

APPENDIX XIII

PUBLISHED ABSTRACTS

by members of the Medical Physics Unit : 2009 calendar year
(names of MPU staff members are underlined, students are indicated by †)

1. G. Poludniowski, F. DeBlois, G. Landry†, P. Evans, F. Verhaegen, *SpekCalc: A free and user-friendly software program for calculating x-ray tube spectra*, Med. Phys. **36**, 2472 (2009).
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3. S. Devic, N. Tomic, F. DeBlois, *Brachytherapy TPS QA using EBT model GafChromic film*, Med. Phys. **36**(6), 2528 (2009).
4. A. Alexander, F. DeBlois, J. Seuntjens, *Energy modulated electron therapy using few leaf collimator: Plan optimization*, Med. Phys. **36**, 2554 (2009).
5. J. Thebaut†, F. DeBlois, A. Alexander†, J. Seuntjens, *Measurement driven, electron beam modeling and commissioning for Monte Carlo treatment planning with improved accuracy*, Med. Phys. **36**, 2621 (2009).
6. E.T. Soisson, P. Hoban, T. Kammeyer, A. Basavatia, D. Westerly, W.A. Tomé, *An efficient planning technique for tomotherapy based stereotactic radiosurgery*, Med. Phys. **36**, 2646 (2009).
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11. W. Abdel-Rahman, L. Liang, I Aldahlawi†, J. Seuntjens, *Practice aspects of commissioning and calibration of clinical orthovoltage units*, Med. Phys. **36**(6), 2789 (2009).
12. A Sarfehnia†, J. Seuntjens, *Towards an absorbed dose-based calibration for Ir-192 brachytherapy dosimetry-Development of a primary standard water calorimeter*, Med. Phys. **36**, 2810 (2009) [TH-D-BRB-04].
13. N. Tomic, J. Seuntjens, F. DeBlois, S. Devic, *2D CBCT dosimetry using XR-QA model Gafchromic film*, Med. Phys. **36**(9), 4307 (2009).
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15. A. Sarfehnia†, J. Seuntjens, *Realizing absorbed dose directly for HDR Ir-192 brachytherapy: Water calorimetry and comparison to ion chamber, Gafchromic Film*, Med. Phys. **36**(9), 4323 (2009) [SCI-FRI AM(2): Brachy-02: and TG-43].
16. S. Devic, N. Tomic, F. DeBlois, *Commissioning of brachytherapy TPS using EBT model GafChromic film*, Med. Phys. **36**(9), 4323 (2009).
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27. I. Levesque†, G.B. Pike, *Characterizing white matter pathology with quantitative magnetization transfer imaging: Insight from a four-pool model*, Proceedings of the 17th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Honolulu, Hawaii, April 18-24, 2009, p. 182.
28. Z. Caramanos, I. Leppert, S. Narayanan, G.B. Pike, D.L. Arnold, *MRI evidence that gadolinium-enhancing lesions seen twelve weeks after commencing rituximab treatment are associated with lower blood-brain-barrier disruption than those seen prior to treatment in patients with relapsing-remitting multiple sclerosis*, 17th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, multimedia E-Poster, Honolulu, Hawaii, April 18-24, 2009.
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42. S. Devic, N. Tomic, F. DeBlois, *Commissioning of brachytherapy TPS using EBT model GafChromic film*, 55th Annual Meeting of the Canadian College of Physicists in Medicine (CCPM), Victoria, British Columbia, July 21-24, 2010, pp. 4323.
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59. I. El Naqa, Mu Vaidya, Au Apte, Su Fergus, J.O. Deasy, J.D. Bradley, "A multimodality imaging approach for predicting radiation induced lung injury," AAPM, Anaheim, CA, 2009.
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75. J.O. Deasy, M Trovo, E. Huang, Y. Mu, I. El Naqa, J.D. Bradley, *Predicting radiation pneumonitis: The effect of heart, lung, and bronchial dose-volume variables*, Proceedings of the International Conference on Translational Research & Pre-Clinical Strategies in Radiation Oncology (ICTR), Geneva, Switzerland, 2009.
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PUBLISHED ABSTRACTS

by members of the Medical Physics Unit : 2010 calendar year
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1. J.P. Soucy, P. Rosa-Neto, G. Massarweh, A. Aliaga, E. Schirmacher, M.A. Bédard, M. Sanchez-Legaspi, P. Gravel, A.J. Reader, *Imaging of cholinergic terminals in the non-human primate brain using 18F-FEOBV PET: development of a tool to assess cholinergic losses in Alzheimer's disease*, *Alzheimer's & Dementia* **6**, S286 (2010).
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4. A. Sarfehnia†, I. Kawrakow, J. Seuntjens, *Evaluating AAPM TG-43 in-water HDR 192Ir brachytherapy reference dosimetry: A comparison study*, *Med. Phys.* **37**, 3096 [SU-EE-A2-03] (2010).
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10. M. Serban, J. Seuntjens, E. Roussin, J. Tremblay, M. Chevrier, N. Khaouam, W. Wierzbicki, *Computer aided design and Monte Carlo validation of a patient-specific Co-60 TBI treatment unit*, *Med. Phys.* **37**, 3353 (2010) [MO-E-BRA-02] http://online.medphys.org/mphya6/v37/i6/p3353_s1.
11. T. Connell†, J. Seuntjens, M.D.C. Evans, *Experimental feasibility study on the use of scattering foil free beams for energy modulated electron therapy*, *Med. Phys.* **37**, 3436 (2010) [WE-E-BRA-03] doi:10.1118/1.3469425.
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14. A. Alexander†, E.T. Soisson, F. DeBlois, J. Seuntjens, *Dynamic aperture optimization in MERT using direct aperture optimization*, *Med. Phys.* **37**, 3886 (2010).

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Special scientific recognition at John S. Laughlin Science Research Symposium

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