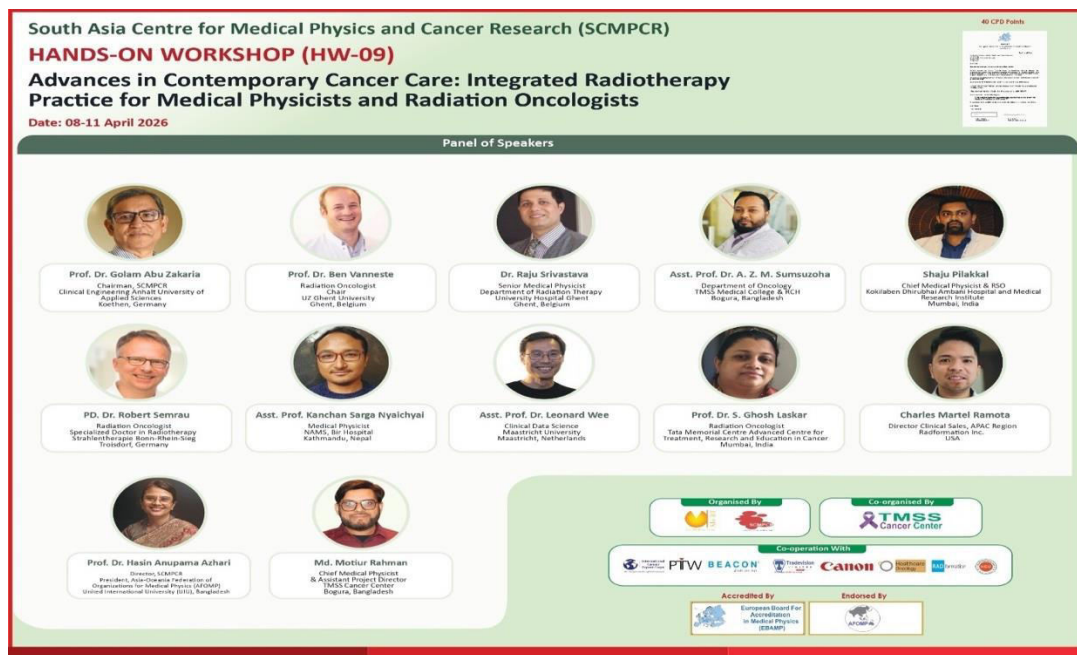


Advances in Contemporary Cancer Care: Integrated Radiotherapy Practice for Medical Physicists and Radiation Oncologists

Md Javidul Islam, South Asia Centre for Medical Physics & Cancer Research (SCMPCR)

Introduction

The 9th Hands-on-Workshop (HW-09), titled "Advances in Contemporary Cancer Care: Integrated Radiotherapy Practice for Medical Physicists and Radiation Oncologists." was held from April 8–11, 2026 at the TMSS Cancer Center in Bogura, Bangladesh organized by the South Asia Centre for Medical Physics and Cancer Research (SCMPCR). The workshop was designed to bridge the gap between theoretical knowledge and practical clinical application in modern radiotherapy. The program addressed the critical need for integrated practice between medical physicists and radiation oncologists to ensure precision and safety in cancer treatment.



South Asia Centre for Medical Physics and Cancer Research (SCMPCR)
HANDS-ON WORKSHOP (HW-09)
Advances in Contemporary Cancer Care: Integrated Radiotherapy Practice for Medical Physicists and Radiation Oncologists
Date: 08-11 April 2026

Panel of Speakers

Prof. Dr. Golam Abu Zakaria Chairman, SCMPCR Clinical Engineering, University of Applied Sciences Gelsen, Germany	Prof. Dr. Ben Vanneste Radiation Oncologist Chair UZ Ghent University Ghent, Belgium	Dr. Raju Srivastava Senior Medical Physicist Department of Radiation Therapy University Hospital Ghent Ghent, Belgium	Asst. Prof. Dr. A. Z. M. Sumsuzoha Department of Oncology TMSS Medical College & RCH Bogura, Bangladesh	Shaju Pilakkal Chief Medical Physicist & ISO Kasturba Dhirubhai Ambani Hospital and Medical Research Institute Mumbai, India
PD. Dr. Robert Semrau Radiation Oncologist Specialized Doctor in Radiotherapy Strahlentherapie Bonn Rhein-Sieg Bonn, Germany	Asst. Prof. Dr. Kanchan Sarga Nyaichyai Medical Physicist NMIMS, Sri Hospital Kathmandu, Nepal	Asst. Prof. Dr. Leonard Wee Clinical Data Science Maastricht University Maastricht, Netherlands	Prof. Dr. S. Ghosh Laskar Radiation Oncologist Tata Memorial Centre Advanced Centre for Treatment, Research and Education in Cancer Mumbai, India	Charles Martel Ramota Director Clinical Sales, APAC Region Reformation Inc. USA
Prof. Dr. Hasin Anupama Azhari Director, Science Research, International Federation of Organizations for Medical Physics (IFOMP) United International University (UIU), Bangladesh	Md. Mostur Rahman Chief Medical Physicist & Assistant Project Director TMSS Cancer Center Bogura, Bangladesh	Organized By  Co-organized By  Cooperation With    Accredited By  Endorsed By 		

The workshop's academic and clinical depth was driven by a prestigious international faculty representing leading institutions from Germany, Belgium, the Netherlands, India, and Nepal. Led by Prof. Dr. Golam Abu Zakaria, the Chairman of SCMPCR, the panel included global experts such as Prof. Dr. Ben Vanneste, PD. Dr. Robert Semrau, Asst. Prof. Dr. Leonard Wee, Prof. Dr. S. Ghosh Laskar, Mr. Shaju Pilakkal, and Asst. Prof. Kanchan Sarga Nyaichyai among others.

Reflecting its academic rigor, HW-09 was accredited by the European Board for Accreditation in Medical Physics (EBAMP) and awarded 40 CPD points to successful participants. The event was further endorsed by the Asia-Oceania Federation of Organizations for Medical Physics (AFOMP).

The workshop's success was made possible through the strategic cooperation of several international and national partners, including the International Cancer Expert Corps (ICEC), PTW, Beacon Pharmaceuticals PLC, Tradevision, Canon and Radformation.

Day 1: Wednesday, 8 April 2026

The first day of HW-09 focused on establishing a strong theoretical and clinical foundation for modern precision radiotherapy. The day was strategically divided into technical lectures, the formal inauguration ceremony, and specialized sessions on emerging technologies like Artificial Intelligence.



Figure 1.1: Inaugural Ceremony & lectures of Day-1

The program commenced at 09:00 AM with the registration of participants. Medical Physicists and Radiation Oncologists from various prestigious institutes across the country gathered at the TMSS Cancer Center, Bogura. This was followed by a brief networking session over Hi-Tea, allowing the national and international faculty to engage with the attendees before the formal sessions began.

Day 2: Thursday, 9 April 2026

The second day of the workshop shifted the focus toward the intricate clinical workflows and advanced planning strategies required for high-precision radiotherapy. The sessions were designed to promote a deeper understanding of how modern technology translates into better patient care through meticulous planning and data-driven decision-making.





Figure 1.2: Both online & offline lectures of Day-2

Day 4: Saturday, 11 April 2026

The final day of HW-09 was dedicated to measuring the educational impact of the four-day program and providing a prestigious conclusion to the collaborative efforts of the participants and faculty. The day focused on validating the knowledge gained and gathering critical feedback to ensure the sustainability of future training initiatives.

Final Examination and Program Evaluation. The morning session commenced at 10:00 AM with a comprehensive Examination followed by Evaluation. This assessment was led by the core academic leadership, including Prof. Dr. Golam Abu Zakaria, Dr. Robert Semrau, and Prof. Dr. Hasin Anupama Azhari. The examination was designed to test the participants' grasp of integrated radiotherapy workflows, contouring precision, and Tomotherapy physics.

Simultaneously, participants completed detailed evaluation forms. These surveys provided essential data on the effectiveness of the hands-on clinical modules at the **TMSS Cancer Center** and the quality of the international lectures. This feedback loop is a cornerstone of the SCMPCR educational model, ensuring that each workshop evolves to meet the specific needs of the South Asian oncology community.



Figure 1.3: Evaluation, Certificate Distribution & Closing Ceremony of Day-4

The workshop culminated in a formal **Closing Ceremony** held at the Conference Room of the TMSS Cancer Center. The event served as a celebration of the successful partnership between **SCMPCR** and **TMSS**, as well as the successful completion of the intensive training by the delegates.

Conclusion

The successful execution of HW-09 represents a major achievement for the cancer professional community in Bangladesh and the broader South Asia region. By transforming theoretical knowledge into measurable clinical skills, the program has directly contributed to elevating the standard of cancer care and treatment precision.



Figure 1.4: Group Photo