

AAPM-ISEP Workshop on the physics of advanced radiotherapy techniques: the role of medical images
Host Directors: Beatriz Sánchez (PhD, MIPEM, Csi, FER) and Paola Caprile (PhD)
AAPM-ISEP Director: Doracy Fontenla (PhD, AAPM-ISEP Co-Chair)
28-31 January 2014
Santiago, Chile

Program					
Date	Topics	Time	Title	Speaker	
Tuesday 28th	Advanced Biological Treatment Planning and Delivery Techniques in Photon Radiotherapy	08:30-09:00	Registration & Opening Ceremony	D Fontenla (AAPM)/B Sánchez (Chile)	
		09:00-09:45	IMRT fundamentals, optimization, dosimetry and beam delivery I	D Sanz (AAPM)	
		09:45-10:30	IMRT fundamentals, optimization, dosimetry and beam delivery II	D Sanz (AAPM)	
		10:30-11:00	<i>Coffee Break</i>		
		11:00-11:45	IGRT/ART	T Solberg (AAPM)	
		11:45-12:30	Stereotactic Body Radiotherapy (SBRT)	T Solberg (AAPM)	
		12:30-14:00	<i>Lunch Break</i>		
		14:00-14:45	Normal tissue complication probability models in treatment planning	J Deasy (AAPM)	
		14:45-15:30	Tumor control probability models for treatment planning	A Zúñiga (Chile)	
		15:30-16:00	<i>Coffee Break</i>		
		16:00-16:45	Modeling the response of hypoxic tumors	I Espinoza (Chile)	
		16:45-17:30	Peripheral doses and secondary cancer	B Sánchez (Chile)	
18:00-19:30	<i>Young Poster Session & Cocktail</i>				
Wednesday 29th	Challenges of New Radiotherapy Techniques and the Role of Medical Images	09:00-09:45	Radiotherapy using small fields	P Caprile (Chile)	
		09:45-10:30	Stereotactic Radio Surgery (SRS)	T Solberg (AAPM)	
		10:30-11:00	<i>Coffee Break</i>		
		11:00-11:45	Functional and molecular image	R Jeraj (AAPM)	
		11:45-12:30	Imaging for treatment assessment	R Jeraj (AAPM)	
		12:30-14:00	<i>Lunch Break</i>		
		14:00-14:45	Image registration	D Fabri (Chile)	
		14:45-15:30	Anatomical imaging in radiotherapy	ME Brandan (México)	
		15:30-16:30	<i>Bus to Clinica Alemana</i>		
16:30-17:30	VMAT QA (practical session) Group I	H Barriga, T Resquin, G Zelada (Chile)			
17:30-18:30	VMAT QA (practical session) Group II	H Barriga, T Resquin, G Zelada (Chile)			
Thursday 30th	Current and Future Developments	09:00-09:45	Modeling human breathing motion	D Low (AAPM)	
		09:45-10:30	Imaging for dose painting	R Jeraj (AAPM)	
		10:30-11:00	<i>Coffee Break</i>		
		11:00-11:45	MR-guided radiation therapy treatments	D Low (AAPM)	
		11:45-12:30	Monte Carlo methods for treatment planning	E Doerner (Chile)	
		12:30-14:00	<i>Lunch Break</i>		
		14:00-14:45	Gamma: how and why it works	D Low (AAPM)	
		14:45-15:30	Analysis and accident prevention in radiotherapy	D Fontenla (AAPM)	
		15:30-16:30	<i>Bus to Clinica Alemana</i>		
		16:30-17:30	VMAT QA (practical session) Group III	H Barriga, T Resquin, G Zelada (Chile)	
17:30-18:30	VMAT QA (practical session) Group IV	H Barriga, T Resquin, G Zelada (Chile)			
20:00-24:00	<i>Social evening</i>				
Friday 31st	Clinical Aspects and Closing Remarks	09:00-09:45	Fractionation effects and SBRT	J Deasy (AAPM)	
		09:45-10:30	SBRT and VMAT: clinical experience in Chile	A Córdova (Chile)	
		10:30-11:00	<i>Coffee Break</i>		
		11:00-11:45	Accidents in radiotherapy: Learnt lessons and application in error prevention	D Fontenla (AAPM)	
		11:45-12:30	A review of QUANTEC treatment planning guidelines	J Deasy (AAPM)	
		12:30-13:30	<i>Lunch</i>		
		13:30-14:15	Medical physics education, training and accreditation	Chile/Argentina/Mexico/USA	
14:15-15:00	The role of medical images in radiotherapy (round table)	R Jeraj, J Deasy, D Low, ME Brandan (AAPM)			