Regional Training Course on Quality Assurance of Physical and Technical Aspects in Radiotherapy, Argonne National Lab, USA September 12 – 23, 2011

Schedule Week 1: September 12 – 23, 2011

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Time	September 12	September 13	September 14	September 15	September 16	September 17	September 18	
9:00-10: 00	Opening Ceremony Intro. To Rad Therapy Process (JFA) The need for QA (WFH) 10:00 – 10:30 (Safety	Photon Interactions, Charged Particle Interactions Electron Interactions (Will Hanson)	Cavity Theory Radiation Dosimeters Calibration of Photon and Electron Beams Standards, Traceability TRS-277, TRS-398 (Saiful Huq)	Electron Beam Dosimetry (J. Antolak)	Acceptance Testing (G. Ibbott)	Labs at Northwest Community Hospital Cobalt Lab= "Dry Lab" Group A: HDR/LDR GroupB:Photons/Cobalt Group C: Electron (F. Aguirre) (P. Alvarez, P. Balter)	Labs at Northwest Community Hospital Electrons, HDR/LDR Photons/Cobalt (F. Aguirre) (P. Alvarez, P. Balter)	
10:30-10:45	Group Photo Coffee/Tea Break							
10:45-12:00	Basics-decay, Atomic & Nuclear Structure, Prod. of X- Rays, Interactions, dependence on E & Z coefficients	Continued (Will Hanson)	Continued (Saiful Huq)	Continued	Continued	Continued	Continued	
12:00-1:00								
1:00-3:00	Introduction, Quantities and units, Atomic & Nuclear Structure, Exponential behavior, Prod. Of X-Rays	Dosimetric Quantities (Will Hanson)	Continued (Saiful Huq)	Photon Beam Dosimetry (M. Salehpour)	Commissioning RT equipment Physics Dosimetry Equipment (G. Ibbott)	Continued	Free	
3:15-3:30								
3:30-5:00	Continued (Will Hanson)	Continued (Will Hanson)	Continued (Saiful Huq)	Continued	Commissioning Treatment Planning Systems mu calculations (G. Ibbott)	Continued	Free	

Regional Training Course on Quality Assurance of Physical and Technical Aspects in Radiotherapy, Argonne National Lab, USA September 12 – 23, 2011

Schedule Week 2: September 12 – 23, 2011

Day	Monday	Tuesday	Wednesday	Thursday	Friday					
9:00-10: 30	September 19 Conformal RT, IMRT (M. Palisca)	September 20 Brachy: Sources, Calib, Commissioning (Thomadsen)	September 21 Radiation Therapy Imaging Equipment Simulation Immobilization, Mold Room Techniques (J. Van Dyk)	September 22 Radiobiology (D. Followill,)	September 23 Exam, Evaluation (F. Aguirre, W. Hanson)					
10:30-10:45	Coffee/Tea Break									
10:45-12:00	Conformal RT, IMRT Transitioning from 1D to 2D to 3D (M. Palisca)	Continued	Continued	Radiation Accidents (F. Aguirre)	Continued					
12:00-1:00	Lunch Break									
1:00-2:00	Special Procedures (TBI, TSE, SRS) (P. Balter)	Brachy: Treatment Planning (Thomadsen)	Quality Assurance (D. Followill,)	Radiation Safety (R. Kudchaker)	Exam Discussion (W. Hanson)					
2:00-3:00		(Thomadsen)			Course Closing					
3:15- 3:30	Coffee/Tea Break									
3:30-5:00	QA of Imaging Equipment for RT (P. Balter)	Continued	Orthovoltage Dry Lab (D. Followill, F. Aguirre) (cont'd)	Q & A Review (W. Hanson)						