

Syllabus

Course	International Training Course for Radiation Oncologist_1-Month -Basic Course (Mandatory Training) -	Total hrs	17.0
Purpose	Acquire fundamental knowledge of clinical carbon ion radiotherapy(CIRT).		
Objectives	1. Understand the background and current status of CIRT. 2. Describe the indications, standard treatment and outcomes of CIRT. 3. Explain the clinical assessment of CIRT. 4. Explain the basic physical principles and the biological effects of CIRT.		
Lecture #	Contents	Instructional method	
	Orientation		
B-1	Introduction to Carbon Ion Radiotherapy	Lecture & video viewing	
B-2	Head and Neck Cancer	Lecture	
B-3	Dental interventions	Lecture	
B-4	Ocular melanoma	Lecture	
B-5	Esophageal Cancer	Lecture	
B-6	Lung cancer	Lecture	
B-7	Hepatobiliary cancer	Lecture	
B-8	Pancreatic cancer	Lecture	
B-9	Urological cancer	Lecture	
B-10	Gynecologic tumors	Lecture	
B-11	Breast cancer	Lecture	
B-12	Locally recurrent colorectal cancer	Lecture	
B-13	Sarcoma	Lecture	
B-14	Diagnostic Imaging	Lecture	
B-15	Physics-0: facility tour	Observation	
B-16	Physics-1	Lecture	
B-17	Radiation Biology	Lecture	

Remarks	1. Participants must follow the instructions below. ①Participants are strictly prohibited from performing any clinical procedures, or other medical interventions. ②Clinical observation is allowed only when the patient has given consent. 2. Participants must attend conferences as follows: • Treatment planning: 4 × /week • Cancer board: 2 × /week 3. Separate from the training program, participants may be offered opportunities to observe actual outpatient consultations and treatments, subject to clinical circumstances and the patient's informed consent. Please note that the duration of the program and the allocation of time may be subject to adjustment due to public holidays, clinical schedules, or other operational requirements. 4. The training content will be implemented in a way that ensures the training objectives can be achieved.
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Course	International Training Course for Radiation Oncologist_1-Month -Advanced Course (Applied Training) -	Total hrs	56.0
Purpose	Understand carbon ion radiotherapy(CIRT) for major diseases and utilize this knowledge in clinical practice.		
Objectives	1. Understand how to assess treatment eligibility based on clinical information. 2. Describe the clinical workflow of CIRT, including decision-making, treatment planning, and post-treatment follow-up. 3. Interpret dose fractionation, field design, and treatment outcomes based on actual clinical cases. 4. Understand the potential adverse events associated withCIRT and their appropriate management in clinical practice.		

Lecture #	Contents	Instructional method
A-1-1	Head & Neck Tumors	Lecture
A-1-2~3	Head & Neck Tumors	Observation
A-2	Dental	Lecture & Observation
A-3-1	Ocular melanoma	Lecture
A-3-2	Ocular melanoma	Observation
A-4-1	Esophageal cancer	Lecture
A-4-2~3	Esophageal cancer	Observation
A-5-1	Lung cancer	Lecture
A-5-2~3	Lung cancer	Observation
A-6-1	Hepatobiliary malignancies	Lecture
A-6-2~3	Hepatobiliary malignancies	Observation
A-7-1	Pancreatic cancer	Lecture
A-7-2~3	Pancreatic cancer	Observation
A-8-1	Prostate cancer	Lecture
A-8-2~3	Prostate cancer	Observation
A-9-1	Gynecologic tumors	Lecture
A-9-2~3	Gynecologic tumors	Observation
A-10	Breast cancer	Lecture
A-11-1	Locally recurrent colorectal cancer	Lecture
A-11-2~3	Locally recurrent colorectal cancer	Observation
A-12-1	Sarcoma	Lecture
A-12-2~3	Sarcoma	Observation
A-13-1	Diagnostic Imaging	Lecture
A-13-2~3	Diagnostic Imaging	Observation
A-14~21	Physics2~9	Lecture
A-22~23	Radiation biology1~2	Lecture
E-1~10	Elective topics: based on your interests	
M-1	Follow-Up Meeting: meeting with a mentor1	Meeting
M-2	Follow-Up Meeting: about your field of interest	Meeting
	Conclusion	
Remarks	1. This training is primarily observation-based and includes exercises using simulated cases. 2. This program consists of a basic course excluding treatment planning(17 hrs.) and an advanced course(48 hrs.) and participants are required to complete both courses(total 65 hrs.). 3. The notes and requirements for the advanced course are the same as those for the basic course.	