

APPENDIX X

PUBLISHED ABSTRACTS

by members of the Medical Physics Unit : 2014 calendar year (x 27)
(names of MPU staff members are underlined, students are indicated by †)

1. M.E. Lafaille-Magnan, D.L. Collins, V. Fonov, D. Fontaine, P. Etienne, J. Poirier, J. Breitner, *Association of olfactory performance and hippocampal volume in persons at risk of alzheimer's dementia*, *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, **10**(4), P85-P86 (2014).
2. A. Zandifar, V. Fonov, P. Coupé, J.C. Pruessner, D.L. Collins, *A unified assessment of fully automated hippocampus segmentation methods*, *Alzheimer's Association International Conference on Alzheimer's Disease, AAIC, Copenhagen, Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, **10**(4), P86 (2014).
3. I.J. Gerard, J.A. Hall, K. Mok, D.L. Collins, *Repeated landmark use for patient-to-image registration reduces fiducial registration error in patient-to-image mapping in image guided neurosurgery*, *Med. Phys.* **41**(8), pp. 4-4). Ste 1 No 1, 2 Huntington Quadrangle, Melville, Ny 11747-4502 USA: Amer Assoc Physicists Medicine Amer Inst Physics (2014).
4. N. Faridi, S. Karama, M. Burgalet, M. White, A.C. Evans, V. Fonov, D.L. Collins, D.P. Waber, *Neuroanatomical correlates of behavioral rating versus performance measures of working memory in typically developing children and adolescents: Performance vs behavioural rating measures*, *Journal Of Neuropsychiatry And Clinical Neurosciences* **26**(2), pp. 2-2). 1000 Wilson Boulevard, Ste 1825, Arlington, Va 22209-3901 USA: Amer Psychiatric Publishing, Inc.
5. R. Maglieri†, L. Liang, M. Evans, A. Licea, J. Dubeau, S. Witharana, F. DeBlois, J. Seuntjens, J. Kildea, *Neutron measurements around the Varian TrueBeam linac*, *Med. Phys.* **41**(6), 393 (2014).
6. C. Quintero†, N. Tomic, F. DeBlois, J. Seuntjens, S. Devic, *Clinical implementation of radiochromic film based CTDI measurements*, *Med. Phys.* **41**(6), 405 (2014). <http://dx.doi.org/10.1118/1.4889095> (2014).
7. D. Guillet†, A. Syme, F. DeBlois, *Use of the Microsoft Kinect for applications of patient surface data to radiotherapy*, *Med. Phys.* **41**(8), 3 (2014).
8. C. Quintero†, N. Tomic, H. Bekerat, F. DeBlois, J. Seuntjens, S. Devic, *CTDI measurements using a radiochromic film-based clinical protocol*, *Med. Phys.* **41**(8), 10-11 (2014).
9. J. Mullins†, K. Asiev, F. DeBlois, M. Morcos, J. Seuntjens, A. Syme, *Enabling trajectory-based radiotherapy on a TrueBeam accelerator with the Eclipse treatment planning system*, *Med. Phys.* **41**(8), 12 (2014).
10. K. Asiev, J. Mullins†, F. DeBlois, L. Liang, A. Syme, *An automated XML technique for isocentre verification on the Varian TrueBeam*, *Med. Phys.* **41**(8), 18 (2014).
11. K. O'Grady†, S.D. Davis, P. Papaconstadopoulos†, J. Seuntjens, *Off-axis dose perturbation effects in water in a $5 \times 5 \text{ cm}^2$ 18 MV photon beam for the PTW microLion and Exradin AISL ionization chambers*, *Med. Phys.* **41**, 11 (2014).
12. D. Han, M. Webster, D. Scanderbeg, C. Yahsar, D. Choi, B. Song, S. Devic, A. Ravi, W. Song, *Direction modulated brachytherapy for HDR treatment of cervical cancer*, *Med. Phys.* **41**, 90 (2014). <http://dx.doi.org/10.1118/1.4889695>
13. T. Connell, A. Alexander, P. Papaconstadopoulos†, M. Serban, S. Devic, J. Seuntjens, *Automated delivery and quality assurance of a modulated electron radiation therapy plan*, *Med. Phys.* **41**, 5 (2014).
14. G. Aldosary, A. Nobah, F. Al-Zorkani, S. Devic, B. Mofteh, *The influence of a modeled treatment couch on dose distributions during IMRT and RapidArc treatment delivery*, *Med. Phys.* **41**, 13 (2014).
15. M. Morcos, S. Devic, *Novel technique for the measurement of ultra-superficial doses using Gafchromic film*, *Med. Phys.* **41**, 17-18 (2014).
16. K. Weier, V. Fonov, B. Aubert-Broche, D. Arnold, Banwell, B., & D.L. Collins, *Evidence of impaired age-expected growth and atrophy of the cerebellum in pediatric patients with monophasic acquired demyelinating syndrome and multiple sclerosis*, *Neurology* **82**(10), S60-001 (2014).
17. S. Grover, A. Sye, B. Aubert-Broche, B. Banwell, D.L. Collins, E.A. Yeh, *Downward educational trajectory is seen in children and young adults after diagnosis of pediatric MS*, *Neurology* **82**(10), P2-235 (2014).

18. N. Faridi, S. Karama, M. Burgaleta, A.C. Evans, V. Fonov, D.L. Collins, D.P. Waber, Neuroanatomical Correlates of Working Memory in Children and Adolescents: Performance versus Behavioral Rating Measures. In *Journal Of Neuropsychiatry And Clinical Neurosciences* (Vol. 26, No. 2, pp. 2-2). 1000 Wilson Boulevard, Ste 1825, Arlington, Va 22209-3901 USA: Amer Psychiatric Publishing, Inc.
19. F.L. Cury, N. Patel, F. Brimo, N. Dufour, C. Hudon, R. Bera, T. Cabrera, H. Patrocinio, *Renal tolerance to stereotactic body radiation therapy: An assessment of volume and anatomical site irradiated*, *Int. J. Radiat. Oncol. Biol. Phys.* **90**(1) Supplement, S468 (2014).
20. M. Pruessner, M. Lepage, D.L. Collins, R. Joober, J.C. Pruessner, A.K. Malla, *Reduced hippocampal volume in male but not female patients with first episode psychosis: Relationship to cortisol levels and symptoms*, *Schizophrenia Research* **153**(1), 63 (2014).
21. I.R. Levesque, M. Saranathan, T. Tourdias, J. Su, J.A. Rioux, B.K. Rutt, *Robust B1-insensitive whole-brain T1 mapping with 3-T1 MP-RAGE: Validation and acquisition strategy*, Joint Meeting of the ISMRM-ESMRMB, Milan, Italy, p.3213, May 10-14, 2014.
22. J.A. Rioux, M. Saranathan, I.R. Levesque, B.K. Rutt, *10-minute high-resolution whole-brain T1 mapping: A comparison of three candidate methods*, Joint Meeting of the ISMRM-ESMRMB, Milan, Italy, p.4320 May 10-14, 2014.
23. T. Tourdias, M. Saranathan, I.R. Levesque, J. Su, B.K. Rutt, *Visualization of intra-thalamic anatomy with white-matter-nulled MPRAGE at 7T*, Joint Meeting of the ISMRM-ESMRMB, Milan, Italy, p.4629, May 10-14, 2014.
24. D. Markel†, I.R. Levesque, I. El Naqa, *A 4D multimodal lung phantom for regmentation evaluation*, 60th Annual Scientific Meeting of the Canadian Organization of Medical Physicists, Banff, Alberta, July 09-12, 2014.
25. S. Laberge, M. Vallières, I.R. Levesque, I. El Naqa, *STAMP: Simulator for texture analysis in MR/PET*, 56th Annual Meeting of the American Association of Physicists in Medicine, Austin, Texas, July 20-24, 2014.
26. D. Markel†, I.R. Levesque, I. El Naqa, *A 4D lung phantom for coupled registration/segmentation evaluation*, 56th Annual Meeting of the American Association of Physicists in Medicine, Austin, Texas, July 20-24, 2014.
27. M. Vallières, S. Laberge, I.R. Levesque, I. El Naqa, *Enhancement of texture-based metastasis prediction models via the optimization of PET/MR imaging acquisition protocols*. 56th Annual Meeting of the American Association of Physicists in Medicine, Austin, Texas, July 20-24, 2014.