



37th Annual Conference of Association of Medical Physicists of India

18-20 November 2016 | Marriott Convention Centre, Hyderabad

Theme : Innovative radiological applications for improved cancer care.

*Celebrating 40 Glorious Years of AMPI
Scientific Programme*

Day 1 – 18th November 2016		Speaker
Time	Title	
Registrations		
08.00-09.00	Welcome Note By AMPICON 2016 Chairman, Secretary, Scientific committee Convener (Local & National)	
09.30-11.10	Session – I (Hall A)	
09.30-09.55	I-01 Medical physics education status - Professional organizations and regulations	Chairpersons: Dr.D. Deshpande, Dr.K.J. Mariadas Dr. Arun Chougule
09.55-10.20	I-02 Advanced QA tools for modern Linacs - A new QA Paradigm	Dr. Goodu Sree Krishna
10.20-10.45	I-03 Medical Physics and value addition in healthcare - A Paradigm Shift	Dr. A.K. Rath
10.45-11.10	I-04 Ionizing Radiation, fear and public health	Dr. Madhav Bhatt K
11.10-11.30	<i>Trade and e-Poster Inauguration followed by High Tea (Sponsored by - Panacea Medical Technologies)</i>	
11.30-13.00	Session – II (Hall A)	
11.30-11.55	I-05 TG-100: Application of risk analysis methods to radiation therapy quality management	Chairpersons: Dr. Rajesh Vasista, Dr.K.R. Muralidhar Dr. T.Ganesh
11.55-12.20	T-01 Technical Talk_Varian	Trade Delegate
12.20-12.30	O-01 Phantom study to compare the accuracy of Non-radiological positioning systems with CBCT	Dr Paul Ravindran B
12.30-12.40	O-02 Trajectory modulated arc therapy using quasi-continuous couch motion layered on top of volumetric modulated arc therapy in left breast and chest wall irradiation: A feasibility study	Dr Biplob Sarkar
12.40-12.50	O-03 Initiative towards adaptive planning: Volume and dosimetric analysis of rectum and bladder for Ca Prostate patients by using KV Cone beam CT(CBCT)	K Venkatesan
12.50-13.00	O-04 Towards the clinical implementation of on board detector exit dosimetry tool for helical Tomotherapy delivery quality assurance	Shrikant Deshpande
11.30-13.00	Session – II A (Hall B)	
11.30-11.55	I-06 Laser back scatter photons for medical isotope production A possible use of INDUS Synchrotrons	Chairpersons: Mr. V.K. Sathya Narayanan, Dr.C. RamaKrishna Rao Prof. Rangacharyulu
11.55-12.20	I-07 Development of a secondary multi leaf collimator for indigenous telecobalt machine Bhabhatron - II	Dr.S.D.Sharma
12.20-12.30	O-05 Dosimetry of beam modifying devices in Theratron Equinox-80 Machine: BEAMnrc MC Simulation Study	Dr Narayan Prasad Patel
12.30-12.40	O-06 Probabilistic safety assessment of Indigenous developed telecobalt facility	Dr. Rajib Lochan Sha
12.40-12.50	O-07 Measurement and comparison of scattered dose at 'etus level' in Telecobalt and Linac using phantoms	Mahendra More
12.50-13.00	O-08 Indigenous conventional radiotherapy simulator: where we stand?	Dr Lalit M Aggarwal
13.00-14.00	<i>Lunch Break & Poster Viewing (Sponsored by - PTW Dosimetry)</i>	
14.00-15.40	Session – III (Hall A)	
14.00-14.25	I-08 Need for Medical Physics Staffing Survey in India: AMPI Perspective	Chairpersons: Dr. Rajesh Kinhihar, Dr.NVV Madhu Sudhana Sresty Dr.V.Subramani
14.25-14.50	T-02 Technical Talk_Elekt	Trade Delegate
14.50-15.00	O-09 Development of technical quality control guidelines for radiotherapy equipment in Canada	Dr Chandra P. Joshi
15.00-15.10	O-04 Clinical Validation of DIR based automatic CT-to-CT contour propagation for Brain, H&N, Cervix, and Prostate	Dr Phurailatpama Reena
15.10-15.30	T-03 Technical Talk_Accuracy	Trade Delegate
15.30-15.40	O-11 MLC leaves position during IMRT: EPID vs. Trajectory Log file	Dr. Rajesh Kumar

Day 1 – 18th November 2016

Time	Title	Speaker
Session – IIIA (Hall B)		
Chairpersons: Dr.R. Ravichandran, Dr.U.P. Shahi		
14.00-14.25	I-09 Radiotherapy Combining with immunotherapy: a radical change in underlying beliefs	Dr.T.S. Kehwar
14.25-14.35	O-12 Study of Radiation Doses to Heart & Lung in treatment of left breast cancer using CBCT planning	KKD Ramesh
14.35-14.45	O-13 Evaluation of volumetric modulated arc therapy optimization strategy for a typical head and neck cancer	Shabbir Ahamed
14.45-15.00	PR-01 Poster Rapporteur (01-21)	Ramalingam
15.00-15.10	O-14 Analysis of Geometrical and Angular Orientation of 201 Cobalt-60 Sources in a Gamma Knife Unit using radio chromic film	Ponnusamy Natesan
15.10-15.20	O-15 Validation of spinal cord dose obtained from Biological constraints based optimization	Anurag A. Luharia
15.20-15.30	O-16 Comparison of clinical outcomes of 3DCRT and IMRT techniques for different treatment sites using TCP and NTCP radio-biological models	Gurvinder Singh
15.30-15.45	PR-02 Poster Rapporteur (22-42)	Dr.C.S. Sureka
15.40-16.00	Tea Break (Sponsored by: Kirloskar Technologies)	
16.00-17.00	Session – IV (Hall A)	
Chairpersons: Mrs. M.K Revathy, Dr.D. Datta		
16.00-16.10	O-17 Evaluation of ArcCHECK SNC machine QA tool on Truebeam STX	Vaibhav R Mhatre
16.10-16.20	O-18 Comparison of PTV-based IMPT Plans with robustly optimized IMPT Plans	Bojarajan Perumal
16.20-16.40	T-04 Technical Talk _ Wipro GE	Trade Delegate
16.40-16.50	O-19 Commissioning Tests on Cyberknife M6 Robotic Radiosurgery System	Raghavendra Holla
16.50-17.00	O-20 Impact of Auto material assignment uncertainty on AcurosXB Dose calculation	Perumal Murugan
16.00-17.00	Session – IVA (Hall B)	
Chairpersons: Dr. A. Balraj, Mrs. Gayathri Sahu		
16.00-16.15	PR-03 Poster Rapporteur (43-63)	Dr. K.M. Ganesh
16.15-16.25	O-21 Evaluation of registration techniques for PET/CT fusion in radiotherapy treatment planning of carcinoma lung patients: Our initial experience	Dr Deboleena Mukherjee
16.25-16.35	O-22 Static and Dynamic Intensity Modulated Radiation Therapy (IMRT): Dosimetric and treatment time comparison for brain cases	Ramya Venugopal
16.35-16.45	O-23 Establishing plan specific EBRT3 film QA for Flattening Filter Free (FFF) SRS/SRT dynamic arc techniques	S.Vendan
16.45-17.00	PR-04 Poster Rapporteur (64-84)	Dr. A. Pichandi
17.00-18.00	Session – V (Dr Ramalinga Neiddu Memorial Orator)- Hall A	
Chairpersons: Dr. Arun Chougule, Dr.V. Subramani		
18.00-19.00	Inauguration	
<i>By Sri. Laxma Reddy, Hon'ble Health Minister, Govt. of Telangana</i>		
<i>Dinner (Sponsored by: Varian Medical Systems) Venue: Manasarovar The Fern, Chiran Fort Club, US Consulate Lane, Begumpet.</i>		
19.00 Onwards		



Day 2 – 19th November 2016		
Time	Title	Speaker
Refresher Course (Hall A)		
08.20-09.20		
08.20-08.40	RC-01 Beam Characteristics of FF and FFF beam	Sai Subramaniam
08.40-09.00	RC-02 Quality Assurance of SRS/SRT Treatments	Dr.Saju Bhasi
09.00-09.20	RC-03 The Physics era: The future of physics in medicine and its role in genomics	Dr.K.R. Muralidhar
Session – VI (Hall A)		
09.20-11.00		
09.20-09.45	I-10 Stereotactic VMAT Technique - Commissioning, clinical implementation and QA work flow	Dr. Hema Vaidhianathan
09.45-10.05	T-05 Technical Talk _Elekta	Trada Delegate
10.05-10.30	I-11 How real time MR guidance is advancing the role of radiation therapy?	Dr.Bhuddatt R Pallwal
10.30-10.50	T-06 Technical Talk _POCL	Trada Delegate
10.50-11.00	O-24 Quantitative evaluation of inter fractional and intra fractional target motion in lung cancer radiotherapy	Dr Nirmal Kumar Painuly
Session – VIIA (Hall B)		
09.20-09.45	I-12 Segmentation of Medical Image Using Dempster-Shafer Evidence Theory and Rough Set Theory	Dr. Catta D
09.45-10.10	I-13 Validation of first national Occupational Dose registry in Oman	Dr. Arun Kumar LS
10.10-10.30	I-14 Feasibility of dosimetric measurements in phantom with ion chamber, TLD & Radiochromic film for the junctions during crano spinal axis irradiation with Rapid Arc	Dr. Rajesh Kinnikar
10.30-10.40	O-25 Overview of occupational exposures in medical applications during 2001-2010	Dr Suresh. S. Sanaye
10.40-10.50	O-26 Mapping of radiation Field in the Workplace of Diagnostic Radiology using Personnel Monitoring TLD Badges	Dr Kshama Srivastava
10.50-11.00	O-27 Challenges faced in development and implementation of electronic licensing system for radiation facilities	B Mishra
Tea Break (Sponsored by - Team Best Theratronics)		
11.00-11.20		
Session – VII (Hall A)		
11.20-11.45	I-15 Intraoperative Radiation Therapy with low energy x-rays for early stage breast cancer: Techniques, Dosimetry and Radiobiological aspects	Dr.Anil K Sharma
11.45-12.10	T-07 Technical Talk _PTW	Trada Delegate
12.10-12.30	I-16 Evolution of Radiation oncology in India: What lies in future?	Dr. L. P. Shahi
12.30-12.40	O-28 In-vivo dose measurements using micro-MOSFET dosimeters for IMRT head & neck patients	Sathish Kumar A
12.40-12.50	O-29 Impact on patient specific Quality Assurance results by modeling Elekta MIC2 characterization	Mohamraj U
12.50-13.00	T-08 Technical Talk _Team best	Trada Delegate
Session – VIIA (Hall B)		
11.20-13.00		
11.20-11.45	I-17 Online estimations of delivered radiation doses in 3D CRT for Ca Cervix treatments in Linear Accelerator	Dr. Chellipalli Srinivas
11.45-12.10	I-18 Systems Radio pharmacology - Physics and Radiation Pharma	Dr. Rao Papineni
12.10-12.20	O-30 Radioactive I-131 Iodine therapeutic applications-Whole body activity retention measurements and their implications	Dr Ramamoorthy Ravichandran
12.20-12.30	O-31 Image Reconstruction Techniques in SPECT	Dr Pankaj Tandon

Chairpersons: Dr.A.K. Rath, Dr. Sai Subramaniam

Chairpersons: Dr.T. Ganesh, Mr.P. Krishna Reddy

Chairpersons: Dr.S.D. Sharma, Dr. Saju Bhasi

Chairpersons: Dr.K.Thayalan, Dr. Kalluri Subramanyam & Dr. Suresh P

Day 2 – 19th November 2016

Time	Title	Speaker
12.30-12.40	O-32 Evaluation of Electron Specific Absorbed Fractions in organs of Digimouse Voxel Phantom using Monte Carlo Simulation code FLUKA	Dr Navin Singh
12.40-12.50	O-33 Development and standardization of input parameters of a SSR based image processing method to detect Abdomino-Pelvic tumors on 18F-FDG PET/CT scan	Kartik Saroha
12.50-13.00	O-34 [18F]FDG production facility of medical cyclotron- an approach for estimation of internal dose	Kalavallapudi Srihari
13.00-14.00	Lunch Break (Sponsored by POCL Medical Solutions)	
14.00-15:40		
Session – VIII (Hall A)		
<i>Chairpersons: Dr.B. Paul Ravindran, Dr. Rajesh Kumar</i>		
14.00-14.25	I-19 Electro Magnetic tracking of catheter paths in interstitial Brachytherapy in different imaging and operating rooms environments	Dr. Chandra Prakash Joshi
14.25-14.50	I-20 The Role of Graphite calorimetry in Advanced Radiotherapy treatments	Dr. Ganesan Ramanathan
14.50-15.10	T-09 Technical Talk_Varian	Trada Delegate
15.10-15.20	O-35 Comparison of two independent air kerms standards for strength measurement of HDR 192Ir brachytherapy sources	Dr Sudhir Kumar
15.20-15.30	O-36 Indigenously developed 3D Printer and fabricated multichannel shielding Brachytherapy applicator	Dr Shanmugam Senthilkumar
15.30-15.40	O-37 FLUKA-based Monte Carlo study of a miniature Electronic Brachytherapy Source	Subhalaxmi Mishra
14.00-15:40		
Session – VIII A (Hall B)		
<i>Chairpersons: Dr. Navin Singh, Dr.S. Senthilkumar</i>		
14.00-14.15	PR-05 Poster Rapporteur (85-105)	Karthikeyan
14.15-14.30	PR-06 Poster Rapporteur (106-126)	Dr.A. Balraj
14.30-14.40	O-38 Radiation dose during intra-operative Cone Beam Computed Tomography (C-Arm) scanning during surgery of spine	Dr.Pratik Kumar
14.40-14.50	O-39 Implementation of CUDA-based reconstruction in an In-house Optical Cone Beam CT for 3D Dosimetry	Amalan S
14.50-15.00	O-40 Studies on yH2AX foci immuno detection Technique in the estimation of radiation doses to the patients undergoing chest and abdominal CT scan	Dr Aai Kumar Srivastava
15.00-15.10	O-41 Experience with the IAEA Quality Assurance Protocol for Full Field Digital Mammography Equipment	Dr Auna Kaushik
15.10-15.25	PR-07 Poster Rapporteur (127-147)	Manikandan A
15.25-15.40	PR-08 Poster Rapporteur (148-168)	Maillkarjuna A
15.40-16.00	Tea Break (Sponsored by - Brainlab India)	
16.00-19.00	AMPI Special GBM in Hall A	
Refresher Course and Quiz Session IX (Hall B)		
16.00-16.20	RC-04 Quantifying the performance of an IMRT planning system following the AAPM Task Group 119 Report	Dr. Waimeed Abdel Rehman
16.20-16.40	RC-05 An Overview of Exactrac Imaging System	Ram Mohan Reddy
16.40-17.00	RC-06 An Overview of IMRT and VMAT Planning	Mallasham
17.00-18.00	Students Medical physics Quiz Competition	Dr. Kamalesh Passi, Dr Deboleena Mukherjee Dr Shobha Jayaprakash Mrs Revathy
19.00 Onwards	Dinner (Sponsored by Elekta Medical Systems)	Venue: Classic Gardens, Balamrai, Secunderabad

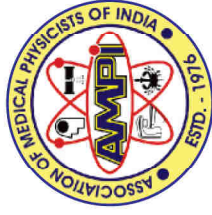


Day 3 – 20th November 2016		
Time	Title	Speaker
<i>Refresher Course (Hall A)</i>		
08.20-09.00		
08.20-08.40	RC-07 Motion Managements Techniques in Current RT Practice	Dr. Madhusudhana Sresty NVN
08.40-09.00	RC-08 An Overview of Cyberknife	Janardhan N
<i>Session X (Hall A)</i>		
<i>Chairpersons: Dr.Challapalli Srinivas, Dr. Dayanada Sharma</i>		
09.00-09.25	I-21 Image Guidance in Radiation therapy - Current applications and future directions	Dr. Sastry Vedam
09.25-09.45	I-22 OSLD: A Potential dosimeter in Radiotherapy	Dr. M. Ravikumar
09.45-10.10	I-23 Use of Linac Manufacturer data in commissioning treatment planning systems - King Fahad Specialist Hospital Experience	Dr. Wamied Abdel Rehman
10.10-10.20	O-42 TPS-aided heterogeneity correction method for EPID-based, patient-specific dose verification	A Manikandan
10.20-10.30	O-43 Cranio spinal radiation using flattened and unflat beams using volumetric modulated arc therapy with Rapid Arc: A feasibility study	S.Maruthu Pandian
<i>Session – XI (Hall A)</i>		
<i>Chairpersons: Dr. Wamied Abdel Rehman, Dr.M. Ravikumar</i>		
10.30-10.55	I-24 Planning of First Proton Therapy Facility in India	Dr. Dayanada Sharma
10.55-11.15	I-25 Frameless stereotactic treatments using carbon target imaging, column rotation and unflat beam	V.K.Sathiya Narayanan
11.15-11.35	I-26 Dosimetric comparison of VMAT and Dynamic IMRT in Head and Neck Cancers	S. Sowmya Narayanan
11.35-11.45	O-10 Is patient specific IMRT QA can predict the dose variation in target and OARs?	Dr Jamema V Swamidas
11.45-12.00 Tea Break (Sponsored by - Rosalina Instruments)		
<i>Session XII - AMPI Best Paper Session (Hall A)</i>		
<i>Chairpersons: Mr. Balasubramaniam N, Dr. E. Varadarajan</i>		
12.00-12.10	BP-01 Evaluation and comparison of various dosimetric characteristics for in vivo dosimetry of various luminescence dosimetry systems available in institute	Gourav Kumar Jain
12.10-12.20	BP-02 A study to find optimal weightage in Hybrid VMAT technique for the treatment of post mastectomy Carcinoma Breast patients	Karunakaran Balaji
12.20-12.30	BP-03 Multicriteria Radiobiological Optimization for partial arc volumetric modulated arc therapy (VMAT), AIIMS experience - a Retrospective study	Ashish Binjola
12.30-12.40	BP-04 Revisiting the choice of detector for commissioning of a Linear Accelerator for clinical use	Henry Finlay Godson
12.40-12.50	BP-05 Mathematical approach to characterize dosimetric parameters of un-flat photon beam of a medical linear accelerator	Smriti Sharma
12.50-13.00	BP-06 Performance of SPICE Auto-contouring on Pseudo CT (MRCAT) based on MRI compared against Real CT	Gipson Joe Anto
13.00-14.00 Lunch Break (Sponsored by - Accury Medical Equipment)		
<i>Session XIII</i>		
<i>Chairpersons: Dr.M.K. Semwal, Mr. K. Ramalingam</i>		
14.00-14.10	O-45 Extended tomographic localization and adaptive dose calculation using hounsfield units corrected cone beam CT with enlarged scanning length	Mohamathu Rafic K
14.10-14.20	O-46 Dosimetric comparison of Eclipse AAA versus AXB algorithms for various clinical sites.	Garagarapu Sri Krishna

Day 3 – 20th November 2016

Time	Title	Speaker
14.20-16.00	Session XIV - Kingston Medical Physics Student Presentation Award	Chairpersons: Dr.Chadra Prakash Joshi, Mr. Sowmya Narayanan
14.20-14.30	O-47 Analysis of transition in surface and build-up region doses with different filters	John Paul Puravath
14.30-14.40	O-48 Characteristics of optically stimulated luminescence dosimetry in the diagnostic X-Ray energy range	R. Arun
14.40-14.50	O-49 Comparison of MLC based Cobalt-60 plans with 6MV: A DVH analysis	Akula Roopa Rani
14.50-15.00	O-50 A Dosimetric Study on Leipzig Applicator	Kasthuri Susan Samuel
15.00-15.10	O-51 Dose -Volume Comparison of Fletcher Suit and Ring-Tandem Applicator in Brachytherapy	Pooja Moundekar
15.10-15.20	O-52 Dosimetric And Radiobiological Evaluation of HDR Intersitial Brachytherapy Implants In Carcinoma Of Cervix	Shilpa. T
15.20-15.30	O-53 Comparison of Flattening Filter (FF) and Flattening-Filter-Free (FFF) 6 MV photon beam characteristics for small field dosimetry using EGSnrc Monte Carlo code	S. Sangeetha
15.30-15.40	O-54 Quantification of DNA double-strand break induced by radiation and chemotherapy in cervix-cancer cells: in-vitro study	Sothing Vashum
15.40-15.50	O-55 Evaluation and Validation of Fast Super Position algorithm in heterogeneous phantom for small fields used in intensity modulated radiotherapy.	Aslam PA
15.50-16.00	O-56 Comparative analysis of various dosimetric parameters of True Beam Linac and newly introduced Vital beam Linac qualitatively and quantitatively	Ganeshkumar Patel
16.00-16.30	Valedictory Function	
Tea and Disperse (Sponsored by - Bebig- Eckert & Ziegler)		
THANKYOU – AMPICON 2016 Organizing Committee		





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