

Syllabus

Course	International Training Course for Radiation Therapist_1-Month	Total hrs	142.00
Purpose	Understand the professional duties of radiation therapists and healthcare systems related to carbon ion radiotherapy(CIRT).		
Objectives	<ol style="list-style-type: none"> 1. Understand the characteristics and the treatment equipment of CIRT. 2. Understand the process of treatment planning. 3. Understand the workflow of immobilization device fabrication and the importance of immobilization. 4. Understand the clinical workflow from patient immobilization to CT completion. 5. Understand the clinical workflow from patient immobilization to irradiation completion and the procedure for patient setup correction. 		
Lecture #	Contents	Instructional method	
	Orientation		
L-1	Introduction to CIRT: basic principles & process	Lecture & video	
T-1	Introduction to CIRT: accelerator & gantry	Observation	
L-2	Treatment Planning: planning workflow & strategies	Lecture	
L-3	Treatment Planning: demonstration	Lecture	
O-1-1~18	Immobilization Devices: fabrication process	Clinical observation	
P-1	Immobilization Devices: head & neck treatment	Practical training	
P-2	Immobilization Devices: chest treatment	Practical training	
P-3	Immobilization Devices: lateral position	Practical training	
O-2-1~17	Treatment: treatment workflow	Clinical observation	
P-4	Treatment: angular correction for the pelvic region	Practical training	
O-3-1~4	CT Simulation: workflow for patients undergoing CT	Clinical observation	
	Conclusion		
Remarks	<p>Participants need to understand the following directions.</p> <ol style="list-style-type: none"> 1. Participants are strictly prohibited from performing any clinical procedures, radiation therapy tasks, or other medical interventions. 2. In practical training, simulated patients or fellow trainees are used as volunteers. 3. Clinical observation is allowed only when the patient has given consent. 4. During clinical observation, the time available for explanations may be limited if there are many patients. 5. Please note that the duration of the program and time allocation may be adjusted due to public holidays, clinical schedules, or other operational requirements. 6. The training content will be implemented in a way that ensures the training objectives can be achieved. 		