AMPICON 2026

■ Physics & Imaging ■ Clinical & Radiobiology ■ Professional & Patient-Centric ■ Student Flash Wave ■ Plenary & Oration

Day 1: Thursday, 10 December 2026

Time	Becquerel Hall
11:30 - 13:00	Varian workshop Session Moderators: TBD
14:00 – 14:45	**Adaptive by Design: Plan, Evaluate and Demonstrate – An interactive workshop on treatment planning by** Accuray Medical Equipment (India) Private Limited Session Moderators: TBD
15:00 - 16:30	**CMPI Refresher course** Session Moderators: Dr. Niyas Puzhakkal, Dr MariaDas **RC1:** Flash Radiotherapy-Physics and Clinical Translation: Dr T Ganesh, Chennai **RC2:** Problems to Publications - A Medical Physicist's Research Journey: Dr Paul Ravindran, Bhimapur **RC3:** Proton Therapy System: From Production to delivery Dr Ganapathi K C, Chennai
16:30	CMPI GBM

Day 2: Friday, 11 December 2026

Time	Becquerel Hall
9.00 - 10:15	**FOS 1: High-Precision Photon & Electron Delivery** **Session Moderators: TBD** **FO1: AMPICON26_ABS_P2685**: Patient-Specific OAR Dose Prediction and Optimization Opportunity Identification Using Anatomy-Aware AI in Head-and-Neck VMAT - **Mr. Abhay Singh** **FO2: AMPICON26_ABS_D3858:** Retrospective Assessment of Unrealized Optimization Potential in Head-and-Neck VMAT Using SunCHECK Pre-Plan Feasibility: Dosimetric Benefits and Complexity Trade-offs - **Mr. Sougata Nag** **FO3: AMPICON26_ABS_S7836**: Characterization Of Pmlc Shaped Electron Beams And Dose Validation In Phantom Based Chest Wall Irradiation - **Yakshini Kumar** **FO4: AMPICON26_ABS_Y3993**: Validation of Radiation Treatment Planning Calculation Accuracy in the Presence of Metallic Implants - **Dr. Gopishankar Natanasabapathi** **FO5: AMPICON26_ABS_V1225**: Dosimetric Comparison and plan complexity of Split Arc and Partial Arc for Hypofractionated Radiotherapy for Breast using VMAT - **Shrikant Kale** **FO6: AMPICON26_ABS_Y5821**: Comprehensive Validation of Monaco TPS Utilising AAPM MPPG 5. a. Guidelines - **Anju K V** **FO7: AMPICON26_ABS_F3142**: Dosimetric Evaluation of Hybrid 3DCRT& VMAT Planning Techniques in Left-Sided Breast Cancer - **Likith A N** **FO8: AMPICON26_ABS_R4380**: Skin-Rind Optimization for Reducing Acute Radiation Dermatitis in Whole-Breast IMRT: A Prospective Clinical and Dosimetric Study - **Aijaz Khan**
11.30 – 12.00	**FOS 2: Dosimetry and Quality audit** **Session Moderators: TBD** **FO9: AMPICON26_ABS_H6272**: Dose calculation of 90Y Yttrium glass microspheres used for treatment of liver cancer using Monte Carlo technique - **Dr. Sridhar Sahoo**

12.00 – 13.00	**FO10: AMPICON26_ABS_R5718:** Multi-Module LINAC QA Analysis and Reporting Platform - **Sandra S** **FO11: AMPICON26_ABS_K7063**: Towards Indigenous Medical Dosimetry: An Al2O3:C OSL Dosimetry System with Novel Phosphor Synthesis and Integrated Laser-Based Readout - **Dr. ANUJ SONI** **FO12: AMPICON26_ABS_M2381:** Determining the Optimal Fricke Dosimeter Volume for High-Resolution Dose Mapping in Gamma Irradiation Chamber (GIC-5000) - **Ms. Deepanshi Gupta** **FO13: AMPICON26_ABS_I8226:** Impact of Smoothing Constraint on Dosimetric Quality with Acuros BV Inverse Planning for Volume-Based HDR Brachytherapy in Cervical Carcinoma - **Ms. Vishnupriya Sajeev M** **FO14: AMPICON26_ABS_W24111:** Dosimetric impact of enhanced leaf model (ELM) on gamma analysis for IMRT and VMAT plans - **Saranya Kamalakannan** **FO15: AMPICON26_ABS_L2303:** Fracton-by-Fracton Evaluation of Mobius and ArcCHECK Patent-Specific Quality Assurance in ETHOS Online Adaptive Pelvic Radiotherapy - **DINESH SAINI** **FO16: AMPICON26_ABS_U6460:** Clinical Interchangeability Of Beam Matched Elekta Versa Hd And Harmony Linac: A Comprehensive Evaluation Using Dosimetric Analysis And Patient Specific Qa - **Rakshitha M** **FO17: AMPICON26_ABS_C6340:** Adaptation of New Correction Factors for FFF Beams in Relative and Reference Dosimetry as per Updated TRS-398 and AAPM TG-51 addendum - **Srinu Aketi** **FO18: AMPICON26_ABS_J1549:** Activity-Normalized Stability and Leakage Assessment of Clinical Ionization Chambers Using an In-House 3D-Printed Phantom Under HDR Ir Brachytherapy Conditions - **Nirmal Kumar Babu** **Fo19: AMPICON26_ABS_Y6112:** Assessment of Constancy of Well-Type Ionization Chamber Using a LINAC with 4MV and 6MV Photon beams - **H Lalchhandami** **FO20: AMPICON26_ABS_K6225** :Absorbed dose to selected organs during Ac-225 targeted alpha therapy of prostate cancer using Monte Carlo simulations in mesh phantom **- Deepak Akar** **FO21: AMPICON26_ABS_G4587**: Enhanced Thermoluminescence Properties of Lithium Zinc Borate Doped with Dysprosium for Gamma Radiation Monitoring - **Sumit Thorat** **FO22: AMPICON26_ABS_F6844 :** Dosimetric Performance of Newly & In-House Developed Sri FC 6G -Farmer Chamber - **Dr. Barlanka Ravikumar**
13:00 – 14:00	Lunch Break

14:00 - 15:00	Elekta Workshop **Session Moderators: TBD**
15:00 - 17:00	**FOS 3: AI & Big Data in Physics** Session Moderators: TBD **FO23: AMPICON26_ABS_J1126**: Impact of Image Selection Strategies on the Performance of Class-Balanced Diabetic Retinopathy Grading Model - **Dr. Mohini Manav** **FO24: AMPICON26_ABS_T6313**: Transfer Learning-Based Rapid Institutional Adaptation of a Pretrained 3D Deep Learning Dose-Prediction Model Using Limited Head-and-Neck IMRT Data - **Sharandeep Singh** **FO25: AMPICON26_ABS_A4373:** Systematic Implementation Of Rapidplan In Left Breast Radiotherapy Planning - **Fathima Shahna T** **FO26: AMPICON26_ABS_T2826**: Automated Segmentation and Detection of Hepatocellular Carcinoma (HCC) on Arterial Phase CT: A Deep Learning Approach with nnU-Net - **Pandiyaraj Saravanan** **FO27: AMPICON26_ABS_X3324**: Development and Validation of a Knowledge-Based RapidPlanÂ® Model for VMAT Planning in Endometrial Cancer - **Anjali Babu** **FO28: AMPICON26_ABS_C3790**: Development of a Proposed Triage Framework and Digital Decision-Support Tool for Adaptive Replanning Prioritization in Head and Neck Radiotherapy: Study Design and Planned Methodology - **Snehal Jadhav**

Day 3: Saturday, 12 December 2026

Time	Becquerel Hall
9:00 - 10:30	**FOAS: High Precision Radiotherapy** Session Moderators: TBD **FO29: AMPICON26_ABS_H9490:** Origin of Micronuclei in Radiation Exposed and Unexposed Human Peripheral Blood Lymphocytes from Smokers & Non-smoker - **Utkarsha Mungse**

	FO30: AMPICON26_ABS_B8613: Geant4 Monte Carlo TG-43 Dosimetric Validation of the GammaMed Plus iX Â¹?Â²Ir HDR Source and ICRU-38 Reference Point Dose Verification Using a Fletcher-Suit Tandem and Ovoids Applicator - **Sudhanshu Sekhar Rana** **FO31: AMPICON26_ABS_A1231**: Organ Dosimetry for 99mTc-MDP Using Anthropomorphic Mesh Phantom for Diagnostic Nuclear Medicine - **Yuglesh Kumari** **FO32: AMPICON26_ABS_N2916**: Assessment of Dose Delivery, Planned Non Adaptive and Adaptive Approaches in Fractionated Radiotherapy for Craniopharyngioma - **Arshad Ahammad M V** **FO33: AMPICON26_ABS_M5370**: Evaluation of LET-Dependent RBE Models for Proton Mini-Beam Radiation Therapy - **Shakil Ahamad** **FO34: AMPICON26_ABS_J7381** : A 5-Year Retrospective Review of Safety Deviations observed during inspections in Radiotherapy Departments in India - **Amit Sen** **FO35: AMPICON26_ABS_G3968**: Significance of the number of respiratory phase bins in 4DCT for tumor target delineation - **Anu Maria Sunil** **FO36: AMPICON26_ABS_S6797**: Quantitative Evaluation Of Deformable Image Registration In Accuray Precision And 3d Slicer Using Tg-132 And Direp Phantom Datasets - **Megha K R** **FO37: AMPICON26_ABS_P4284**: Evaluation of RapidArc Dynamic RapidArc and Intensity Modulated Radiotherapy Plans Using Dynamic Gradient Index in Prostate SBRT - **Velmurugan T** **FO38: AMPICON26_ABS_C4436**: Volume-Adapted Optimization of Prescription Isodose Lines in CyberKnife Stereotactic Radiosurgery for Solitary Brain Metastases: A Dosimetric Analysis - **Susan K Abraham**