Principles.
- 2) To know its clinical applications and implications

# **Course Eligibility**

- 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> year MD / DNB / DMRT (Radiation Oncology) Post Graduate, Senior Resident and Consultants.
- Travel & Accommodation to be borne by participants.
- The course in Free without any registraton fee.



For online registration please scan this **QR Code** or click the **link** mention blow-



# https://forms.gle/5ixPL1V9N7NH8gvq7

For any other information kindly contact **Dr. Piyush Kumar**: 9897693669

# Program Schedule

09:00-09:30 am Registration

09:30 - 11:15 am Module 1 & 2 Interaction with matter & Radiation Injury to Cells, Mechanism of action Cell Survival Curve, Exponential relationship, D10 & DO, Multi Model. L-Q Model)

11:15 - 11:30 am **Tea-Break** 

11:30 - 01:15 pm Module 3 (Clinical Applications of Q Models, Normal Tissue injury with emphasis to spinal cord BED and its clinical applications, Altered fraction and its radiobiological basis)

01:15 - 01:30 pm Inauguration

01:30 - 02:30 pm Lunch

o2:30 - 03:45 pm Module 4 (Radiobiology of Hyprofraction, SRS & SBRT, factors affecting cell survival curve, HRS & IRR, Dose Rate Effect, Oxygen Effect, Radiobiology of fractionated RT. Intrinsic Sensitivity and Sft)

03:45 - 04:00 pm **Tea-Break** 

04:00 - 05:15 pm Module 5 (4Rs of Radiobiology, Role of 4 rs in SRS & SRT, TCP, NTCP Therapeutic ratio LET and RBE)

05:15-05:30 pm Valedictory