

APPENDIX X

PUBLISHED ABSTRACTS

by members of the Medical Physics Unit : 2013 calendar year (x 98)
(names of MPU staff members are underlined, students are indicated by †)

1. S.D. Davis, W. Parker, M.D.C. Evans, *Using integral activity to compare relative dosimetric efficiency with respect to source type and source change schedules for high-dose-rate brachytherapy*, *Brachytherapy* **12**(1), S41–S42 (2013).
2. O.M. Maria, A.M. Maria, N. Ybarra, K. Jeyaseelan, S. Lee†, J. Perez†, S. Lehnert, S. Faria, M. Serban, J. Seuntjens, I. El Naqa, *The role of stem-like cells in regional radiosensitivity of the lung*, *J. Eur. Soc. Radiother. Oncol. (ESTRO)* **108**(1), S5, abs 13 (2013).
3. C. Hudon, M.D.C. Evans, C.R. Freeman, *A rotational technique for total skin electron irradiation*, *J. Med. Imag. & Radiat. Sciences.* **44** pp 55, 2013.
4. K. Jeyaseelan, J. Coates, N. Ybarra, M. David, S. Faria, L. Souhami, G. Shenouda, F. Curry, M. Duclos, and I. El Naqa, (2013) *Copy Number Variations As Predictors of Late Toxicities in Prostate Cancer*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S8, abs. 19.
5. M. Popovic, S. Skamene, W. Parker, and T. Hijal, (2013) *Accelerated Physician Approval Process for Standard Tangential Breast Irradiation Plans*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S10, abs. 25.
6. A. Bourque, J-F. Carrier, and H. Bouchard, (2013) *Development and Comparison of Tissue Characterization Formalisms for Dual Energy Computed Tomography*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S15, abs.
7. P. Pater, J Seuntjens, M. Bernal, and I. EL Naqa, (2013) *A New Probabilistic Model for DNA Strand Breaks Simulation Using Monte Carlo Track Structures*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S15, abs. 38.
8. A. Syme, E. Mitrou, and J. Quantin, (2013) *Factors Affecting Plan Complexity and Patient Setup Sensitivity of VMAT Treatments of Head and Neck Cancer*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S31, abs. 80.
9. M. Vallieres, C. Freeman, S. Skamene, and I. EL Naqa, (2013) *Prediction of tumor outcomes using joint FDG-PET/MR diagnostic imaging features*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S48, abs. 124.
10. Y. Zlateva, I. EL Naqa, M. Evans, and J. Larkin, (2013) *Preliminary study of Cherenkov emission by radiotherapy treatment beams for potential application as optical dosimeter*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S54, abs. 141.
11. E. Soisson, J. Seuntjens, and M. Evans, (2013) *Validating Small Field Vendor-Standard Stereotactic High Dose Rate 6Mv Beam Data Using IC10 and Lion Chambers*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S55, abs. 142.
12. G Aldosary, J Seuntjens, and A Sarfehnia, (2013) *Change of Ionization Chamber Correction Factors (Ppol , Pion, KWall) with Chamber Walls of Different Materials in Continuous and Pulsed Beams*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S55, abs. 142.
13. M.D.C. Evans, S.D. Davis, J. McCaffrey, and B. Downton, (2013) *Survey Meter Calibration: Pitfalls and Sweet Spots*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S61, abs. 160.
14. J. Kildea, J. Dubeau, M. Evans, R. Khatchadourian, A. Licea, J. Seuntjens, and S. Witharana, (2013) *Validation of Monte Carlo Simulations of Neutron Fluence in the Vicinity of a Medical Linear Accelerator Using Spectral Measurements*, *Journal of the European Society for Radiotherapy and Oncology* 108(Supplement 1), S101, abs. 270.

15. M. Hobson, S. Davis, (2013) *Correcting the asymmetric response observed in portal dosimetry images due to backscatter from the treatment arm: Comparison between an in house 1-D profile correction method and a 2-D correction provided in Varian's PDPC package*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S103, abs. 275.
16. S. Gholampourkashi, F. DeBlois, G. Stroian, A. Quenoi, and S. Michalowski, (2013) *An Integrated Quality Assurance System in Radiation Oncology*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S104, abs. 276.
17. J. Mullins, J. Seuntjens, F. DeBlois, and A. Syme, (2013) *Evaluation of Eclipse DMLC Dose Calculations in the Context of Dynamic Couch Trajectory Treatments*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S104, abs. 278.
18. D. Markel, H. Zaidi, and I. El Naqa, (2013) *Novel Multimodality Segmentation Using Level Sets and Jensen-Renyi Divergence*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S108, abs. 288.
19. M. Fan, F. DeBlois, K. Sultanem, and G. Stroian, (2013) *A Novel Web-Based Tool for Quantification of VMAT/IMRT Treatment Plan Quality*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S112, abs. 299.
20. M. Fan, F. DeBlois, K. Sultanem, and G. Stroian, (2013) *A Novel Web-Based Tool for Quantification of VMAT/IMRT Treatment Plan Quality*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S112, abs. 299.
21. M.-A. Renaud, F. DeBlois, (2013) *WebTPS: A Web Application for Monte Carlo Plan Recalculation*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S113, abs. 300.
22. A. Toltz, N. Shin, C. Laude, D. Roberge, C. Freeman, J. Seuntjens, and W. Parker, (2013) *Prediction of Secondary Solid Cancer in Pediatric Patients Receiving Pelvic External Beam Radiotherapy*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S116, abs. 311
23. N. Shin, A. Toltz, C. Laude, D. Roberge, C. Freeman, J. Seuntjens, and W. Parker, (2013) *Risk of Secondary Solid Cancers for Young Patients Receiving Radiotherapy for Localized CNS Tumours Comparing SRS, 3D-CRT, Photon IMRT and IMPT*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S118, abs. 314.
24. M.-A., Renaud, D. Roberge, and J. Seuntjens, (2013) *Latent Uncertainty in Pre-Calculated Track MC Implementation on GPU*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S118, abs. 315.
25. H. Patrocinio, L. Santos Herbst and R. Ruo, (2013) *Monte Carlo Algorithm as a Tool for Verifying Monitor Unit Calculations in Intensity Modulated Stereotactic Radiosurgery*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S121, abs. 322.
26. P. Watson, E. Mainegra-Hing, N. Tomic, and J. Seuntjens, (2013) *Scatter Artifact Correction in CBCT images*, Journal of the European Society for Radiotherapy and Oncology 108(Supplement 1), S122, abs. 325.
27. N. Tomic, N. Sharoubim, F. DeBlois, J. Seuntjens, S. Devic, *Radiochromic film based system for CTDI measurements*, Med. Phys. **40**, 111 (2013). <http://dx.doi.org/10.1118/1.4814043> (111 pages).
28. D. Markel†, I. El Naqa, H Zaidi, *Registration/segmentation for adaptive radiotherapy using the Jensen Renyi divergence*, Med. Phys. **40**(6), 175.
29. A Bourque, J Carrier, and H Bouchard, (2013) *Validation of Two Mathematical Formalisms for Tissue Characterization in Dual Energy Computed Tomography*, Med. Phys. **40**(6), 193.
30. E Poon, G Shenouda, and W Parker, (2013) *Dosimetric Benefits of Replanning for IMRT Treatment of Head and Neck Cancer*, Med. Phys. **40**(6), 199.
31. G. Aldosary†, J. Seuntjens, A. Sarfehnia, *Influence of chamber wall material on ionization chamber absorbed dose energy response: A numerical and experimental study*, Med. Phys. **40**(6), 220 (2013).
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34. A. Toltz†, N. Shin†, C. Laude, D. Roberge, C.R. Freeman, J. Seuntjens, W. Parker, *Prediction of secondary cancer in pediatric, adolescent, and young adult patients receiving abdominal external beam radiotherapy*, Med. Phys. **40**(6), 269 (2013).
35. P. Pater†, J. Seuntjens, M. Bernal, I. El Naqa, *Electronic equilibrium in RBE of DSB induction in Monte Carlo simulations of low energy photon and electron track structures*, Med. Phys. **40**(6), 275 (2013).

36. V. Thakur, R. Ruo, J. Seuntjens, W. Parker, R. Doucet, E. Soisson, *Delivery accuracy of stereotactic radiosurgery with tomotherapy using treatment planning system version V4.0 and the recent upgrade V4.2*, Med. Phys. **40**(6), 304 (2013).
37. K. Zerouali, M-A. Renaud†, F. DeBlois, H. Bouchard, J. Carrier, *Implementation of clinical Monte Carlo dose calculation for CyberKnife on a web-based treatment planning system WebTPS*, Med. Phys. **40**, 319 (2013).
38. M. Fan†, F. DeBlois, K. Sultanem, G. Stroian, *A novel web-based tool for quantification of VMAT/IMRT treatment plan quality*, Med. Phys. **40**, 395 (2013).
39. J. Mullins†, J. Seuntjens, F. DeBlois, A. Syme, *Preliminary measurements towards radiation therapy involving dynamic couch trajectories*, Med. Phys. **40**, 444 (2013).
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41. S. Asgharizadeh†, A. Syme, F. DeBlois, J. Seuntjens, I. El Naqa, H. Bekerat†, S. Devic, *Patient specific quality assurance tool in rectal brachytherapy*, Med. Phys. **40**(6), 467 (2013).
42. M. Vallieres†, C.R. Freeman, S. Skamene, I. El Naqa, *Joint FDG-PET/MR imaging for the early prediction of tumor outcomes*, Med. Phys. **40**(6), 477 (2013).
43. Y. Zlateva†, I. El Naqa, N. Quitoriano, (2013) *Red spectral shift of Cherenkov emission with applications in image-guided and intensity-modulated radiation therapy*, Med. Phys. **40**(6), 504 (2013).
44. M. Vallieres†, A. Kumar, K. Sultanem, I. El Naqa, (2013) *FDG-PET imaging features can predict treatment outcomes in head and neck cancer*, Med. Phys. **40**(6), 519 (2013).
45. M. Popovic, E. Poon, W. Parker, F. Cury, G. Shenouda, *Three-dimensional rendering of mandibular dose distribution: An aid in long-term dental care*, Int. J. Radiat. Oncol. Biol. Phys. **87**(2), S465-S466 (2013).
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50. O. Maria, A.M. Maria, N. Ybarra, K. Jeyaseelan, S. Lee†, J. Perez†, S. Lehnert, M. Serban, J. Seuntjens, I. El Naqa, *Investigation of stem-like cells role in regional radiosensitivity of the lung*, Int. J. Radiat. Oncol. Biol. Phys. **87**(2), S638-639 (2013).
51. K. Jeyaseelan, J. Coates†, N. Ybarra, M. David, S. Faria, L. Souhami, G. Shenouda, F. Cury, M. Duclos, I. El Naqa, *Copy number variations as predictors of late toxicities in prostate cancer*, Int. J. Radiat. Oncol. Biol. Phys. **87**(2), S668 (2013).
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55. E. Soisson, J. Seuntjens, M.D.C. Evans, *Validating small field vendor-standard stereotactic high dose rate 6MV beam data using IC10 and LION chambers*, Radiother. Oncol. **108** (1), S55 (2013).
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57. J. Kildea, J. Dubeau, M.D.C. Evans, R. Katchadourian, A. Licea, J. Seuntjens, S. Witharana, *Validation of Monte Carlo simulations of neutron fluence in the vicinity of a medical linear accelerator using spectral measurements*, Radiother. Oncol. **108**(1), S101 (2013).
58. S. Kashi†, G. Stroian, F. DeBlois, *A web-based system for quality assurance of radiation oncology equipment and procedures*, Radiother. Oncol. **108** (S1), S104-105 (2013).
59. J. Mullins†, J. Seuntjens, F. DeBlois, A. Syme, *Evaluation of Eclipse DMLC dose calculations in the context of dynamic couch trajectory treatments*, Radiother. Oncol. **108** (S1), S104-105 (2013).

60. H.J. Patrocínio, L. Santos Herbst, R. Ruo, *Monte Carlo algorithm as a tool for verifying monitor unit calculations in intensity modulated stereotactic radiosurgery*, Radiother. Oncol. **108**(1), S121 (2013).
61. P. Watson, E. Mainegra-Hing, N. Tomic, J. Seuntjens, *Scatter artifact correction in CBCT images*, Radiother. Oncol. **108**(S1), (2013).
62. I. El Naqa, *Statistical methods for fitting of response/biological models to clinical data*, ESTRO Forum, Geneva, April 2013 (Invited teaching lecture).
63. A. Berman, R. Hoge, G.B. Pike, *The impact of dissolved oxygen in blood on hyperoxia-based BOLD calibration*, Proc. 21st ISMRM, Salt Lake City, UT, April 22-26, 2013, #0851.
64. N. Stikov, A. Giorgio, J.S.W. Campbell, E.L. Mazerolle, N. De Stefano, G.B. Pike, *Magnetization transfer ratio tractometry in multiple sclerosis*, Proc. 21st ISMRM, Salt Lake City, UT, April 22-26, 2013.
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68. J. Kildea, T. Hijal, W. Parker, J. Seuntjens, *Database technology in radiation therapy: Comprehensive clinical QA*, International Conference on Computers in Radiotherapy (ICCR), Melbourne, Australia, May 6-9, 2013.
69. J. Kildea, C.R. Freeman, W. Parker, *Standardisation of CSI treatment planning and evaluation using a DVH registry*, 2013 Congress of the Pediatric Radiation Oncology Society (PROS), Louisville, KY, May 8-10, 2013.
70. J. Dubeau, S. Witharana, A. Licea, Y. Picard, M.D.C. Evans, J. Kildea, W. Parker, B. Guérin, E. Berthelette, *The measurement of neutron energy spectra in the high energy neutron flux environment of medical accelerators using the nested neutron spectrometer*, Annual scientific meeting of the Canadian Radiation Protection Association (CRPA), Sherbrooke, QC, May 27-30, 2013.
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72. I. El Naqa, *Systems radiobiology: At the intersection of physics and biology*, CAP, Montreal, QC, May 2013 (Invited lecture).
73. D. Markel†, I. El Naqa, H. Zaidi, *Novel multimodality segmentation using level sets and Jensen-Renyi divergence*, CAM, Waterloo, ON, May 2013.
74. Y. Zlateva†, I. El Naqa, N. Quitoriano, *Red spectral shift of Cherenkov emission with applications in image-guided and intensity-modulated radiation therapy*, CAM, Waterloo, ON, May 2013.
75. N. Stikov, A. Giorgio, J.S.W. Campbell, E.L. Mazerolle, N. De Stefano, G.B. Pike, *Imaging the g-ratio in-vivo*, in ISMRM White Matter study group workshop on *MS as a full brain disease*, London, England, June 2013.
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87. O.M. Maria, A.M. Maria, N. Ybarra, K. Jeyaseelan, S. Lee†, J. Perez†, S. Lehnert, S. Faria, M. Serban, J. Seuntjens, I. El Naqa, *The role of stem-like cells in regional radiosensitivity of the lung*, COMP-CARO, Montreal, QC, September 2013.
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92. M. Vallières†, A. Kumar, K. Sultanem, I. El Naqa, *FDG-PET Image-derived features can determine HPV status in head and neck cancer*, ASTRO, Atlanta, GA, September 2013.
93. M. Bieth, Lombaert, A.J. Reader, K. Siddiqi, *Atlas construction for dynamic (4D) PET using diffeomorphic transformations*, Oral presentation, MICCAI, Nagoya, Japan, September 2013.
94. M. Vallières†, I. El Naqa, *FDG-PET/MR textural features for the early assessment of tumor aggressiveness*, AQPMC, Quebec City, QC, November 2013.
95. A. Gauvin, S. Laframboise, G. Ruthman, *Strategies for foreign study ingestion by a PACS interfaced to a XDS affinity domain*, RSNA, Chicago, IL, December 2013.
96. A. Berman, Y. Ma, R. Hoge R, G.B. Pike, *The effect of dissolved oxygen on the magnetic susceptibility of blood*, Proc. 2nd Workshop on “MRI Phase Contrast & Quantitative Susceptibility Mapping”, Ithaca, NY, 2013, #16.
97. Y. Zlateva†, I. El Naqa, N. Quitoriano, *Preliminary study and red spectral shift of Cherenkov emission with applications in image-guided and intensity-modulated radiation therapy*, Biomedical Engineering Symposium, Montreal Neurological Institute, Montreal, QC, 2013.
98. J. Perez†, N. Ybarra, S.H. Park, J. Nadeau, I. El Naqa, *Optimization of optical labeling methods for tracking of stem cells in post-radiotherapy lung injury*, Biomedical Engineering Symposium, 2013 MNI, Montreal.