



***22nd Hyderabad
Annual Radiologic
Physics Course***

Venue:
Through Digital Platform

Date:
23rd & 30th July 2023



Organized by:
Indian Radiological & Imaging Association
Telangana State Chapter

INTRODUCTION TO HARP

Health and Bio-engineering combined has brought about a see-saw change in the field of Medicine in the form of new techniques & technologies especially in RADIO-DIAGNOSIS. Hence the importance of the HARP, which is basically aimed to provide the platform for better understanding of the functional aspects and the principles involved in each modality including the recent advances.

WHO SHOULD ATTEND HARP COURSE?

All Radiology Post graduate students doing MD, DMRD or DNB should attend this course at least once during their training preferably in first year. All the MBBS graduates who are committed to Radiology and aspire to be Radiologist by profession should attend. Students preparing for FRCR, EDiR, MICR will be benefitted.

Highlights of HARP Course:

- ✓ Radiologic Physics is covered from very basic to most advanced technology i.e. first lecture is on “Basic Concepts & Electro Magnetic Radiations” and last lecture is on “Molecular Imaging and other evolving technologies”
- ✓ Majority of the speakers are experienced practicing clinical radiologists and good teachers who will impart very practical and relevant knowledge of physics.
- ✓ In order to make lectures interactive and interesting Quiz questions and MCQ's are incorporated in all the presentations.
- ✓ Special effort is made to cover the examination questions of last 10 years in all the lectures.
- ✓ Radiologic Physics Quiz will be conducted.

MESSAGE

Dear Radiology Residents and Radiologists,

We are delighted to extend a special invitation to all residents pursuing MD or DNB in Radiology, as well as radiologists who are appearing for the EDiR, FRCR, and MICR exams, to our highly anticipated Annual Online Conference on Radiology Physics. This conference, organized by the Telangana State Chapter of the Indian Radiological and Imaging Association (IRIA), is designed to cover a wide range of topics, from the basics to advanced concepts, in radiology physics.

Our conference aims to provide a comprehensive understanding of radiology physics, catering to the educational needs of radiology residents and radiologists preparing for their respective examinations. This event will offer a unique opportunity to enhance your knowledge, address common challenges, and gain valuable insights from esteemed speakers who are experts in the field.

Key Highlights of the Conference includes

In-depth lectures covering the fundamentals of radiology physics, including radiation safety, image acquisition, and quality assurance.

Advanced topics and emerging trends in radiology physics, such as artificial intelligence applications and molecular imaging.

Interactive question and answer sessions, providing an opportunity to clarify doubts and deepen your understanding.

We understand the importance of a strong foundation in radiology physics for your career progression and success in the examinations. The Annual Online Conference on Radiology Physics aims to bridge the gap between theoretical knowledge and its practical application, empowering you with the skills necessary to excel in your professional journey.

We encourage all radiology residents pursuing MD or DNB and radiologists preparing for the EDiR, FRCR, and MICR exams to take advantage of this exceptional opportunity. Join us online, from the comfort of your own location, to engage with leading experts, connect with peers, and expand your understanding of radiology physics.

Don't miss out on this enriching experience to deepen your knowledge of radiology physics and gain the confidence you need for your exams and professional practice. We look forward to welcoming you to our Annual Online Conference on Radiology Physics and embarking on a journey of growth and learning together.

Dr. R Venkataramana

President, IRIA TS Chapter

Dr. P. Krishna Mohan

General Secretary, IRIA TS Chapter

Program Coordinator

Dr. Jwala Srikala

Coordinators

Dr. J. Shirisha, Dr. Vishnuvardhan R

PROGRAMME

Day 1 – 23rd July 2023

- 09:00 - 9:30 am Basics of Electromagnetic Radiation
- Dr. Jwala Srikala .M
- 09:30 - 10:00 am Production of X-Rays and X-Ray Tube
- Dr. Shruti Kalyan
- 10:00 - 10:30 am X-Ray Interaction and Attenuation
Collimators and Filters
- Dr. Ankit Balani
- 10:30 - 10:45 am Inauguration
- 10:45 - 11:15 am Radiobiology
- Dr. Sapna Marda
- 11:15 - 11:45 am Radiation Protection
- Dr. Rakhee Kumari Parchuri
- 11:45 - 12:15 pm Image Quality
- Mr. Panneerselvam
- 12:15 - 12:45 pm CR and DR
- Dr. Ramakrishna Rao Baru
- 12:45 - 1:15 pm Fluoroscopy
- Dr. Srinadh Bopanna
- 1:15 - 1:45 pm lunch Break
- 1:45 - 2:15 pm CT basics
- Dr. Aruna Karnawat
- 2:15 - 2:45 pm Spiral and MD CT
- Dr. Gayatri S
- 2:45 - 3:15 pm 3D and 4D CT and Postprocessing
- Dr. Vishnuvardhan R
- 3:15 - 3:45 pm Mammography
- Dr. Jwala Srikala
- 3:45 - 4:15 pm PACS
- Dr. Anitha Mandava
- 4:15 - 4:45 pm QUIZ
- Dr. Abhishek Arora
- 4:45 - 5:15 pm Planning and Quality Control in
Radiology
- Mr. Panneerselvam
- 5:15 - 6:00 pm Scientific Exhibition and Demonstration
- Mr. Panneerselvam

PROGRAMME

Date 2 - 30th July 2023

- 8:30 - 9:00 am MRI Basics and Hardware
- Mr. Panneerselvam
- 9:00 - 9:35 am Spin Echo Sequences
- Dr. Shivakanth
- 9:35 - 10:10 am GRE and Steady State Sequences
- Dr. Gayatri S
- 10:10 - 10:25 am Factors Affecting Image Quality
- Dr. Shivakanth
- 10:25 - 11:00 am DWI/DTI and Spectroscopy
- Dr. Shivakanth
- 11:00 - 11:35 am Perfusion and FMRI
- Dr. Gayatri S
- 11:35 - 11:55 am MRA and MRV
- Dr. Shivakanth
- 11:55 - 12:40 pm Fat Suppression/saturation Techniques,
liver Imaging, Fat and Iron Quantification
and MR Elastography
- Dr. Gayatri S
- 12:40-1:00 pm MR Artefacts
- Dr. Shivakanth
- 1:00 - 1:30 pm MR Safety
- Mr. Panneerselvam
- 1:30 - 2:00 pm lunch Break
- 2:00 - 2:30 pm Ultrasound Basics
- Dr. Ruju Doshi
- 2:30 - 3:00 pm Doppler Basics
- Dr. Aruna karnawat
- 3:00 - 3:30 pm Ultrasound Advances
- Dr. Madhavi Nori
- 3:30 - 4:00 pm Elastography
- Dr. Rashmi Sudheer
- 4:00 - 4:20 pm Nuclear Medicine Basics
- Dr. Anuj Jain
- 4:20 - 4:40 pm SPECT and PET CT
- Dr. Mohd Mansoor Mohiuddin
- 4:40 - 5:00 pm PET MRI
- Dr. H rushikesh Aurangabadkar
- 5:00 - 5:30 pm Molecular Imaging
- Dr. Madhur Kr. Srivastava
- 5:30 - 6:00 pm Artificial Intelligence
- Dr. Srinivas Raju
- 6:00 - 6:30 pm Quiz Answer

REGISTRATION FORM

Name:.....

IRIA Membership No.:.....

Designation:.....

Institution:

Address:.....

E-mail:.....

Contact No.:.....

REGISTRATION FEE FOR 2 Days (23rd & 30th July 2023)

MEMBERS

Before 20th July Rs. 650/-

NON-MEMBERS

Before 20th July Rs. 850/-

Account Name: Telangana State Chapter IRIA
Account Number: 6243807479
IFSC Code: IDIB000B090
Name of the Bank: Indian Bank
Branch: Banjara Hills

Payments for Registration can be done through Gpay /
PhonePe / Paytm.

Name: Telangana State Chapter IRIA



Note: The payment through bank transfer should be followed up with an e-mail confirmation of the Bank transfer with an attachment of scanned copy of counter foil to iriatschapter@gmail.com.

Pay Directly to: indianradiological@indianbk

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Mr. K Ravinder Reddy

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- 02 Dr. Anitha Mandava
- 03 Dr. Ankit Balani
- 04 Dr. Anuj Jain
- 05 Dr. Aruna Karnawat
- 06 Dr. Gayatri S
- 07 Dr. Hrushikesh Aurangabadkar
- 08 Dr. Jwala Srikala
- 09 Dr. Madhavi Nori
- 10 Dr. Mohd Mansoor Mohiuddin
- 11 Mr. Panneerselvam
- 12 Dr. Rakhee Kumar Parchuri
- 13 Dr. Ramakrishna Rao Baru
- 14 Dr. Rashmi Sudheer
- 15 Dr. Ruju Doshi
- 16 Dr. Sapna Marda
- 17 Dr. Shivakanth
- 18 Dr. Shruthi Kalyan
- 19 Dr. Srinadh Boppana
- 20 Dr. Srinivas Raju
- 21 Dr. Vishnuvardhan R

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