

**SCIENTIFIC PROGRAMME**  
**NATIONAL SYMPOSIUM**  
on  
**High Precision Radiation Oncology:**  
Quality and Safety Perspectives (HIPRO2018)  
Date: March 24-25th, 2018  
Venue: JL Auditorium AIIMS, New Delhi

**Day 1 – Saturday, 24<sup>th</sup> March, 2018**

8:00 - 9:00	Registration
9:00 - 10:00	Inauguration
Chief Guest: Shri.S.A.Bhardwaj, Chairman, AERB, Mumbai	
10:00 - 10:20	Tea Break

**Session – I: Quality Research, Education & Training and Management**  
Chairpersons: Prof.Subhash Chander, Prof.S.K.Koul, Dr.Rajesh Vashishtha

10:20 -10:40	Translational Research in Indian Cancer Scenario	Prof. G.K.Rath	AIIMS-NCI, New Delhi
10:40-11:00	Quality Management in Radiation Oncology	Prof.Eric Ford	Univ.Washington Medical Centre, Seattle, USA
11:00 -11:20	Safety in Radiation Oncology Incident Reporting and Learning System, SAFRON	Dr.Debbie Gilley	IAEA, Vienna, Austria

11: 20 - 12:30

**Session – II: Panel Discussion on**  
**Essentials for Improving Quality, Safety and Access to Radiation Therapy Practice**

Moderators: Prof.Arun Chougule & Dr. G.V.Giri

**Topics & Panelists**

- Education and Training** : Medical Physics - Prof. Maria Das, SGPGI, Lucknow  
Radiation Oncology - Dr.Anusheel Munshi, FMRI, Gurgaon  
Radiotherapy Technology - Mr.G.Wadhavan, RGCI, Delhi
- Research and Development:** Medical Physics - Prof. Paul Ravindran, CMC, Vellore  
Radiation Oncology - Prof. D.N.Sharma, AIIMS, New Delhi  
Technology Development - Dr.S.D.Sharma, BARC, Mumbai
- Infrastructure and Staffing** : Dr.V.Subramani, AIIMS, New Delhi
- National Radiation Safety Regulatory Aspects** : Dr.P.K.Dash Sharma, AERB, Mumbai
- Collaboration with Inter-organizations:** Prof.K.N.Govindrajan, PSG Tech Hospital, Coimbatore

**Session – III: High Precision Radiation Oncology: Planning Technologies & Methodologies**  
Chairperson: Dr.A.K.Bansal, Dr.Munish Gairola and Mr.Saji Ooman

12:30 - 12:50	Quality Commissioning and Clinical Implementation of IMRT/SRS/SBRT	Dr. Raghavendra Holla	AIMS, Cochin
12:50 – 1:10	Potential of PET/MRI in Radiation Oncology	Dr. A. Jena	Indraprastha Apollo Hospital, New Delhi
1:10 - 1:30	Role of 4D and Biological imaging in Target Volume Definition	Dr. Supriya Mallick	AIIMS-NCI, Jhajjar
1:30 - 1:50	Automatic Knowledge-Based Treatment Planning & Auto QA	Dr.Willem Verbakel	VUMC, Amsterdam

1:50 - 2:30 Lunch Break

**Session – IV: High Precision Radiation Oncology: Delivery Technologies & Methodologies**  
Chairperson: Prof.Ravikumar, Dr.Tejinder Kataria and Dr.E.Varadharajan

2:30 - 2:50	Role of CBCT: From Therapy Guidance, Motion Estimation to Dose Adaptive	Dr. Shanmuga Subramanian	Yashoda Hospital, Hyderabad
2:50 - 3:10	Adaptive Radiation Therapy in Clinical Practice	Dr.A.K.Anand	Max Hospital, Delhi
3:10 -3:30	World's First Online Adaptive MR Image-Guided Radiation Therapy System: Clinical Experience.	Dr.Benjamin W Fischer Valuck (sponsored talk by ViewRay/ Scan-O-Plan system India)	Washington Univ. St. Louis, USA
3:30 - 3:50	Advances in Image-Guided Brachytherapy & Implementation of ICRU-89	Dr.S.Jamema	TMH, Mumbai

3.50 – 4.20 Tea Break

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<b>Session – V :</b> Planning of a National Centre for Particle Therapy and Research : Proton? or Carbon-Ion? or Hybrid Technology?			
Chairpersons: Prof.D.D.Deshpande, Dr.S.Hukku and Dr.A.K.Rath			
4:20 - 4:40	Regulatory Aspects of Facility Planning of Particle Therapy	Dr.G. Sahani	AERB, Mumbai
4:40 - 5:00	Physics, Technology and Safety Aspects of Particle Therapy	Prof.Eric Ford	Univ. of Washington Medical Centre, Seattle, USA
5:00 - 5:20	Clinical Aspects of Particle Therapy	Dr.Ahitagni Biswas	AIIMS, New Delhi.
5:20 -5:40	<b>Poster Session Reporters: Dr.Abishek Shankar, Dr.N.Gopishankar &amp; Dr.R.K.Bisht</b>		
7:30-10:00	Dinner		

<b><u>Day 2 – Sunday, 25<sup>th</sup> March, 2018</u></b>			
<b>Session – VI :</b> Radiobiology and Safety in Advanced Radiotherapy Practices			
Chairpersons: Dr.N.Balasubramanian, Dr.Saroj kumar Das Majumdar, Dr.A.K.Srivastava & Mr.Ajit Singh			
9:00 - 9:20	Radiobiological Model of SRS/SBRT	Dr.R.Holla	AIMS, Cochin
9:20 - 9:40	Choose Wisely and Target Safely for Quality Care.	Dr.Benjamin W Fischer Valuck.	Washington Univ. St. Louis, USA.
9:40 - 10:00	Risk Assessment Methods in IMRT/VMAT: AAPM TG-100.	Prof.Eric Ford	Univ. of Washington Medical Centre, Seattle, USA
10:00 - 10:20	Quality and Safety Considerations in SBRT	Dr.Willem Verbakel	VUMC, Amsterdam
10:20 - 10:40	Safety and Incidents in HDR Brachytherapy	Dr.P.K.Sharma	Fortis Hospital,Noida
10:40 - 11:00	New Capabilities in High Precision Radiosurgery Treatment Delivery with Edge and Hyper Arc”	Mr. David James	Varian Medical Systems, Munich Germany
11:00 - 11:20	Safe Delivery of Advanced Radiation Treatment: Technologist's View	Mr. Sanjay Kumar	AIIMS, New Delhi
11:20 -11:40	Tea Break		
<b>Session – VII :</b> Strengthening of Quality Assurance and Safety Programmes			
Chairpersons: Prof.Kishore Singh, Prof. Challapalli Srinivas & Dr.Anuj Tyagi			
11:40 - 12:00	Clinical QA- Requirements & Resources	Prof.Suman Bhasker	AIIMS, New Delhi
12:00 - 12:20	Physics QA-Requirements & Resources	Dr.Manoj Semwal	RR Hospital, Delhi
12:20 - 12:40	Quality Auditing: External? or Internal?	Mr.R.K.Munjal	Max Hospital, Delhi
12:40 - 1:00	Accreditation & Certification programme	Prof.N.K.Painuly	KG MU, Lucknow
1:00 - 1:20	Clinical Trials & Credentialing Process	Mrs.Seema Sharma	AIIMS, New Delhi

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1:30 - 2:30				Lunch Break			
2:30 PM				AMPI Special General Body Meeting 2018 at JL Auditorium, AIIMS, New Delhi			
<p><b>Session – IX : Practicum on “4D Stereotactic Body Radiation Therapy (SBRT)”</b></p> <p>Venue: New Linear Accelerator Site, Dept.of Radiotherapy, Dr.B.R.A.IRCH AIIMS, New Delhi</p> <p>Practicum Co-coordinators: Dr.Subash Gupta and Mr.S.Megha Singh</p>							
3:00 - 4:00	4D-CT/CBCT based SBRT for Lung Cancer	Dr.Rambha Pandey Dr.Ritesh Kumar Mrs.Seema Sharma Mr.N. Dhayanethi Mr.Shrigopal	AIIMS, New Delhi				
4:00 - 5:00	Real-time 4D-Ultrasound based SBRT for Prostate Cancer	Dr.K.P.Haresh, SR Mr.Ashish Binjola Mr.S. Pradeep Kumar Mr. Vikram Walia Mr.Manish Kumar	AIIMS, New Delhi				
5:00 - 5:30 PM				Valedictory Ceremony			