

**Training Course on Selection, Acceptance, Commissioning and Maintenance of Radiotherapy Equipment,
UT MD Anderson Cancer Center, Houston, TX, USA May 18 - 29, 2015**

Day Time	Monday May 18	Tuesday May 19	Wednesday May 20	Thursday May 21	Friday May 22	Saturday May 23	Sunday May 24
9:00-10:30	Opening Ceremony The RT treatment of the cancer patient, a modern approach (Aguirre)	Planning the purchase of equipment, design of specs, the purchase team (Pipman)	Imaging systems and methods for RT (Van Dyk)	Commissioning tests on a linear accelerator, – the how (Photons) (Balter)	Trip to NASA Space Center and Kemah	Starting at 8AM LABS at MD Anderson Cancer Center (Gao, Pollard, Pipman, Lawyer)	Starting at 8AM LABS at MD Anderson Cancer Center (Gao, Pollard, Sastry, Pipman)
10:30-10:45	Group Photo			Coffee/Tea Break			
10:45-12:00	Linear accelerators for radiotherapy-overview (Pipman)	Room shield design with practical examples (Kudchadker)	Treatment Planning systems (Van Dyk)	Acceptance and commissioning tests on an MLC (Balter)	Trip to NASA Space Center and Kemah	LABS at MD Anderson Cancer Center (Gao, Pollard, Pipman, Lawyer)	LABS at MD Anderson Cancer Center (Gao, Pollard, Sastry, Pipman)
12:00-1:00	Lunch Break						
1:00-3:00	Subsystems of a linear accelerator (Pipman)	Facility surveys (Kudchadker)	Acceptance tests on a linear accelerator (Ibbott)	Commissioning tests on a linear accelerator, – the how (Electrons) (Court)	Trip to NASA Space Center and Kemah	LABS at MD Anderson Cancer Center (Gao, Pollard, Pipman, Lawyer)	LABS at MD Anderson Cancer Center (Gao, Pollard, Sastry, Pipman)
3:00-3:30	Coffee/Tea Break						
3:30-5:00	EBRT accessories, immobilization, localization, lasers, motion, etc (Briere)	EBRT record and verify techniques, checklists, commercial systems, hand calcs (Gillin) Room survey exercise after 5 pm (Kudchacker, Pollard)	Commissioning tests on a linear accelerator – the what (Ibbott) MDACC Clinic tour after 5 pm	Commissioning of hard, universal and virtual wedges with practical examples (Court)	Trip to NASA Space Center and Kemah		

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Day Time	Monday May 25	Tuesday May 26	Wednesday May 27	Thursday May 28	Friday May 29
9:00-10: 30	7 – 8:30 am Tour Proton Center (optional) Physics dosimetry equipment for acceptance, commissioning and QA (Huq)	Acceptance tests on a TPS (Dante)	In vivo dosimetry systems (Kudchadker)	Commissioning and care of physics equipment for acceptance, commissioning and QA (Waldron)	Accident prevention (Aguirre)
10:30-10:45	Coffee/Tea Break				
10:45-12:00	Calibration of photons, electrons, per IAEA standards (Huq)	Commissioning tests on a TPS (Dante/Kry)	The quality Assurance Program (Kry)	Maintenance of RT equipment, power, AC, water. Service contracts (Waldron)	Regulations, guidelines, procedures around setting up or expanding a RT facility (Aguirre)
12:00-1:00	Lunch Break				
1:00-2:00	Calibration of photons, electrons, per IAEA standards (Huq)	Lab Data handling for TPS commissioning (Balter) G1 Lab TPS QA (Dante) G2	Quality assurance procedures (Kry)	IT systems, integration, networks (Gillin)	Exam
2:00 – 3:00	Staffing of a RT center-Roles and responsibilities (Pipman)	Lab Data handling for TPS commissioning (Balter) G1 Lab TPS QA (Dante) G2	Remote afterloaders for brachytherapy (Lawyer)	The design of a RT center – functionality and workflow (Gillin)	Discussion of the course
3:00 - 3:30	Coffee/Tea Break				
3:30 – 4:15	Photon beam lab 3:30 to 5:00 Balter, Aguirre, Pipman, Alvarez, Taylor, TBN)	Lab Data handling for TPS commissioning (Balter) G2 Lab TPS QA (Dante) G1	(Contd) (Lawyer)	Integration of systems from multiple vendors (Gillin)	Diplomas and closing ceremony
4:15 – 5:00	Electron beam lab 5:30 to 7:30 PM Balter, Aguirre, Pipman, Alvarez, Taylor, TBN)	Lab Data handling for TPS commissioning (Balter) G2 Lab TPS QA (Dante) G1	Commissioning and QA of remote afterloaders (Lawyer)	End to end tests, IMRT plan verification, anthropomorphic phantoms (Kry)	

SEE A SEPARATE SCHEDULE FOR THE LABS