

## APPENDIX XII

### CONFERENCE & SEMINAR PRESENTATIONS

by members of the Medical Physics Unit : 2016 calendar year (x 97)

(presenter is indicated by an asterisk \*)

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

1. M. Simard†\*, E.J. McWalter, G.E. Gold, I.R. Levesque, *Quantitative magnetization transfer MRI of in situ and ex situ meniscus*, Journée Scientifique du Réseau de Bio-Imagerie du Québec / 8th scientific day of the Québec Bio-imaging network (QBIN), Montréal, Québec, January 29, 2016.
2. Z. Ahmed†\*, I.R. Levesque, *DCE-MRI shape analysis using model-based classification shapes with NNLS*, Journée Scientifique du Réseau de Bio-Imagerie du Québec / 8th scientific day of the Québec Bio-imaging network (QBIN), January 29, 2016, Montréal, Québec - poster.
3. S. Xing†\*, C.R. Freeman, S. Jung, I.R. Levesque, *Automated segmentation of soft tissue sarcoma into distinct pathological regions using diffusion and T2 relaxation*, Journée Scientifique du Réseau de Bio-Imagerie du Québec / 8th scientific day of the Québec Bio-imaging network (QBIN), Montréal, Québec, January 29, 2016 - poster.
4. J. Perez†\*, N. Ybarra, F. Chagnon, O. Lesur, I. El Naqa, *Quantitative image analysis of fluorescence endomicroscopy video sequences for mesenchymal stem cell tracking in regenerative lung treatment*, Journée Scientifique du Réseau de Bio-Imagerie du Québec / 8th scientific day of the Québec Bio-imaging network (QBIN), Montréal, Québec, January 29, 2016.
5. L. Montgomery†\*, C. Maietta, J. Kildea, *Validation of the national system for incident reporting: Radiation treatment*, Canadian Organization of Medical Physicists (COMP) 7<sup>th</sup> annual Winter School on Quality and Radiation Safety in Radiation Oncology, Montebello, Québec, February 07-11, 2016.
6. M. Evans\*, M. Broeders\*, W. Parker, L.J. Schreiner, *COMP-QARSAC-CNRC Liaison: Progress Report*, Canadian Organization of Medical Physicists (COMP) 7<sup>th</sup> annual Winter School on Quality and Radiation Safety in Radiation Oncology, Montebello, Québec, February 07-11, 2016.
7. I.R. Levesque, M.A. Hobson, M. Serban, H.J. Patrocinio, W. Parker, *MRI for treatment simulation: Experience in the deployment of a dedicated MRI system and program expansion*, Canadian Organization of Medical Physicists (COMP) 7<sup>th</sup> annual Winter School on Quality and Radiation Safety in Radiation Oncology, Montebello, Québec, February 07-11, 2016.
8. Y. Luo, I. El Naqa, D.L. McShan, I. Lohse, M.M. Matuszak, M. Schipper, S. Jolly, F.M. Kong, R. Ten Haken, *Response-based Bayesian network approaches for adaptive radiotherapy of non-small cell lung cancer (NSCLC)*, International Conference on Translational Research and Pre-Clinical Strategies in Radiation Oncology (ICTR), Geneva, Switzerland, February 15-19, 2016.
9. J. Kildea, L. Hendren, A. Joseph†, D. Herrera, M. Gorshkov, M. Keshavarz, A. Leung, M. Sawaf, J. Wainberg†, T. Hijal, *Realistic knowledge-based waiting times for radiotherapy patients: Addressing the pain of waiting*, Accreditation Canada's 5th Annual Quality Conference, Montréal, Québec, April 25-26, 2016.
10. M-A. Renaud†\*, G. Famulari†, J. Seuntjens, S. Enger, *Column generation-based Monte Carlo treatment planning for rotating shield brachytherapy*, 35<sup>th</sup> annual meeting of European Society for Radiotherapy & Oncology (ESTRO 35), April 29-May 03, 2016, Turin, Italy - abstract OC-0256; J. Eur. Soc. Radioth. Onc. **119** (Suppl.1), S118 (2016).
11. J. Renaud†\*, A. Sarfehnia, J. Seuntjens, *Experimental benchmarking of a probe-format calorimeter for use as an absolute clinical dosimeter*, 35<sup>th</sup> annual meeting of European Society for Radiotherapy & Oncology (ESTRO 35), April 29-May 03, 2016, Turin, Italy - abstract OC-0285, one of the five that was selected out of the numerous submitted under physics track - proffered paper; J. Eur. Soc. Radioth. Onc. **119** (Suppl.1), S133 (2016).

12. G. Famulari†\*, A. Armstrong, T. Urlich, S. Enger, *Production of Gd-153 as a source isotope for use in rotating shield high dose rate brachytherapy*, 35<sup>th</sup> annual meeting of European Society for Radiotherapy & Oncology (ESTRO 35), April 29-May 03, 2016, Turin, Italy - abstract PO-0971, poster; J. Eur. Soc. Radioth. Onc. **119** (Suppl.1), S472 (2016).
13. M. Letourneau, J. Kildea, W. Parker, A. Joseph†, C.R. Freeman, *Using a DVH registry standardizes IMRT-CSI planning and reduces V20 in non-target tissues*, 35<sup>th</sup> annual meeting of European Society for Radiotherapy & Oncology (ESTRO 35), April 29-May 03, 2016, Turin, Italy - abstract EP-1414, poster; J. Eur. Soc. Radioth. Onc. **119** (Suppl.1), S658 (2016).
14. S. Devic, S. Aldelaijan†, F. Alzorkany, N. Tomic, J. Seuntjens, F. DeBlois, B. Moftah, *Improving accuracy of radiochromic film dosimetry system using control film piece*, 35<sup>th</sup> annual meeting of European Society for Radiotherapy & Oncology (ESTRO 35), April 29-May 03, 2016, Turin, Italy - abstract EP-1482; J. Eur. Soc. Radioth. Onc. **119** (Suppl.1), S682 (2016).
15. O. Piron†\*, N. Varfalvy, L. Archambault, *Using ROIs projected on EPID as a predictor of plan deterioration due to anatomical changes*, 35<sup>th</sup> annual meeting of European Society for Radiotherapy & Oncology (ESTRO 35), April 29-May 03, 2016, Turin, Italy - abstract EP-1818, electronic poster; J. Eur. Soc. Radioth. Onc. **119** (Suppl.1), S852, (2016).
16. N. Tomic, H. Bekerat, F. DeBlois, J. Seuntjens, R. Forghani, S. Devic, *Dual energy computed tomography based tissue characterisation for radiotherapy*, 35<sup>th</sup> annual meeting of European Society for Radiotherapy & Oncology (ESTRO 35), April 29-May 03, 2016, Turin, Italy - abstract EP-1482; J. Eur. Soc. Radioth. Onc. **119** (Suppl.1), S857 (2016).
17. A.J.L. Berman†, G.B. Pike, *A general solution for transverse signal decay under the weak field approximation: Theory and validation with spherical perturbors*, annual meeting of the International Society of Magnetic Resonance in Medicine (ISMRM), Singapore City, Singapore, May 07-13, 2016.
18. A.J.L. Berman†, G.B. Pike, *Breaking  $\beta$ : Understanding the  $\beta$ -value in calibrated functional MRI*, annual meeting of the International Society of Magnetic Resonance in Medicine (ISMRM), Singapore City, Singapore, May 07-13, 2016.
19. H. Sun, M.E. MacDonald, G.B. Pike, *Phase correction of a bipolar gradient-echo acquisition for quantitative susceptibility mapping*, annual meeting of the International Society of Magnetic Resonance in Medicine (ISMRM), Singapore City, Singapore, May 07-13, 2016.
20. J.S.W. Campbell, I.R. Leppert, M. Boudreau, S. Narayanan, J. Cohen-Adad, G.B. Pike, N. Stikov, *Mapping the myelin g-ratio: Promises and pitfalls*, annual meeting of the International Society of Magnetic Resonance in Medicine (ISMRM), Singapore City, Singapore, May 07-13, 2016.
21. S. Xing†\*, C.R. Freeman, S. Jung, I.R. Levesque, *Automated segmentation of soft-tissue sarcoma into habitats using diffusion and T2 relaxation*, International Sarcoma Symposium, Toronto, Ontario, June 10 2016.
22. C.R. Freeman, M. Carrier-Vallières†, M. Serban, I.R. Levesque, F. Cury, M. Hickeson, R. Turcotte, J. Seuntjens, I. El Naqa, *FDG-PET, FMISO-PET, DW-MRI and DCE-MRI in the management of soft tissue sarcomas of the extremities*, International Sarcoma Symposium, Toronto, Ontario, June 10, 2016 - best poster award.
23. R.A. Nout\*, H. Bekerat, S. Devic, T. Vuong, *Is daily CT-based adaptive endorectal brachytherapy of benefit compared to using a single treatment plan for preoperative treatment of locally advanced rectal cancer?*, World Congress of Brachytherapy, San Francisco, California, June 27-29, 2016.
24. D. Herrera, A. Joseph†, T. Hijal, L. Hendren, A. Leung, M. Sawaf, M. Gorshkov, M. Keshavarz†, J. Kildea, *Opal: The oncology patient application*, 18<sup>th</sup> International Conference on the use of Computers in Radiation Therapy (ICCR), London, England, June 27-30, 2016.
25. J. Kildea, L. Hendren, A. Joseph†, D. Herrera, T. Hijal, *The oncology portal and application*, 18<sup>th</sup> International Conference on the use of Computers in Radiotherapy (ICCR), London, England, June 27-30, 2016.
26. J. Kildea, J. Wainberg†, W. Parker, T Hijal, *Electronic waiting room management for a busy cancer centre*, 18<sup>th</sup> International Conference on the use of Computers in Radiation Therapy (ICCR), London, England, June 27-30, 2016.
27. Y. Luo, I. El Naqa, D. McShan, M. Schipper, M. Matuszak, M Stenmark, I. Lohse, D. Ray, D. Owen, S. Jolly, T. Lawrence, F.M. Kong, R. Ten Haken, *A Bayesian network approach for local progression prediction in lung cancer with large-scale retrospective data*, 18<sup>th</sup> International Conference on the use of Computers in Radiation Therapy (ICCR), London, England, June 27-30, 2016.

28. L. Montgomery†, J. Kildea, *Incident reporting and learning software using the Canadian national system for incident reporting: Radiation treatment*, 18<sup>th</sup> International Conference on the use of Computers in Radiotherapy (ICCR), London, England, June 27-30, 2016 - poster.
29. J. Kildea, A. Joseph†, C.R. Freeman, *Automated EHR auditing in radiation oncology and a DVH registry*, 18<sup>th</sup> International Conference on the use of Computers in Radiotherapy (ICCR), London, England, June 27-30, 2016 - poster.
30. A. Joseph†, J. Kildea, *DepDocs: A web-based platform for knowledge-sharing and collaboration in radiation oncology*, 18<sup>th</sup> International Conference on the use of Computers in Radiotherapy, London, England, June 27-30, 2016 - poster.
31. J. Kildea, A. Joseph†, T. Hijal, *Document and appointment transfer from a radiation oncology EMR to a hospital-wide EMR*, 18<sup>th</sup> International Conference on the use of Computers in Radiotherapy, London, England, June 27-30, 2016 - poster.
32. S. Hickling†\*, H. Lei, M. Hobson, P. Leger, X. Wang, I. El Naqa, *Imaging dose distributions through the detection of radiation-induced acoustic waves*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016; Med. Phys. **43**(8), 4928 (2016).
33. Y. Zlateva†, J. Seuntjens, I. El Naqa, *Stopping power-to-Cherenkov power ratios and beam quality specification for clinical Cherenkov emission dosimetry of electrons: Beam-specific effects and experimental validation*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016 - oral presentation at Young Investigator Symposium; Med. Phys. **43**(8), 4929 (2016).
34. A. Diamant†, J. Seuntjens, I. El Naqa, N. Ybarra, *Modelling metastasis after lung SBRT using Bayesian network averaging*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016; Med. Phys. **43**(8), 4930 (2016). <http://dx.doi.org/10.1118/1.4961760>.
35. J. Kildea, S. Enger, R. Maglieri†, L. Mirzakhani†, C. Vallhagen Dahlgren, J. Dubeau, S. Witharana†, *Neutron spectral measurements around a scanning proton beam*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016; Med. Phys. **43**(8), 4941 (2016).
36. A. Joseph†, D. Herrera, T. Hijal, L. Hendren, A. Leung, J. Wainberg†, M. Sawaf, G. Maxim, R. Maglieri†, M. Keshavarz†, J. Kildea, *Predicting waiting times in radiation oncology using machine learning*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016 - oral presentation; Med. Phys. **43**(8), 4953 (2016).
37. J. Renaud†, J. Seuntjens, A. Sarfehnia, *Sci-Sat AM: Radiation Dosimetry and Practical Therapy Solutions - 03: Energy dependence of a clinical probe-format calorimeter and its pertinence to absolute photon and electron beam dosimetry*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016; Med. Phys. **43**(8), 4959 (2016).
38. L. Montgomery†, J. Kildea, *An evaluation of incident reporting and learning using the Canadian National System for incident reporting: Radiation treatment*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016; Med. Phys. **43**(8), 4959 (2016).
39. P.G.F. Watson†, J. Seuntjens, *Investigation of an absorbed dose to water formalism for a miniature low-energy x-ray source*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016; Med. Phys. **43**(8), 4960 (2016).
40. T. Bjarnson, J. Kildea, M. Broeders, *Session C1: Quality, safety and regulatory issues in imaging and therapy*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016.
41. J. Kildea, A. Joseph†, T. Hijal, *Waiting room management for a busy cancer centre*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016 - poster.
42. M. Evans, R. Ruo, H. Patrocinio, E. Poon, C.R. Freeman, T. Hijal, W. Parker, *TB-ARC: A total body photon ARC technique using a commercially available linac*, Annual scientific meeting of the Canadian Radiation Protection Association (CRPA-ARCP), St John's, Newfoundland, July 20-23, 2016.
43. I. Alamri†, S. Faria, J. Gluszko, H. Patrocinio, *Intra-fraction tumor position assessment for lung SBRT in patients treated without customized immobilization devices*, 62<sup>nd</sup> annual meeting of the Canadian Organization of Medical Physicists (COMP/OCMP), St. John's, Newfoundland, July 20-23, 2016 - poster.

44. U. Mwidu, S. Devic, M. Shehadeh, M. AlKafi, R. Mahmood, B. Moftah, *Dosimetry comparison of advanced external beam radiation treatment modalities to brachytherapy treatments in patients with cervical cancer*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016; Med. Phys. **43**(6), 3559 (2016). SU-F-T-420.
45. Y. Ma\*, M. Laprise-Pelletier, J. Lagueux, M. Cote, M. Fordin, L. Beaulieu, *Dose enhancement of gold nanoparticle in proton therapy: A Monte Carlo study based on the transmission electron microscopy imaging*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016; Med. Phys. **43**(6), 3674 (2016). SU-G-TeP3-031.
46. K. O'Grady†, S. Davis, J. Seuntjens, *Creation of a Monte Carlo TrueBeam model by reproducing Varian phase space data*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016; Med. Phys. **43**(6), 3730 (2016). TU-AB-BRC-05.
47. G. Kim, B. Muir, W. Culberson, S. Davis, Y. Huang, S. Lee†, J. Lowenstein, A. Sarfehnia, N. Tolani, J. Siebers, *Results of a survey on the implementation of the TG-51 protocol and associated addendum on reference dosimetry of external beams*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016; Med. Phys. **43**(6), 3730 (2016) TU-D-201-03.
48. S. Hickling†, I. El Naqa, *Experimental characterization of acoustic signals generated in water following clinical photon and electron beam irradiation*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - TH-CD-201-06; Med. Phys. **43**(6), 3870 (2016).
49. N. Entezari, J. Renaud†, G. Peterson, A. Sarfehnia, *Towards absolute dose measurement in MRI-linac and gamma-knife: Design and construction of an MR-compatible water calorimeter*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - TH-CD-BRA-09; Med. Phys. **43** (6), 3875 (2016).
50. Y. Zlateva†, J. Seuntjens, I. El Naqa, *Towards clinical Cherenkov emission dosimetry: Stopping power-to-Cherenkov power ratios and beam quality specification of clinical electron beams*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - oral snap SU-C-201-07.
51. L. Mirzakhanian†, H. Benmakhlouf, J. Seuntjens, *New formalism correction factors for ionization chambers in the calibration of Leksell gamma knife Perfection model based on Monte Carlo simulation*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - TH-AB-201-09.
52. J. Schneider†, T. Vuong, N. Tomic, M. Hickeys, R. Lisbona, F. DeBlois, J. Seuntjens, S. Devic, *Decomposition of FDG-PET based differential uptake volume histograms in rectal cancer patients*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016.
53. J. Renaud†\*, A. Sarfehnia, S. Woodings, J. Kok, B. van Asselen, J. Wolthaus, B. Raaymakers, J. Seuntjens, *Towards reference dosimetry of MR-linacs using a clinical probe-format calorimeter*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - TH-CD-BRA-10.
54. P. Watson†, M-A. Renaud†, J. Seuntjens, *Efficiency of an IAEA phase-space source for a low energy x-ray tube using Egs++*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - TU-AB-BRC-07.
55. D. Matenine†\*, G. Côté, J. Mascolo-Fortin, Y. Goussard, P. Desprès, *Evaluation of partial storage of the system matrix for cone beam computed tomography using a GPU platform*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - SU-D-206-02.
56. M. Delage†\*, E. Cloutier, M. Lecavalier, D. Lariviere, C. Allen, L. Beaulieu. *Core/shell and multishell colloidal quantum dots nanodosimeters behaviour under repeated MV and KV irradiations*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - SU-C-201-01.
57. M. Rilling†\*, M. Goulet, L. Beaulieu, S. Thibault. L. Archambault, *Noise and temporal resolution in a near real-time 3D dosimeter*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - SU-C-201-04.

58. S. Devic\*, N. Tomic, D. Lewis, S. Aldelaijan†, F. DeBlois, J. Seuntjens, *Uncertainty of radiochromic film based relative dose measurements*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016 - SU-G-BRB-14.
59. Y. Luo, I. El Naqa, D. McShan, M. Matuszak, S. Hobson, S. Jolly, R. Ten Haken, *A Bayesian network approach for joint prediction of tumor control and radiation pneumonitis in non-small-cell lung cancer (NSCLC)*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016.
60. D. Owen\*, C. Anderson, C. Mayo, I. El Naqa, R. Ten Haken, Y. Cao, J. Balter, M. Matuszak, *Development of a plug-in based image analysis tool for integration into treatment planning*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016.
61. A. Diamant†, I. El Naqa, N. Ybarra, J. Seuntjens, *Modeling lung SBRT tumor response using Bayesian network averaging*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016.
62. I. El Naqa, R. Ten Haken, *Quantum learning for knowledge-based response-adaptive radiotherapy*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016.
63. S. Lee†, D. Markel†, G. Hegyi, I. El Naqa, *Robustness test of computed tomography textures of lung tissues to varying scanning protocols using a realistic phantom environment*, 58<sup>th</sup> annual meeting & exhibition of the American Association of Physicists in Medicine (AAPM), Washington, DC, July 31-August 04, 2016.
64. J. Bancher†\*, P. Papaconstadopoulos†, J. Renaud†, J. Seuntjens, *Energy dependence of a graphite probe calorimeter for use in absolute clinical radiation dosimetry*, Cancer Research Program, Summer Student Research Day, August 26, 2016.
65. T. Rosin†\*, Z. Ahmed†, M. Carrier-Vallières†, I. Levesque, *Automated identification of growth in liver metastases using dynamic contrast-enhanced MRI and shape analysis*, Cancer Research Program, Summer Student Research Day, August 26, oral presentation.
66. J. DeCunha†\*, S. Enger, *Was dosimetry to blame? A retrospective analysis of beta emitting sources in intravascular brachytherapy*, Cancer Research Program, Summer Student Research Day, August 26, 2016.
67. S. Faria, I. El Naqa, L-M. Wang, *Lack of dose-volume parameter to predict the development of chest wall pain after SBRT for lung cancer*, 30<sup>th</sup> annual scientific meeting of the Canadian Association of Radiation Oncologists (CARO), "Quality and Safety in Radiation Oncology", Banff, Alberta, September 14-17, 2016.
68. S. Faria, I. Alamri†, J. Gluszko, H. Patrocino, *Do we really need customized immobilization devices for modern SBRT in lung cancer?*, 30<sup>th</sup> annual scientific meeting of the Canadian Association of Radiation Oncologists (CARO), "Quality and Safety in Radiation Oncology", Banff, Alberta, September 14-17, 2016 - poster.
69. W-Q. Liu, S. Zhornitsky, J. Greenfield, R. Pasha, G. Gerchiaro Farah, Y. Zhang, G.B. Pike, V.W. Yong, L. Metz, *Randomized controlled pilot trial of domperidone in relapsing remitting multiple sclerosis*, 32<sup>nd</sup> Congress of the European Committee for Treatment and Research in Multiple Sclerosis, London, England, September 14-17, 2016.
70. A. Diamant†, J. Seuntjens, I. El Naqa, H. Al-Halabi, K. Adil, *Prediction of distant metastasis using dose-volume metrics in non-small cell lung cancer stereotactic body radiation therapy*, 58th annual meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016; Int. J. Rad. Onc. Biol. Phys. **96**(2S), E603 (2016). DOI: 10.1016/j.ijrobp.2016.06.2140.
71. K. Adil, A. Diamant†, I. El Naqa, J. Seuntjens, M. Duclos, N. Kopek, S. Faria, B.S. Abdulkarim, H. Al-Halabi, *Stereotactic body radiation therapy with 48 Gy in 3 fractions is an effective treatment for early-stage non-small cell lung cancer patients*, 58th annual meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016; Int. J. Rad. Onc. Biol. Phys. **96**(2S), E481-E482 (2016).
72. N. Ybarra, M. Carrier-Vallières†, K. Jeyaseelan, C.R. Freeman, S. Jung, R. Turcotte, J. Seuntjens, I. El Naqa, *Correlation of molecular imaging and biomarkers expression in the prediction of metastatic capacity of soft tissue sarcomas*, 58th annual meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016; Int. J. Rad. Onc. Biol. Phys. **96**(2S), E705-E706 (2016).
73. K. Suresh, L. Bazzi, M. Matuszak, K. Brock, R. Ten Haken, I. El Naqa, M.J. Schipper, T.S. Lawrence, M. Feng, *Using indocyanine green to predict liver toxicity after stereotactic body radiotherapy*, 58th annual meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016.

74. M. Feng, K. Suresh, L. Bazzi, M. Matuszak, K. Brock, R. Ten Haken, I. El Naqa, M.J. Schipper, T.S. Lawrence, *A model to predict liver toxicity after stereotactic body radiotherapy*, 58th annual meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016.
75. C. Mayo, M. Kessler, I. El Naqa, D. McShan, R. Ten Haken, *M-ROAR: Making "big data" a practical reality in the clinic*, 58th annual meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016.
76. I. El Naqa, M. Feng, L. Bazzi, J. Dow, K. Cuneo, M. Matuszak, K. Brock, K. Suresh, M.J. Schipper, T.S. Lawrence, R. Ten Haken, *Reinforcement learning strategies for decision making in knowledge-based adaptive radiotherapy: Application in liver cancer*, 58th annual meeting of the American Society for Radiation Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016.
77. V. Fortier†, I.R. Levesque, *Comparison of phase processing techniques for quantitative susceptibility mapping*, 4<sup>th</sup> International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping – International Society for Magnetic Resonance in Medicine (ISMRM), Graz, Austria, September 26-28, 2016 - poster.
78. A. Licea, Y. Picard, J. Dubeau, S.S. Hakmana Witharana†, J. Kildea, M. Evans, R. Maglieri†, *The measurement of neutron energy spectra in different licensed facilities by the Canadian Nuclear Safety Commission using the nested neutron spectrometer*, 13<sup>th</sup> annual meeting of the Task Force on Shielding Aspects of Accelerators, Targets and Irradiation Facilities (SATIF-13), Dresden, Germany, October 10-12, 2016.
79. M. Carrier-Vallières†\*, E. Kay-Rivest, L-J. Perrin, X. Liem, C. Furstoss, H.J.W.L. Aerts, N. Khaouam, F. Nguyen, C.S. Wang, K. Sultanem, I. El Naqa, *Evaluation du risque de récurrences et de métastases dans le cancer de l'ORL: Développement de modèles prédictifs via la construction de forêts d'arbres décisionnels*, Journée étudiante - Association Québécoise des Physicien(ne)s Médicaux Cliniques (AQPMC), Sherbrooke, Québec, December 02, 2016.
80. M-A. Saucier†\*, D. Matenine†, P. Déspres, *Correction par simulation Monte Carlo de la diffusion pour des images de tomodensitométrie*, Journée étudiante - Association Québécoise des Physicien(ne)s Médicaux Cliniques (AQPMC), Sherbrooke, Québec, December 02, 2016.
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