

**Regional Training Course on Actualización en Radioterapia Conformal 3D para Tecnólogos,
Argonne National Lab, USA November 3 - 7, 2014**

Time	Monday 3	Tuesday 4	Wednesday 5	Thursday 6	Friday 7
8:30 - 9:15	Welcome (Aguirre) 10:00 – 10:30 (Safety at ANL)	Clinical dosimetry in radiotherapy (Prado)	Simulation in RT, conventional, virtual, CT sim (Dante)	Simulation and treatment of thorax tumors (Meza/C. Perez)	Simulation and treatment of pediatric tumors (Therapist)
9:15 – 10:30	The care of the oncology patient (Ovalle)	Clinical Hardware in radiotherapy (Prado)	The terminology of 3DCRT. ICRU recommendations (Dante)	Simulation and treatment of prostate and pelvis tumors (Meza/C. Perez)	Delivery of a RT treatment. The uncertainties in the RT process. (Physicist)
10:30-10:45	Group Photo		Coffee/Tea Break		
10:45 - 12:00	Biological aspects of cancer (Ovalle)	External beam delivery systems (cobalt units, linacs and other systems) (Prado)	Treatment Planning Techniques (Dante)	Simulation and treatment of breast tumors (Saravia/C. Perez)	Quality management, quality assurance (Aguirre)
12:00-1:00	Lunch Break				
1:00-2:00	Basic interactions of radiation with matter (Aguirre)	Acceptance, commissioning and calibration of radiotherapy equipment (Gonzalez)	Planning verification techniques, second mu check, plan and field verification, end to end tests (Varela)	Simulation and treatment of CNS tumors (Linares)	Radiation protection (Aguirre)
2:00 - 3:00	Principles of radiation biology (Alvarez)	Imaging for radiotherapy CT, PET, MRI, fusion (Gonzalez)	Isocheck / Delivery verification techniques, in vivo dosimetry and other techniques (Varela)	Simulation and treatment of head and neck tumors (Saravia/Linares)	Risk management (Fontenla)
3:00-3:15	Coffee/Tea Break				
3:15-4:00	Quantities and units of radiation (Aguirre)	Record and verify, administration systems for EBRT (Gonzalez)	Inmobilization and localization devices, simulation overview (Hayden)	Simulation and treatment of lymphomas and GI tumors (Linares)	Accident prevention, Safety culture. (Fontenla)
4:00-5:00	Physics Instrumentation (Alvarez)	Exercise	The formal training of an RTT (Hayden)	Exercise	