

***李宗其助理教授**

所有發表期刊論文

1. **Lee CC**, Wu JF, Chang KP, Chu CH, Wey SP, Liu HL, Tung CJ, Wu SW, Chao TC, "The Use of Normoxic Polymer Gel for Measuring Dose Distributions of 1, 4 and 30 mm Cones", Radiation Physics and Chemistry, 104(11), 221-224, 2014 (SCI)
2. Yeh CY, Tung CJ, **Lee CC**, Lin MH, Chao TC, "Measurement-based Monte Carlo Simulation of High Definition Dose Evaluation for Nasopharyngeal Cancer Patients Treated by using Intensity Modulated Radiation Therapy", Radiation Measurements, 71(5), 333-337, 2014 (SCI)
3. Yeh CY, Tung CJ, Chao TC, Lin MH, **Lee CC***, "A dual resolution measurement based Monte Carlo simulation technique for detailed dose analysis of small volume organs in the skull base region", Radiation Physics and Chemistry, 104(11), 389-392, 2014 (SCI)
4. Yeh CY, **Lee CC**, Chao TC, Lin MH, Lai PA, Liu FH, Tung CJ, " Application of the measurement-based Monte Carlo method in nasopharyngeal cancer patients for intensity modulated radiation therapy". Radiation Physics and Chemistry, 95(2), 240-242, 2014 (SCI)
5. **Lee CC**, Lee YJ, Tung CJ, Cheng HW, Chao TC , "MCNPX Simulation of Proton Dose Distribution in Homogeneous and CT Phantoms", Radiation Physics and Chemistry, 95(2), 302-304, 2014 (SCI)
6. Lin YC, Wang JJ, Hong JH, Lin YP, **Lee CC**, Wai YY, Ng SH, Wu YM, Wang CC, "Noninvasive Monitoring of Microvascular Changes with Partial Irradiation Using Dynamic Contrast-Enhanced and Blood Oxygen Level-Dependent MRI", Int. J. Radiation Oncology Biol. Phys., 85(5), 1367-1374, 2013 (SCI)
7. Lin MH, Li J, Price RA, Wang L, **Lee CC**, Ma CM, "The dosimetric impact of dental implants on head-and-neck volumetric modulated arc therapy", Physics in Medicine and Biology, 58(1), 1027-1040, 2013 (SCI)
8. Tsai PF, Lin SM, Lee SH, Yeh CY, Huang YT, **Lee CC**, Hong JH, "The feasibility study of using multiple partial volumetric-modulated arcs therapy in early stage left-sided breast cancer patients", Journal of Applied Clinical Medical Physics, 13(5), 62-73, 2012 (SCI)
9. Wang CC, Hsiao Y, **Lee CC**, Chao TC, Wang CC & Tung CJ, "Monte Carlo simulations of therapeutic proton beams for relative biological effectiveness of double strand break", International Journal of Radiation Biology, 88(1), 158-163, 2012 (SCI)
10. **Lee CC**, Chen AM, Tung CJ, Chao TC, "Monte Carlo simulation of small field

- electron beams for small animal irradiation", Radiation Measurements, 46(12), 2003-2005, 2011 (SCI)
11. Yu PC, Chao TC, Tung CJ, Wu CJ, **Lee CC***, "Dose assessment for brachytherapy with Henschke applicator", Radiation Measurements, 46(12), 2028-2030, 2011 (SCI)
 12. Wu SW, Chao TC, Tung CJ, Lin MH, **Lee CC***, "MLC mediated beam hardening effects in IMRT", Radiation Measurements, 46(12), 1989-1992, 2011 (SCI)
 13. Chao TC, Yu PC, **Lee CC**, Wu CJ, Tung CJ, " In vivo dosimetry with asymmetry and heterogeneity correction", Radiation Measurements, 46(12), 1956-1959, 2011 (SCI)
 14. Cheng HW, Ho CJ, **Lee CC**, Tu SJ, Shih BY, Chao TC, "Development of a novel optical CT employing a laser to create a collimated line-source with a flat-top intensity distribution", Radiation Measurements, 46(12), 1932-1935, 2011 (SCI)
 15. Chu WH, Lan JH, Chao TC, **Lee CC**, Tung CJ, "Neutron Spectrometry and Dosimetry Around 15 MV Linac", Radiation Measurements, 46(12), 1741-1744, 2011 (SCI)
 16. Chen FH, Chiang CS, Wang CC, Fu SY, Tsai CS, Jung SM, Wen CJ, **Lee CC**, Hong JH, "Vasculatures in Tumors Growing from Preirradiated Tissues: Formed by Vasculogenesis and Resistant to Radiation and Antiangiogenic Therapy", Int. J. Radiation Oncology Biol. Phys., 80(5), 1512-1521, 2011 (SCI)
 17. Chao TC, Yu PC, Hsu FY, Hsiao Y, **Lee CC** and Tung CJ, "Cellular Dosimetry and Microdosimetry for Internal Electron Emitters", Radiation Protection Dosimetry, 143(2-4), 248-252, 2011 (SCI)
 18. Tung CJ, Yu PC, Chiu MC, Yeh CY, **Lee CC**, Chao TC, "Midline Dose Verification with Diode in vivo Dosimetry for External Photon Therapy of Head and Neck and Pelvis Cancers during Initial Large-Field Treatments", Medical Dosimetry, 35(4), 304-311, 2010 (SCI)
 19. Yu PC, Chao TC, **Lee CC**, Wu CJ, Tung CJ, "A Monte Carlo dosimetry study using Henschke applicator for cervical brachytherapy", Nuclear Instruments and Methods in Physics Research A, 619(1-3), 411-414, 2010 (SCI)
 20. Lin MH, Chao TC, **Lee CC**, Chang TC, Tung CJ, "Tissue classifications in Monte Carlo simulations of patient dose for photon beam tumor treatments", Nuclear Instruments and Methods in Physics Research A, 619, 393-396, 2010 (SCI)
 21. Chao TC, Chen AM, Tua SJ, Tung CJ, Hong JH and **Lee CC***, "Evaluation of 6 and 18 MeV Electron Beams for Small Animal Irradiation", Physics in Medicine and Biology, 54(19), 5847-5860, 2009 (SCI)

22. Lin MH, Chao TC, **Lee CC***, Tung CJ, Yeh CY, Hong JH, "Measurement-based Monte Carlo dose calculation system for IMRT pretreatment and on-line transit dose verifications", *Medical Physics*, 36(4), 1167-1175, 2009 (SCI)
23. Liu CS, Tung CJ, Hua YH, Chou CM, Chao TC, **Lee CC**, "Calculations of specific cellular doses for low-energy electrons", *Nuclear Instruments and Methods in Physics Research B*, 267, 1823–1829, 2009 (SCI)
24. Chen FH, Chiang CS, Wang CC, Tsai CS, Jung SM, **Lee CC**, McBride WH and Hong JH, "Radiotherapy Decreases Vascular Density and Causes Hypoxia with Macrophage Aggregation in TRAMP-C1 Prostate Tumors", *Clin. Cancer Res.*, 15(5), 1721-1729, 2009 (SCI)
25. Kron T, Cheung KY, Dai J, Ravindran P, Soejoko D, Inamura K, Song JY, Bold L, Srivastava R, Rodriguez L, Wong TJ, Kumara A, **Lee CC**, Krisanachinda A, Nguyen XC, Ng KH, "Medical physics aspects of cancer care in the Asia Pacific region", *Biomedical Imaging and Intervention Journal*, 4(3), e33, 2008
26. Tung CJ, Wang LC, Wang HC, **Lee CC** and Chao TC, "In vivo dose verification for photon treatments of head and neck carcinomas using MOSFET dosimeters", *Radiation Measurements*, 43, 870-874, 2008 (SCI)
27. Chen YC, Chuang CK, Hsieh ML, Chen WC, Fan KH, Yeh CY, **Lee CC**, Hong JH, "High-dose-rate brachytherapy plus external beam radiotherapy for T1 to T3 prostate cancer: An experience in Taiwan", *Urology*, 70(1), 101-105, 2007 (SCI)
28. Tsai CS, Chen FH, Wang CC, Huang HL, Jung SM, Wu CJ, **Lee CC**, McBride WH, Chiang CS and Hong JH, "Macrophages from irradiated tumors express higher levels of iNOS, arginase-I and COX-2 and promote tumor growth", *Int. J. Radiation Oncology Biol. Phys.*, 68(2), 499–507, 2007 (SCI)
29. Chiang CS, Liu WC, Jung SM, Chen FH, Wu CR, McBride WH, **Lee CC**, Hong JH, "Compartmental responses after thoracic irradiation of mice: strain differences", *Int. J. Radiation Oncology Biol. Phys.*, 62(3), 862–871, 2005 (SCI)
30. Hong JH, Tsai CS, Lai CH, Chang TC, Wang CC, Chou HH, Lee SP, **Lee CC**, Tang SG, "Risk stratification of patients with advanced squamous cell carcinoma of cervix treated by radiation alone", *Int. J. Radiation Oncology Biol. Phys.*, 62(2), 492-499, 2005 (SCI)
31. Sheu RD, Chen CC, Yeh CY, **Lee CC**, Chui CS, Chang BJ, "The simplified Monte Carlo simulation on IMRT", *Therapeutic Radiology and Oncology*, 12 (1), 47-58, 2005
32. Fan PH, **Lee CC**, Hsu CH, "An automatic esophageal boundary extraction algorithm in radiation therapy", *Therapeutic Radiology and Oncology*, 11 (1),

43-53, 2004.

33. Shiau CY, Chen PH, Huang KW, **Lee CC**, "Optimization of 3D wedged-pair radiation therapy planning: geometrical alignment of wedge orientation", *Therapeutic Radiology and Oncology*, 10 (3), 141-150, 2003.
34. Chang BJ, **Lee CC**, Sheu RD, Yeh CY, Chen CC, and Chui CS, "The Monte Carlo simulation on the dose disturbance effect of embedded high-density metal material", *Therapeutic Radiology and Oncology*, 10 (2), 79-88, 2003.
35. Kuo LC, **Lee CC***, Chen CC, Hsu SH, "Numerical monitoring of therapeutic electron energy loss in homogeneous media", *Therapeutic Radiology and Oncology*, 7 (2), 89-97, 2000.
36. Chen IJ, Liu YM, **Lee CC**, Sheu RD, Chang BJ, Chao LS, Yen SH, "The calculation of 3-D dose distribution around the shielded cylindrical applicator set with Iridium-192 source and the development of the prototype of the treatment planning system by using Monte Carlo code EGS4", *Therapeutic Radiology and Oncology*, 7 (2), 99-107, 2000.
37. Lo CJ, Chiang TC, Chen HC, Liaw MH, Wu JK, Kao HJ, Lee CC, Lee YL, Yeh CY, Wu JM, **Lee CC**, Lin JP, Huang D. YC, "A protocol of quality assurance for radiotherapy machine", *Therapeutic Radiology and Oncology*, Suppl., 1-18, 2000.
38. Chen CC, **Lee CC**, CY Shiau, SH Jiang, "A simulation study on the dose distribution for a single beam of the Gamma Knife", *Journal of Nuclear Science and Technology*, Supplement 1, 397-401, March 2000 (SCI)
39. Chen CC, Shiau CY, Jiang SH, and **Lee CC***, "A simulation study on dose distribution for single beam of Gamma Knife", *Therapeutic Radiology and Oncology*, 6(2), 97-104, 1999.
40. Chen WC, Her JW, Yeh JY, Hung CS, Hung SS, Lin YC, Tsang NM, Leung WM, Tang SG, Hong JH, Tan R, **Lee CC***, "Study of treatment variation in the radiotherapy of pelvic tumors using a new custom-made immobilization cast and on-line electronic portal imaging", *Therapeutic Radiology and Oncology*, 5(4), 293-302, 1998.
41. Sandison GA, **Lee CC**, Lu X, and Papiez LS, "Extension of a numerical algorithm to proton dose calculation I: Comparison with Monte Carlo simulations", *Medical Physics* 24 (6), 841-849, 1997 (SCI).
42. Lu MT, Yeh CY, Lin JP, Huang SS, **Lee CC**, Liu YM, Chen KY, "Estimation of complication probability for non-uniform normal tissue irradiation using the effective volume method and normal distribution", *Therapeutic Radiology and Oncology*, 4(1), 39-43, 1997.
43. **Lee CC**, Sandison GA, Lu X, "Dose Calculation algorithm for proton beam

radiotherapy at the Indiana University Cyclotron Facility (IUCF)",
Therapeutic Radiology and Oncology, 3(4), 221-228, 1996.

44. Chen KY, Chao MM, Yen SH, **Lee CC**, Ngo FQH, "Planning of a hospital-based proton therapy facility-I. synchrotron", Therapeutic Radiology and Oncology, 3(4), 257-264, 1996.
45. **李宗其** 陳光耀, "硼捉中子放射治療劑量的決定 核研季刊", 第二十期 37-40, 1996.