

APPENDIX XIII.

PUBLICATIONS

by members of the Medical Physics Unit : 2008 calendar year
(names of MPU staff members are underlined, students are indicated by †)

1. T. Al Mahmoud, M. Mansour, J. Deschênes, C. Edelstein, M. Burnier, M. Marcil, G. Shenouda, C. Corriveau, M.D.C. Evans, *Intra-operative echographic localization for radioactive ophthalmic plaques in choroidal melanoma*, Ann. N.Y. Acad. Sci. **1138**, 10-14 (2008).
2. T. Al Mahmoud, M. Mansour, J. Deschênes, C. Edelstein, M. Burnier, M. Marcil, G. Shenouda, C. Corriveau, M.D.C. Evans, *Iodine-125 Radiotherapy for Choroidal Melanoma*, Ann. N.Y. Acad. Sci. **1138**, 15-18 (2008).
3. E.P. Reynard†, M.D.C. Evans, S. Devic, W. Parker, C.R. Freeman, D. Roberge, E.B. Podgorsak, *Rotational total skin electron irradiation with a linear accelerator*, J. Appl. Clin. Med. Phys. **9**(4), 2793 (2008).
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5. H. Patone, L. Souhami, W. Parker, M.D.C. Evans, M. Duclos, L. Portelance, *A dosimetric comparison of two high-dose-rate brachytherapy planning systems in cervix cancer: Standardized template planning vs computerized treatment planning*, Brachytherapy **7**(3), 254-259 (2008).
6. R. Toro, M. Perron, G.B. Pike, L. Richer, S. Veillette, Z. Pausova, T. Paus, *Brain size and folding of the human cerebral cortex*, Cerebral Cortex, Epub ahead of print, (February 10, 2008).
7. S. Appenzeller, G.B. Pike, A.E. Clarke, *Magnetic resonance imaging in the evaluation of central nervous system manifestations in systematic lupus erythematosus*, Clin. Rev. Allergy Immunol. **34**(3), 361-366 (2008).
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9. E. Yorke, P. Keall, F. Verhaegen, *Role of medical physicists and the AAPM in improving geometric aspects of treatment accuracy and precision*, Med. Phys. **35**, 828-39 (2008) (invited review-50th anniversary issue).
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11. E. Sham, J. Seuntjens, S. Devic, E.B. Podgorsak, *Influence of focal spot on characteristics of very small diameter radiosurgical beams*, Med. Phys. **35**, 3317-3330 (2008).
12. W. Butler, W. Bice, L. DeWerd, J. Hevezi, M. Saiful Huq, G. Ibbott, J. Palta, J. Seuntjens, B. Thomadsen, *Third-party brachytherapy source calibrations and physicist responsibilities: Report of the AAPM Low Energy Brachytherapy Source Calibration Working Group*, Med Phys. **35**, 3860 (2008).
13. R. Alfonso, P. Andreo, R. Capote, M. Saiful Huq, W. Kilby, P. Kjäll, T. Mackie, K. Rosser, J. Seuntjens, W. Ullrich, S. Vatnitsky, *A new formalism for reference dosimetry of small and nonstandard fields*, Med. Phys. **35**, 5179-5186 (2008).
14. T. Paus, I. Nawazkhan, G. Leonard, M. Perron, G.B. Pike, L. Richer, S. Beillette, Z. Pausova, *Corpus callosum in adolescent offspring exposed prenatally to maternal cigarette smoking*, NeuroImage **40**, 435-441 (2008).

15. S. Mori, K. Oishi, H. Jiang, L. Jiang, X. Li, K. Akhter, K. Hua, A. Faria, A. Mohmood, R. Woods, A. Toga, G.B. Pike, P. Neto, A. Evans, J. Zhang, H. Huang, M. Miller, P. van Zijl, J. Mazziotta, *Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template*, NeuroImage **40**, 570-582 (2008).
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18. R. Toro, G. Leonard, J. Lerner, R.M. Lerner, M. Perron, G.B. Pike, L. Richer, S. Veillette, Z. Pausova, T. Paus, *Prenatal exposure to maternal cigarette smoking and the adolescent brain*, Neuropsychopharmacology **33**(5) 1019-1027 (2008).
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24. D. Liu, E. Poon†, M. Bazalova†, B. Reniers, M.D.C. Evans, T. Rusch, F. Verhaegen, *Spectroscopic characterization of a novel electronic brachytherapy system*, Phys. Med. Biol. **53**, 61-75 (2008).
25. E. Chin, D. Shipley, D. Bailey, J. Seuntjens, H. Palmans, A. DuSautoy, F. Verhaegen, *Validation of a Monte Carlo model of a NACP-02 plane-parallel ionization chamber model using electron backscatter experiments*, Phys. Med. Biol. **53**, N119-26 (2008).
26. M. Bazalova†, J-F Carrier, L. Beaulieu, F. Verhaegen, *Dual-energy CT-based material extraction for tissue segmentation in Monte Carlo dose calculations*, Phys. Med. Biol. **53**, 2439-56 (2008).
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28. S.L. Faria, S. Menard, S. Devic, S. Sirois, L. Souhami, R. Lisbona, C.R. Freeman, *Impact of FDG-PET/CT on radiotherapy volume delineation in non-small-cell lung cancer and correlation of imaging stage with pathologic findings*, Int. J. Radiat. Oncol. Biol. Phys. **70**, 1035-1038 (2008).
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33. W. Parker, M.D.C. Evans, R. Ruo, H. Patrocínio, *IGRT QA for helical tomotherapy*, Proc. Annual Meeting of the Canadian Organization of Medical Physicists (COMP), Quebec, Quebec, June 26-28, 2008, pp. 93-95.
34. A. Sarfehnia†, J. Seuntjens, *A novel HDR Ir-192 brachytherapy water calorimeter standard*, Proc. 54th Annual Scientific Meeting of the Canadian Organization of Medical Physicists, Quebec, Quebec, June 26-28, 2008, pp. 262-264.
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