



# Virtual Conference on Radiation Applications in Medicine



On the occasion of

**IDMP and IDoR**

During

**7 - 8 November 2021**

Organized by

**Departments of Radiation Oncology and Radio Diagnosis  
Christian Medical College and Hospital Ludhiana**

*A Legacy of Healing, Education and Research since 1894*



Day 1 Time (IST)	<u>Scientific Programme</u> <u>November 7<sup>th</sup>, 2021 (Sunday)</u>
10.00AM - 10.30AM	Inaugural Ceremony
10.30AM - 10.40AM	<b>Session I: (IDMP Messages from President IOMP, AFOMP)</b>
10:40 AM- 12:30 PM	<b>Session II: Dr Jaineet Sachdeva, Dr Kamlesh Passi</b> <b>I-1:</b> Medical Physicists are Indispensable <b>Dr S D Sharma BARC Mumbai</b> <b>I-2:</b> Hadron Therapy <b>Dr Dayananda Sharma Apollo Proton Center Chennai</b> <b>I-3:</b> Radiation ablation for cardiac arrhythmias <b>Dr D N Sharma AIIMS New Delhi</b> <b>I-4:</b> Extracorporeal RT to bone for Osteosarcoma <b>Dr Aswin Kumar RCC Thiruvananthapuram</b> <b>T-1:</b> The Modular software platform for all Patient QA – VERIQA <b>C Narmada PTW Dosimetry India</b>
12.30PM-01.45PM	<b>Session III: Dr Subhash Singla, Dr Pamela Jeyaraj, Dr Roshan Philip</b> <b>I-5:</b> Artificial Intelligence applications in Intensity Modulated Proton therapy <b>Dr Ganapathi K Apollo Proton Center Chennai</b> <b>I-6:</b> Brachytherapy in the era of precision radiotherapy <b>Dr Bhavana Rai, PGI Chandigarh</b> <b>I-7:</b> Shining girls – dark stories <b>Mr Rakesh Kaul Max Superspeciality Hospital New Delhi</b>
01.45PM-02.30PM	Lunch Break
02.30PM-03.30PM	<b>Session IV: Best Poster Session (Judges: Dr A K Shukla, Dr L M Aggrawal, Dr Ajay Srivastava)</b> <b>PP-1:</b> Management of treatment delivery to cancer patients in Radiation Oncology department during Covid -19 Pandemic: Pandemic preparedness plan in Radiation Oncology, PPP-RO <b>Aijaz Ahmad Khan Srinagar</b> <b>PP-2:</b> Intra Luminal Radio Therapy <b>Arputha Anumanth Raj Noida</b> <b>PP-3:</b> LINAC based Stereotactic Radiation Therapy with Varian High definition MLC for Brain metastases: a Dosimetric study <b>David Ayyavu Noida</b> <b>PP-4:</b> Measurement of Out -of- field dose for flattened and unflattened X-ray beams using Ionization chamber and MOSFET detector <b>Gokulraj A Bikaner</b> <b>PP-5:</b> The Correlation between Dose Homogeneity Index and Target Volume in Intracavitary brachytherapy treatment plans <b>Gurpreet Kaur Faridkot</b> <b>PP-6:</b> Dosimetric characterization of Radiation risk to eye, nose, parotid and thyroid gland in dental intraoral radiography <b>Oguntade O.F Nigeria</b> <b>PP-7:</b> Effect of Human Tissue Composition on Dose Distribution for Low and High-energy Photon Emitting Sources Using GATE v8.2 <b>Lahcen Ait-Mlouk Morocco</b> <b>PP-8:</b> A comparative dosimetric study of field in field and IMRT techniques in the treatment of breast cancer <b>Meenu Stephen P S Bangalore</b> <b>PP-9:</b> A Study of Radiopharmaceuticals Dispenser System in Nuclear Medicine Field <b>Noorfatin Aida Baharul Amin Malaysia</b> <b>PP-10:</b> Decommissioning of Teletherapy Machine and Transport of Decayed Teletherapy Source <b>Priya Saini Jaipur</b> <b>PP-11:</b> Radiation Protection in Diagnostic Radiology <b>Samarpita Halder Kolkata</b>
03.30PM-04.30PM	<b>Session V: Dr Preeti Negi, Dr Harish Gambhir, Dr Kewal Aditya</b> <b>P-1 :</b> Design and development of QA device for verification of prescription dose in single channel HDR vaginal brachytherapy applications <b>Dr Challappalli Srinivas KMC Mangalore</b> <b>P-2 :</b> QA of CT Simulator <b>Dr Ramesh Desai, Shreeji Medical Cyclotron, IMT Manesar</b> <b>P-3 :</b> Comparative Study of Breast Radiation Therapy in Prone Position using Prone Breast Board couch Versus Supine Position <b>Mr Prakash Umbarkar Hinduja Hospital Mumbai</b> <b>P-4 :</b> “Superhero” concept to avoid anaesthesia for daily radiation treatment in childhood cancer <b>Mr Debojyoti Dhar Tata Cancer Hospital Andra Pradesh</b>
04.30PM-06.00PM	<b>Session IV: Dr Mary Joan, Mrs Manjinder Dhanoa, Dr Ankur Wadhwa</b> <b>I-8 :</b> The Physics of SBRT for moving targets <b>Dr Raghavendra Holla, Ruby Hall Clinic Pune</b> <b>I-9 :</b> Treatment of AVM: Radiotherapist’s perspective <b>Mr Deepak Kumar King Hammad University Bahrain</b> <b>I-10:</b> Virtual Environment Radiation Therapy (VERT): A virtual reality linear accelerator that brings treatment room to the classroom <b>Mr Subramanya Betageri Bellevue College USA</b>



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Day 2 Time (IST)	<b>Scientific Programme</b> <b>November 8<sup>th</sup>, 2021 (Monday)</b>
10.00AM-11.45AM	<p><b>Session VI: Dr Subhash Singla, Dr Anjali Susan</b></p> <p><b>I-11:</b> Medical Physicists- Challenges as Health Professional <b>Dr Arun Chougule AFOMP President</b></p> <p><b>I-12:</b> IDoR Symposium: <b>Interventional Radiology in CMC Ludhiana Dr Vivek Agarwal and Dr Amit Batra</b></p> <p><b>I-13:</b> MR Principles - An Overview <b>Dr S Panneer Selvam SRIHER Chennai</b></p> <p><b>I-14:</b> Artificial Intelligence:Way ahead for Radiology <b>Mr Mukesh Jain SMSMC Jaipur</b></p>
11.45PM-01.30PM	<p><b>Session VII: Dr Pamela Jeyaraj, Dr Abraham P Abraham, Dr Dimple Bhatia</b></p> <p><b>I-15:</b> Are oncology patients getting high radiation doses from CT and PET/CT exams? <b>Dr M Rehani IOMP President</b></p> <p><b>I-16:</b> Roles and Responsibilities of Nuclear Medicine Physicists in the Practice of Nuclear Medicine <b>Dr Pankaj Tandon AERB Mumbai</b></p> <p><b>I-17:</b> Role of PET based RT planning <b>Dr Rijju G KIMS Thiruvananthapuram</b></p> <p><b>I-18:</b> Establishing a new cancer center-Pearls and Perils <b>Dr Rakesh Kapoor HBCHR Mullanpur&amp;Sangrur</b></p>
01.30PM-02.00PM	Lunch Break
02.00PM-03.00PM	<p><b>Session VII: Best paper session (Judges: Dr Arun Chougule, Dr Kamlesh Passi, Dr VK Dangwal)</b></p> <p><b>OP-1:</b>Radiobiological modelling of radiation induced acute skin toxicity (dermatitis): a single institutional study of breast carcinoma <b>Balbir Singh AIIMS Bhatinda</b></p> <p><b>OP-2:</b> The influence of overall treatment time in TCP &amp; NTCP model based predictions for squamous cell carcinoma of head &amp; neck cancer treatment plans <b>Ganesh Kumar Patel BHU Varanasi</b></p> <p><b>OP-3:</b> The penumbra width determination of a single beam and 192 beams of Gamma Knife PerfexionTM based on Monte Carlo simulation <b>J Junios Indonesia</b></p> <p><b>OP-4:</b> Dosimetric Comparison between Intensity modulated radiotherapy versus volumetric modulated arc therapy treatment plans for Breast Cancer <b>Mahfuzur Rahman Bangladesh</b></p> <p><b>OP-5:</b> Low Dose Total Skin Electron Beam Therapy for the treatment of Mycosis Fungoids: Case Report of a young female <b>Misba Hamid SKIMS Srinagar</b></p> <p><b>OP-6:</b> Compositional analysis of ex-vivo atherosclerotic plaque by Electron microscopy and contrast enhanced Dual Energy CT images to detect type of plaque <b>Dr Susama Rani Mandal PGIMS Rohtak</b></p> <p><b>OP-7:</b> Comparison of Treatment Plans in Breast Cancer Radiotherapy. An In-Vivo Phantom Dosimetry Study <b>Sushma Poojar KMIO Bangalore</b></p>
03.00PM-04.30PM	<p><b>Session VIII:</b></p> <p><b>Panel Discussion: 'Extends of the frontiers of Medical Physics in Diagnostic Radiology, Nuclear Medicine and Radiotherapy: Current Issues and Way Forward'.</b></p> <p><b>Dr Arun Chougule SMS Jaipur (Moderator)</b></p> <p><b>Dr GK Rath AIIMS New Delhi</b> <span style="float:right"><b>Dr S D Sharma BARC Mumbai</b></span></p> <p><b>Dr Sanjay Sharma AIIMS Delhi</b> <span style="float:right"><b>Dr Rajesh Vashistha Max Bhatinda</b></span></p> <p><b>Dr A K Shukla PGIMS Lucknow</b> <span style="float:right"><b>Dr Pratik Kumar AIIMS Delhi</b></span></p> <p><b>Dr P K Dash Sharma AERB Mumbai</b> <span style="float:right"><b>Dr G Sahani AERB Mumbai</b></span></p> <p><b>Mr Gurvinder Singh Wadhawan RGCI Delhi</b> <span style="float:right"><b>Dr Lalit Agarwal BHU Varanasi</b></span></p>
04.30PM-05.00PM	Valedictory Function