

APPENDIX XII.

CONFERENCE & SEMINAR PRESENTATIONS

by members of the Medical Physics Unit : 2018 calendar year (x 66)

(in multiple author entries, presenter is indicated by an asterisk *)

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

1. A. Chatterjee†, *Comprehensive knowledge-based radiation therapy planning for the glioblastoma disease site*, 9th Annual Winter School – Canadian Organization of Medical Physicists (COMP): "Automatization and the Evolution of Personalized Patient Care", Lake Louise, Alberta, February 11-15, 2018, oral presentation.
2. A. Diamant†, *Combining radiomics, dosimetrics and biological features to accurately model cancer recurrence in NSCLC patients*, 9th Annual Winter School – Canadian Organization of Medical Physicists (COMP): "Automatization and the Evolution of Personalized Patient Care", Lake Louise, Alberta, February 11-15, 2018, oral presentation.
3. J. Kildea, *Linking patient outcomes to Radiation Oncology plan parameters: the importance of standardized language*, 9th Annual Winter School – Canadian Organization of Medical Physicists (COMP): "Automatization and the Evolution of Personalized Patient Care", Lake Louise, Alberta, February 11-15, 2018, oral presentation.
4. S. Aldelaijan†, *Film dosimetric quality assurance of HDR brachytherapy*, International Conference on Radiation Medicine (ICRM), Alfaisal University & King Faisal Specialist Hospital & Research Centre Riyadh, Saudi Arabia, February 11-15, 2018.
5. Z. Ahmed†*, I.R. Levesque, *Quantitative DCE-MRI analysis using a reference tissue and AIF tail*, Scientific Day of the Quebec Bio-Imaging Network (QBIN/RBIO), Montréal, Quebec, March 9, 2018, oral presentation.
6. G. Famulari†*, S.A. Enger, *Intensity modulated brachytherapy system for dynamic modulation of shielded catheters*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract OC-0173; J. Eur. Soc. Radiother. Oncol. **127**(1), S90. DOI: [https://doi.org/10.1016/S0167-8140\(18\)30483-3](https://doi.org/10.1016/S0167-8140(18)30483-3).
7. L. Mirzakhani†*, R. Bassalow, C. Huntzinger, J. Seuntjens, *Dosimetry of radiotherapy machines with intermediate non-equilibrium field sizes*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract EP-1847; J. Eur. Soc. Radiother. Oncol. **127**(1), S996-997 (electronic poster). DOI: [https://doi.org/10.1016/S0167-8140\(18\)32156-X](https://doi.org/10.1016/S0167-8140(18)32156-X).
8. J. Renaud†*, A. Sarfehnia, J. Seuntjens, *Simplifying the design of a probe-format calorimeter for absolute clinical dosimetry*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract OC-0077, proffered paper; J. Eur. Soc. Radiother. Oncol. **127**(1), S37-38. DOI: [10.1016/S0167-8140\(18\)30387-6](https://doi.org/10.1016/S0167-8140(18)30387-6).
9. S. Hickling†*, M. Hobson, I. El Naqa, *Demonstration of x-ray acoustic computed tomography for non-standard field dosimetry applications*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract OC-0607, proffered paper; J. Eur. Soc. Radiother. Oncol. **127**(1), S319-320. DOI: [https://doi.org/10.1016/S0167-8140\(18\)30917-4](https://doi.org/10.1016/S0167-8140(18)30917-4).
10. A. Toltz†*, J. Seuntjens, H Lu, H. Paganetti, *Proton therapy range verification accuracy considering range mixing for time resolved dosimetry*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract PO-0874; J. Eur. Soc. Radiother. Oncol. **127**(1), S460-461. DOI: [10.1016/S0167-8140\(18\)31184-8](https://doi.org/10.1016/S0167-8140(18)31184-8).
11. S. Hickling†*, M. Hobson, I. El Naqa, *Detecting radiation-induced acoustic waves with transperineal transducer for in vivo dosimetry*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract PO-0882; J. Eur. Soc. Radiother. Oncol. **127**(1), S466. DOI: [https://doi.org/10.1016/S0167-8140\(18\)31192-7](https://doi.org/10.1016/S0167-8140(18)31192-7).

12. A. Diamant^{†*}, A. Chatterjee[†], I. El Naqa, H. Bahig, E. Fillion, C. Robinson, S. Faria, H. Al-Halabi, K. Adil, J. Seuntjens, *Can dose proximal to the PTV influence the risk of distant metastases in CBRT lung cancer patients?*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract PO-0755; J. Eur. Soc. Radiother. Oncol. **127**(1), S389. DOI: [https://doi.org/10.1016/S0167-8140\(18\)31065-X](https://doi.org/10.1016/S0167-8140(18)31065-X).
13. C. Pembroke^{*}, J. Alberst[†], J. Kildea, W. Parker, S. Faria, *Dosimetric variables for chest wall pain following lung stereotactic body radiotherapy*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract EP-1407; J. Eur. Soc. Radiother. Oncol. **127**(1), S767. DOI: [https://doi.org/10.1016/S0167-8140\(18\)31716-X](https://doi.org/10.1016/S0167-8140(18)31716-X).
14. P. Watson^{†*}, H. Bekerat, P. Papaconstadopoulos, J. Seuntjens, *Validation of the INTRABEAM system dosimetry with ionization chamber and EBT3 film measurements*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, abstract OC-0406; J. Eur. Soc. Radiother. Oncol. **127**(1), S207-208. DOI: [https://doi.org/10.1016/S0167-8140\(18\)30716-3](https://doi.org/10.1016/S0167-8140(18)30716-3).
15. P. Papaconstadopoulos^{*}, K. O'Grady, S. Aldelaijan[†], S. Devic, I.R. Levesque, J. Seuntjens, *The primary X-ray source: reconstruction and characterization of six Varian TrueBeam sources*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, poster EP-2153; J. Eur. Soc. Radiother. Oncol. **127**(1), S1188-1189. DOI: [https://doi.org/10.1016/S0167-8140\(18\)32462-9](https://doi.org/10.1016/S0167-8140(18)32462-9).
16. L. Mirzakhani^{†*}, R. Bassalow, C. Huntzinger, J. Seuntjens, *Dosimetry of radiotherapy machines with intermediate non-equilibrium field sizes*, 37th Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Barcelona, Spain, April 20-24, 2018, oral presentation.
17. Z. Ahmed^{†*}, C.R. Freeman, K. Goulding, T. Powell, J. Seuntjens, R. Turcotte, I.R. Levesque, *Texture features from early enhancement of post-contrast MRI are predictive of metastatic sarcoma*, 3rd Cancer Research Program Scientific Day, Research Institute-McGill University Health Centre, Montréal, Quebec, May 22, 2018.
18. V. Fortier^{†*}, I.R. Levesque, *Assignment of Hounsfield units from magnetic resonance imaging for radiation therapy treatment*, 3rd Cancer Research Program Scientific Day, Research Institute-McGill University Health Centre, Montréal, Quebec, May 22, 2018.
19. S. Xing^{†*}, C.R. Freeman, S. Jung, R. Turcotte, I.R. Levesque, *Probabilistic classification of tumor habitats in soft tissue sarcoma*, 3rd Cancer Research Program Scientific Day, Research Institute-McGill University Health Centre, Montréal, Quebec, May 22, 2018; NMR Biomed. **31**(11), e4000. doi: 10.1002/nbm.4000.
20. L. Montgomery^{†*}, M. Evans, L.H. Liang, R. Maglieri, J. Kildea, *The effect of the flattening filter on photoneutron production at 10 MV in the Varian TrueBeam linac*, 3rd Cancer Research Program Scientific Day, Research Institute-McGill University Health Centre, Montréal, Quebec, May 22, 2018, poster.
21. H. Patrick^{†*}, L. Souhami, J. Kildea, *The DVH registry: A tool for retrospective analysis of radiation therapy treatment planning*, 3rd Cancer Research Program Scientific Day, Research Institute-McGill University Health Centre, Montréal, Quebec, May 22, 2018, poster.
22. A. Chatterjee^{†*}, *Robust predictive radiomic models for data from independent institutions*, World Congress on Medical Physics & Biomedical Imaging (IUPESM), Prague, Czech Republic, June 03-08, 2018, T02-116.
23. T. Lefebvre^{†*}, A. Ilinca, C. Wartelle-Bladou, G. Sebastiani, H. Castel, B.N. Nguyen, J. Murphy-Lavallée, D. Oliuie, G. Gilbert, A. Tang, *Non-invasive staging of liver fibrosis using magnetic resonance, ultrasound, and transient elastography: A comparison with liver biopsy*, Proc. Intl. Soc. Mag. Reson. Med. **26**, 0513 (2018). **Summa Cum Laude Award**.
24. T. Lefebvre^{†*}, L. Petitclerc, L. Bilodeau, G. Sebastiani, H. Castel, C. Wartelle-Bladou, B.N. Nguyen, G. Gilbert, A. Tang, *MRI cine-tagging of cardiac-induced motion: Diagnostic performance for non-invasive staging of liver fibrosis*, Proc. Intl. Soc. Mag. Reson. Med. **26**, 0997 (2018). **Summa Cum Laude Award**.
25. G. Famulari^{†*}, J. Alfieri, S.A. Enger, *Can intermediate energy sources result in increased bone doses for pelvic and head and neck brachytherapy?*, Annual Meeting of the American Brachytherapy Society, San Francisco, California, June 7-9, 2018, S130; Brachytherapy **17**(4) suppl. <https://doi.org/10.1016/j.brachy.2018.04.241>.
26. G. Famulari^{†*}, M-A. Renaud[†], S.A. Enger, *RapidBrachy MCTPS: A Monte Carlo based treatment planning system for brachytherapy applications*, Annual Meeting of the American Brachytherapy Society, San Francisco, California, June 7-9, 2018, S35-S36; Brachytherapy **17**(4), suppl.: <https://doi.org/10.1016/j.brachy.2018.04.049>; Phys. Med. Biol. **63**(17), 175007: doi: 10.1088/1361-6560/aad97a.

27. H. Glickman^{†*}, T. Vuong, S. Devic, K. Adil, G. Famulari[†], S.A. Enger, *Dosimetrical study for image guided HDR brachytherapy treatment of rectal cancer with 192Ir and 169Yb*, Annual Meeting of the American Brachytherapy Society, San Francisco, California, June 7-9, 2018, S93; Brachytherapy **17**(4), suppl. <https://doi.org/10.1016/j.brachy.2018.04.165>.
28. S. Aldelaijan^{†*}, P. Papaconstadopoulos, J. Schneider[†], H. Bekerat, J. Seuntjens, I. Buzurovic, S. Devic, *Decomposition of source dwell positions and dwell times: A novel method for accurate source tracking and quality assurance in HDR brachytherapy based on film dosimetry*, Annual Meeting of the American Brachytherapy Society, San Francisco, California, June 7-9, 2018, S128-S129; Brachytherapy **17**(4), suppl. <https://doi.org/10.1016/j.brachy.2018.04.239>.
29. S. Aldelaijan^{†*}, P. Papaconstadopoulos, J. Schneider[†], H. Bekerat, J. Seuntjens, I. Buzurovic, S. Devic, *Dosimetric impact of source position variation inside different catheter sizes in HDR brachytherapy*, Annual Meeting of the American Brachytherapy Society, San Francisco, California, June 7-9, 2018, S31-S32; Brachytherapy **17**(4), suppl. <https://doi.org/10.1016/j.brachy.2018.04.239>.
30. J. Schneider^{†*}, R. Lisbona, J. Hickeson, G. Chaussé, N. Tomic, T. Vuong, F. DeBlois, J. Seuntjens, S. Devic, *FDG-PET background definition using differential uptake volume histograms for rectal cancer*, 31st annual Canadian Student Health Research Forum, Winnipeg, Manitoba, June 11-15, 2018.
31. I.R. Levesque^{*}, Z. Ahmed[†], T. Rosin, A. Lazaris, C. Reinhold, P. Metrakos, *Identification of growth patterns in liver metastases using time-course shape analysis of contrast-enhanced MRI*, Annual meeting of the Liver Metastasis Research Network (LMRN), Montréal, Quebec, June 13-16, 2018.
32. V. Fortier^{†*}, I.R. Levesque, *Pseudo-CT generation from 3D multi-echo gradient-echo MRI*, 26th Annual Meeting of the International Society for Magnetic Resonance in Medicine-European Society for Magnetic Resonance in Medicine & Biology (ISMRM-ESMRMB), Paris, France, June 16-21, 2018; poster abstract #2829. <http://archive.ismrm.org/2018/2829.html>
33. Z. Ahmed^{†*}, I.R. Levesque, *Self-referenced DCE-MRI: Reference region modelling without a reference tissue*, 26th Annual Meeting of the International Society for Magnetic Resonance in Medicine-European Society for Magnetic Resonance in Medicine & Biology (ISMRM-ESMRMB), Paris, France, June 16-21, 2018; poster abstract #5510. https://www.ismrm.org/18/program_files/EP24.htm
34. Z. Ahmed^{†*}, I.R. Levesque, *A reference region version of the two-compartment exchange model for DCE-MRI*, 26th Annual Meeting of the International Society for Magnetic Resonance in Medicine-European Society for Magnetic Resonance in Medicine & Biology (ISMRM-ESMRMB), Paris, France, June 16-21, 2018; poster abstract #5511. https://www.ismrm.org/18/program_files/EP24.htm.
35. J. Yeot^{†*}, et al, *Quantifying the spatial and angular distribution of lethal neutrons for treatment planning*, 26th Annual Meeting of the International Society for Magnetic Resonance in Medicine-European Society for Magnetic Resonance in Medicine & Biology (ISMRM-ESMRMB), Paris, France, June 16-21, 2018, p. 611-615.
36. D. Cooper^{†*}, J. Capobianco, J. Seuntjens, *Quantifying nanoparticle radioluminescence and "rational design" of nanotherapeutics for X-PDT*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, abstract TU-C930-GePD-F4-3, e470; Med. Phys. **45**(6). <https://doi.org/10.1002/mp.12968>.
37. J. Renaud^{†*}, A. Sarfehnia, J. Bancherit, J. Seuntjens, *Aerrow: A probe-format graphite calorimeter for absolute dosimetry of MR-guided radiotherapy modalities*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, abstract TU-K-KDBRC-8, e564; Med. Phys. **45**(6), 414-428.
38. S. Aldelaijan^{†*}, P. Papaconstadopoulos, H. Bekerat, J. Schneider[†], J. Seuntjens, I. Buzurovic, S. Devic, *A novel source tracking method for accurate and comprehensive HDR brachytherapy quality assurance using radiochromic film dosimetry*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e572; Med. Phys. **45**(6), abstract WE-AB-DBRA-2.
39. A. Chatterjee^{†*}, M. Serban, S. Faria, L. Souhami, F. Cury, J. Seuntjens, *Novel knowledge-based treatment planning model for prostate cancer patients treated with hypofractionation and simultaneous integrated boost*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e628; Med. Phys. **45**(6), abstract WE-FG-DBRA-8.
40. Y. Zlateva^{†*}, I. El Naqa, J. Seuntjens, *Cherenkov emission-based photon and electron beam dosimetry*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e630; Med. Phys. **45**(6), abstract WE-FG-KDBRA1-5.
41. H. Nusrat^{*}, J. Renaud[†], N. Entezari, B. Keller, J. Seuntjens, A. Sarfehnia, *Absolute dosimetry using a novel*

- portable water calorimeter design in MR-linac*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e629; Med. Phys. **45**(6), abstract WE-FG-KDBRA1-1.
42. J. Seuntjens, *Small field dosimetry: Prescribing, recording, and reporting of stereotactic treatments with small photon beams - ICRU Report 91*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e676; Med. Phys. **45**(6), abstract TH-AB-207-01.
 43. M. Vallières^{†*}, A. Chatterjee[†], F. Lucia, V. Bourbonne, P. Bonaffini, I. Masson, A. Mervoyer, C. Reinhold, D. Visvikis, U. Schick, J. Seuntjens, O. Morin, M. Hatt, *Investigating the complementarity of radiomics and clinical information for predicting treatment failure in multiple cancer types*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e679; Med. Phys. **45**(6), abstract TH-AB-DBRB-7.
 44. Z. Ahmed^{†*}, I.R. Levesque, *Reference region modelling of dynamic contrast enhanced MRI using only signal enhancement*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e385; Med. Phys. **45**(6), abstract SU-L-205-4.
 45. D. Tho^{†*}, L. Beaulieu, *A novel electromagnetic-tracked scintillation dosimeter for accurate in vivo dosimetry in HDR brachytherapy*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e172; Med. Phys. **45**(6), abstract SU-H330-GePD-F7-1.
 46. H.L. Rosales^{†*}, L. Archambault, S. Beddar, L. Beaulieu, *A high-performance 3 points plastic scintillator dosimeter for HDR brachytherapy: Conception, development and characterization*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e354; Med. Phys. **45**(6), abstract SU-K-209-1.
 47. E. Cloutier^{†*}, L. Archambault, L. Beaulieu, *Volumetric scintillation signals separation using the multispectral formalism*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e602; Med. Phys. **45**(6), abstract WE-C1000-GePD-F3-5.
 48. S. Cui^{†*}, P. Despres, L. Beaulieu, *A knowledge-based multi-criteria optimization (kMCO) algorithm for high dose rate (HDR) brachytherapy*, 60th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Nashville, Tennessee, July 29-August 2, 2018, e658; Med. Phys. **45**(6), abstract WE-J-207-2.
 49. W. Parker, *Radiation treatment planning evaluation*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, CARO Resident Refresher Course, oral presentation.
 50. J. Kildea, *Patterns of practice*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, CARO Joint Theme Symposium, oral presentation.
 51. V. Turgeon^{†*}, G. Kertzsch, S.A. Enger, *Non-invasive positron detector for the monitoring of the arterial input function in PET*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, CARO Resident and Young Investigator Competition, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S3.
 52. A. Diamant^{†*}, A. Chatterjee[†], S. Faria, I. El Naqa, H. Bahig, E. Filion, C. Robinson, H. Al Halabi, J. Seuntjens, *Can dose proximal to the PTV influence the risk of distant metastases in early stage lung cancer patients treated with SBRT?*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, CARO Resident and Young Investigator Competition, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S3.
 53. V. Fortier^{†*}, I.R. Levesque, *Synthetic-CT from 3D gradient-echo MRI*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, CARO Resident and Young Investigator Competition, oral presentation - **AWARDED 2nd place**; J. Eur. Soc. Radiother. Oncol. **129**(1), S4.

54. H. Patrick^{†*}, L. Souhami, J. Alber[†], J. Kildea, *Development of a DVH registry for plan evaluation, dose accumulation, and cohort analysis*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S13.
55. M. Serban^{*}, C. Chiristis, K. Nkiwane, I. Dumas, J. Swamidas, A. de Leeuw, R. Hudej, G. Lowe, N. Nesvacil, R. Potter, J. Lindegaard, K. Tanderup, *Isodose surface volumes in cervix cancer brachytherapy: Comparison of standard (point A) and individualized image guided adaptive (embrace) brachytherapy*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S23.
56. P. Watson^{†*}, H. Bekerat, P. Papaconstadopoulos, J. Seuntjens, *The intrabeam dosimetric interregnum: Are the breast target protocol doses delivered by intrabeam accurate?*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation - **Awarded 2nd place, COMP Oral Award for best presentation**; J. Eur. Soc. Radiother. Oncol. **129**(1), S14.
57. M-A. Renaud^{†*}, M. Serban, C. Lambert, C.R. Freeman, G. Shenouda, J. Seuntjens, *The clinical case for simultaneously-optimized mixed electron-photon radiotherapy on standard radiotherapy linacs: Breast and soft tissue sarcoma irradiation*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S32.
58. Y. Zlateva^{†*}, B. Muir, I. El Naqa, J. Seuntjens, *Laying the groundwork for accurate Cherenkov emission-based electron beam dosimetry*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S21.
59. J. Schneider^{†*}, R. Lisbona, M. Hickeson, G. Chausse, N. Tomic, T. Vuong, F. DeBlois, J. Seuntjens, S. Devic, *Defining background in rectal cancer FDG-PET scans by decomposing differential uptake volume histograms*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S34.
60. Z. Ahmed^{†*}, C.R. Freeman, K. Goulding, T. Powell, J. Seuntjens, R. Turcotte, I.R. Levesque, *Texture features from early enhancement of post-contrast MRI are predictive of metastatic sarcoma*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation; J. Eur. Soc. Radiother. Oncol. **129**(1), S35.
61. L. Mirzakhanian^{†*}, A. Sarfehnia, J. Seuntjens, *Experimental validation of the Monte Carlo calculated $k_{fmsr};f_{ref}$ $Q_{msr};Q_0$ factors for the reference dosimetry of Leksell Gamma Knife[®] IconTM Unit in the context of the IAEA TRS-483 protocol*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, oral presentation.
62. L. Montgomery^{†*}, M. Evans, L.H. Liang, R. Maglieri, J. Kildea, *The effect of the flattening filter on photoneutron production at 10 MV in the Varian TrueBeam linac*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, poster presentation.
63. J. Mullins^{†*}, M-A. Renaud[†], J. Seuntjens, *Simultaneous trajectory and volumetric modulated arc therapy optimization*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, poster presentation.

64. A. Chatterjee^{†*}, M. Vallières[†], A. Dohan, I. Levesque, Y. Ueno, S. Said. C. Reinhold, J. Seuntjens, *Addressing data variability from different institutions for robust radiomic model building*, 64th Annual Meeting of the Canadian Association of Radiation Oncology (CARO) / Canadian Organization of Medical Physicists (COMP) / Canadian Association of Medical Radiation Technologists (CAMRT), Montréal, Quebec, September 12-15, 2018, poster presentation.
65. A. Chatterjee^{†*}, *Robust predictive radiomic models for data from independent institutions*, Radiomics 2018, Clearwater, Florida, October 15-16, 2018.
66. H. Patrick^{†*}, K. Agnew, L. Souhami, F. Cury, S. Faria, T. Niazi, J. Kildea, *The impact of rectal filling on dose during hypofractionated radiotherapy of the prostate*, Rossy Cancer Network Annual Retreat, Montréal, Quebec, November 19, 2018.