

APPENDIX XII

CONFERENCE & SEMINAR PRESENTATIONS

by members of the Medical Physics Unit : 2012 calendar year (x 31)

(presenter is indicated by an asterisk *)

(the names of staff members of the MPU are underlined, students are indicated by †)

1. M. Carrier-Vallières†*, C.R. Freeman, S.R. Skamene, I. El Naqa, *Prediction of tumor outcomes through wavelet image fusion & texture analysis of PET/MR imaging*, Med Phys. **39**(6), 3615 (2012). SU-D-BRB-03.
2. D. Milroy†*, H. Patrocinio, J. Seuntjens, *Monte Carlo modeling of the Novalis TX stereotactic radiosurgery mode*, Med. Phys. **39**(6), 3874 (2012). MO-F-BRB-05.
3. L. DeWerd, J. Seuntjens*, M. Rivard, M. McEwen, *Dosimetry for Ir-192 HDR brachytherapy: Present status and future direction*, Med. Phys. **39**(6), 3884-3885 (2012). TU-A-213AB-01
4. E. Chung†, S. Davis, J. Seuntjens, *Ion recombination in a liquid-filled ionization chamber in high-energy photon*, Med. Phys. **39**(6), 3887 (2012). TU-A-BRB-09.
5. P. Papaconstadopoulos†*, J. Seuntjens, *Fast and accurate hybrid source model for modulated electron radiotherapy*, Med. Phys. **39**(6), 3944 (2012). WE-C-BRB-04.
6. D. Markel†*, I. El Naqa, *A novel level set active contour algorithm using the Jensen- Rényi divergence for tumor segmentation in PET*, Med Phys. **39**(6), 3961 (2012). WE-E-213CD-08.
7. S. Lee†*, J. Bradley, N. Ybarra, K. Jeyaseelan, J. Seuntjens, I. El Naqa, *Bayesian network framework for biophysical radiation pneumonitis modeling*, Med. Phys. **39**(6), 3993-3994 (2012). TH-C-213AB-03.
8. A. Toltz†*, N. Shin†, C. Laude, D. Roberge, C.R. Freeman, J. Seuntjens, *Risk of radiation-induced cardiotoxicity and secondary cancers in Hodgkin's lymphoma patients*, Med. Phys. **39**(6), 3994 (2012). TH-C-213AB-06.
9. E. Chung†*, E. Conneely, R. Ruo, M. Foley, J. Seuntjens, *Clinical implementation of the new dosimetry formalism to IMRT quality assurance*, Med. Phys. **39**(6), 3998-3999. TH-C-BRB-10
10. H. Bekerat†*, K. Singh†, D. Lewis, A. Sarfehnia, J. Seuntjens, S. Devic, *Improving the energy dependence of GafChromic dosimetry films at low energies*, Med. Phys. **39**(6), 4009-10 (2102). TH-E-BRB-01.
11. D. Lewis, S. Devic*, N. Tomic, S. Adelajian, F. DeBlois, M. Chan, J. Seuntjens, *Linearization of dose response curve for the radiochromic film dosimetry system*, Med. Phys. **39**(6), 4010 (2012). TH-E-BRB-02.
12. J. Renaud†*, D. Marchington, J. Seuntjens, A. Sarfehnia, *Developing a graphite probe calorimeter for accurate clinical dosimetry*, Med. Phys. **39**(6), 4010 (2012). TH-E-BRB-07.
13. <http://www.ncbi.nlm.nih.gov/pubmed/22757441>
14. D. Milroy†*, G. Dos Reis, J. Seuntjens, H. Patrocinio, *Validation of a commercial Monte Carlo code for stereotactic radiosurgery and stereotactic body radiation therapy*, Med. Phys. **39**(7), 4620 (2012); 58th Annual Meeting of the Canadian Organization of Medical Physicists (COMP), Halifax, Nova Scotia, July 11-14, 2012.
15. P. Papaconstadopoulos†*, J. Seuntjens, *A fast and accurate source model for energy and intensity modulated electron beams*, Med. Phys. **39**(7), 4620 (2012).
16. A. Alexander†*, J. Seuntjens, *Inverse treatment planning for modulated electrons and mixed photon and electron radiotherapy*, Med. Phys. **39**(7), 4622 (2012). DOI:10.1118/1.4740098
17. J. Renaud†*, D. Marchington, J. Seuntjens, A. Sarfehnia, *Development of a graphite probe calorimeter for absolute clinical dosimetry: Numerical design optimization, prototyping and experimental proof-of-concept*, Med.Phys. **39**(7), 4623 (2012).

The presentation was awarded the **First Prize in the J.R. Cunningham Young Investigator Symposium**.

18. P. Watson†*, E. Mainegra-Hing, E. Soisson, I. El Naqa, J. Seuntjens, *Scatter-B-Gon: Implementing a fast Monte Carlo cone-beam computed tomography scatter correction on real data*, Med. Phys. **39**(7), 4644 (2012).

19. R. Khatchadourian†*, S. Davis, M.D.C. Evans, A. Licea, J. Seuntjens, J. Kildea, *Neutron production around a radiation therapy linac bunker: Monte Carlo simulations and physical measurements*, Med. Phys. **39**(7), 4645 (2012), Sci-Sat AM:Brachy-04; 58th Annual Meeting of the Canadian Organization of Medical Physicists (COMP), Halifax, Nova Scotia, July 11-14, 2012.
20. J. Kildea*, W. Parker, *Comprehensive web-based QA in radiation oncology of the Varian ECLIPSE eMC algorithm for clinical electron treatment planning*, Med. Phys. **39**(7), 4645 (2012). Sci-Sat AM: Brachy-05.
21. S. Aldelaijan*, H. Mohammed, N. Tomic, L. Liang, F. DeBlois, A. Sarfehnia, W. Abdel-Rahman, J. Seuntjens, S. Devic, *Radiochromic film dosimetry of HDR Ir-192 source radiation fields*, International Conference on Radiation Medicine: Clinical Applications and Innovative Approaches, KFSH&RC, Riyadh, Saudi Arabia, February 27-March 01, 2012.
22. S. Devic*, N. Tomic, S. Aldelaijan, F. DeBlois, J. Seuntjens, D. Lewis, *Linearization of the radiochromic film dosimetry system dose response*, International Conference on Radiation Medicine: Clinical Applications and Innovative Approaches, KFSH&RC, Riyadh, Saudi Arabia, February 27-March 01, 2012.
23. S. Devic*, H. Mohammed, S. Aldelaijan, N. Tomic, J. Seuntjens, F. DeBlois, S. Faria, S. Lehnert, *FDG-based uptake volume histograms: Avenue towards biological target volumes*, 5th International Conference on Translational Research and Physics for Health in Europe, Geneva, Switzerland, February 27-March 02, 2012 (abstract #: 19).
24. N. Tomic*, J. Seuntjens, F. DeBlois, S. Devic*, *Linearization of radiochromic film dosimetry system dose response*, 5th International Conference on Translational Research and Physics for Health in Europe, Geneva, Switzerland, February 27-March 02, 2012 (abstract #: 33).
25. O. Maria*, N. Ybarra, K. Jeyaseelan, J. Seuntjens, I. El Naqa, *Mesenchymal stem cells for recovery from radiation-induced lung injury*, 3rd Quebec Conference on Therapeutic Resistance in Cancer, Montreal, Quebec, March 15-17, 2012.
26. M. Carrier-Vallieres†*, C.R. Freeman, S.R. Skamene, I. El Naqa, *PET/MR imaging for prediction of tumor outcomes by wavelet image fusion and texture analysis*, La Biodola, Isola d'Elba, May 26-30, 2012.
27. P. Watson†*, E. Mainegra-Hing, E. Soisson, I. El Naqa, J. Seuntjens, *Implementation of a fast Monte Carlo calculation of scatter corrections for real CBCT images*, Oral presentation, Annual Congress of the Canadian Association of Physicists (CAP), June 10-16, 2012.
28. R. Khatchadourian†*, S. Davis, M.D.C. Evans, A. Licea, J. Seuntjens, J. Kildea, *Neutron shielding simulations of radiotherapy rooms*, 58th Annual Meeting of the Canadian Organization of Medical Physicists (COMP), July 11-14, 2012.
29. R. Khatchadourian†*, S. Davis, M.D.C. Evans, A. Licea, J. Seuntjens, J. Kildea, *Neutron shielding simulations of radiotherapy rooms*, Canadian Nuclear Safety Commission (CNSC), Ottawa, Ontario, September 18, 2012.
30. S. Lee†*, J. Bradley, N. Ybarra, K. Jeyaseelan, J. Seuntjens, I. El Naqa, *A Bayesian network approach for modeling of radiation pneumonitis*, 54th Annual Meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, October 28-31, 2012.
31. N. Tomic*, T. Vuong, T. Niazi, B. Bahoric, L. Liang, F. DeBlois, J. Seuntjens, S. Devic, *In vivo skin dose measurements during CBCT guided IGRT in rectal and prostate cancer patients*, 98th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-30, 2012 (SSE23-03).