



**Venue:** The course will take place at;

- Monday 18, Tuesday 19 FEB and morning of Wednesday 20 FEB, Conference room 1 at Hiroshima High-Precision Radiotherapy Cancer Center (HIPRAC),
- Wednesday 20 FEB afternoon, Hiroshima University Hospital
- Thursday 21 FEB

In the morning, at Hiroshima University Research Institute for Radiation Biology and Medicine (RIRBM)

In the afternoon, at Radiation Effects Research Foundation (RERF), then visit to the Peace Memorial Museum.

**Objective:** To update the knowledge of radiation oncologists in advance radiation therapy technology and to provide radiation oncologists with a comprehensive understanding of the clinical applications of advance radiation therapy technology for a safe and effective implementation of advance radiation therapy technology.

**Learning outcomes**

At the conclusion of the program, the learner will be able to:

- Explain the principles of 3D-CRT and its further technological developments
- Describe the basic physics principles behind advanced radiotherapy techniques
- Prescribe a radiotherapy dose for advanced techniques
- Demonstrate skills in target volume contouring and organs at risk
- Identify the main issues on quality and safety in modern radiotherapy.

<b>MONDAY 18 FEB</b>			
8:30 – 9:00	Reception / <b>Break</b>		
9:00 – 9:30	Dr. Hiramatsu (President HICARE) Prof. Yasushi Nagata (Director of HIPRAC, Exective Secretary)	Welcome and Opening addresses <b>Group Photo</b>	
9:30 – 9:45	<b>Break</b>		
9:45 – 10:15	Paul RAVINDRAN	IAEA activities in radiotherapy and medical physics	Chair: Dr.Nagata
10:15 – 10:45	Katsuyuki KARASAWA	RCA training course	
10:45 – 11:00	<b>Break</b>		
11:00 – 11:30	Kentarou MIKI	Artificial Intelligence update	Chair: Dr. Karasawa

11:30 – 12:00	Toru SHIBATA	IMRT for H & N	
12:00 – 13:00	<b>Lunch break</b>		
13:00 – 13:30	Masahiro KENJO	IMRT for brain	Chair: Dr. Murakami
13:30 – 14:00	Yong Chan AHN	IMRT for lung	
14:00 – 14:30	Satoaki NAKAMURA	IMRT for pancreas	
14:30 – 14:45	<b>Break</b>		
14:45 – 15:15	Yoshiko DOI	IMRT for esophageal cancer	Chair: Dr. Kodaira
15:15 – 15:45	Yuji MURAKAMI	IMRT for prostate	
15:45 – 16:00	<b>Break</b>		
16:00 – 16:30	Takeshi KODAIRA	IMRT with Tomotherapy	Chair: Dr. Kenjo
16:30 – 17:00	Tim WILLIAMS	SBRT with Cyberknife	
17:00 – 17:30	Tim WILLIAMS	Implementation of advanced technologies in radiotherapy: a historical overview	
	Transportation		
19:00 – 20:30	<b>Reception</b> at Oriental Hotel Hiroshima		

<b>TUESDAY 19 FEB</b>			
9:00 – 9:30	Yasushi NAGATA	SBRT in JAPAN	Chair: Dr. Onishi
9:30 – 10:00	Eun Kyung CHOI	SBRT in Korea	
10:15 – 10:30	<b>Break</b>		
10:15 – 10:45	Yukinori MATSUO	SBRT for lung	Chair: Dr. Nagata
10:45 – 11:15	Tomoki KIMURA	SBRT for liver	
11:15 – 11:45	Hiroshi ONISHI	SBRT for other diseases	
11:45 – 12:45	<b>Lunch break</b>		
12:45 – 13:15	Shuichi OZAWA	QA:SBRT	Chair: Dr. Ozawa
13:15 – 13:45	Daisuke KAWAHARA	QA:IMRT	
13:45 – 14:15	Hideharu MIURA	QA:IGRT	
14:15 – 14:30	<b>Break</b>		
	<b>Parallel Session (Radiation Oncologists)</b>		<b>Parallel Session (Medical Physicists)</b>

14:30 – 15:00	Naoya KAKIMOTO	Brachytherapy for Tongue cancer	Chair: Dr. Matsuo	Yoshio Iwai	Linear accelerator	Chair: Dr. Miki
15:00 – 15:30	Tim WILLIAMS	Immunoradiotherapy: state of the art		Nikki Shelton (Australia)	Linac commissioning	
15:30 – 15:45	<b>Break</b>					
15:45 – 16:15	Shigeo TAKAHASHI	Breast ca update	Chair: Dr. Kimura	Paul RAVINDRAN	Physics QA network in the world	Chair: Dr. Saito
16:15 – 16:45	Ippeii TAKAHASHI	Lymphoma update		Minoru Nakao	Physics QA activity in Japan	
16:45 – 17:00	Discussion			Discussion		
17:00 – 17:15	<b>Break</b>					
17:15 – 17:45	Site Tour (HIRPAC)					

<b>WEDNESDAY 20 FEB</b>		
9:30 – 11:30	Ikuno NISHIBUCHI Yuji MURAKAMI Tomoki KIMURA Shuichi OZAWA	Target delineation *Hands-on training
11:30 – 12:40	<b>Lunch Break</b>	
12:40 - 13:00	Transportation	
13:00 – 16:30	Hiroshima University Hospital Radiotherapy Center Akito SAITO, Kentarou MIKI, Takeo NAKASHIMA, Daisuke KAWAHARA	SBRT *Hands-on training
16:30 – 16:45	Transportation	

<b>THURSDAY 21 FEB</b>	
9:30 – 10:30	Hiroshima University Research Institute for Radiation Biology and Medicine (RIRBM)
10:30 – 11:30	Hiroshima University Hospital Emergency medicine
11:30 – 11:45	Transportation
11:45 – 13:00	<b>Lunch break</b>
13:00 - 13:15	Transportation

13:15 – 15:00	Radiation Effects Research Foundation Introduction and presentation of RERF Handing of certificates (in RERF venue) Closing remarks
15:00 – 15:15	Transportation
15:15 – 16:30	Hiroshima Peace Memorial Museum A-bomb dome
16:30 – 16:45	Transportation

<b>FRIDAY 22 FEB</b>	
9:30 – 12:00	Excursion (Shukkeien-garden and Hiroshima Castle)

“Thank you to the students of the Hiroshima University Cancer Professional Education Program for their support.”