

Hands-on-Training of the South Asia Centre for Medical Physics and Cancer Research (SCMPCR) in  
Collaboration with Saraj Gupta Cancer Centre and Research Institute (SGCCRI)

## SCMPCR HW 07: Quality Assurance in High Precision Radiotherapy

1<sup>st</sup> to 4<sup>th</sup> February 2024 in Kolkata, West Bengal, India

### Program Schedule

Day 1: Thursday, 1st February 2024 (Hall Room, Room No, SGCCRI)		
Time (IST)	Event	Speaker
08:30-9:00	Registration	
09:00-10:00	Inauguration	
10:00-11:00	AI in Radiotherapy Quality assurance	Dr. Biplab Sarkar
11:00-11:30	Coffee Break	
11:30-13:00	Quality assurance: The TG-100 way!	Dr. Tharmarnadar Ganesh
13:00-14:00	Lunch Break	
14:00-15:00	Intrafraction motion monitoring in SBRT and SRS treatment	Dr. Raju Srivastava
15:00-16:00	Correlation between the Quality assurance results and patient-centric outcome: A long term assessment of the SRS and SABR patient specific QA	Dr. Biplab Sarkar
16:00-16:30	Coffee Break	
16:30-17:30	Automated QA in radiation oncology	Dr. Tharmarnadar Ganesh
Day 2: Friday, 2 <sup>nd</sup> February 2024 (Hall Room, Room No, SGCCRI)		
09:00-09:30	Introduction of Vendors Quality Control Equipment	PTW
09:30-10:00		LAP
10:00-11:00	Patient specific Quality Assurance: from phantom to real time dosimetry	Dr. Raju Srivastava
11:00-11:30	Coffee Break	
11:30-12:30	Quality Assurance and Pre- Treatment Verification for IMRT/ VMAT	G. A. Zakaria
12:30-13:30	New Methods of Pre-Treatment and In Vivo Dosimetry with EPID	Mr. Carlos Bohorquez
13:30-14:30	Lunch Break	
14:30-15:30	Commissioning and evaluation of EPID in-vivo using RadCalc	Dr. Florian Kamp

15:30-16:30	Lecture-5	PTW
16:30-17:00	<b>Coffee Break</b>	
17:00-18:00	Lecture-6	PTW
<b>Day 3: Saturday, 3<sup>rd</sup> February 2024, Radiotherapy Department, SGCCRI</b>		
09:00-11:00	Group-A Practical: LAP EPID-based QA (Machine Specific and patient-specific QA)	LAP
09:00-11:00	Group-B: Practical: Patient-specific QA with RUBY, OCTAVIUS.	PTW/ Dr. Raju Srivastava
11:00-11:30	<b>Coffee Break</b>	
11:30-13:30	Group-A Practical: Patient-specific QA with RUBY, OCTAVIUS.	LAP
11:30-13:30	Group-B: Practical: LAP EPID-based QA (Machine Specific and patient-specific QA)	PTW/ Dr. Raju Srivastava
13:30-14:30	<b>Lunch Break</b>	
14:30-15:30	Data Analysis Lecture and discussion on patient-specific QA with RUBY, OCTAVIUS.	PTW/ Dr. Raju Srivastava
15:30-16:00	<b>Coffee Break</b>	
16:00-17:00	Data Analysis Lecture and discussion on LAP EPID-based QA (Machine Specific and patient-specific QA)	LAP
<b>Day 4: Sunday, 4<sup>th</sup> February 2024 (Hall Room, Room No, SGCCRI)</b>		
09:00-11:00	Group Discussion (Q & A Session)	All Speakers and Participants
11:00-11:30	<b>Coffee Break</b>	
11:30-12:30	Examination, Evaluation, and feedback of the participants	Prof. G.A. Zakaria/ Prof. H.A. Azhari
13:00-14:30	<b>Lunch Break</b>	
14:00-15:00	Closing Ceremony and distribution of certificate	SCMPCR