

TomoTherapy Bibliography of Peer-reviewed Journal Articles
January 1, 2012

2011 (687 total as of 1/1/12)

1. Zhou GX, Xu SP, Dai XK, *et al.* Clinical dosimetric study of three radiotherapy techniques for postoperative breast cancer: Helical Tomotherapy, IMRT, and 3D-CRT. *Technol Cancer Res Treat* 2011;10:15-23.
2. Zeverino M, Agostinelli S, Pupillo F, *et al.* Determination of the correction factors for different ionization chambers used for the calibration of the helical tomotherapy static beam. *Radiother Oncol* 2011;100:424-428.
3. Yu CX, Tang G. Intensity-modulated arc therapy: principles, technologies and clinical implementation. *Phys Med Biol* 2011;56:R31-54.
4. You SH, Kim SY, Lee CG, *et al.* Is There a Clinical Benefit to Adaptive Planning During Tomotherapy in Patients with Head and Neck Cancer at Risk for Xerostomia? *Am J Clin Oncol* 2011.
5. Yoon M, Shin DH, Kim J, *et al.* Craniospinal irradiation techniques: a dosimetric comparison of proton beams with standard and advanced photon radiotherapy. *Int J Radiat Oncol Biol Phys* 2011;81:637-646.
6. Yeung TP, Yartsev S, Rodrigues G, *et al.* Evaluation of image-guidance strategies with helical tomotherapy for localised prostate cancer. *J Med Imaging Radiat Oncol* 2011;55:220-228.
7. Yartsev S, Yu E. Comment on "the clinical features and pathophysiology of acute radiation dermatitis in patients receiving tomotherapy". *Ann Dermatol* 2011;23 Suppl 1:S139-140.
8. Yang W, Jones R, Read P, *et al.* Standardized evaluation of simultaneous integrated boost plans on volumetric modulated arc therapy. *Phys Med Biol* 2011;56:327-339.
9. Yang W, Jones R, Lu W, *et al.* Feasibility of non-coplanar tomotherapy for lung cancer stereotactic body radiation therapy. *Technol Cancer Res Treat* 2011;10:307-315.
10. Yadav P, Kozak K, Tolakanahalli R, *et al.* Adaptive planning using megavoltage fan-beam CT for radiation therapy with testicular shielding. *Med Dosim* 2011.
11. Wu WC, Mui WL. A case report on the effect of fan beam thickness in helical tomotherapy of nasopharyngeal carcinoma. *Med Dosim* 2011;36:57-61.
12. Wong JH, Hardcastle N, Tome WA, *et al.* Independent quality assurance of a helical tomotherapy machine using the dose magnifying glass. *Med Phys* 2011;38:2256-2264.
13. Wiezorek T, Brachwitz T, Georg D, *et al.* Rotational IMRT techniques compared to fixed gantry IMRT and tomotherapy: multi-institutional planning study for head-and-neck cases. *Radiat Oncol* 2011;6:20.
14. Widesott L, Pierelli A, Fiorino C, *et al.* Helical tomotherapy vs. intensity-modulated proton therapy for whole pelvis irradiation in high-risk prostate cancer patients: dosimetric, normal tissue complication probability, and generalized equivalent uniform dose analysis. *Int J Radiat Oncol Biol Phys* 2011;80:1589-1600.
15. Watanabe Y, Gopishankar N. Three-dimensional dosimetry of TomoTherapy by MRI-based polymer gel technique. *J Appl Clin Med Phys* 2011;12:3273.
16. Vogelius IS, Westerly DC, Cannon GM, *et al.* Intensity-modulated radiotherapy might increase pneumonitis risk relative to three-dimensional conformal radiotherapy in patients receiving combined chemotherapy and radiotherapy: a modeling study of dose dumping. *Int J Radiat Oncol Biol Phys* 2011;80:893-899.

17. Vogelius IR, Westerly DC, Aznar MC, *et al.* Estimated radiation pneumonitis risk after photon versus proton therapy alone or combined with chemotherapy for lung cancer. *Acta Oncol* 2011;50:772-776.
18. Upasani M, Chopra S, Engineer R, *et al.* Inter and intraobserver variation in gross tumor delineation on megavoltage CT images in patients undergoing tomotherapy-based image-guided radiotherapy for postoperative vault recurrences. *J Cancer Res Ther* 2011;7:292-297.
19. Uhl M, Sterzing F, Habl G, *et al.* CT-myelography for high-dose irradiation of spinal and paraspinal tumors with helical tomotherapy: revival of an old tool. *Strahlenther Onkol* 2011;187:416-420.
20. Tsai CL, Wu JK, Chao HL, *et al.* Treatment and dosimetric advantages between VMAT, IMRT, and helical tomotherapy in prostate cancer. *Med Dosim* 2011;36:264-271.
21. Townsend NC, Huth BJ, Ding W, *et al.* Acute toxicity after cyberknife-delivered hypofractionated radiotherapy for treatment of prostate cancer. *Am J Clin Oncol* 2011;34:6-10.
22. Tonoli S, Vitali P, Scotti V, *et al.* Adjuvant radiotherapy after extrapleural pneumonectomy for mesothelioma. Prospective analysis of a multi-institutional series. *Radiother Oncol* 2011;101:311-315.
23. Tome WA, Bender ET, Gondi V, *et al.* In response to "The distribution of brain metastases in the perihippocampal region (regarding Gondi et al., *Radiother. Oncol.* 2010; 95: 327-331) by van Kesteren et al. *Radiother Oncol* 2011;98:284.
24. Tarnawski R, Michalecki L, Blamek S, *et al.* Feasibility of reducing the irradiation dose in regions of active neurogenesis for prophylactic cranial irradiation in patients with small-cell lung cancer. *Neoplasma* 2011;58:507-515.
25. Sylvestre A, Mahe MA, Lisbona A, *et al.* Mesothelioma at era of helical tomotherapy: results of two institutions in combining chemotherapy, surgery and radiotherapy. *Lung Cancer* 2011;74:486-491.
26. Sugie C, Shibamoto Y, Ayakawa S, *et al.* Craniospinal irradiation using helical tomotherapy: evaluation of acute toxicity and dose distribution. *Technol Cancer Res Treat* 2011;10:187-195.
27. Strydhorst JH, Caudrelier JM, Clark BG, *et al.* Evaluation of a thermoplastic immobilization system for breast and chest wall radiation therapy. *Med Dosim* 2011;36:81-84.
28. Stoiber EM, Giske K, Schubert K, *et al.* Local setup reproducibility of the spinal column when using intensity-modulated radiation therapy for craniospinal irradiation with patient in supine position. *Int J Radiat Oncol Biol Phys* 2011;81:1552-1559.
29. Stieler F, Wolff D, Schmid H, *et al.* A comparison of several modulated radiotherapy techniques for head and neck cancer and dosimetric validation of VMAT. *Radiother Oncol* 2011;101:388-393.
30. Sterpin E, Chen Y, Lu W, *et al.* On the relationships between electron spot size, focal spot size, and virtual source position in Monte Carlo simulations. *Med Phys* 2011;38:1579-1586.
31. Sterpin E, Chen Y, Chen Q, *et al.* Monte Carlo-based simulation of dynamic jaws tomotherapy. *Med Phys* 2011;38:5230-5238.
32. Song JY, Ahn SJ. Effect of image value-to-density table (IVDT) on the accuracy of delivery quality assurance (DQA) process in helical tomotherapy. *Med Dosim* 2011.
33. Son SH, Kang YN, Ryu MR. The effect of metallic implants on radiation therapy in spinal tumor patients with metallic spinal implants. *Med Dosim* 2011.
34. Somlo G, Spielberger R, Frankel P, *et al.* Total marrow irradiation: a new ablative regimen as part of tandem autologous stem cell transplantation for patients with multiple myeloma. *Clin Cancer Res* 2011;17:174-182.

35. Soisson ET, Mehta MP, Tome WA. A comparison of helical tomotherapy to circular collimator-based linear-accelerator radiosurgery for the treatment of brain metastases. *Am J Clin Oncol* 2011;34:388-394.
36. Soisson ET, Hoban PW, Kammeyer T, et al. A technique for stereotactic radiosurgery treatment planning with helical tomotherapy. *Med Dosim* 2011;36:46-56.
37. Snir JA, Mosalaei H, Jordan K, et al. Surface dose measurement for helical tomotherapy. *Med Phys* 2011;38:3104-3107.
38. Shueng PW, Shen BJ, Wu LJ, et al. Concurrent image-guided intensity modulated radiotherapy and chemotherapy following neoadjuvant chemotherapy for locally advanced nasopharyngeal carcinoma. *Radiat Oncol* 2011;6:95.
39. Shimizu H, Tachibana H, Kubota T, et al. Investigation for Decrease of Delivery Time for the Prostate Cancer Patient by Modifications of Treatment Planning Parameters in Tomotherapy Planning Station. *Nihon Hoshasen Gijutsu Gakkai Zasshi* 2011;67:1548-1558.
40. Sharma M, Dos Santos T, Papanikolopoulos NP, et al. Feasibility of intrafraction whole-body motion tracking for total marrow irradiation. *J Biomed Opt* 2011;16:058002.
41. Scorsetti M, Mancosu P, Navarria P, et al. Stereotactic body radiation therapy (SBRT) for adrenal metastases : a feasibility study of advanced techniques with modulated photons and protons. *Strahlenther Onkol* 2011;187:238-244.
42. Schwarz M, Pierelli A, Fiorino C, et al. Helical tomotherapy and intensity modulated proton therapy in the treatment of early stage prostate cancer: a treatment planning comparison. *Radiother Oncol* 2011;98:74-80.
43. Schwarz JK, Wahab S, Grigsby PW. Prospective phase I-II trial of helical tomotherapy with or without chemotherapy for postoperative cervical cancer patients. *Int J Radiat Oncol Biol Phys* 2011;81:1258-1263.
44. Schubert LK, Gondi V, Sengbusch E, et al. Dosimetric comparison of left-sided whole breast irradiation with 3DCRT, forward-planned IMRT, inverse-planned IMRT, helical tomotherapy, and tophototherapy. *Radiother Oncol* 2011;100:241-246.
45. Schiappacasse L, Cendales R, Sallabanda K, et al. Preliminary results of helical tomotherapy in patients with complex-shaped meningiomas close to the optic pathway. *Med Dosim* 2011;36:416-422.
46. Sangalli G, Passoni P, Cattaneo GM, et al. Planning design of locally advanced pancreatic carcinoma using 4DCT and IMRT/IGRT technologies. *Acta Oncol* 2011;50:72-80.
47. Russo JK, Rosen L. Tomotherapy stereotactic body radiation therapy (SBRT) for the salvage treatment of locally recurrent esophageal adenocarcinoma following trimodality therapy: a case report. *Tumori* 2011;97:406-410.
48. Rong Y, Yadav P, Paliwal B, et al. A planning study for palliative spine treatment using StatRT and megavoltage CT simulation. *J Appl Clin Med Phys* 2011;12:3348.
49. Rong Y, Welsh JS. Dosimetric and clinical review of helical tomotherapy. *Expert Rev Anticancer Ther* 2011;11:309-320.
50. Rong Y, Tang G, Welsh JS, et al. Helical tomotherapy versus single-arc intensity-modulated arc therapy: a collaborative dosimetric comparison between two institutions. *Int J Radiat Oncol Biol Phys* 2011;81:284-296.
51. Rong Y, Paliwal B, Howard SP, et al. Treatment planning for pulsed reduced dose-rate radiotherapy in helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2011;79:934-942.
52. Rodrigues G, Yartsev S, Yaremko B, et al. Phase I trial of simultaneous in-field boost with helical tomotherapy for patients with one to three brain metastases. *Int J Radiat Oncol Biol Phys* 2011;80:1128-1133.

53. Rochet N, Kieser M, Sterzing F, *et al.* Phase II study evaluating consolidation whole abdominal intensity-modulated radiotherapy (IMRT) in patients with advanced ovarian cancer stage FIGO III--the OVAR-IMRT-02 Study. *BMC Cancer* 2011;11:41.
54. Ricchetti F, Barra S, Agostinelli S, *et al.* Feasibility of helical tomotherapy for radical dose retreatment in pelvic area: a report of 4 cases. *Tumori* 2011;97:492-497.
55. Ren G, Du L, Ma L, *et al.* Clinical observation of 73 nasopharyngeal carcinoma patients treated by helical tomotherapy: the China experience. *Technol Cancer Res Treat* 2011;10:259-266.
56. Qi ZY, Deng XW, Huang SM, *et al.* Real-time in vivo dosimetry with MOSFET detectors in serial tomotherapy for head and neck cancer patients. *Int J Radiat Oncol Biol Phys* 2011;80:1581-1588.
57. Pukala J, Meeks SL, Bova FJ, *et al.* The effect of temporal HU variations on the uncertainty of dose recalculations performed on MVCT images. *Phys Med Biol* 2011;56:7829-7841.
58. Potluri S, Jefferies SJ, Jena R, *et al.* Residual postoperative tumour volume predicts outcome after high-dose radiotherapy for chordoma and chondrosarcoma of the skull base and spine. *Clin Oncol (R Coll Radiol)* 2011;23:199-208.
59. Petersson K, Ceberg C, Engstrom P, *et al.* Beam commissioning and measurements validating the beam model in a new TPS that converts helical tomotherapy plans to step-and-shoot IMRT plans. *Med Phys* 2011;38:40-46.
60. Petersson K, Ceberg C, Engstrom P, *et al.* Conversion of helical tomotherapy plans to step-and-shoot IMRT plans--Pareto front evaluation of plans from a new treatment planning system. *Med Phys* 2011;38:3130-3138.
61. Perichon N, Garcia T, Francois P, *et al.* Calibration of helical tomotherapy machine using EPR/alanine dosimetry. *Med Phys* 2011;38:1168-1177.
62. Penagaricano JA, Chao M, Van Rhee F, *et al.* Clinical feasibility of TBI with helical tomotherapy. *Bone Marrow Transplant* 2011;46:929-935.
63. Offerman S, Lamba M, Lavigne R. Effect of breast volume on treatment reproducibility on a tomotherapy unit in the treatment of breast cancer. *Int J Radiat Oncol Biol Phys* 2011;80:417-421.
64. Nguyen NP, Vock J, Sroka T, *et al.* Feasibility of Image-guided Radiotherapy Based on Tomotherapy for the Treatment of Locally Advanced Anal Carcinoma. *Anticancer Res* 2011;31:4393-4396.
65. Nguyen NP, Smith-Raymond L, Vinh-Hung V, *et al.* Feasibility of Tomotherapy to spare the cochlea from excessive radiation in head and neck cancer. *Oral Oncol* 2011;47:414-419.
66. Nguyen NP, Krafft SP, Vos P, *et al.* Feasibility of tomotherapy for Graves' ophthalmopathy: Dosimetry comparison with conventional radiotherapy. *Strahlenther Onkol* 2011;187:568-574.
67. Nguyen NP, Krafft SP, Vinh-Hung V, *et al.* Feasibility of tomotherapy to reduce normal lung and cardiac toxicity for distal esophageal cancer compared to three-dimensional radiotherapy. *Radiother Oncol* 2011;101:438-442.
68. Nakamura N, Shikama N, Takahashi O, *et al.* The relationship between the bladder volume and optimal treatment planning in definitive radiotherapy for localized prostate cancer. *Acta Oncol* 2011.
69. Murthy V, Shukla P, Adurkar P, *et al.* Dose variation during hypofractionated image-guided radiotherapy for prostate cancer: planned versus delivered. *J Cancer Res Ther* 2011;7:162-167.
70. Murthy V, Master Z, Adurkar P, *et al.* 'Plan of the day' adaptive radiotherapy for bladder cancer using helical tomotherapy. *Radiother Oncol* 2011;99:55-60.
71. Murthy V, Mallik S, Master Z, *et al.* Does helical tomotherapy improve dose conformity and normal tissue sparing compared to conventional IMRT? A dosimetric comparison in high risk prostate cancer. *Technol Cancer Res Treat* 2011;10:179-185.

72. Moon SH, Jung YS, Ryu JS, *et al.* Outcomes of postoperative simultaneous modulated accelerated radiotherapy for head-and-neck squamous cell carcinoma. *Int J Radiat Oncol Biol Phys* 2011;81:140-149.
73. Moldovan M, Fontenot JD, Gibbons JP, *et al.* Investigation of pitch and jaw width to decrease delivery time of helical tomotherapy treatments for head and neck cancer. *Med Dosim* 2011;36:397-403.
74. Milandri C, Polico R, Garcea D, *et al.* GEMOX plus tomotherapy for unresectable locally advanced pancreatic cancer. *Hepatogastroenterology* 2011;58:599-603.
75. Mikolajczyk K, Piotrowski T. Development of cylindrical stepwedge phantom for routine quality controls of a helical tomotherapy machine. *Phys Med* 2011.
76. Mesbah L, Matute R, Usyckin S, *et al.* Helical tomotherapy in the treatment of pediatric malignancies: a preliminary report of feasibility and acute toxicity. *Radiat Oncol* 2011;6:102.
77. Meng LL, Feng LC, Wang YL, *et al.* Dosimetric comparison between helical tomotherapy and intensity-modulated radiation therapy plans for non-small cell lung cancer. *Chin Med J (Engl)* 2011;124:1667-1671.
78. Mavroidis P, Su FC, Giantsoudi D, *et al.* Radiobiological and dosimetric analysis of daily megavoltage CT registration on adaptive radiotherapy with Helical Tomotherapy. *Technol Cancer Res Treat* 2011;10:1-13.
79. Mavroidis P, Shi C, Plataniotis GA, *et al.* Comparison of the helical tomotherapy against the multileaf collimator-based intensity-modulated radiotherapy and 3D conformal radiation modalities in lung cancer radiotherapy. *Br J Radiol* 2011;84:161-172.
80. Martin S, Rodrigues G, Chen Q, *et al.* Evaluation of tomotherapy MVCT image enhancement program for tumor volume delineation. *J Appl Clin Med Phys* 2011;12:3505.
81. Martin S, Chen JZ, Rashid Dar A, *et al.* Dosimetric comparison of helical tomotherapy, RapidArc, and a novel IMRT & Arc technique for esophageal carcinoma. *Radiother Oncol* 2011;101:431-437.
82. Marnitz S, Lukarski D, Kohler C, *et al.* Helical tomotherapy versus conventional intensity-modulated radiation therapy for primary chemoradiation in cervical cancer patients: an intraindividual comparison. *Int J Radiat Oncol Biol Phys* 2011;81:424-430.
83. Maggio A, Fiorino C, Mangili P, *et al.* Feasibility of safe ultra-high (EQD(2)>100 Gy) dose escalation on dominant intra-prostatic lesions (DILs) by Helical Tomotherapy. *Acta Oncol* 2011;50:25-34.
84. Loo H, Fairfoul J, Chakrabarti A, *et al.* Tumour shrinkage and contour change during radiotherapy increase the dose to organs at risk but not the target volumes for head and neck cancer patients treated on the TomoTherapy HiArt system. *Clin Oncol (R Coll Radiol)* 2011;23:40-47.
85. Longobardi B, Berardi G, Fiorino C, *et al.* Anatomical and clinical predictors of acute bowel toxicity in whole pelvis irradiation for prostate cancer with Tomotherapy. *Radiother Oncol* 2011.
86. Libby B, Sheng K, McLawhorn R, *et al.* Use of megavoltage computed tomography with image registration for high-dose rate treatment planning of an oral tongue cancer using a custom oral mold applicator with embedded lead shielding. *Brachytherapy* 2011;10:340-344.
87. Levivier M, Gevaert T, Negretti L. Gamma Knife, CyberKnife, TomoTherapy: gadgets or useful tools? *Curr Opin Neurol* 2011;24:616-625.
88. Leong T, Joon DL, Willis D, *et al.* Adjuvant chemoradiation for gastric cancer using epirubicin, cisplatin, and 5-fluorouracil before and after three-dimensional conformal radiotherapy with concurrent infusional 5-fluorouracil: a multicenter study of the Trans-Tasman Radiation Oncology Group. *Int J Radiat Oncol Biol Phys* 2011;79:690-695.

89. Lee TF, Chao PJ, Wang CY, *et al.* Dosimetric comparison of helical tomotherapy and dynamic conformal arc therapy in stereotactic radiosurgery for vestibular schwannomas. *Med Dosim* 2011;36:62-70.
90. Lee IJ, Seong J, Koom WS, *et al.* Selection of the optimal radiotherapy technique for locally advanced hepatocellular carcinoma. *Jpn J Clin Oncol* 2011;41:882-889.
91. Kupelian P, Langen K. Helical tomotherapy: image-guided and adaptive radiotherapy. *Front Radiat Ther Oncol* 2011;43:165-180.
92. Knisely JP, Yu JB. Hippocampal-sparing whole-brain radiotherapy: a "how-to" technique using helical tomotherapy and linear accelerator-based intensity-modulated radiotherapy: in regard to Gondi v, *et al.* (*Int j radiat oncol biol phys* 2010;78:1244-1252). *Int J Radiat Oncol Biol Phys* 2011;79:957-958; author reply 958.
93. Kirova YM, Chargari C. Applications of new irradiation modalities in patients with lymphoma: Promises and uncertainties. *World J Radiol* 2011;3:66-69.
94. Kirkbride P, Cooper T. Stereotactic body radiotherapy. Guidelines for commissioners, providers and clinicians: a national report. *Clin Oncol (R Coll Radiol)* 2011;23:163-164.
95. Kim JS, You CR, Jang JW, *et al.* Application of helical tomotherapy for two cases of advanced hepatocellular carcinoma. *Korean J Intern Med* 2011;26:201-206.
96. Kim B, Soisson E, Duma C, *et al.* Treatment of recurrent high grade gliomas with hypofractionated stereotactic image-guided helical tomotherapy. *Clin Neurol Neurosurg* 2011;113:509-512.
97. Kampfer S, Schell S, Duma MN, *et al.* Measurements to predict the time of target replacement of a helical tomotherapy. *J Appl Clin Med Phys* 2011;12:3596.
98. Kairn T, Hardcastle N, Kenny J, *et al.* EBT2 radiochromic film for quality assurance of complex IMRT treatments of the prostate: micro-collimated IMRT, RapidArc, and TomoTherapy. *Australas Phys Eng Sci Med* 2011;34:333-343.
99. Kainz K, Chen GP, Chang YW, *et al.* A planning and delivery study of a rotational IMRT technique with burst delivery. *Med Phys* 2011;38:5104-5118.
100. Jones R, Yang W, Read P, *et al.* Radiation therapy of post-mastectomy patients with positive nodes using fixed beam tomotherapy. *Radiother Oncol* 2011;100:247-252.
101. Jin JY, Wen N, Ren L, *et al.* Advances in treatment techniques: arc-based and other intensity modulated therapies. *Cancer J* 2011;17:166-176.
102. Jiang L, Templeton A, Turian J, *et al.* Comparison of computed tomography scout based reference point localization to conventional film and axial computed tomography. *Med Dosim* 2011.
103. Jensen AD, Nikoghosyan A, Hinke A, *et al.* Combined treatment of adenoid cystic carcinoma with cetuximab and IMRT plus C12 heavy ion boost: ACCEPT [ACC, Erbitux(R) and particle therapy]. *BMC Cancer* 2011;11:70.
104. Ito S, Parker BC, Levine R, *et al.* Verification of calculated skin doses in postmastectomy helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2011;81:584-591.
105. Hundertmark B, Sterpin E, Mackie T. A robust procedure for verifying TomoTherapy Hi-Art source models for small fields. *Phys Med Biol* 2011;56:3685-3699.
106. Hsieh CH, Kuo YS, Liao LJ, *et al.* Image-guided intensity modulated radiotherapy with helical tomotherapy for postoperative treatment of high-risk oral cavity cancer. *BMC Cancer* 2011;11:37.
107. Hsieh CH, Chung SD, Chan PH, *et al.* Intensity modulated radiotherapy for elderly bladder cancer patients. *Radiat Oncol* 2011;6:75.

108. Hong JY, Kim GW, Kim CU, *et al.* Supine linac treatment versus tomotherapy in craniospinal irradiation: planning comparison and dosimetric evaluation. *Radiat Prot Dosimetry* 2011;146:364-366.
109. Hill-Kayser CE, Plastaras JP, Tochner Z, *et al.* TBI during BM and SCT: review of the past, discussion of the present and consideration of future directions. *Bone Marrow Transplant* 2011;46:475-484.
110. Helissey C, Levy A, Jacob J, *et al.* External beam radiotherapy in the management of spinal metastases: review of current strategies and perspectives for highly conformal irradiation modalities. *Discov Med* 2011;11:505-511.
111. Harron E, Lewis J. Bowel sparing in pediatric cranio-spinal radiotherapy: a comparison of combined electron and photon and helical TomoTherapy techniques to a standard photon method. *Med Dosim* 2011.
112. Harris EE, Latifi K, Rusthoven C, *et al.* Assessment of organ motion in postoperative endometrial and cervical cancer patients treated with intensity-modulated radiation therapy. *Int J Radiat Oncol Biol Phys* 2011;81:e645-650.
113. Han C, Schultheiss TE, Wong JY. Dosimetric study of volumetric modulated arc therapy fields for total marrow irradiation. *Radiother Oncol* 2011.
114. Han C, Schiffner DC, Schultheiss TE, *et al.* Residual setup errors and dose variations with less-than-daily image guided patient setup in external beam radiotherapy for esophageal cancer. *Radiother Oncol* 2011.
115. Haddad H, Dejean C, Henriques de Figueiredo B, *et al.* [Helical tomotherapy for axial and paraspinal tumours: experience of Institut Bergonie (14 cases)]. *Cancer Radiother* 2011;15:404-412.
116. Gwynne S, Webster R, Adams R, *et al.* Image-guided Radiotherapy for Rectal Cancer - A Systematic Review. *Clin Oncol (R Coll Radiol)* 2011.
117. Gutierrez AN, Stathakis S, Crownover R, *et al.* Clinical evaluation of an immobilization system for stereotactic body radiotherapy using helical tomotherapy. *Med Dosim* 2011;36:126-129.
118. Gupta T, Mallik S, Master Z, *et al.* Brain-sparing holo-cranial radiotherapy: a unique application of helical tomotherapy. *Clin Oncol (R Coll Radiol)* 2011;23:86-94.
119. Gondi V, Hermann BP, Mehta MP, *et al.* Hippocampal Dosimetry Predicts Neurocognitive Function Impairment After Fractionated Stereotactic Radiotherapy for Benign or Low-Grade Adult Brain Tumors. *Int J Radiat Oncol Biol Phys* 2011.
120. Giraud P, Sylvestre A, Zefkili S, *et al.* Helical tomotherapy for resected malignant pleural mesothelioma: dosimetric evaluation and toxicity. *Radiother Oncol* 2011;101:303-306.
121. Giraud P, Sylvestre A, Lisbona A, *et al.* [Value of tomotherapy in malignant pleural mesothelioma: first clinical results]. *Rev Mal Respir* 2011;28:609-617.
122. Giraud P, Kantor G, Yassa M, *et al.* Two-year clinical experience with tomotherapy: the French national cancer institute project on implementing new technology. *Cancer Invest* 2011;29:557-563.
123. Giolda BT, Shah AP, Marsh JC, *et al.* Helical tomotherapy delivery of an IMRT boost in lieu of interstitial brachytherapy in the setting of gynecologic malignancy: feasibility and dosimetric comparison. *Med Dosim* 2011;36:206-212.
124. Geng H, Yu SK, Lam WW, *et al.* The dosimetric effect of zipper artifacts on tomotherapy adaptive dose calculation--a phantom study. *Med Dosim* 2011;36:306-312.
125. Fung WW, Wu VW, Teo PM. Dosimetric evaluation of a three-phase adaptive radiotherapy for nasopharyngeal carcinoma using helical tomotherapy. *Med Dosim* 2011.
126. Franco P, Catuzzo P, Cante D, *et al.* TomoDirect: an efficient means to deliver radiation at static angles with tomotherapy. *Tumori* 2011;97:498-502.

127. Franchin G, Vaccher E, Talamini R, *et al.* Intensity-modulated radiotherapy (IMRT)/Tomotherapy following neoadjuvant chemotherapy in stage IIB-IVA/B undifferentiated nasopharyngeal carcinomas (UCNT): a mono-institutional experience. *Oral Oncol* 2011;47:905-909.
128. Fodor A, Fiorino C, Dell'oca I, *et al.* PET-guided dose escalation tomotherapy in malignant pleural mesothelioma. *Strahlenther Onkol* 2011;187:736-743.
129. Fiorino C, Maggiulli E, Broggi S, *et al.* Introducing the Jacobian-volume-histogram of deforming organs: application to parotid shrinkage evaluation. *Phys Med Biol* 2011;56:3301-3312.
130. Faggiano E, Fiorino C, Scalco E, *et al.* An automatic contour propagation method to follow parotid gland deformation during head-and-neck cancer tomotherapy. *Phys Med Biol* 2011;56:775-791.
131. Faggiano E, Cattaneo GM, Ciavarro C, *et al.* Validation of an elastic registration technique to estimate anatomical lung modification in non-small-cell lung cancer tomotherapy. *Radiat Oncol* 2011;6:31.
132. Engineer R, Wadasadawala T, Mehta S, *et al.* Chemoradiation for unresectable gall bladder cancer: time to review historic nihilism? *J Gastrointest Cancer* 2011;42:222-227.
133. Engels B, Tournel K, Everaert H, *et al.* Phase II Study of Preoperative Helical Tomotherapy with a Simultaneous Integrated Boost for Rectal Cancer. *Int J Radiat Oncol Biol Phys* 2011.
134. Engels B, Everaert H, Gevaert T, *et al.* Phase II study of helical tomotherapy for oligometastatic colorectal cancer. *Ann Oncol* 2011;22:362-368.
135. Eldebawy E, Parker W, Abdel Rahman W, *et al.* Dosimetric Study of Current Treatment Options for Radiotherapy in Retinoblastoma. *Int J Radiat Oncol Biol Phys* 2011.
136. Donovan EM, Ciurlionis L, Fairfoul J, *et al.* Planning with intensity-modulated radiotherapy and tomotherapy to modulate dose across breast to reflect recurrence risk (IMPORT High trial). *Int J Radiat Oncol Biol Phys* 2011;79:1064-1072.
137. De Ost B, Schaeken B, Vynckier S, *et al.* Reference dosimetry for helical tomotherapy: practical implementation and a multicenter validation. *Med Phys* 2011;38:6020-6026.
138. de Almeida CE, Fournier-Bidoz N, Massabeau C, *et al.* Potential benefits of using cardiac gated images to reduce the dose to the left anterior descending coronary during radiotherapy of left breast and internal mammary nodes. *Cancer Radiother* 2011.
139. Davidson MT, Blake SJ, Batchelar DL, *et al.* Assessing the role of volumetric modulated arc therapy (VMAT) relative to IMRT and helical tomotherapy in the management of localized, locally advanced, and post-operative prostate cancer. *Int J Radiat Oncol Biol Phys* 2011;80:1550-1558.
140. Cui Y, Galvin JM, Straube WL, *et al.* Multi-system verification of registrations for image-guided radiotherapy in clinical trials. *Int J Radiat Oncol Biol Phys* 2011;81:305-312.
141. Corvo R, Zeverino M, Vagge S, *et al.* Helical tomotherapy targeting total bone marrow after total body irradiation for patients with relapsed acute leukemia undergoing an allogeneic stem cell transplant. *Radiother Oncol* 2011;98:382-386.
142. Combs SE, Sterzing F, Uhl M, *et al.* Helical tomotherapy for meningiomas of the skull base and in paraspinal regions with complex anatomy and/or multiple lesions. *Tumori* 2011;97:484-491.
143. Clemente S, Wu B, Sanguineti G, *et al.* SmartArc-based volumetric modulated arc therapy for oropharyngeal cancer: a dosimetric comparison with both intensity-modulated radiation therapy and helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2011;80:1248-1255.
144. Chi A, Jang SY, Welsh JS, *et al.* Feasibility of helical tomotherapy in stereotactic body radiation therapy for centrally located early stage nonsmall-cell lung cancer or lung metastases. *Int J Radiat Oncol Biol Phys* 2011;81:856-862.
145. Chen Y, Chen Q, Chen M, *et al.* Dynamic tomotherapy delivery. *Med Phys* 2011;38:3013-3024.

146. Chen Q, Chen Y, Chen M, *et al.* A slit method to determine the focal spot size and shape of TomoTherapy system. *Med Phys* 2011;38:2841-2849.
147. Chen Q, Chen M, Lu W. Ultrafast convolution/superposition using tabulated and exponential kernels on GPU. *Med Phys* 2011;38:1150-1161.
148. Chen M, Chen Y, Chen Q, *et al.* Theoretical analysis of the thread effect in helical TomoTherapy. *Med Phys* 2011;38:5945-5960.
149. Chen AM, Marsano J, Perks J, *et al.* Comparison of IMRT techniques in the radiotherapeutic management of head and neck cancer: is tomotherapy "better" than step-and-shoot IMRT? *Technol Cancer Res Treat* 2011;10:171-177.
150. Chatterjee S, Willis N, Locks SM, *et al.* Dosimetric and radiobiological comparison of helical tomotherapy, forward-planned intensity-modulated radiotherapy and two-phase conformal plans for radical radiotherapy treatment of head and neck squamous cell carcinomas. *Br J Radiol* 2011;84:1083-1090.
151. Chatterjee S, Mott JH, Smyth G, *et al.* Clinical challenges in the implementation of a tomotherapy service for head and neck cancer patients in a regional UK radiotherapy centre. *Br J Radiol* 2011;84:358-366.
152. Chatterjee S, Lee D, Kent N, *et al.* Managing supraclavicular disease from breast cancer with brachial plexus-sparing techniques using helical tomotherapy. *Clin Oncol (R Coll Radiol)* 2011;23:101-107.
153. Chargari C, Vernant JP, Tamburini J, *et al.* Feasibility of helical tomotherapy for debulking irradiation before stem cell transplantation in malignant lymphoma. *Int J Radiat Oncol Biol Phys* 2011;81:1184-1189.
154. Chargari C, Hijal T, Bouscary D, *et al.* The role of helical tomotherapy in the treatment of bone plasmacytoma. *Med Dosim* 2011.
155. Chao M, Penagaricano J, Yan Y, *et al.* Voxel-Based Dose Reconstruction for Total Body Irradiation With Helical TomoTherapy. *Int J Radiat Oncol Biol Phys* 2011.
156. Chang CC, Chi KH, Kao SJ, *et al.* Upfront gefitinib/erlotinib treatment followed by concomitant radiotherapy for advanced lung cancer: a mono-institutional experience. *Lung Cancer* 2011;73:189-194.
157. Cendales R, Schiappacasse L, Schnitman F, *et al.* Helical tomotherapy in patients with breast cancer and complex treatment volumes. *Clin Transl Oncol* 2011;13:268-274.
158. Castadot P, Geets X, Lee JA, *et al.* Adaptive functional image-guided IMRT in pharyngo-laryngeal squamous cell carcinoma: is the gain in dose distribution worth the effort? *Radiother Oncol* 2011;101:343-350.
159. Capelle L, Mackenzie M, Field C, *et al.* Adaptive Radiotherapy Using Helical Tomotherapy for Head and Neck Cancer in Definitive and Postoperative Settings: Initial Results. *Clin Oncol (R Coll Radiol)* 2011.
160. Cante D, Rosa La Porta M, Casanova-Borca V, *et al.* Accelerated hypofractionated adjuvant whole breast radiotherapy with concomitant photon boost after conserving surgery for early stage breast cancer: a prospective evaluation on 463 patients. *Breast J* 2011;17:586-593.
161. Cai J, Yue J, McLawhorn R, *et al.* Dosimetric comparison of 6 MV and 15 MV single arc rapidarc to helical TomoTherapy for the treatment of pancreatic cancer. *Med Dosim* 2011;36:317-320.
162. Cai J, McLawhorn R, Altes TA, *et al.* Helical tomotherapy planning for lung cancer based on ventilation magnetic resonance imaging. *Med Dosim* 2011;36:389-396.
163. Blasi O, Fontenot JD, Fields RS, *et al.* Preliminary comparison of helical tomotherapy and mixed beams of unmodulated electrons and intensity modulated radiation therapy for treating superficial cancers of the parotid gland and nasal cavity. *Radiat Oncol* 2011;6:178.

164. Belec J, Ploquin N, La Russa DJ, *et al.* Position-probability-sampled Monte Carlo calculation of VMAT, 3DCRT, step-shoot IMRT, and helical tomotherapy dose distributions using BEAMnrc/DOSXYZnrc. *Med Phys* 2011;38:948-960.
165. Baisden JM, Sheehan J, Reish AG, *et al.* Helical tomotherapy simultaneous integrated boost provides a dosimetric advantage in the treatment of primary intracranial tumors. *Neurol Res* 2011;33:820-824.
166. Aydogan B, Yeginer M, Kavak GO, *et al.* Total marrow irradiation with RapidArc volumetric arc therapy. *Int J Radiat Oncol Biol Phys* 2011;81:592-599.
167. Ardu V, Broggi S, Cattaneo GM, *et al.* Dosimetric accuracy of tomotherapy dose calculation in thorax lesions. *Radiat Oncol* 2011;6:14.
168. Alongi F, Fodor A, Maggio A, *et al.* Megavoltage CT images of helical tomotherapy unit for radiation treatment simulation: impact on feasibility of treatment planning in a prostate cancer patient with bilateral femoral prostheses. *Tumori* 2011;97:221-224.
169. Akerstrom F, Santos B, Alguacil AM, *et al.* Pericardial synovial sarcoma. *Thorac Cardiovasc Surg* 2011;59:175-177.

2010 (518 total)

1. Zhuang T, Wu Q. Generating arbitrary one-dimensional dose profiles using rotational therapy. *Phys Med Biol* 2010;55:6263-6277.
2. Zhuang AH, Liu A, Schultheiss TE, *et al.* Dosimetric study and verification of total body irradiation using helical tomotherapy and its comparison to extended SSD technique. *Med Dosim* 2010;35:243-249.
3. Zhou J, Uhl B, Dewitt K, *et al.* Image-guided stereotactic body radiotherapy for lung tumors using BodyLoc with tomotherapy: clinical implementation and set-up accuracy. *Med Dosim* 2010;35:12-18.
4. Zhou J, Uhl B, Dewit K, *et al.* Analysis of daily setup variation with tomotherapy megavoltage computed tomography. *Med Dosim* 2010;35:31-37.
5. Zhang X, Penagaricano J, Moros EG, *et al.* Dosimetric comparison of helical tomotherapy and linac-IMRT treatment plans for head and neck cancer patients. *Med Dosim* 2010;35:264-268.
6. Zacarias AS, Brown MF, Mills MD. A method for correcting IMRT optimizer heterogeneity dose calculations. *Med Dosim* 2010;35:7-11.
7. You CR, Jang JW, Choi JK, *et al.* Hepatic Failure Caused by Reactivation of YMDD Mutants Occurring during Preemptive Lamivudine Therapy. *Gut Liver* 2010;4:262-265.
8. Yeo SG, Kim DY, Kim TH, *et al.* Curative chemoradiotherapy for isolated retroperitoneal lymph node recurrence of colorectal cancer. *Radiother Oncol* 2010;97:307-311.
9. Yang R, Xu S, Jiang W, *et al.* Dosimetric comparison of postoperative whole pelvic radiotherapy for endometrial cancer using three-dimensional conformal radiotherapy, intensity-modulated radiotherapy, and helical tomotherapy. *Acta Oncol* 2010;49:230-236.
10. Yang R, Xu S, Jiang W, *et al.* Dosimetric comparison of postoperative whole pelvic radiotherapy for endometrial cancer using three-dimensional conformal radiotherapy, intensity-modulated radiotherapy, and helical tomotherapy. *Acta Oncol* 2010;49:230-236.
11. Yang C, Liu T, Jennelle RL, *et al.* Utility of megavoltage fan-beam CT for treatment planning in a head-and-neck cancer patient with extensive dental fillings undergoing helical tomotherapy. *Med Dosim* 2010;35:108-114.

12. Yamazaki H. Response to "Helical tomotherapy for simultaneous multitarget radiotherapy for pulmonary metastasis." (*Int J Radiat Oncol Biol Phys* 2009;75:703-710). *Int J Radiat Oncol Biol Phys* 2010;76:1276; author reply 1276-1277.
13. Yadav P, Tolakanahalli R, Rong Y, *et al.* The effect and stability of MVCT images on adaptive TomoTherapy. *J Appl Clin Med Phys* 2010;11:3229.
14. Xu S, Xie C, Ju Z, *et al.* Dose verification of helical tomotherapy intensity modulated radiation therapy planning using 2D-array ion chambers. *Biomed Imaging Interv J* 2010;6:e24.
15. Wurstbauer K, Weise H, Deutschmann H, *et al.* Non-small cell lung cancer in stages I-IIIb: Long-term results of definitive radiotherapy with doses ≥ 80 Gy in standard fractionation. *Strahlenther Onkol* 2010;186:551-557.
16. Wu WC, Mui WL, Fung WK. Helical tomotherapy of nasopharyngeal carcinoma-any advantages over conventional intensity-modulated radiotherapy? *Med Dosim* 2010;35:122-127.
17. Williams MV, Hoole AC, Dean JC, *et al.* IMRT can be faster to deliver than conformal radiotherapy. *Radiother Oncol* 2010;95:257-258.
18. Vogelius IS, Westerly DC, Cannon GM, *et al.* Hypofractionation does not increase radiation pneumonitis risk with modern conformal radiation delivery techniques. *Acta Oncol* 2010;49:1052-1057.
19. Vlachaki MT, Kumar S. Helical tomotherapy in the radiotherapy treatment of Hodgkin's disease - a feasibility study. *J Appl Clin Med Phys* 2010;11:3042.
20. Toms DR, Cannick L, Stuart RK, *et al.* Helical tomotherapy for extramedullary hematopoiesis involving the pericardium in a patient with chronic myeloid leukemia. *Jpn J Radiol* 2010;28:476-478.
21. Tomita N, Kodaira T, Matsuo M, *et al.* Helical tomotherapy for solitary lung tumor: feasibility study and dosimetric evaluation of treatment plans. *Technol Cancer Res Treat* 2010;9:407-415.
22. Thomas SJ, Vinall A, Poynter A, *et al.* A multicentre timing study of intensity-modulated radiotherapy planning and delivery. *Clin Oncol (R Coll Radiol)* 2010;22:658-665.
23. Su FC, Mavroidis P, Shi C, *et al.* A graphic user interface toolkit for specification, report and comparison of dose-response relations and treatment plans using the biologically effective uniform dose. *Comput Methods Programs Biomed* 2010;100:69-78.
24. Sterzing F, Uhl M, Hauswald H, *et al.* Dynamic jaws and dynamic couch in helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2010;76:1266-1273.
25. Sterzing F, Hauswald H, Uhl M, *et al.* Spinal cord sparing reirradiation with helical tomotherapy. *Cancer* 2010;116:3961-3968.
26. Sterpin E, Hundertmark BT, Mackie TR, *et al.* Monte Carlo-based analytical model for small and variable fields delivered by TomoTherapy. *Radiother Oncol* 2010;94:229-234.
27. Stathakis S, Gutierrez A, Esquivel C, *et al.* A practical method to detect target failure of a helical tomotherapy unit. *J Buon* 2010;15:496-499.
28. Song CH, Pyo H, Moon SH, *et al.* Treatment-related pneumonitis and acute esophagitis in non-small-cell lung cancer patients treated with chemotherapy and helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2010;78:651-658.
29. Soisson ET, Hardcastle N, Tome WA. Quality assurance of an image guided intracranial stereotactic positioning system for radiosurgery treatment with helical tomotherapy. *J Neurooncol* 2010;98:277-285.
30. Smith S, Yartsev S, Van Dyk J. Evaluation of megavoltage CT imaging protocols in patients with lung cancer. *J Med Imaging Radiat Oncol* 2010;54:62-68.
31. Shueng PW, Wu LJ, Chen SY, *et al.* Concurrent chemoradiotherapy with helical tomotherapy for oropharyngeal cancer: a preliminary result. *Int J Radiat Oncol Biol Phys* 2010;77:715-721.

32. Shaikh M, Burmeister J, Joiner M, *et al.* Biological effect of different IMRT delivery techniques: SMLC, DMLC, and helical tomotherapy. *Med Phys* 2010;37:762-770.
33. Schoonbeek A, Monshouwer R, Hanssens P, *et al.* Intracranial radiosurgery in the Netherlands. A planning comparison of available systems with regard to physical aspects and workload. *Technol Cancer Res Treat* 2010;9:279-290.
34. Schiefer H, Fogliata A, Nicolini G, *et al.* The Swiss IMRT dosimetry intercomparison using a thorax phantom. *Med Phys* 2010;37:4424-4431.
35. Sanghera P, Lightstone AW, Hyde DE, *et al.* Case report. Fractionated Helical Tomotherapy as an alternative to radiosurgery in patients unwilling to undergo additional radiosurgery for recurrent brain metastases. *Br J Radiol* 2010;83:e25-30.
36. Rodrigues G, Yartsev S, Yaremko B, *et al.* Phase I trial of simultaneous in-field boost with helical tomotherapy for patients with one to three brain metastases. *Int J Radiat Oncol Biol Phys* 2010;80:1128-1133.
37. Rodrigues G, Yartsev S, Bauman G. Application of helical tomotherapy in genitourinary malignancies. *Can J Urol* 2010;17:5453-5458.
38. Rochet N, Sterzing F, Jensen AD, *et al.* Intensity-modulated whole abdominal radiotherapy after surgery and carboplatin/taxane chemotherapy for advanced ovarian cancer: phase I study. *Int J Radiat Oncol Biol Phys* 2010;76:1382-1389.
39. Rene NJ, Brodeur M, Parker W, *et al.* A comparison of optic nerve dosimetry in craniospinal radiotherapy planned and treated with conventional and intensity modulated techniques. *Radiother Oncol* 2010;97:387-389.
40. Ren G, Xu S, Du L, *et al.* [Assessment of parotid gland dose variations by helical tomotherapy adaptive system in head and neck cancer]. *Zhongguo Yi Liao Qi Xie Za Zhi* 2010;34:335-338.
41. Rao M, Yang W, Chen F, *et al.* Comparison of Elekta VMAT with helical tomotherapy and fixed field IMRT: plan quality, delivery efficiency and accuracy. *Med Phys* 2010;37:1350-1359.
42. Potters L, Kavanagh B, Galvin JM, *et al.* American Society for Therapeutic Radiology and Oncology (ASTRO) and American College of Radiology (ACR) practice guideline for the performance of stereotactic body radiation therapy. *Int J Radiat Oncol Biol Phys* 2010;76:326-332.
43. Pervez N, Small C, MacKenzie M, *et al.* Acute toxicity in high-risk prostate cancer patients treated with androgen suppression and hypofractionated intensity-modulated radiotherapy. *Int J Radiat Oncol Biol Phys* 2010;76:57-64.
44. Parker W, Brodeur M, Roberge D, *et al.* Standard and nonstandard craniospinal radiotherapy using helical TomoTherapy. *Int J Radiat Oncol Biol Phys* 2010;77:926-931.
45. Park SB, Rhee FC, Monroe JI, *et al.* Spatially weighted mutual information image registration for image guided radiation therapy. *Med Phys* 2010;37:4590-4601.
46. Palmans H, Thomas RA, Duane S, *et al.* Ion recombination for ionization chamber dosimetry in a helical tomotherapy unit. *Med Phys* 2010;37:2876-2889.
47. Orban de Xivry J, Castadot P, Janssens G, *et al.* Evaluation of the radiobiological impact of anatomic modifications during radiation therapy for head and neck cancer: can we simply summate the dose? *Radiother Oncol* 2010;96:131-138.
48. Murthy V, Master Z, Gupta T, *et al.* Helical tomotherapy for head and neck squamous cell carcinoma: dosimetric comparison with linear accelerator-based step-and-shoot IMRT. *J Cancer Res Ther* 2010;6:194-198.
49. Moore KL, Palaniswaamy G, White B, *et al.* Fast, low-dose patient localization on TomoTherapy via topogram registration. *Med Phys* 2010;37:4068-4077.
50. Molloy JA. Statistical analysis of dose heterogeneity in circulating blood: implications for sequential methods of total body irradiation. *Med Phys* 2010;37:5568-5578.

51. Mizumoto M, Nakayama H, Tokita M, *et al.* Technical considerations for noncoplanar proton-beam therapy of patients with tumors proximal to the optic nerve. *Strahlenther Onkol* 2010;186:36-39.
52. Mehta MP, Khuntia D. Treatment-related pneumonitis and acute esophagitis in non-small-cell lung cancer patients treated with chemotherapy and helical tomotherapy: in regard to Song *et al.* *Int J Radiat Oncol Biol Phys* 2010;78:1281; author reply 1281-1282.
53. Medwig J, Gaede S, Battista JJ, *et al.* Effect of lateral target motion on image registration accuracy in CT-guided helical tomotherapy: a phantom study. *J Med Imaging Radiat Oncol* 2010;54:280-286.
54. McIntosh A, Dunlap N, Sheng K, *et al.* Helical tomotherapy-based STAT RT: Dosimetric evaluation for clinical implementation of a rapid radiation palliation program. *Med Dosim* 2010;35:280-286.
55. Mascarin M, Drigo A, Dassie A, *et al.* Optimizing craniospinal radiotherapy delivery in a pediatric patient affected by supratentorial PNET: a case report. *Tumori* 2010;96:316-321.
56. Martin S, Yartsev S. KVCT, MVCT, and hybrid CT image studies--treatment planning and dose delivery equivalence on helical tomotherapy. *Med Phys* 2010;37:2847-2854.
57. Marsh JC, Herskovic AM, Giolda BT, *et al.* Intracranial metastatic disease spares the limbic circuit: a review of 697 metastatic lesions in 107 patients. *Int J Radiat Oncol Biol Phys* 2010;76:504-512.
58. Marsh JC, Godbole RH, Herskovic AM, *et al.* Sparing of the neural stem cell compartment during whole-brain radiation therapy: a dosimetric study using helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2010;78:946-954.
59. Marsh JC, Giolda BT, Herskovic AM, *et al.* Sparing of the hippocampus and limbic circuit during whole brain radiation therapy: A dosimetric study using helical tomotherapy. *J Med Imaging Radiat Oncol* 2010;54:375-382.
60. Marnitz S, Stromberger C, Kawgan-Kagan M, *et al.* Helical tomotherapy in cervical cancer patients: simultaneous integrated boost concept: technique and acute toxicity. *Strahlenther Onkol* 2010;186:572-579.
61. Lu W, Chen M. Fluence-convolution broad-beam (FCBB) dose calculation. *Phys Med Biol* 2010;55:7211-7229.
62. Lu W. A non-voxel-based broad-beam (NVBB) framework for IMRT treatment planning. *Phys Med Biol* 2010;55:7175-7210.
63. Lobo J, Popescu IA. Two new DOSXYZnrc sources for 4D Monte Carlo simulations of continuously variable beam configurations, with applications to RapidArc, VMAT, TomoTherapy and CyberKnife. *Phys Med Biol* 2010;55:4431-4443.
64. Lee TF, Chao PJ, Fang FM, *et al.* Helical tomotherapy for single and multiple liver tumours. *Radiat Oncol* 2010;5:58.
65. Lee HH, Lian SL, Huang CJ, *et al.* Tomotherapy for neurofibromatosis Type 2: case report and review of the literature. *Br J Radiol* 2010;83:e74-78.
66. Lawrence JA, Forrest LJ, Turek MM, *et al.* Proof of principle of ocular sparing in dogs with sinonasal tumors treated with intensity-modulated radiation therapy. *Vet Radiol Ultrasound* 2010;51:561-570.
67. Langen KM, Papanikolaou N, Balog J, *et al.* QA for helical tomotherapy: report of the AAPM Task Group 148. *Med Phys* 2010;37:4817-4853.
68. Kwon JH, Bae SH, Kim JY, *et al.* Long-term effect of stereotactic body radiation therapy for primary hepatocellular carcinoma ineligible for local ablation therapy or surgical resection. Stereotactic radiotherapy for liver cancer. *BMC Cancer* 2010;10:475.

69. Kumar T, Rakowski J, Zhao B, *et al.* Helical TomoTherapy versus stereotactic Gamma Knife radiosurgery in the treatment of single and multiple brain tumors: a dosimetric comparison. *J Appl Clin Med Phys* 2010;11:3245.
70. Korol RM, Surry K, Davidson MT, *et al.* Three-dimensional image-based planning for cervix brachytherapy with bilateral hip prostheses: a solution using MVCT with helical tomotherapy. *Brachytherapy* 2010;9:278-281.
71. Kissick MW, Mo X, McCall KC, *et al.* A phantom model demonstration of tomotherapy dose painting delivery, including managed respiratory motion without motion management. *Phys Med Biol* 2010;55:2983-2995.
72. Kirova YM, Servois V, Chargari C, *et al.* Further developments for improving response and tolerance to irradiation for advanced renal cancer: concurrent (mTOR) inhibitor RAD001 and helical tomotherapy. *Invest New Drugs* 2010.
73. Kirova YM, Chargari C, Zefkili S, *et al.* Could helical tomotherapy do whole brain radiotherapy and radiosurgery? *World J Radiol* 2010;2:148-150.
74. Kim B, Chen J, Kron T, *et al.* Feasibility study of multi-pass respiratory-gated helical tomotherapy of a moving target via binary MLC closure. *Phys Med Biol* 2010;55:6673-6694.
75. Kazi A, Godwin G, Simpson J, *et al.* MRS-guided HDR brachytherapy boost to the dominant intraprostatic lesion in high risk localised prostate cancer. *BMC Cancer* 2010;10:472.
76. Jursinic PA, Sharma R, Reuter J. MapCHECK used for rotational IMRT measurements: step-and-shoot, TomoTherapy, RapidArc. *Med Phys* 2010;37:2837-2846.
77. Joshi CP, Darko J, Vidyasagar PB, *et al.* Dosimetry of interface region near closed air cavities for Co-60, 6 MV and 15 MV photon beams using Monte Carlo simulations. *J Med Phys* 2010;35:73-80.
78. Joseph KJ, Syme A, Small C, *et al.* A treatment planning study comparing helical tomotherapy with intensity-modulated radiotherapy for the treatment of anal cancer. *Radiother Oncol* 2010;94:60-66.
79. Ji YH, Jung H, Yang K, *et al.* Trends for the past 10 years and international comparisons of the structure of Korean radiation oncology. *Jpn J Clin Oncol* 2010;40:470-475.
80. Ji JS, Han CW, Jang JW, *et al.* Helical tomotherapy with concurrent capecitabine for the treatment of inoperable pancreatic cancer. *Radiat Oncol* 2010;5:60.
81. Jeraj R, Cao Y, Ten Haken RK, *et al.* Imaging for assessment of radiation-induced normal tissue effects. *Int J Radiat Oncol Biol Phys* 2010;76:S140-144.
82. Jensen AD, Nikoghosyan A, Windemuth-Kieselbach C, *et al.* Combined treatment of malignant salivary gland tumours with intensity-modulated radiation therapy (IMRT) and carbon ions: COSMIC. *BMC Cancer* 2010;10:546.
83. Jacob V, Bayer W, Astner ST, *et al.* A planning comparison of dynamic IMRT for different collimator leaf thicknesses with helical tomotherapy and RapidArc for prostate and head and neck tumors. *Strahlenther Onkol* 2010;186:502-510.
84. Hsieh CH, Wei MC, Hsu YP, *et al.* Should helical tomotherapy replace brachytherapy for cervical cancer? Case report. *BMC Cancer* 2010;10:637.
85. Hsieh CH, Liu CY, Shueng PW, *et al.* Comparison of coplanar and noncoplanar intensity-modulated radiation therapy and helical tomotherapy for hepatocellular carcinoma. *Radiat Oncol* 2010;5:40.
86. Hoffe SE, Finkelstein SE, Russell MS, *et al.* Nonsurgical options for hepatocellular carcinoma: evolving role of external beam radiotherapy. *Cancer Control* 2010;17:100-110.
87. Hodge CW, Tome WA, Fain SB, *et al.* On the use of hyperpolarized helium MRI for conformal avoidance lung radiotherapy. *Med Dosim* 2010;35:297-303.

88. Hijal T, Fournier-Bidoz N, Castro-Pena P, *et al.* Simultaneous integrated boost in breast conserving treatment of breast cancer: a dosimetric comparison of helical tomotherapy and three-dimensional conformal radiotherapy. *Radiother Oncol* 2010;94:300-306.
89. He W, Vazquez LA, Shi C, *et al.* Sensitivity study to evaluate the dosimetric impact of off-axis ratio profiles misalignment on TomoTherapy second dose validation. *Technol Cancer Res Treat* 2010;9:515-522.
90. Han K, Cheung P, Basran PS, *et al.* A comparison of two immobilization systems for stereotactic body radiation therapy of lung tumors. *Radiother Oncol* 2010;95:103-108.
91. Habl G, Jensen AD, Potthoff K, *et al.* Treatment of locally advanced carcinomas of head and neck with intensity-modulated radiation therapy (IMRT) in combination with cetuximab and chemotherapy: the REACH protocol. *BMC Cancer* 2010;10:651.
92. Gutierrez A, Stathakis S, Esquivel C, *et al.* Impact of pulse forming network and injection current parameters on output and energy variations of helical tomotherapy. *J Buon* 2010;15:373-377.
93. Gondi V, Tome WA, Marsh J, *et al.* Estimated risk of perihippocampal disease progression after hippocampal avoidance during whole-brain radiotherapy: safety profile for RTOG 0933. *Radiother Oncol* 2010;95:327-331.
94. Gondi V, Tolakanahalli R, Mehta MP, *et al.* Hippocampal-sparing whole-brain radiotherapy: a "how-to" technique using helical tomotherapy and linear accelerator-based intensity-modulated radiotherapy. *Int J Radiat Oncol Biol Phys* 2010;78:1244-1252.
95. Giolda BT, Millunchick CH, Smart JP, *et al.* Helical tomotherapy and larynx sparing in advanced oropharyngeal carcinoma: a dosimetric study. *Med Dosim* 2010;35:214-219.
96. Garcia LM, Gerig LH, Raaphorst P, *et al.* Junctioning longitudinally adjacent PTVs with Helical TomoTherapy. *J Appl Clin Med Phys* 2010;11:3047.
97. Feygelman V, Opp D, Javedan K, *et al.* Evaluation of a 3D diode array dosimeter for helical tomotherapy delivery QA. *Med Dosim* 2010;35:324-329.
98. Farrag A, Voordeckers M, Tournel K, *et al.* Pattern of failure after helical tomotherapy in head and neck cancer. *Strahlenther Onkol* 2010;186:511-516.
99. Estall V, Fairfoul J, Jena R, *et al.* Skull base meningioma - comparison of intensity-modulated radiotherapy planning techniques using the moduleaf micro-multileaf collimator and helical tomotherapy. *Clin Oncol (R Coll Radiol)* 2010;22:179-184.
100. Dunlap NE, Larner JM, Read PW, *et al.* Size matters: a comparison of T1 and T2 peripheral non-small-cell lung cancers treated with stereotactic body radiation therapy (SBRT). *J Thorac Cardiovasc Surg* 2010;140:583-589.
101. Dunlap NE, Cai J, Biedermann GB, *et al.* Chest wall volume receiving >30 Gy predicts risk of severe pain and/or rib fracture after lung stereotactic body radiotherapy. *Int J Radiat Oncol Biol Phys* 2010;76:796-801.
102. Dunlap N, McIntosh A, Sheng K, *et al.* Helical tomotherapy-based STAT stereotactic body radiation therapy: Dosimetric evaluation for a real-time SBRT treatment planning and delivery program. *Med Dosim* 2010;35:312-319.
103. Duma MN, Kampf S, Wilkens JJ, *et al.* Comparative analysis of an image-guided versus a non-image-guided setup approach in terms of delivered dose to the parotid glands in head-and-neck cancer IMRT. *Int J Radiat Oncol Biol Phys* 2010;77:1266-1273.
104. Duchateau M, Tournel K, Verellen D, *et al.* The effect of tomotherapy imaging beam output instabilities on dose calculation. *Phys Med Biol* 2010;55:N329-336.
105. Dirix P, Vanstraelen B, Jorissen M, *et al.* Intensity-modulated radiotherapy for sinonasal cancer: improved outcome compared to conventional radiotherapy. *Int J Radiat Oncol Biol Phys* 2010;78:998-1004.

106. Di Betta E, Fariselli L, Bergantin A, *et al.* Evaluation of the peripheral dose in stereotactic radiotherapy and radiosurgery treatments. *Med Phys* 2010;37:3587-3594.
107. Deveau MA, Gutierrez AN, Mackie TR, *et al.* Dosimetric impact of daily setup variations during treatment of canine nasal tumors using intensity-modulated radiation therapy. *Vet Radiol Ultrasound* 2010;51:90-96.
108. Dejean C, Kantor G, Henriques de Figueiredo B, *et al.* [Helical tomotherapy: description and clinical applications]. *Bull Cancer* 2010;97:783-789.
109. Deasy JO, Moiseenko V, Marks L, *et al.* Radiotherapy dose-volume effects on salivary gland function. *Int J Radiat Oncol Biol Phys* 2010;76:S58-63.
110. Dai X, Wang Y, Xu S, *et al.* [Analysis of megavoltage computed tomography imaging on a helical tomotherapy unit]. *Zhongguo Yi Liao Qi Xie Za Zhi* 2010;34:458-461.
111. Dahele M, Skinner M, Schultz B, *et al.* Adjuvant radiotherapy for gastric cancer: A dosimetric comparison of 3-dimensional conformal radiotherapy, tomotherapy and conventional intensity modulated radiotherapy treatment plans. *Med Dosim* 2010;35:115-121.
112. Coon AB, Dickler A, Kirk MC, *et al.* Tomotherapy and multifield intensity-modulated radiotherapy planning reduce cardiac doses in left-sided breast cancer patients with unfavorable cardiac anatomy. *Int J Radiat Oncol Biol Phys* 2010;78:104-110.
113. Collen C, Engels B, Duchateau M, *et al.* Volumetric imaging by megavoltage computed tomography for assessment of internal organ motion during radiotherapy for cervical cancer. *Int J Radiat Oncol Biol Phys* 2010;77:1590-1595.
114. Clark BG, Brown RJ, Ploquin JL, *et al.* The management of radiation treatment error through incident learning. *Radiother Oncol* 2010;95:344-349.
115. Chi KH, Liao CS, Chang CC, *et al.* Angiogenic blockade and radiotherapy in hepatocellular carcinoma. *Int J Radiat Oncol Biol Phys* 2010;78:188-193.
116. Chi A, Liao Z, Nguyen NP, *et al.* Systemic review of the patterns of failure following stereotactic body radiation therapy in early-stage non-small-cell lung cancer: clinical implications. *Radiother Oncol* 2010;94:1-11.
117. Chen MF, Chen WC, Lai CH, *et al.* Predictive factors of radiation-induced skin toxicity in breast cancer patients. *BMC Cancer* 2010;10:508.
118. Chen M, Lu W. Generalized equivalent field size for nonuniform fluence maps in IMRT dose calculation. *Med Phys* 2010;38:449-454.
119. Chen AM, Sreeraman R, Mathai M, *et al.* Potential of helical tomotherapy to reduce dose to the ocular structures for patients treated for unresectable sinonasal cancer. *Am J Clin Oncol* 2010;33:595-598.
120. Chen AM, Lee NY, Yang CC, *et al.* Comparison of intensity-modulated radiotherapy using helical tomotherapy and segmental multileaf collimator-based techniques for nasopharyngeal carcinoma: dosimetric analysis incorporating quality assurance guidelines from RTOG 0225. *Technol Cancer Res Treat* 2010;9:291-298.
121. Chen AM, Farwell DG, Luu Q, *et al.* Prospective trial of high-dose reirradiation using daily image guidance with intensity-modulated radiotherapy for recurrent and second primary head-and-neck cancer. *Int J Radiat Oncol Biol Phys* 2010;80:669-676.
122. Chatterjee S, Mott JH, Dickson S, *et al.* Extensive basal cell carcinoma of the forehead and anterior scalp: use of helical tomotherapy as a radiotherapy treatment modality. *Br J Radiol* 2010;83:538-540.
123. Chang AJ, Richardson S, Grigsby PW, *et al.* Split-Field Helical Tomotherapy With or Without Chemotherapy for Definitive Treatment of Cervical Cancer. *Int J Radiat Oncol Biol Phys* 2010.
124. Ceberg C, Johnsson S, Lind M, *et al.* Prediction of stopping-power ratios in flattening-filter free beams. *Med Phys* 2010;37:1164-1168.

125. Castadot P, Lee JA, Geets X, *et al.* Adaptive radiotherapy of head and neck cancer. *Semin Radiat Oncol* 2010;20:84-93.
126. Castadot P, Geets X, Lee JA, *et al.* Assessment by a deformable registration method of the volumetric and positional changes of target volumes and organs at risk in pharyngo-laryngeal tumors treated with concomitant chemo-radiation. *Radiother Oncol* 2010;95:209-217.
127. Cai BN, Feng LC, Ma L. Response to "Standard and nonstandard craniospinal radiotherapy using helical tomotherapy." (*Int J Radiat Oncol Biol Phys* 2010;77:926-931). *Int J Radiat Oncol Biol Phys* 2010;78:1280; author reply 1280.
128. Burnet NG, Adams EJ, Fairfoul J, *et al.* Practical aspects of implementation of helical tomotherapy for intensity-modulated and image-guided radiotherapy. *Clin Oncol (R Coll Radiol)* 2010;22:294-312.
129. Broggi S, Fiorino C, Dell'Oca I, *et al.* A two-variable linear model of parotid shrinkage during IMRT for head and neck cancer. *Radiother Oncol* 2010;94:206-212.
130. Bral S, Duchateau M, Versmessen H, *et al.* Toxicity report of a phase 1/2 dose-escalation study in patients with inoperable, locally advanced nonsmall cell lung cancer with helical tomotherapy and concurrent chemotherapy. *Cancer* 2010;116:241-250.
131. Bral S, Duchateau M, Versmessen H, *et al.* Toxicity and outcome results of a class solution with moderately hypofractionated radiotherapy in inoperable Stage III non-small cell lung cancer using helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2010;77:1352-1359.
132. Bral S, De Ridder M, Duchateau M, *et al.* Daily megavoltage computed tomography in lung cancer radiotherapy: correlation between volumetric changes and local outcome. *Int J Radiat Oncol Biol Phys* 2010;80:1338-1342.
133. Bennett BR, Lamba MA, Elson HR. Analysis of peripheral doses for base of tongue treatment by linear accelerator and helical TomoTherapy IMRT. *J Appl Clin Med Phys* 2010;11:3136.
134. Beldjoudi G, Yartsev S, Bauman G, *et al.* Schedule for CT image guidance in treating prostate cancer with helical tomotherapy. *Br J Radiol* 2010;83:241-251.
135. Bahm J, Montgomery L. Treatment planning protocols: a method to improve consistency in IMRT planning. *Med Dosim* 2010;36:117-118.
136. Avanzo M, Stancanello J, Franchin G, *et al.* Correlation of a hypoxia based tumor control model with observed local control rates in nasopharyngeal carcinoma treated with chemoradiotherapy. *Med Phys* 2010;37:1533-1544.
137. Ashenafi M, Boyd RA, Lee TK, *et al.* Feasibility of postmastectomy treatment with helical TomoTherapy. *Int J Radiat Oncol Biol Phys* 2010;77:836-842.
138. Alongi F, Schipani S, Gajate AM, *et al.* [¹¹C]choline-PET-guided helical tomotherapy and estramustine in a patient with pelvic-recurrent prostate cancer: local control and toxicity profile after 24 months. *Tumori* 2010;96:613-617.
139. Alongi F, Bolognesi A, Gajate AM, *et al.* Inflammatory pseudotumor of mediastinum treated with tomotherapy and monitored with FDG-PET/CT: case report and literature review. *Tumori* 2010;96:322-326.
140. Abdel-Wahab M, Rengan R, Curran B, *et al.* Integrating the healthcare enterprise in radiation oncology plug and play--the future of radiation oncology? *Int J Radiat Oncol Biol Phys* 2010;76:333-336.

2009 (378 total)

1. Zibold F, Sterzing F, Sroka-Perez G, *et al.* Surface dose in the treatment of breast cancer with helical tomotherapy. *Strahlenther Onkol* 2009;185:574-581.

2. Zhuang AH, Liu A, Schultheiss TE, *et al.* Statistical validation of a new helical tomotherapy patient transfer station. *J Appl Clin Med Phys* 2009;10:3060.
3. Yang W, Van Ausdal R, Read P, *et al.* The implication of non-cyclic intrafractional longitudinal motion in SBRT by TomoTherapy. *Phys Med Biol* 2009;54:2875-2884.
4. Yang W, Van Ausdal R, Read P, *et al.* The implication of non-cyclic intrafractional longitudinal motion in SBRT by TomoTherapy. *Phys Med Biol* 2009;54:2875-2884.
5. Yang RJ, Xu SP, Jiang WJ, *et al.* [Dosimetric comparison between helical tomotherapy and step-and-shoot intensity modulated radiation therapy for endometrial carcinoma]. *Ai Zheng* 2009;28:1121-1126.
6. Yang R, Xu S, Jiang W, *et al.* Integral dose in three-dimensional conformal radiotherapy, intensity-modulated radiotherapy and helical tomotherapy. *Clin Oncol (R Coll Radiol)* 2009;21:706-712.
7. Yang D, Chaudhari SR, Goddu SM, *et al.* Deformable registration of abdominal kilovoltage treatment planning CT and tomotherapy daily megavoltage CT for treatment adaptation. *Med Phys* 2009;36:329-338.
8. Wong JY, Rosenthal J, Liu A, *et al.* Image-guided total-marrow irradiation using helical tomotherapy in patients with multiple myeloma and acute leukemia undergoing hematopoietic cell transplantation. *Int J Radiat Oncol Biol Phys* 2009;73:273-279.
9. Wiezorek T, Schwahofer A, Schubert K. The influence of different IMRT techniques on the peripheral dose: a comparison between sMLM-IMRT and helical tomotherapy. *Strahlenther Onkol* 2009;185:696-702.
10. Westerly DC, Soisson E, Chen Q, *et al.* Treatment planning to improve delivery accuracy and patient throughput in helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2009;74:1290-1297.
11. Welsh JS. Clinical, technical, and basic science progress in helical tomotherapy--the pace continues to accelerate. *Technol Cancer Res Treat* 2009;8:1-2.
12. Wagner TH, Langen KM, Meeks SL, *et al.* Megavoltage computed tomography image-based low-dose rate intracavitary brachytherapy planning for cervical carcinoma. *Technol Cancer Res Treat* 2009;8:123-130.
13. Varadhan R, Hui SK, Way S, *et al.* Assessing prostate, bladder and rectal doses during image guided radiation therapy--need for plan adaptation? *J Appl Clin Med Phys* 2009;10:2883.
14. Van de Vondel I, Tournel K, Verellen D, *et al.* A diagnostic tool for basic daily quality assurance of a Tomotherapy Hi*Art machine. *J Appl Clin Med Phys* 2009;10:2972.
15. Ulrich S, Sterzing F, Nill S, *et al.* Comparison of arc-modulated cone beam therapy and helical tomotherapy for three different types of cancer. *Med Phys* 2009;36:4702-4710.
16. Trovo M, Drigo A, Dassi A, *et al.* Adaptive radiation therapy in a patient with a massive nodal breast cancer recurrence. *Tumori* 2009;95:550-552.
17. Tomita N, Kodaira T, Tachibana H, *et al.* A comparison of radiation treatment plans using IMRT with helical tomotherapy and 3D conformal radiotherapy for nasal natural killer/T-cell lymphoma. *Br J Radiol* 2009;82:756-763.
18. Swamidas VJ, Mahantshetty U, Vineeta G, *et al.* Treatment planning of epithelial ovarian cancers using helical tomotherapy. *J Appl Clin Med Phys* 2009;10:3003.
19. Su FC, Shi C, Mavroidis P, *et al.* Evaluation on lung cancer patients' adaptive planning of TomoTherapy utilising radiobiological measures and Planned Adaptive module. *J Radiother Pract* 2009;8:185-194.
20. Su FC, Shi C, Mavroidis P, *et al.* Evaluation on lung cancer patients' adaptive planning of TomoTherapy utilising radiobiological measures and Planned Adaptive module. *J Radiother Pract* 2009;8:185-194.

21. Sterzing F, Welzel T, Sroka-Perez G, *et al.* Reirradiation of multiple brain metastases with helical tomotherapy. A multifocal simultaneous integrated boost for eight or more lesions. *Strahlenther Onkol* 2009;185:89-93.
22. Sterzing F, Stoiber EM, Nill S, *et al.* Intensity modulated radiotherapy (IMRT) in the treatment of children and adolescents--a single institution's experience and a review of the literature. *Radiat Oncol* 2009;4:37.
23. Sterzing F, Kalz J, Sroka-Perez G, *et al.* Megavoltage CT in helical tomotherapy - clinical advantages and limitations of special physical characteristics. *Technol Cancer Res Treat* 2009;8:343-352.
24. Sterpin E, Salvat F, Olivera G, *et al.* Monte Carlo evaluation of the convolution/superposition algorithm of Hi-Art tomotherapy in heterogeneous phantoms and clinical cases. *Med Phys* 2009;36:1566-1575.
25. Staton RJ, Langen KM, Kupelian PA, *et al.* Dosimetric effects of rotational output variation and x-ray target degradation on helical tomotherapy plans. *Med Phys* 2009;36:2881-2888.
26. Soukup JW, Lawrence JA, Pinkerton ME, *et al.* Computed tomography-assisted management of a mandibular dentigerous cyst in a dog with a nasal carcinoma. *J Am Vet Med Assoc* 2009;235:710-714.
27. Soisson ET, Sobering G, Lucas D, *et al.* Quality assurance of an image guided intracranial stereotactic positioning system. *Technol Cancer Res Treat* 2009;8:39-49.
28. Shueng PW, Lin SC, Chong NS, *et al.* Total marrow irradiation with helical tomotherapy for bone marrow transplantation of multiple myeloma: first experience in Asia. *Technol Cancer Res Treat* 2009;8:29-38.
29. Sheehan JP, Shaffrey CI, Schlesinger D, *et al.* Radiosurgery in the treatment of spinal metastases: tumor control, survival, and quality of life after helical tomotherapy. *Neurosurgery* 2009;65:1052-1061; discussion 1061-1052.
30. Sharma DS, Gupta T, Jalali R, *et al.* High-precision radiotherapy for craniospinal irradiation: evaluation of three-dimensional conformal radiotherapy, intensity-modulated radiation therapy and helical TomoTherapy. *Br J Radiol* 2009;82:1000-1009.
31. Shah AP, Chen SS, Strauss JB, *et al.* A Dosimetric Analysis Comparing Treatment of Low-Risk Prostate Cancer With TomoTherapy Versus Static Field Intensity Modulated Radiation Therapy. *Am J Clin Oncol* 2009.
32. Sen A, West MK. Commissioning experience and quality assurance of helical tomotherapy machines. *J Med Phys* 2009;34:194-199.
33. Schubert LK, Westerly DC, Tome WA, *et al.* A comprehensive assessment by tumor site of patient setup using daily MVCT imaging from more than 3,800 helical tomotherapy treatments. *Int J Radiat Oncol Biol Phys* 2009;73:1260-1269.
34. Sarkar V, Shi C, Rassiah-Szegedi P, *et al.* The effect of a limited number of projections and reconstruction algorithms on the image quality of megavoltage digital tomosynthesis. *J Appl Clin Med Phys* 2009;10:2970.
35. Samant RS, Fox GW, Gerig LH, *et al.* Total scalp radiation using image-guided IMRT for progressive cutaneous T cell lymphoma. *Br J Radiol* 2009;82:e122-125.
36. Ryan D, Rivest C, Riauka TA, *et al.* Prostate positioning errors associated with two automatic registration based image guidance strategies. *J Appl Clin Med Phys* 2009;10:3071.
37. Reynders T, Tournel K, De Coninck P, *et al.* Dosimetric assessment of static and helical TomoTherapy in the clinical implementation of breast cancer treatments. *Radiother Oncol* 2009;93:71-79.
38. Renaud J, Yartsev S, Dar AR, *et al.* Successful treatment of primary renal lymphoma using image guided helical tomotherapy. *Can J Urol* 2009;16:4639-4647.

39. Renaud J, Yartsev S, Dar AR, *et al.* Adaptive radiation therapy for localized mesothelioma with mediastinal metastasis using helical tomotherapy. *Med Dosim* 2009;34:233-242.
40. Perna L, Fiorino C, Cozzarini C, *et al.* Sparing the penile bulb in the radical irradiation of clinically localised prostate carcinoma: A comparison between MRI and CT prostatic apex definition in 3DCRT, Linac-IMRT and Helical Tomotherapy. *Radiother Oncol* 2009;93:57-63.
41. Penagaricano J, Moros E, Corry P, *et al.* Pediatric craniospinal axis irradiation with helical tomotherapy: patient outcome and lack of acute pulmonary toxicity. *Int J Radiat Oncol Biol Phys* 2009;75:1155-1161.
42. Pelagade SM, Paliwal BR. Verification of tomotherapy dose delivery. *J Med Phys* 2009;34:188-190.
43. Oliver M, Ansbacher W, Beckham WA. Comparing planning time, delivery time and plan quality for IMRT, RapidArc and Tomotherapy. *J Appl Clin Med Phys* 2009;10:3068.
44. O'Donnell H, Cooke K, Walsh N, *et al.* Early experience of tomotherapy-based intensity-modulated radiotherapy for breast cancer treatment. *Clin Oncol (R Coll Radiol)* 2009;21:294-301.
45. Ngwa W, Meeks SL, Kupelian PA, *et al.* Validation of a computational method for assessing the impact of intra-fraction motion on helical tomotherapy plans. *Phys Med Biol* 2009;54:6611-6621.
46. Motta M, Alongi F, De Martin E, *et al.* Helical tomotherapy for scalp recurrence of primary eccrine mucinous adenocarcinoma. *Tumori* 2009;95:832-835.
47. Mihailidis DN, Harmon M. Tomotherapy versus conventional planning for left-sided breast cancer with lymph nodes-dosimetric comparison: in regard to Goddu *et al.* (*Int J Radiat Oncol Biol Phys* 2009;73:1243-1251). *Int J Radiat Oncol Biol Phys* 2009;75:317; author reply 317-318.
48. Mehta M, Hoban P, Mackie TR. Commissioning and quality assurance of RapidArc radiotherapy delivery system: in regard to Ling *et al.* (*Int J Radiat Oncol Biol Phys* 2008;72;575-581): Absence of data does not constitute proof; the proof is in tasting the pudding. *Int J Radiat Oncol Biol Phys* 2009;75:4-6; discussion 8-9.
49. McIntosh A, Hagspiel KD, Al-Osaimi AM, *et al.* Accelerated treatment using intensity-modulated radiation therapy plus concurrent capecitabine for unresectable hepatocellular carcinoma. *Cancer* 2009;115:5117-5125.
50. Mavroidis P, Stathakis S, Gutierrez A, *et al.* Expected clinical impact of the differences between planned and delivered dose distributions in helical tomotherapy for treating head and neck cancer using helical megavoltage CT images. *J Appl Clin Med Phys* 2009;10:2969.
51. Mavroidis P, Ferreira BC, Shi C, *et al.* Comparison of the helical tomotherapy and MLC-based IMRT radiation modalities in treating brain and cranio-spinal tumors. *Technol Cancer Res Treat* 2009;8:3-14.
52. Mackenzie MA, Zhao Y, Kirkby C, *et al.* Comment on "Monte Carlo evaluation of the convolution/superposition algorithm of Hi-Art tomotherapy in heterogeneous phantoms and clinical cases" [*Med. Phys.* 36, 1566-1575 (2009)]. *Med Phys* 2009;36:3856; author reply 3857.
53. Lu W, Chen M, Ruchala KJ, *et al.* Real-time motion-adaptive-optimization (MAO) in TomoTherapy. *Phys Med Biol* 2009;54:4373-4398.
54. Lin L, Shi C, Eng T, *et al.* Evaluation of inter-fractional setup shifts for site-specific helical tomotherapy treatments. *Technol Cancer Res Treat* 2009;8:115-122.
55. Lee IJ, Seong J, Lee CG, *et al.* Early clinical experience and outcome of helical tomotherapy for multiple metastatic lesions. *Int J Radiat Oncol Biol Phys* 2009;73:1517-1524.
56. Langen KM, Lu W, Willoughby TR, *et al.* Dosimetric effect of prostate motion during helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2009;74:1134-1142.

57. Kodaira T, Tomita N, Tachibana H, *et al.* Aichi cancer center initial experience of intensity modulated radiation therapy for nasopharyngeal cancer using helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2009;73:1129-1134.
58. Kinhikar RA, Pai R, Master Z, *et al.* Characterization of metal oxide field-effect transistors for first helical tomotherapy Hi-Art II unit in India. *J Cancer Res Ther* 2009;5:284-289.
59. Kinhikar RA, Murthy V, Goel V, *et al.* Skin dose measurements using MOSFET and TLD for head and neck patients treated with tomotherapy. *Appl Radiat Isot* 2009;67:1683-1685.
60. Kinhikar RA, Master Z, Dhote DS, *et al.* Initial dosimetric experience with mega voltage computed tomography detectors and estimation of pre and post-repair dosimetric parameters of a first Helical Hi-Art II tomotherapy machine in India. *J Med Phys* 2009;34:73-79.
61. Kinhikar RA, Jamema SV, Reenadevi, *et al.* Dosimetric validation of first helical tomotherapy Hi-Art II machine in India. *J Med Phys* 2009;34:23-30.
62. Kim YB, Kim JH, Jeong KK, *et al.* Dosimetric comparisons of three-dimensional conformal radiotherapy, intensity-modulated radiotherapy, and helical tomotherapy in whole abdominopelvic radiotherapy for gynecologic malignancy. *Technol Cancer Res Treat* 2009;8:369-377.
63. Kim S, Lee IJ, Kim YB, *et al.* A comparison of treatment plans using linac-based intensity-modulated radiation therapy and helical tomotherapy for maxillary sinus carcinoma. *Technol Cancer Res Treat* 2009;8:257-263.
64. Kim JY, Kay CS, Kim YS, *et al.* Helical tomotherapy for simultaneous multitarget radiotherapy for pulmonary metastasis. *Int J Radiat Oncol Biol Phys* 2009;75:703-710.
65. Kim B, Chen J, Kron T, *et al.* Motion-induced dose artifacts in helical tomotherapy. *Phys Med Biol* 2009;54:5707-5734.
66. Kalz J, Sterzing F, Schubert K, *et al.* Dosimetric comparison of image guidance by megavoltage computed tomography versus bone alignment for prostate cancer radiotherapy. *Strahlenther Onkol* 2009;185:241-247.
67. Kainz K, White J, Herman J, *et al.* Investigation of helical tomotherapy for partial-breast irradiation of prone-positioned patients. *Int J Radiat Oncol Biol Phys* 2009;74:275-282.
68. Ji YH, Kim MS, Jung H, *et al.* Clinical characteristics of radiation oncology in Korea during past 10 years. *J Korean Med Sci* 2009;24:1165-1169.
69. Jhaveri PM, Teh BS, Paulino AC, *et al.* Helical tomotherapy significantly reduces dose to normal tissues when compared to 3D-CRT for locally advanced rectal cancer. *Technol Cancer Res Treat* 2009;8:379-385.
70. Jha N, Seikaly H, Harris J, *et al.* Phase III randomized study: oral pilocarpine versus submandibular salivary gland transfer protocol for the management of radiation-induced xerostomia. *Head Neck* 2009;31:234-243.
71. Javedan K, Zhang G, Mueller R, *et al.* Skin dose study of chest wall treatment with tomotherapy. *Jpn J Radiol* 2009;27:355-362.
72. Jang JW, Kay CS, You CR, *et al.* Simultaneous multitarget irradiation using helical tomotherapy for advanced hepatocellular carcinoma with multiple extrahepatic metastases. *Int J Radiat Oncol Biol Phys* 2009;74:412-418.
73. Hui SK, Verneris MR, Froelich J, *et al.* Multimodality image guided total marrow irradiation and verification of the dose delivered to the lung, PTV, and thoracic bone in a patient: a case study. *Technol Cancer Res Treat* 2009;8:23-28.
74. Hsieh CH, Wei MC, Lee HY, *et al.* Whole pelvic helical tomotherapy for locally advanced cervical cancer: technical implementation of IMRT with helical tomotherapy. *Radiat Oncol* 2009;4:62.

75. Houghton F, Benson RJ, Tudor GS, *et al.* An assessment of action levels in imaging strategies in head and neck cancer using TomoTherapy. Are our margins adequate in the absence of image guidance? *Clin Oncol (R Coll Radiol)* 2009;21:720-727.
76. Holly R, Myrehaug S, Kamran A, *et al.* High-dose-rate prostate brachytherapy in a patient with bilateral hip prostheses planned using megavoltage computed tomography images acquired with a helical tomotherapy unit. *Brachytherapy* 2009;8:70-73.
77. Hermesse J, Biver S, Jansen N, *et al.* A dosimetric selectivity intercomparison of HDR brachytherapy, IMRT and helical tomotherapy in prostate cancer radiotherapy. *Strahlenther Onkol* 2009;185:736-742.
78. Hardcastle N, Metcalfe PE, Rosenfeld AB, *et al.* Endo-rectal balloon cavity dosimetry in a phantom: performance under IMRT and helical tomotherapy beams. *Radiother Oncol* 2009;92:48-56.
79. Gupta T, Basu A, Master Z, *et al.* Planning and delivery of whole brain radiation therapy with simultaneous integrated boost to brain metastases and synchronous limited-field thoracic radiotherapy using helical tomotherapy: a preliminary experience. *Technol Cancer Res Treat* 2009;8:15-22.
80. Goddu SM, Yaddanapudi S, Pechenaya OL, *et al.* Dosimetric consequences of uncorrected setup errors in helical Tomotherapy treatments of breast-cancer patients. *Radiother Oncol* 2009;93:64-70.
81. Goddu SM, Mutic S, Pechenaya OL, *et al.* Enhanced efficiency in helical tomotherapy quality assurance using a custom-designed water-equivalent phantom. *Phys Med Biol* 2009;54:5663-5674.
82. Goddu SM, Chaudhari S, Mamalui-Hunter M, *et al.* Helical tomotherapy planning for left-sided breast cancer patients with positive lymph nodes: comparison to conventional multiport breast technique. *Int J Radiat Oncol Biol Phys* 2009;73:1243-1251.
83. Gibbons JP, Smith K, Cheek D, *et al.* Independent calculation of dose from a helical TomoTherapy unit. *J Appl Clin Med Phys* 2009;10:2772.
84. Geurts M, Gonzalez J, Serrano-Ojeda P. Longitudinal study using a diode phantom for helical tomotherapy IMRT QA. *Med Phys* 2009;36:4977-4983.
85. Francois P, Mazal A. Static and rotational output variation of a tomotherapy unit. *Med Phys* 2009;36:816-820.
86. Fournier-Bidoz N, Kirova Y, Campana F, *et al.* Technique alternatives for breast radiation oncology: Conventional radiation therapy to tomotherapy. *J Med Phys* 2009;34:149-152.
87. Fogliata A, Yartsev S, Nicolini G, *et al.* On the performances of Intensity Modulated Protons, RapidArc and Helical Tomotherapy for selected paediatric cases. *Radiat Oncol* 2009;4:2.
88. Fiorino C, Alongi F, Perna L, *et al.* Dose-volume relationships for acute bowel toxicity in patients treated with pelvic nodal irradiation for prostate cancer. *Int J Radiat Oncol Biol Phys* 2009;75:29-35.
89. Engels B, Tournel K, Soete G, *et al.* Assessment of rectal distention in radiotherapy of prostate cancer using daily megavoltage CT image guidance. *Radiother Oncol* 2009;90:377-381.
90. Engels B, Soete G, Tournel K, *et al.* Helical tomotherapy with simultaneous integrated boost for high-risk and lymph node-positive prostate cancer: early report on acute and late toxicity. *Technol Cancer Res Treat* 2009;8:353-359.
91. Engels B, De Ridder M, Tournel K, *et al.* Preoperative helical tomotherapy and megavoltage computed tomography for rectal cancer: impact on the irradiated volume of small bowel. *Int J Radiat Oncol Biol Phys* 2009;74:1476-1480.

92. Di Muzio N, Fiorino C, Cozzarini C, *et al.* Phase I-II study of hypofractionated simultaneous integrated boost with tomotherapy for prostate cancer. *Int J Radiat Oncol Biol Phys* 2009;74:392-398.
93. Corvo R. [Helical tomotherapy in oncology: new indications and innovative potentials with advanced radiotherapy technology]. *Recenti Prog Med* 2009;100:535-540.
94. Corvo R. [Helical tomotherapy in oncology: new indications and innovative potentials with advanced radiotherapy technology]. *Recenti Prog Med* 2009;100:535-540.
95. Corvo R. [Helical tomotherapy in oncology: new indications and innovative potentials with advanced radiotherapy technology]. *Recenti Prog Med* 2009;100:535-540.
96. Chen AM, Jennelle RL, Sreeraman R, *et al.* Initial clinical experience with helical tomotherapy for head and neck cancer. *Head Neck* 2009;31:1571-1578.
97. Chawla S, Abu-Aita R, Philip A, *et al.* Stereotactic radiosurgery for spinal metastases: case report and review of treatment options. *Bone* 2009;45:817-821.
98. Chaudhari SR, Pechenaya OL, Goddu SM, *et al.* The validation of tomotherapy dose calculations in low-density lung media. *Phys Med Biol* 2009;54:2315-2322.
99. Chaudhari SR, Goddu SM, Rangaraj D, *et al.* Dosimetric variances anticipated from breathing-induced tumor motion during tomotherapy treatment delivery. *Phys Med Biol* 2009;54:2541-2555.
100. Chargari C, Zefkili S, Kirova YM. Potential of helical tomotherapy for sparing critical organs in a patient with AIDS who was treated for Hodgkin lymphoma. *Clin Infect Dis* 2009;48:687-689.
101. Chargari C, Kirova YM, Zefkili S, *et al.* Solitary plasmocytoma: improvement in critical organs sparing by means of helical tomotherapy. *Eur J Haematol* 2009;83:66-71.
102. Chargari C, Kirova YM, Zefkili S, *et al.* Improve the management of patients with skull bone metastases by means of helical tomotherapy. *Support Care Cancer* 2009;17:613-615.
103. Chargari C, Campana F, Beuzebec P, *et al.* Preliminary experience of helical tomotherapy for locally advanced pancreatic cancer. *World J Gastroenterol* 2009;15:4444-4445.
104. Caudrelier JM, Morgan SC, Montgomery L, *et al.* Helical tomotherapy for locoregional irradiation including the internal mammary chain in left-sided breast cancer: dosimetric evaluation. *Radiother Oncol* 2009;90:99-105.
105. Broggi S, Cozzarini C, Fiorino C, *et al.* Modeling set-up error by daily MVCT for prostate adjuvant treatment delivered in 20 fractions: Implications for the assessment of the optimal correction strategies. *Radiother Oncol* 2009;93:246-252.
106. Bral S, Duchateau M, De Ridder M, *et al.* Volumetric response analysis during chemoradiation as predictive tool for optimizing treatment strategy in locally advanced unresectable NSCLC. *Radiother Oncol* 2009;91:438-442.
107. Bortfeld T, Webb S. Single-Arc IMRT? *Phys Med Biol* 2009;54:N9-20.
108. Bailat CJ, Buchillier T, Pachoud M, *et al.* An absolute dose determination of helical tomotherapy accelerator, TomoTherapy High-Art II. *Med Phys* 2009;36:3891-3896.
109. Alvarez Moret J, Kolbl O, Bogner L. Quasi-IMAT study with conventional equipment to show high plan quality with a single gantry arc. *Strahlenther Onkol* 2009;185:41-48.
110. Alongi F, Fiorino C, Cozzarini C, *et al.* IMRT significantly reduces acute toxicity of whole-pelvis irradiation in patients treated with post-operative adjuvant or salvage radiotherapy after radical prostatectomy. *Radiother Oncol* 2009;93:207-212.

1. Zhao YL, Mackenzie M, Kirkby C, *et al.* Monte Carlo calculation of helical tomotherapy dose delivery. *Med Phys* 2008;35:3491-3500.
2. Yuen J, Rodrigues G, Trenka K, *et al.* Comparing two strategies of dynamic intensity modulated radiation therapy (dIMRT) with 3-dimensional conformal radiation therapy (3DCRT) in the hypofractionated treatment of high-risk prostate cancer. *Radiat Oncol* 2008;3:1.
3. Woodford C, Yartsev S, Van Dyk J. Image registration of a moving target phantom with helical tomotherapy: effect of the CT acquisition technique and action level proposal. *Phys Med Biol* 2008;53:5093-5106.
4. Widesott L, Pierelli A, Fiorino C, *et al.* Intensity-modulated proton therapy versus helical tomotherapy in nasopharynx cancer: planning comparison and NTCP evaluation. *Int J Radiat Oncol Biol Phys* 2008;72:589-596.
5. Whitelaw GL, Blasiak-Wal I, Cooke K, *et al.* A dosimetric comparison between two intensity-modulated radiotherapy techniques: tomotherapy vs dynamic linear accelerator. *Br J Radiol* 2008;81:333-340.
6. Welsh JS. Helical tomotherapy: a fascinating technological concept that has matured into clinical reality. *Technol Cancer Res Treat* 2008;7:415-416.
7. Voordeckers M, Everaert H, Tournel K, *et al.* Longitudinal assessment of parotid function in patients receiving tomotherapy for head-and-neck cancer. *Strahlenther Onkol* 2008;184:400-405.
8. Verellen D, De Ridder M, Storme G. A (short) history of image-guided radiotherapy. *Radiother Oncol* 2008;86:4-13.
9. Van Dyk J. Quality assurance of radiation therapy planning systems: current status and remaining challenges. *Int J Radiat Oncol Biol Phys* 2008;71:S23-27.
10. Tournel K, De Ridder M, Engels B, *et al.* Assessment of intrafractional movement and internal motion in radiotherapy of rectal cancer using megavoltage computed tomography. *Int J Radiat Oncol Biol Phys* 2008;71:934-939.
11. Tomita N, Kodaira T, Tachibana H, *et al.* Helical tomotherapy for brain metastases: dosimetric evaluation of treatment plans and early clinical results. *Technol Cancer Res Treat* 2008;7:417-424.
12. Thorwarth D, Soukup M, Alber M. Dose painting with IMPT, helical tomotherapy and IMXT: a dosimetric comparison. *Radiother Oncol* 2008;86:30-34.
13. Su FC, Shi C, Crownover R, *et al.* Dosimetric impacts of gantry angle misalignment on prostate cancer treatment using helical tomotherapy. *Technol Cancer Res Treat* 2008;7:287-293.
14. Stutzel J, Oelfke U, Nill S. A quantitative image quality comparison of four different image guided radiotherapy devices. *Radiother Oncol* 2008;86:20-24.
15. Sterzing F, Sroka-Perez G, Schubert K, *et al.* Evaluating target coverage and normal tissue sparing in the adjuvant radiotherapy of malignant pleural mesothelioma: helical tomotherapy compared with step-and-shoot IMRT. *Radiother Oncol* 2008;86:251-257.
16. Sterzing F, Schubert K, Sroka-Perez G, *et al.* Helical tomotherapy. Experiences of the first 150 patients in Heidelberg. *Strahlenther Onkol* 2008;184:8-14.
17. Sterpin E, Salvat F, Cravens R, *et al.* Monte Carlo simulation of helical tomotherapy with PENELOPE. *Phys Med Biol* 2008;53:2161-2180.
18. Smith KS, Gibbons JP, Gerbi BJ, *et al.* Measurement of superficial dose from a static tomotherapy beam. *Med Phys* 2008;35:769-774.
19. Shi C, Penagaricano J, Papanikolaou N. Comparison of IMRT treatment plans between linac and helical tomotherapy based on integral dose and inhomogeneity index. *Med Dosim* 2008;33:215-221.

20. Sheng K, Chow MC, Hunter G, *et al.* Is daily CT image guidance necessary for nasal cavity and nasopharyngeal radiotherapy: an investigation based on helical tomotherapy. *J Appl Clin Med Phys* 2008;9:2686.
21. Sheehan JP, Jagannathan J. Review of spinal radiosurgery: a minimally invasive approach for the treatment of spinal and paraspinal metastases. *Neurosurg Focus* 2008;25:E18.
22. Shah AP, Langen KM, Ruchala KJ, *et al.* Patient dose from megavoltage computed tomography imaging. *Int J Radiat Oncol Biol Phys* 2008;70:1579-1587.
23. Schirm M, Yartsev S, Bauman G, *et al.* Consistency check of planned adaptive option on helical tomotherapy. *Technol Cancer Res Treat* 2008;7:425-432.
24. Saw CB, Wagner H, Jr. Focal irradiation and image fusion techniques (IGRT)--Part IV. *Med Dosim* 2008;33:105-106.
25. Santanam L, Esthappan J, Mutic S, *et al.* Estimation of setup uncertainty using planar and MVCT imaging for gynecologic malignancies. *Int J Radiat Oncol Biol Phys* 2008;71:1511-1517.
26. Saibishkumar EP, MacKenzie MA, Severin D, *et al.* Skin-sparing radiation using intensity-modulated radiotherapy after conservative surgery in early-stage breast cancer: a planning study. *Int J Radiat Oncol Biol Phys* 2008;70:485-491.
27. Rong Y, Fahner T, Welsh JS. Hypofractionated breast and chest wall irradiation using simultaneous in-field boost IMRT delivered via helical tomotherapy. *Technol Cancer Res Treat* 2008;7:433-439.
28. Roland TF, Stathakis S, Ramer R, *et al.* Measurement and comparison of skin dose for prostate and head-and-neck patients treated on various IMRT delivery systems. *Appl Radiat Isot* 2008;66:1844-1849.
29. Rodrigues G, Yartsev S, Coad T, *et al.* Novel application of helical tomotherapy in whole skull palliative radiotherapy. *Med Dosim* 2008;33:282-285.
30. Rochet N, Sterzing F, Jensen A, *et al.* Helical tomotherapy as a new treatment technique for whole abdominal irradiation. *Strahlenther Onkol* 2008;184:145-149.
31. Plowman PN, Cooke K, Walsh N. Indications for tomotherapy/intensity-modulated radiation therapy in paediatric radiotherapy: extracranial disease. *Br J Radiol* 2008;81:872-880.
32. Peng C, Kainz K, Lawton C, *et al.* A comparison of daily megavoltage CT and ultrasound image guided radiation therapy for prostate cancer. *Med Phys* 2008;35:5619-5628.
33. Penagaricano JA, Moros E, Novak P, *et al.* Feasibility of concurrent treatment with the scanning ultrasound reflector linear array system (SURLAS) and the helical tomotherapy system. *Int J Hyperthermia* 2008;24:377-388.
34. O'Donnell HE, Finnegan K, Eliades H, *et al.* Re-defining rectal volume and DVH for analysis of rectal morbidity risk after radiotherapy for early prostate cancer. *Br J Radiol* 2008;81:327-332.
35. Novak P, Penagaricano JA, Nahirnyak V, *et al.* Influence of the SURLAS applicator on radiation dose distributions during simultaneous thermoradiotherapy with helical tomotherapy. *Phys Med Biol* 2008;53:2509-2522.
36. Newhauser WD, Giebeler A, Langen KM, *et al.* Can megavoltage computed tomography reduce proton range uncertainties in treatment plans for patients with large metal implants? *Phys Med Biol* 2008;53:2327-2344.
37. Muzik J, Soukup M, Alber M. Comparison of fixed-beam IMRT, helical tomotherapy, and IMPT for selected cases. *Med Phys* 2008;35:1580-1592.
38. Murphy S, Gutierrez A, Lawrence J, *et al.* Laparoscopically implanted tissue expander radiotherapy in canine transitional cell carcinoma. *Vet Radiol Ultrasound* 2008;49:400-405.
39. Montgomery L, Macpherson M, Gerig L, *et al.* Simultaneous treatment of multiple basal cell carcinoma lesions. *Br J Radiol* 2008;81:e290-292.

40. Moeckly SR, Lamba M, Elson HR. Respiratory motion effects on whole breast helical tomotherapy. *Med Phys* 2008;35:1464-1475.
41. Miwa K, Matsuo M, Shinoda J, *et al.* Simultaneous integrated boost technique by helical tomotherapy for the treatment of glioblastoma multiforme with 11C-methionine PET: report of three cases. *J Neurooncol* 2008;87:333-339.
42. McIntosh A, Read PW, Khandelwal SR, *et al.* Evaluation of coplanar partial left breast irradiation using tomotherapy-based tomotherapy. *Int J Radiat Oncol Biol Phys* 2008;71:603-610.
43. Mavroidis P, Costa Ferreira B, Shi C, *et al.* Comparison of the 3D-conformal, helical tomotherapy and multileaf collimators-based intensity modulated radiotherapy modalities using radiobiological measures. *J Buon* 2008;13:75-86.
44. MacPherson M, Montgomery L, Fox G, *et al.* On-line rapid palliation using helical tomotherapy: a prospective feasibility study. *Radiother Oncol* 2008;87:116-118.
45. Lu W, Chen M, Chen Q, *et al.* Adaptive fractionation therapy: I. Basic concept and strategy. *Phys Med Biol* 2008;53:5495-5511.
46. Lu W. Real-time motion-adaptive delivery (MAD) using binary MLC: II. Rotational beam (tomotherapy) delivery. *Phys Med Biol* 2008;53:6491-6511.
47. Lu W. Real-time motion-adaptive delivery (MAD) using binary MLC: I. Static beam (tomotherapy) delivery. *Phys Med Biol* 2008;53:6491-6511.
48. Lin SH, Sugar E, Teslow T, *et al.* Comparison of daily couch shifts using MVCT (TomoTherapy) and B-mode ultrasound (BAT System) during prostate radiotherapy. *Technol Cancer Res Treat* 2008;7:279-285.
49. Lin SH, Latronico D, Teslow T, *et al.* A highly reproducible bolus immobilization technique for the treatment of scalp malignancies. *Med Dosim* 2008;33:30-35.
50. Lian J, Mackenzie M, Joseph K, *et al.* Assessment of extended-field radiotherapy for stage IIIc endometrial cancer using three-dimensional conformal radiotherapy, intensity-modulated radiotherapy, and helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2008;70:935-943.
51. Lee TK, Rosen, II, Gibbons JP, *et al.* Helical tomotherapy for parotid gland tumors. *Int J Radiat Oncol Biol Phys* 2008;70:883-891.
52. Lee TF, Fang FM, Chao PJ, *et al.* Dosimetric comparisons of helical tomotherapy and step-and-shoot intensity-modulated radiotherapy in nasopharyngeal carcinoma. *Radiother Oncol* 2008;89:89-96.
53. Lee C, Langen KM, Lu W, *et al.* Evaluation of geometric changes of parotid glands during head and neck cancer radiotherapy using daily MVCT and automatic deformable registration. *Radiother Oncol* 2008;89:81-88.
54. Lee C, Langen KM, Lu W, *et al.* Assessment of parotid gland dose changes during head and neck cancer radiotherapy using daily megavoltage computed tomography and deformable image registration. *Int J Radiat Oncol Biol Phys* 2008;71:1563-1571.
55. Langen KM, Lu W, Ngwa W, *et al.* Correlation between dosimetric effect and intrafraction motion during prostate treatments delivered with helical tomotherapy. *Phys Med Biol* 2008;53:7073-7086.
56. Langen KM, Buchholz DJ, Burch DR, *et al.* Investigation of accelerated partial breast patient alignment and treatment with helical tomotherapy unit. *Int J Radiat Oncol Biol Phys* 2008;70:1272-1280.
57. Kupelian PA, Lee C, Langen KM, *et al.* Evaluation of image-guidance strategies in the treatment of localized prostate cancer. *Int J Radiat Oncol Biol Phys* 2008;70:1151-1157.
58. Kunos CA, Dobbins DC, Kulasekera R, *et al.* Comparison of helical tomotherapy versus conventional radiation to deliver craniospinal radiation. *Technol Cancer Res Treat* 2008;7:227-233.

59. Kissick MW, Flynn RT, Westerly DC, *et al.* On the impact of longitudinal breathing motion randomness for tomotherapy delivery. *Phys Med Biol* 2008;53:4855-4873.
60. Kinkhikar RA, Master Z, Deshpande DD. Patient specific dosimetry for intensity-modulated radiotherapy delivered with first helical tomotherapy in India--our initial experience of 50 patients. *Australas Phys Eng Sci Med* 2008;31:139-145.
61. Kinkhikar RA. Multileaf collimator transmission from the first Hi-Art II helical tomotherapy machine in India. *J Cancer Res Ther* 2008;4:88-90.
62. Kim B, Soisson ET, Duma C, *et al.* Image-guided helical Tomotherapy for treatment of spine tumors. *Clin Neurol Neurosurg* 2008;110:357-362.
63. Iori M, Cattaneo GM, Cagni E, *et al.* Dose-volume and biological-model based comparison between helical tomotherapy and (inverse-planned) IMAT for prostate tumours. *Radiother Oncol* 2008;88:34-45.
64. Hsiao Y, Stewart RD, Li XA. A Monte-Carlo derived dual-source model for helical tomotherapy treatment planning. *Technol Cancer Res Treat* 2008;7:141-147.
65. Holmes TW, Hudes R, Dziuba S, *et al.* Stereotactic image-guided intensity modulated radiotherapy using the HI-ART II helical tomotherapy system. *Med Dosim* 2008;33:135-148.
66. Hardcastle N, Soisson E, Metcalfe P, *et al.* Dosimetric verification of helical tomotherapy for total scalp irradiation. *Med Phys* 2008;35:5061-5068.
67. Han C, Chen YJ, Liu A, *et al.* Actual dose variation of parotid glands and spinal cord for nasopharyngeal cancer patients during radiotherapy. *Int J Radiat Oncol Biol Phys* 2008;70:1256-1262.
68. Fogliata A, Clivio A, Nicolini G, *et al.* Intensity modulation with photons for benign intracranial tumours: a planning comparison of volumetric single arc, helical arc and fixed gantry techniques. *Radiother Oncol* 2008;89:254-262.
69. Flynn RT, Kissick MW, Mehta MP, *et al.* The impact of linac output variations on dose distributions in helical tomotherapy. *Phys Med Biol* 2008;53:417-430.
70. Flynn RT, Bowen SR, Bentzen SM, *et al.* Intensity-modulated x-ray (IMXT) versus proton (IMPT) therapy for theragnostic hypoxia-based dose painting. *Phys Med Biol* 2008;53:4153-4167.
71. Donnay L, Dejean C, Amsellem E, *et al.* [Radiotherapy for soft tissue sarcomas of extremities. Preliminary comparative dosimetric study of 3D conformal radiotherapy versus helical tomotherapy]. *Cancer Radiother* 2008;12:809-816.
72. De Ridder M, Tournel K, Van Nieuwenhove Y, *et al.* Phase II study of preoperative helical tomotherapy for rectal cancer. *Int J Radiat Oncol Biol Phys* 2008;70:728-734.
73. Cozzarini C, Fiorino C, Di Muzio N, *et al.* Hypofractionated adjuvant radiotherapy with helical tomotherapy after radical prostatectomy: planning data and toxicity results of a Phase I-II study. *Radiother Oncol* 2008;88:26-33.
74. Clark BG, Candish C, Vollans E, *et al.* Optimization of stereotactic radiotherapy treatment delivery technique for base-of-skull meningiomas. *Med Dosim* 2008;33:239-247.
75. Cherpak A, Studinski RC, Cygler JE. MOSFET detectors in quality assurance of tomotherapy treatments. *Radiother Oncol* 2008;86:242-250.
76. Cheng JC, Schultheiss TE, Nguyen KH, *et al.* Acute toxicity in definitive versus postprostatectomy image-guided radiotherapy for prostate cancer. *Int J Radiat Oncol Biol Phys* 2008;71:351-357.
77. Chen M, Lu W, Chen Q, *et al.* Adaptive fractionation therapy: II. Biological effective dose. *Phys Med Biol* 2008;53:5513-5525.
78. Cheek D, Gibbons JP, Rosen, II, *et al.* Accuracy of TomoTherapy treatments for superficial target volumes. *Med Phys* 2008;35:3565-3573.

79. Cattaneo GM, Dell'oca I, Broggi S, *et al.* Treatment planning comparison between conformal radiotherapy and helical tomotherapy in the case of locally advanced-stage NSCLC. *Radiother Oncol* 2008;88:310-318.
80. Broggi S, Cattaneo GM, Molinelli S, *et al.* Results of a two-year quality control program for a helical tomotherapy unit. *Radiother Oncol* 2008;86:231-241.
81. Bijdekerke P, Verellen D, Tournel K, *et al.* TomoTherapy: implications on daily workload and scheduling patients. *Radiother Oncol* 2008;86:224-230.
82. Bichay T, Cao D, Orton CG. Point/counterpoint. Helical tomotherapy will ultimately replace linear accelerator based IMRT as the best way to deliver conformal radiotherapy. *Med Phys* 2008;35:1625-1628.
83. Beardmore AB, Rosen, II, Cheek DA, *et al.* Evaluation of MVCT images with skin collimation for electron beam treatment planning. *J Appl Clin Med Phys* 2008;9:2773.
84. Bauman G, Woodford C, Yartsev S. Short communication: conformal therapy for peri-ventricular brain tumors: is target volume deformation an issue? *Med Dosim* 2008;33:78-80.
85. Balog J, Soisson E. Helical tomotherapy quality assurance. *Int J Radiat Oncol Biol Phys* 2008;71:S113-117.
86. Alongi F, Di Muzio N, Motta M, *et al.* Adenoid cystic carcinoma of trachea treated with adjuvant hypofractionated tomotherapy. Case report and literature review. *Tumori* 2008;94:121-125.
87. Adkison JB, Khuntia D, Bentzen SM, *et al.* Dose escalated, hypofractionated radiotherapy using helical tomotherapy for inoperable non-small cell lung cancer: preliminary results of a risk-stratified phase I dose escalation study. *Technol Cancer Res Treat* 2008;7:441-447.

2007 (181 total)

1. Zhang T, Lu W, Olivera GH, *et al.* Breathing-synchronized delivery: a potential four-dimensional tomotherapy treatment technique. *Int J Radiat Oncol Biol Phys* 2007;68:1572-1578.
2. Zeidan OA, Langen KM, Meeks SL, *et al.* Evaluation of image-guidance protocols in the treatment of head and neck cancers. *Int J Radiat Oncol Biol Phys* 2007;67:670-677.
3. Yartsev S, Kron T, Van Dyk J. Tomotherapy as a tool in image-guided radiation therapy (IGRT): theoretical and technological aspects. *Biomed Imaging Interv J* 2007;3:e16.
4. Yartsev S, Kron T, Van Dyk J. Tomotherapy as a tool in image-guided radiation therapy (IGRT): current clinical experience and outcomes. *Biomed Imaging Interv J* 2007;3:e17.
5. Yartsev S, Dar A, Woodford C, *et al.* Initial experience in treating lung cancer with helical tomotherapy. *Biomed Imaging Interv J* 2007;3:e2.
6. Woodford C, Yartsev S, Van Dyk J. Optimization of megavoltage CT scan registration settings for brain cancer treatments on tomotherapy. *Phys Med Biol* 2007;52:N185-193.
7. Woodford C, Yartsev S, Van Dyk J. Optimization of megavoltage CT scan registration settings for thoracic cases on helical tomotherapy. *Phys Med Biol* 2007;52:N345-354.
8. Woodford C, Yartsev S, Dar AR, *et al.* Adaptive radiotherapy planning on decreasing gross tumor volumes as seen on megavoltage computed tomography images. *Int J Radiat Oncol Biol Phys* 2007;69:1316-1322.
9. Tournel K, Verellen D, Duchateau M, *et al.* An assessment of the use of skin flashes in helical tomotherapy using phantom and in-vivo dosimetry. *Radiother Oncol* 2007;84:34-39.
10. Tome WA, Jaradat HA, Nelson IA, *et al.* Helical tomotherapy: image guidance and adaptive dose guidance. *Front Radiat Ther Oncol* 2007;40:162-178.
11. Sterzing F, Herfarth K, Debus J. IGRT with helical tomotherapy--effort and benefit in clinical routine. *Strahlenther Onkol* 2007;183 Spec No 2:35-37.

12. Smeenk C, Gaede S, Battista JJ. Delineation of moving targets with slow MVCT scans: implications for adaptive non-gated lung tomotherapy. *Phys Med Biol* 2007;52:1119-1134.
13. Sheng K, Molloy JA, Larner JM, *et al.* A dosimetric comparison of non-coplanar IMRT versus Helical Tomotherapy for nasal cavity and paranasal sinus cancer. *Radiother Oncol* 2007;82:174-178.
14. Seibert RM, Ramsey CR, Hines JW, *et al.* A model for predicting lung cancer response to therapy. *Int J Radiat Oncol Biol Phys* 2007;67:601-609.
15. Seibert RM, Ramsey CR, Garvey DR, *et al.* Verification of helical tomotherapy delivery using autoassociative kernel regression. *Med Phys* 2007;34:3249-3262.
16. Schultheiss TE, Wong J, Liu A, *et al.* Image-guided total marrow and total lymphatic irradiation using helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2007;67:1259-1267.
17. Sarkar V, Lin L, Shi C, *et al.* Quality assurance of the multileaf collimator with helical tomotherapy: design and implementation. *Med Phys* 2007;34:2949-2956.
18. Saibishkumar EP, Jha N, Scrimger RA, *et al.* Sparing the parotid glands and surgically transferred submandibular gland with helical tomotherapy in post-operative radiation of head and neck cancer: a planning study. *Radiother Oncol* 2007;85:98-104.
19. Rochet N, Jensen AD, Sterzing F, *et al.* Adjuvant whole abdominal intensity modulated radiotherapy (IMRT) for high risk stage FIGO III patients with ovarian cancer (OVAR-IMRT-01) - Pilot trial of a phase I/II study: study protocol. *BMC Cancer* 2007;7:227.
20. Ramsey CR, Seibert RM, Robison B, *et al.* Helical tomotherapy superficial dose measurements. *Med Phys* 2007;34:3286-3293.
21. Ramsey CR, Scaperoth D, Seibert R, *et al.* Image-guided helical tomotherapy for localized prostate cancer: technique and initial clinical observations. *J Appl Clin Med Phys* 2007;8:2320.
22. Penagaricano JA, Yan Y, Corry P, *et al.* Retrospective evaluation of pediatric cranio-spinal axis irradiation plans with the Hi-ART tomotherapy system. *Technol Cancer Res Treat* 2007;6:355-360.
23. Patel RR, Becker SJ, Das RK, *et al.* A dosimetric comparison of accelerated partial breast irradiation techniques: multicatheter interstitial brachytherapy, three-dimensional conformal radiotherapy, and supine versus prone helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2007;68:935-942.
24. Pallotta S, Marrazzo L, Bucciolini M. Design and implementation of a water phantom for IMRT, arc therapy, and tomotherapy dose distribution measurements. *Med Phys* 2007;34:3724-3731.
25. Oliver M, Chen J, Wong E, *et al.* A treatment planning study comparing whole breast radiation therapy against conformal, IMRT and tomotherapy for accelerated partial breast irradiation. *Radiother Oncol* 2007;82:317-323.
26. Mavroidis P, Ferreira BC, Shi C, *et al.* Treatment plan comparison between helical tomotherapy and MLC-based IMRT using radiobiological measures. *Phys Med Biol* 2007;52:3817-3836.
27. Li XA, Qi XS, Pitterle M, *et al.* Interfractional variations in patient setup and anatomic change assessed by daily computed tomography. *Int J Radiat Oncol Biol Phys* 2007;68:581-591.
28. Lawrence JA, Forrest LJ. Intensity-modulated radiation therapy and helical tomotherapy: its origin, benefits, and potential applications in veterinary medicine. *Vet Clin North Am Small Anim Pract* 2007;37:1151-1165; vii-iii.
29. Kissick MW, Mackie TR, Jeraj R. A delivery transfer function (DTF) analysis for helical tomotherapy. *Phys Med Biol* 2007;52:2355-2365.
30. Kissick MW, Flynn RT, Westerly DC, *et al.* On the making of sharp longitudinal dose profiles with helical tomotherapy. *Phys Med Biol* 2007;52:6497-6510.
31. Keiler L, Dobbins D, Kulasekera R, *et al.* Tomotherapy for prostate adenocarcinoma: a report on acute toxicity. *Radiother Oncol* 2007;84:171-176.

32. Kanagaki B, Read PW, Molloy JA, *et al.* A motion phantom study on helical tomotherapy: the dosimetric impacts of delivery technique and motion. *Phys Med Biol* 2007;52:243-255.
33. Hui SK, Verneris MR, Higgins P, *et al.* Helical tomotherapy targeting total bone marrow - first clinical experience at the University of Minnesota. *Acta Oncol* 2007;46:250-255.
34. Hong TS, Welsh JS, Ritter MA, *et al.* Megavoltage computed tomography: an emerging tool for image-guided radiotherapy. *Am J Clin Oncol* 2007;30:617-623.
35. Higgins PD, Han EY, Yuan JL, *et al.* Evaluation of surface and superficial dose for head and neck treatments using conventional or intensity-modulated techniques. *Phys Med Biol* 2007;52:1135-1146.
36. Han C, Chen YJ, Liu A, *et al.* Dosimetric study and in-vivo dose verification for conformal avoidance treatment of anal adenocarcinoma using helical tomotherapy. *Med Dosim* 2007;32:33-37.
37. Gutierrez AN, Westerly DC, Tome WA, *et al.* Whole brain radiotherapy with hippocampal avoidance and simultaneously integrated brain metastases boost: a planning study. *Int J Radiat Oncol Biol Phys* 2007;69:589-597.
38. Gutierrez AN, Deveau M, Forrest LJ, *et al.* Radiobiological and treatment planning study of a simultaneously integrated boost for canine nasal tumors using helical tomotherapy. *Vet Radiol Ultrasound* 2007;48:594-602.
39. Ghia A, Tome WA, Thomas S, *et al.* Distribution of brain metastases in relation to the hippocampus: implications for neurocognitive functional preservation. *Int J Radiat Oncol Biol Phys* 2007;68:971-977.
40. Ghia A, Tome WA, Thomas S, *et al.* Distribution of brain metastases in relation to the hippocampus: implications for neurocognitive functional preservation. *Int J Radiat Oncol Biol Phys* 2007;68:971-977.
41. Geets X, Tomsej M, Lee JA, *et al.* Adaptive biological image-guided IMRT with anatomic and functional imaging in pharyngo-laryngeal tumors: impact on target volume delineation and dose distribution using helical tomotherapy. *Radiother Oncol* 2007;85:105-115.
42. Fuss M, Boda-Heggemann J, Papanikolaou N, *et al.* Image-guidance for stereotactic body radiation therapy. *Med Dosim* 2007;32:102-110.
43. Fiorino C, Dell'Oca I, Pierelli A, *et al.* Simultaneous integrated boost (SIB) for nasopharynx cancer with helical tomotherapy. A planning study. *Strahlenther Onkol* 2007;183:497-505.
44. Drabik DM, MacKenzie MA, Fallone GB. Quantifying appropriate PTV setup margins: analysis of patient setup fidelity and intrafraction motion using post-treatment megavoltage computed tomography scans. *Int J Radiat Oncol Biol Phys* 2007;68:1222-1228.
45. Cozzarini C, Fiorino C, Di Muzio N, *et al.* Significant reduction of acute toxicity following pelvic irradiation with helical tomotherapy in patients with localized prostate cancer. *Radiother Oncol* 2007;84:164-170.
46. Chen YJ, Liu A, Han C, *et al.* Helical tomotherapy for radiotherapy in esophageal cancer: a preferred plan with better conformal target coverage and more homogeneous dose distribution. *Med Dosim* 2007;32:166-171.
47. Chen YJ, Han C, Liu A, *et al.* Setup variations in radiotherapy of esophageal cancer: evaluation by daily megavoltage computed tomographic localization. *Int J Radiat Oncol Biol Phys* 2007;68:1537-1545.
48. Chen YJ, Han C, Liu A, *et al.* Setup variations in radiotherapy of esophageal cancer: evaluation by daily megavoltage computed tomographic localization. *Int J Radiat Oncol Biol Phys* 2007;68:1537-1545.

49. Caudell JJ, De Los Santos JF, Keene KS, *et al.* A dosimetric comparison of electronic compensation, conventional intensity modulated radiotherapy, and tomotherapy in patients with early-stage carcinoma of the left breast. *Int J Radiat Oncol Biol Phys* 2007;68:1505-1511.
50. Cao D, Holmes TW, Afghan MK, *et al.* Comparison of plan quality provided by intensity-modulated arc therapy and helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2007;69:240-250.
51. Bauman G, Yartsev S, Rodrigues G, *et al.* A prospective evaluation of helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2007;68:632-641.
52. Baisden JM, Benedict SH, Sheng K, *et al.* Helical Tomotherapy in the treatment of central nervous system metastasis. *Neurosurg Focus* 2007;22:E8.
53. Baechler S, Bochud FO, Verellen D, *et al.* Shielding requirements in helical tomotherapy. *Phys Med Biol* 2007;52:5057-5067.

2006 (128 total)

1. Zeidan OA, Stephenson SA, Meeks SL, *et al.* Characterization and use of EBT radiochromic film for IMRT dose verification. *Med Phys* 2006;33:4064-4072.
2. Zacarias A, Balog J, Mills M. Radiation shielding design of a new tomotherapy facility. *Health Phys* 2006;91:289-295.
3. Yeoh EE, Holloway RH, Fraser RJ, *et al.* Hypofractionated versus conventionally fractionated radiation therapy for prostate carcinoma: updated results of a phase III randomized trial. *Int J Radiat Oncol Biol Phys* 2006;66:1072-1083.
4. Xing L, Thorndyke B, Schreiber E, *et al.* Overview of image-guided radiation therapy. *Med Dosim* 2006;31:91-112.
5. Wu C, Guo F, Purdy JA. Helical tomotherapy shielding calculation for an existing LINAC treatment room: sample calculation and cautions. *Phys Med Biol* 2006;51:N389-392.
6. Wong JY, Liu A, Schultheiss T, *et al.* Targeted total marrow irradiation using three-dimensional image-guided tomographic intensity-modulated radiation therapy: an alternative to standard total body irradiation. *Biol Blood Marrow Transplant* 2006;12:306-315.
7. Welsh JS, Lock M, Harari PM, *et al.* Clinical implementation of adaptive helical tomotherapy: a unique approach to image-guided intensity modulated radiotherapy. *Technol Cancer Res Treat* 2006;5:465-479.
8. Webb S, Evans PM. Innovative techniques in radiation therapy: editorial, overview, and crystal ball gaze to the future. *Semin Radiat Oncol* 2006;16:193-198.
9. Tomsej M. [The Tomotherapy Hi.Art System for sophisticated IMRT and IGRT with helical delivery: Recent developments and clinical applications]. *Cancer Radiother* 2006;10:288-295.
10. Storme G, Verellen D, Soete G, *et al.* From linac to tomotherapy: new possibilities for cure? *Adv Exp Med Biol* 2006;587:303-308.
11. Storme G, Verellen D, Soete G, *et al.* From linac to tomotherapy: new possibilities for cure? *Adv Exp Med Biol* 2006;587:303-308.
12. Song WY, Chiu B, Bauman GS, *et al.* Prostate contouring uncertainty in megavoltage computed tomography images acquired with a helical tomotherapy unit during image-guided radiation therapy. *Int J Radiat Oncol Biol Phys* 2006;65:595-607.
13. Silvano G. New radiation techniques for treatment of locally advanced non-small cell lung cancer (NSCLC). *Ann Oncol* 2006;17 Suppl 2:ii34-35.
14. Siker ML, Tome WA, Mehta MP. Tumor volume changes on serial imaging with megavoltage CT for non-small-cell lung cancer during intensity-modulated radiotherapy: how reliable, consistent, and meaningful is the effect? *Int J Radiat Oncol Biol Phys* 2006;66:135-141.

15. Sheng K, Molloy JA, Read PW. Intensity-modulated radiation therapy (IMRT) dosimetry of the head and neck: a comparison of treatment plans using linear accelerator-based IMRT and helical tomotherapy. *Int J Radiat Oncol Biol Phys* 2006;65:917-923.
16. Sheng K, Cai J, Brookeman J, et al. A computer simulated phantom study of tomotherapy dose optimization based on probability density functions (PDF) and potential errors caused by low reproducibility of PDF. *Med Phys* 2006;33:3321-3326.
17. Rodrigues G, Yartsev S, Chen J, et al. A comparison of prostate IMRT and helical tomotherapy class solutions. *Radiother Oncol* 2006;80:374-377.
18. Ramsey CR, Langen KM, Kupelian PA, et al. A technique for adaptive image-guided helical tomotherapy for lung cancer. *Int J Radiat Oncol Biol Phys* 2006;64:1237-1244.
19. Ramsey C, Seibert R, Mahan SL, et al. Out-of-field dosimetry measurements for a helical tomotherapy system. *J Appl Clin Med Phys* 2006;7:1-11.
20. Pisansky TM. External-beam radiotherapy for localized prostate cancer. *N Engl J Med* 2006;355:1583-1591.
21. Pezner RD, Liu A, Han C, et al. Dosimetric comparison of helical tomotherapy treatment and step-and-shoot intensity-modulated radiotherapy of retroperitoneal sarcoma. *Radiother Oncol* 2006;81:81-87.
22. Penagaricano JA, Yan Y, Shi C, et al. Dosimetric comparison of helical tomotherapy and Gamma Knife stereotactic radiosurgery for single brain metastasis. *Radiat Oncol* 2006;1:26.
23. Penagaricano JA. Step-and-shoot IMRT vs. helical tomotherapy: in regard to van Vulpen et al. (*Int J Radiat Oncol Biol Phys* 2005;62:1535-1539). *Int J Radiat Oncol Biol Phys* 2006;64:328.
24. Penagaricano JA. Integral radiation dose to normal structures with conformal external beam radiation: in regards to Aoyama et al. (*Int J Radiat Oncol Biol Phys* 2006;64:962-967). *Int J Radiat Oncol Biol Phys* 2006;65:1274; author reply 1274-1275.
25. O'Daniel JC, Dong L, Zhang L, et al. Dosimetric comparison of four target alignment methods for prostate cancer radiotherapy. *Int J Radiat Oncol Biol Phys* 2006;66:883-891.
26. Mills MD, Spanos WJ, Esterhay RJ. Considerations of cost-effectiveness for new radiation oncology technologies. *J Am Coll Radiol* 2006;3:278-288.
27. Mackie TR. History of tomotherapy. *Phys Med Biol* 2006;51:R427-453.
28. Lu W, Ruchala KJ, Chen ML, et al. Real-time respiration monitoring using the radiotherapy treatment beam and four-dimensional computed tomography (4DCT)--a conceptual study. *Phys Med Biol* 2006;51:4469-4495.
29. Lu W, Olivera GH, Chen Q, et al. Deformable registration of the planning image (kVCT) and the daily images (MVCT) for adaptive radiation therapy. *Phys Med Biol* 2006;51:4357-4374.
30. Kupelian PA, Langen KM, Zeidan OA, et al. Daily variations in delivered doses in patients treated with radiotherapy for localized prostate cancer. *Int J Radiat Oncol Biol Phys* 2006;66:876-882.
31. Kupelian PA, Langen KM, Willoughby TR, et al. Daily variations in the position of the prostate bed in patients with prostate cancer receiving postoperative external beam radiation therapy. *Int J Radiat Oncol Biol Phys* 2006;66:593-596.
32. Khuntia D, Jaradat H, Orton N, et al. Helical tomotherapy as a means of administering total or partial scalp irradiation: In regards to Bedford et al. (*Int J Radiat Oncol Biol Phys* 2005;62:1549-1558). *Int J Radiat Oncol Biol Phys* 2006;64:1288-1289; author reply 1289-1290.
33. Kaiser A, Schultheiss TE, Wong JY, et al. Pitch, roll, and yaw variations in patient positioning. *Int J Radiat Oncol Biol Phys* 2006;66:949-955.
34. Hong TS, Tome WA, Jaradat H, et al. Pelvic nodal dose escalation with prostate hypofractionation using conformal avoidance defined (H-CAD) intensity modulated radiation therapy. *Acta Oncol* 2006;45:717-727.

35. Hodge W, Tome WA, Jaradat HA, *et al.* Feasibility report of image guided stereotactic body radiotherapy (IG-SBRT) with tomotherapy for early stage medically inoperable lung cancer using extreme hypofractionation. *Acta Oncol* 2006;45:890-896.
36. Han C, Liu A, Schultheiss TE, *et al.* Dosimetric comparisons of helical tomotherapy treatment plans and step-and-shoot intensity-modulated radiosurgery treatment plans in intracranial stereotactic radiosurgery. *Int J Radiat Oncol Biol Phys* 2006;65:608-616.
37. Gonzalez VJ, Buchholz DJ, Langen KM, *et al.* Evaluation of two tomotherapy-based techniques for the delivery of whole-breast intensity-modulated radiation therapy. *Int J Radiat Oncol Biol Phys* 2006;65:284-290.
38. Fuss M, Shi C, Papanikolaou N. Tomotherapeutic stereotactic body radiation therapy: Techniques and comparison between modalities. *Acta Oncol* 2006;45:953-960.
39. Fiorino C, Dell'Oca I, Pierelli A, *et al.* Significant improvement in normal tissue sparing and target coverage for head and neck cancer by means of helical tomotherapy. *Radiother Oncol* 2006;78:276-282.
40. Fenwick JD, Tome WA, Soisson ET, *et al.* Tomotherapy and other innovative IMRT delivery systems. *Semin Radiat Oncol* 2006;16:199-208.
41. Dobler B, Lorenz F, Wertz H, *et al.* Intensity-modulated radiation therapy (IMRT) with different combinations of treatment-planning systems and linacs: issues and how to detect them. *Strahlenther Onkol* 2006;182:481-488.
42. Cozzi L, Clivio A, Bauman G, *et al.* Comparison of advanced irradiation techniques with photons for benign intracranial tumours. *Radiother Oncol* 2006;80:268-273.
43. Boswell S, Tome W, Jeraj R, *et al.* Automatic registration of megavoltage to kilovoltage CT images in helical tomotherapy: an evaluation of the setup verification process for the special case of a rigid head phantom. *Med Phys* 2006;33:4395-4404.
44. Balog J, Holmes T, Vaden R. A helical tomotherapy dynamic quality assurance. *Med Phys* 2006;33:3939-3950.
45. Baisden JM, Reish AG, Sheng K, *et al.* Dose as a function of liver volume and planning target volume in helical tomotherapy, intensity-modulated radiation therapy-based stereotactic body radiation therapy for hepatic metastasis. *Int J Radiat Oncol Biol Phys* 2006;66:620-625.
46. Aoyama H, Westerly DC, Mackie TR, *et al.* Integral radiation dose to normal structures with conformal external beam radiation. *Int J Radiat Oncol Biol Phys* 2006;64:962-967.
47. Alaei P, Hui SK, Higgins PD, *et al.* The use of a commercial QA device for daily output check of a helical tomotherapy unit. *Med Phys* 2006;33:3680-3682.
48. Ahmed RS, Ove R, Duan J, *et al.* Intensity-modulated radiotherapy (IMRT) for carcinoma of the maxillary sinus: a comparison of IMRT planning systems. *Med Dosim* 2006;31:224-232.

2005 (80 total)

1. Yartsev S, Kron T, Cozzi L, *et al.* Tomotherapy planning of small brain tumours. *Radiother Oncol* 2005;74:49-52.
2. Yan Y, Papanikolaou N, Weng X, *et al.* Fast radiographic film calibration procedure for helical tomotherapy intensity modulated radiation therapy dose verification. *Med Phys* 2005;32:1566-1570.
3. Wurstbauer K, Deutschmann H, Kopp P, *et al.* Radiotherapy planning for lung cancer: slow CTs allow the drawing of tighter margins. *Radiother Oncol* 2005;75:165-170.

4. Welsh JS, Mehta MP, Mackie TR, *et al.* Helical tomotherapy as a means of delivering scalp-sparing whole brain radiation therapy. *Technol Cancer Res Treat* 2005;4:661-662; author reply 662.
5. van Vulpen M, Field C, Raaijmakers CP, *et al.* Comparing step-and-shoot IMRT with dynamic helical tomotherapy IMRT plans for head-and-neck cancer. *Int J Radiat Oncol Biol Phys* 2005;62:1535-1539.
6. Thomas SD, Mackenzie M, Rogers DW, *et al.* A Monte Carlo derived TG-51 equivalent calibration for helical tomotherapy. *Med Phys* 2005;32:1346-1353.
7. Thomas SD, Mackenzie M, Field GC, *et al.* Patient specific treatment verifications for helical tomotherapy treatment plans. *Med Phys* 2005;32:3793-3800.
8. Teh BS, Dong L, McGary JE, *et al.* Rectal wall sparing by dosimetric effect of rectal balloon used during intensity-modulated radiation therapy (IMRT) for prostate cancer. *Med Dosim* 2005;30:25-30.
9. Sheng K, Jeraj R, Shaw R, *et al.* Imaging dose management using multi-resolution in CT-guided radiation therapy. *Phys Med Biol* 2005;50:1205-1219.
10. Penagaricano JA, Shi C, Ratanatharathorn V. Evaluation of integral dose in cranio-spinal axis (CSA) irradiation with conventional and helical delivery. *Technol Cancer Res Treat* 2005;4:683-689.
11. Penagaricano JA, Papanikolaou N, Yan Y, *et al.* Feasibility of cranio-spinal axis radiation with the Hi-Art tomotherapy system. *Radiother Oncol* 2005;76:72-78.
12. Orton N, Jaradat H, Welsh J, *et al.* Total scalp irradiation using helical tomotherapy. *Med Dosim* 2005;30:162-168.
13. Meeks SL, Harmon JF, Jr., Langen KM, *et al.* Performance characterization of megavoltage computed tomography imaging on a helical tomotherapy unit. *Med Phys* 2005;32:2673-2681.
14. Mahan SL, Ramsey CR, Scaperoth DD, *et al.* Evaluation of image-guided helical tomotherapy for the retreatment of spinal metastasis. *Int J Radiat Oncol Biol Phys* 2005;63:1576-1583.
15. Lu W, Olivera GH, Mackie TR. Motion-encoded dose calculation through fluence/sinogram modification. *Med Phys* 2005;32:118-127.
16. Lu W, Olivera GH, Chen ML, *et al.* Accurate convolution/superposition for multi-resolution dose calculation using cumulative tabulated kernels. *Phys Med Biol* 2005;50:655-680.
17. Langen KM, Zhang Y, Andrews RD, *et al.* Initial experience with megavoltage (MV) CT guidance for daily prostate alignments. *Int J Radiat Oncol Biol Phys* 2005;62:1517-1524.
18. Langen KM, Meeks SL, Poole DO, *et al.* Evaluation of a diode array for QA measurements on a helical tomotherapy unit. *Med Phys* 2005;32:3424-3430.
19. Langen KM, Meeks SL, Poole DO, *et al.* The use of megavoltage CT (MVCT) images for dose recomputations. *Phys Med Biol* 2005;50:4259-4276.
20. Kupelian PA, Ramsey C, Meeks SL, *et al.* Serial megavoltage CT imaging during external beam radiotherapy for non-small-cell lung cancer: observations on tumor regression during treatment. *Int J Radiat Oncol Biol Phys* 2005;63:1024-1028.
21. Kron T, Yartsev S, Mackie TR. Verification dosimetry during treatment for helical tomotherapy using radiographic film. *Australas Phys Eng Sci Med* 2005;28:232-237.
22. Kissick MW, Fenwick J, James JA, *et al.* The helical tomotherapy thread effect. *Med Phys* 2005;32:1414-1423.
23. Kissick MW, Boswell SA, Jeraj R, *et al.* Confirmation, refinement, and extension of a study in intrafraction motion interplay with sliding jaw motion. *Med Phys* 2005;32:2346-2350.
24. Kim B, Kron T, Battista J, *et al.* Investigation of dose homogeneity for loose helical tomotherapy delivery in the context of breath-hold radiation therapy. *Phys Med Biol* 2005;50:2387-2404.

25. Jeraj R, Mackie TR, Balog J, *et al.* Dose calibration of nonconventional treatment systems applied to helical tomotherapy. *Med Phys* 2005;32:570-577.
26. Hui SK, Kapatoes J, Fowler J, *et al.* Feasibility study of helical tomotherapy for total body or total marrow irradiation. *Med Phys* 2005;32:3214-3224.
27. Fenwick JD, Tome WA, Kissick MW, *et al.* Modelling simple helically delivered dose distributions. *Phys Med Biol* 2005;50:1505-1517.
28. Boswell SA, Jeraj R, Ruchala KJ, *et al.* A novel method to correct for pitch and yaw patient setup errors in helical tomotherapy. *Med Phys* 2005;32:1630-1639.
29. Bauman G, Yartsev S, Coad T, *et al.* Helical tomotherapy for craniospinal radiation. *Br J Radiol* 2005;78:548-552.
30. Balog J, Lucas D, DeSouza C, *et al.* Helical tomotherapy radiation leakage and shielding considerations. *Med Phys* 2005;32:710-719.

2004 (50 total)

1. Zhang T, Jeraj R, Keller H, *et al.* Treatment plan optimization incorporating respiratory motion. *Med Phys* 2004;31:1576-1586.
2. Wu C, Jeraj R, Lu W, *et al.* Fast treatment plan modification with an over-relaxed Cimmino algorithm. *Med Phys* 2004;31:191-200.
3. Welsh JS, Bradley K, Ruchala KJ, *et al.* Megavoltage computed tomography imaging: a potential tool to guide and improve the delivery of thoracic radiation therapy. *Clin Lung Cancer* 2004;5:303-306.
4. Moiseenko V, Mulligan M, Kron T. Radiation quality of a tomotherapy photon fan beam. *Health Phys* 2004;87:166-170.
5. McNiven A, Kron T. Interpolation and extrapolation of dose measurements with different detector sizes to improve the spatial resolution of radiotherapy dosimetry as demonstrated for helical tomotherapy. *Phys Med Biol* 2004;49:3665-3674.
6. Mahan SL, Chase DJ, Ramsey CR. Technical note: output and energy fluctuations of the tomotherapy Hi-Art helical tomotherapy system. *Med Phys* 2004;31:2119-2120.
7. Lu W, Chen ML, Olivera GH, *et al.* Fast free-form deformable registration via calculus of variations. *Phys Med Biol* 2004;49:3067-3087.
8. Kron T, Grigorov G, Yu E, *et al.* Planning evaluation of radiotherapy for complex lung cancer cases using helical tomotherapy. *Phys Med Biol* 2004;49:3675-3690.
9. Kapulsky A, Gejerman G, Hanley J. A clinical application of an automated phantom-film QA procedure for validation of IMRT treatment planning and delivery. *Med Dosim* 2004;29:279-284.
10. Jeraj R, Mackie TR, Balog J, *et al.* Radiation characteristics of helical tomotherapy. *Med Phys* 2004;31:396-404.
11. Hui SK, Das RK, Kapatoes J, *et al.* Helical tomotherapy as a means of delivering accelerated partial breast irradiation. *Technol Cancer Res Treat* 2004;3:639-646.
12. Gladwish A, Kron T, McNiven A, *et al.* Asymmetric fan beams (AFB) for improvement of the craniocaudal dose distribution in helical tomotherapy delivery. *Med Phys* 2004;31:2443-2448.
13. Forrest LJ, Mackie TR, Ruchala K, *et al.* The utility of megavoltage computed tomography images from a helical tomotherapy system for setup verification purposes. *Int J Radiat Oncol Biol Phys* 2004;60:1639-1644.
14. Forrest LJ, Mackie TR, Ruchala K, *et al.* The utility of megavoltage computed tomography images from a helical tomotherapy system for setup verification purposes. *Int J Radiat Oncol Biol Phys* 2004;60:1639-1644.

15. Fenwick JD, Tome WA, Jaradat HA, *et al.* Quality assurance of a helical tomotherapy machine. *Phys Med Biol* 2004;49:2933-2953.
16. Beavis AW. Is tomotherapy the future of IMRT? *Br J Radiol* 2004;77:285-295.

2003 (34 total)

1. Scrimger RA, Tome WA, Olivera GH, *et al.* Reduction in radiation dose to lung and other normal tissues using helical tomotherapy to treat lung cancer, in comparison to conventional field arrangements. *Am J Clin Oncol* 2003;26:70-78.
2. Penagaricano JA, Papanikolaou N. Intensity-modulated radiotherapy for carcinoma of the head and neck. *Curr Oncol Rep* 2003;5:131-139.
3. Mackie TR, Kapatoes J, Ruchala K, *et al.* Image guidance for precise conformal radiotherapy. *Int J Radiat Oncol Biol Phys* 2003;56:89-105.
4. Grigorov G, Kron T, Wong E, *et al.* Optimization of helical tomotherapy treatment plans for prostate cancer. *Phys Med Biol* 2003;48:1933-1943.
5. Balog J, Olivera G, Kapatoes J. Clinical helical tomotherapy commissioning dosimetry. *Med Phys* 2003;30:3097-3106.
6. Balog J, Mackie TR, Pearson D, *et al.* Benchmarking beam alignment for a clinical helical tomotherapy device. *Med Phys* 2003;30:1118-1127.

2002 (28 total)

1. Wu C, Jeraj R, Olivera GH, *et al.* Re-optimization in adaptive radiotherapy. *Phys Med Biol* 2002;47:3181-3195.
2. Ruchala KJ, Olivera GH, Kapatoes JM, *et al.* Methods for improving limited field-of-view radiotherapy reconstructions using imperfect a priori images. *Med Phys* 2002;29:2590-2605.
3. Ruchala KJ, Olivera GH, Kapatoes JM. Limited-data image registration for radiotherapy positioning and verification. *Int J Radiat Oncol Biol Phys* 2002;54:592-605.
4. Lu W, Mackie TR. Tomographic motion detection and correction directly in sinogram space. *Phys Med Biol* 2002;47:1267-1284.
5. Hooper HR, Fallone BG. Technical note: Sinogram merging to compensate for truncation of projection data in tomotherapy imaging. *Med Phys* 2002;29:2548-2551.
6. Fuss M, Salter BJ, Sadeghi A, *et al.* Fractionated stereotactic intensity-modulated radiotherapy (FS-IMRT) for small acoustic neuromas. *Med Dosim* 2002;27:147-154.
7. Dogan N, Leybovich LB, King S, *et al.* Improvement of treatment plans developed with intensity-modulated radiation therapy for concave-shaped head and neck tumors. *Radiology* 2002;223:57-64.

2001 (21 total)

1. Kapatoes JM, Olivera GH, Ruchala KJ, *et al.* A feasible method for clinical delivery verification and dose reconstruction in tomotherapy. *Med Phys* 2001;28:528-542.
2. Kapatoes JM, Olivera GH, Ruchala KJ, *et al.* On the verification of the incident energy fluence in tomotherapy IMRT. *Phys Med Biol* 2001;46:2953-2965.

3. Kapatoes JM, Olivera GH, Balog JP, *et al.* On the accuracy and effectiveness of dose reconstruction for tomotherapy. *Phys Med Biol* 2001;46:943-966.

2000 (18 total)

1. Shepard DM, Olivera GH, Reckwerdt PJ, *et al.* Iterative approaches to dose optimization in tomotherapy. *Phys Med Biol* 2000;45:69-90.
2. Ruchala KJ, Oliverat GH, Kapatoest JM, *et al.* Megavoltage CT imaging as a by-product of multileaf collimator leakage. *Phys Med Biol* 2000;45:N61-70.
3. Ruchala KJ, Olivera GH, Schloesser EA, *et al.* Calibration of a tomotherapeutic MVCT system. *Phys Med Biol* 2000;45:N27-36.
4. Robinson D, Scrimger JW, Field GC, *et al.* Shielding considerations for tomotherapy. *Med Phys* 2000;27:2380-2384.
5. Paliwal B, Tome W, Richardson S, *et al.* A spiral phantom for IMRT and tomotherapy treatment delivery verification. *Med Phys* 2000;27:2503-2507.

1999 (13 total)

1. Shepard DM, Olivera G, Angelos L, *et al.* A simple model for examining issues in radiotherapy optimization. *Med Phys* 1999;26:1212-1221.
2. Mackie TR, Balog J, Ruchala K, *et al.* Tomotherapy. *Semin Radiat Oncol* 1999;9:108-117.
3. Lu W, Fitchard EE, Olivera GH, *et al.* Image/patient registration from (partial) projection data by the Fourier phase matching method. *Phys Med Biol* 1999;44:2029-2048.
4. Kapatoes JM, Olivera GH, Reckwerdt PJ, *et al.* Delivery verification in sequential and helical tomotherapy. *Phys Med Biol* 1999;44:1815-1841.
5. Fitchard EE, Aldridge JS, Ruchala K, *et al.* Registration using tomographic projection files. *Phys Med Biol* 1999;44:495-507.
6. Balog JP, Mackie TR, Wenman DL, *et al.* Multileaf collimator interleaf transmission. *Med Phys* 1999;26:176-186.
7. Balog JP, Mackie TR, Reckwerdt P, *et al.* Characterization of the output for helical delivery of intensity modulated slit beams. *Med Phys* 1999;26:55-64.

1998

1997

1. Yang JN, Mackie TR, Reckwerdt P, *et al.* An investigation of tomotherapy beam delivery. *Med Phys* 1997;24:425-436.
2. McNutt TR, Mackie TR, Paliwal BR. Analysis and convergence of the iterative convolution/superposition dose reconstruction technique for multiple treatment beams and tomotherapy. *Med Phys* 1997;24:1465-1476.

1996

1995

1. Holmes TW, Mackie TR, Reckwerdt P. An iterative filtered backprojection inverse treatment planning algorithm for tomotherapy. *Int J Radiat Oncol Biol Phys* 1995;32:1215-1225.
2. Tomotherapy: making radiation therapy more precise and target-specific. *Oncology (Williston Park)* 1995;9:320, 323.

1994

1993

1. Papanikolaou N, Mackie TR, Meger-Wells C, *et al.* Investigation of the convolution method for polyenergetic spectra. *Med Phys* 1993;20:1327-1336.
2. Mackie TR, Holmes T, Swerdloff S, *et al.* Tomotherapy: a new concept for the delivery of dynamic conformal radiotherapy. *Med Phys* 1993;20:1709-1719.