Name	Sumana Paduka, M.Sc.				
Thai name	อาจารย์สุมนา ป	ะดุกา			
Position	Lecturer				
Responsibility	1.The committee and secretary of the executive committee of School of				
for School	Radiological Technology				
	2.Head, Division of Radiation Therapy Technology				
Email	sumana.pad@cra.ac.th				
Expertise	Radiotherapy				
Research	Radiation dosimetry, quality assurance in radiotherapy, Treatment Planning, and				
Interest	imaging in radiotherapy				
Educational Background					
Education level	Graduation	Education	University/Scho	Province	Country
	year	field	ol		
Doctoral					
degree					
	2010	M.Sc. Medical	Chulalongkorn	Bangkok	Thailand
Master's degree		Imaging	University		
Bachelor's	2007	B.Sc. Physics	Prince of Songkla	Songkla	Thailand
degree			University		
	2004	Science-Math	Demonstration	Pattani	Thailand
Upper			School of Prince		
secondary			of Songkla		
education			University		
Lower	2001	-	Princess	Satun	Thailand
secondary			Chulabhorn		
education			College School		
Work Experience					
Start year	End year	Position	Organization	Province	Country
2010	2013	Medical	Chulalongkorn	Bangkok	Thailand
		physicist	Memorial		
			Hospital		
2013	2018	Medical	Songklanagarind	Songkla	Thailand
		physicist/lecture	University		
	_	r 			
2018	Present	medical	Chulabhorn	Bangkok	Thailand
		physicist/lecture	Royal Academy		
		r			
Publication					
Year	Journal		Title		
	name				

	Journal of			
	Thai	Nattakarn Kittiva, Chirasak Khamfongkhruea, Sasikarn Chamchod,		
	Association	Sumana Paduka, and Thiansin Liamsuwan. Optimal Gating		
	of Radiation	Window for Respiratory-Gated Pencil Beam Scanning Proton		
2021	Oncology	Therapy for Lung Cancer: A pilot study		
	Radiation	Paduka S, Thongsawad S, Janthawanno P, Khaeongrod R, Ketphan		
	Physics and	K, Saiyo N. Assessment of organ doses from head and neck cone-		
	Chemistry	beam computed tomography (CBCT) in adaptive radiation		
		therapy: A phantom study. Radiation Physics and Chemistry. 2024		
2024		Feb 1;215:111338.		
2024	Radiation	Saiyo N, Thongsawad S, Jearaprasertporn R, Buakao C,		
	Physics and	Janthawanno P, Pairodsantikul P, Jaermsri S, Piantham W, Paduka		
	Chemistry	S. Evaluation of normal organ doses for extended kV-CBCT		
		protocol in para-aortic region treatment using nanoDot dosimeter.		
		Radiation Physics and Chemistry. 2024 Sep 1;222:111850.		
2025	Radiological	Saiyo, N., Assawanuwat, K., Janthawanno, P., Paduka, S.,		
	Physics and	Prempetch, K., Chanphol, T., Sakchatchawan, B., & Thongsawad, S.		
	Technology	Decision support using machine learning for predicting adequate		
		bladder filling in prostate radiotherapy: a feasibility study. Radiol		
		Phys Technol (2025). https://doi.org/10.1007/s12194-025-00916-z		
Teaching Course				
Student level	Course			
	code	Course name		
Undergraduate	CHRT 403	Dosimetry and Radiation Treatment Technique		
Undergraduate	CHRT 404	Instruments and Quality Assurance in Radiotherapy		
Undergraduate	CHRT 405	Radiotherapeutic Technique and Clinical Application 1		
Undergraduate	CHRT 302	Basic Radiation Protection		
Undergraduate	HTRT 1102	Radiation Physics		
Undergraduate	HTRT 1103	Radiation Dosimetry		
Undergraduate	CHRT 403	Dosimetry and Radiation Treatment Technique		
Undergraduate	CHRT 404	Instruments and Quality Assurance in Radiotherapy		