

15. Kawrakow I and Rogers DW. The EGSnrc code system: Monte Carlo simulation of electron and photon transport. NRCC Report PIPRS-701. Ottawa, ON: National Research Council of Canada; 2000.
16. Ishihara Y, Sawada A, Nakamura M, et al. Development of Monte Carlo dose verification system for MHI-TM2000 [abstract]. *Med Phys.* 2010;37(6):S3284.
17. Kawrakow I and Walters BRB. Efficient photon beam dose calculations using DOSXYZnrc with BEAMnrc. *Med Phys.* 2006;33(8):3046–56.
18. Ma CM, Mok E, Kapur A, et al. Clinical implementation of a Monte Carlo treatment planning system. *Med Phys.* 1999;26(10):2133–43.
19. Fisher B, Hajdok G, Gaede S, Mulligan M, Battista JJ. Forcing lateral electron disequilibrium to spare lung tissue: a novel technique for stereotactic body radiation therapy of lung cancer. *Phys Med Biol.* 2013;58(19):6641–62.
20. Sampson A, Le Y, Williamson JF. Fast patient-specific Monte Carlo brachytherapy dose calculations via the correlated sampling variance reduction technique. *Med Phys.* 2012;39(2):1058–68.
21. Fujisaki T, Kikuchi K, Saito H, et al. Effects of density changes in the chest on lung stereotactic radiotherapy. *Radiat Med.* 2004;22(4):233–38.
22. ICRU Report 50. Prescribing, recording and reporting photon beam therapy. Bethesda, MD: ICRU; 1993.
23. Ng JA, Booth JT, Poulsen PR, et al. Kilovoltage intrafraction monitoring for prostate intensity modulated arc therapy: first clinical results. *Int J Radiat Oncol Biol Phys.* 2012;84(5):655–61.
24. Hong JC, Eclov NC, Yu Y, et al. Migration of implanted markers for image-guided lung tumor stereotactic ablative radiotherapy. *J Appl Clin Med Phys.* 2013;14(2):77–89.
25. Depuydt T, Poels K, Verellen D, et al. Initial assessment of tumor tracking with a gimbaled linac system in clinical circumstances: a patient simulation study. *Radiother Oncol.* 2013;106(2):236–40.

本報告書は、厚生労働省の厚生労働科学研究委託事業(革新的がん医療実用化研究事業)による委託業務として、国立大学法人京都大学が実施した平成26年度「難治がんに対する動体追尾放射線治療の臨床評価に関する研究」の成果を取りまとめたものです。

