

RapidArc Radiosurgery Bibliography*

Cranial: Metastatic Disease

Gregucci F, Fiorentino A, Corradini S, Figlia V, Mazzola R, Ricchetti F, Ruggieri R, Alongi F. Linac-based radiosurgery or fractionated stereotactic radiotherapy with flattening filter-free volumetric modulated arc therapy in elderly patients: A mono-institutional experience on 110 brain metastases. *Strahlenther Onkol.* 2019 Mar;195(3):218-225. Ospedale "Sacro Cuore", Negrar, Italy

Foreman PM, Jackson BE, Singh KP, Romeo AK, Guthrie BL, Fisher WS, Riley KO, Markert JM, Willey CD, Bredel M, Fiveash JB. Postoperative radiosurgery for the treatment of metastatic brain tumor: Evaluation of local failure and leptomeningeal disease. *J Clin Neurosci.* 2018 Mar;49:48-55. The University of Alabama at Birmingham, Birmingham, AL

Marcrom SR, McDonald AM, Thompson JW, Popple RA, Riley KO, Markert JM, Willey CD, Bredel M, Fiveash JB. Fractionated stereotactic radiation therapy for intact brain metastases. *Adv Radiat Oncol.* 2017 Jul 19;2(4):564-571. The University of Alabama at Birmingham, Birmingham, AL

Bohoudi O, Bruynzeel AM, Lagerwaard FJ, Cuijpers JP, Slotman BJ, Palacios MA. Isotoxic radiosurgery planning for brain metastases. *Radiother Oncol.* 2016 Aug; 120(2):253-7. VU University Medical Center, Amsterdam, The Netherlands

Navarria P, Pessina F, Cozzi L, Ascolese AM, De Rose F, Fogliata A, Franzese C, Franceschini D, Tozzi A, D'Agostino G, Comito T, Iftode C, Maggi G, Reggiori G, Bello L, Scorsetti M. Hypo-fractionated stereotactic radiotherapy alone using volumetric modulated arc therapy for patients with single, large brain metastases unsuitable for surgical resection. *Radiat Oncol.* 2016 Jun 2;11(1):76. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Stanhope C, Chang Z, Wang Z, Yin FF, Kim G, Salama JK, Kirkpatrick J, Adamson J. Physics considerations for single-isocenter, volumetric modulated arc radiosurgery for treatment of multiple intracranial targets. *Pract Radiat Oncol.* 2016 May-Jun;6(3):207-13. Duke University, Durham, NC

Fiveash JB, Arafat WO, Naoum GE, Guthrie BL, Sawrie SM, Spencer SA, Meredith RF, Markert JM, Conry RM, Nabors BL. A phase 2 study of radiosurgery and temozolomide for patients with 1 to 4 brain metastases. *Adv Radiat Oncol.* 2016 Apr 1;1(2):83-88. The University of Alabama at Birmingham, Birmingham, AL

Liu H, Andrews DW, Evans JJ, Werner-Wasik M, Yu Y, Dicker AP, Shi W. Plan Quality and Treatment Efficiency for Radiosurgery to Multiple Brain Metastases: Non-Coplanar RapidArc® vs. Gamma Knife®. *Front Oncol.* 2016 Feb 11;6:26. Thomas Jefferson University, Philadelphia, PA

Fiveash JB, Kropp L. Radiosurgery of brain metastases - How many is too many? *J Radiosurg SBRT.* 2016;4(1):5-6. The University of Alabama at Birmingham, Birmingham, AL

Lau SK, Zakeri K, Zhao X, Carmona R, Knipprath E, Simpson DR, Nath SK, Kim GY, Sanghvi P, Hattangadi JA, Chen CC, Murphy KT. Single-Isocenter Frameless Volumetric Modulated Arc Radiosurgery for Multiple Intracranial Metastases. *Neurosurgery.* 2015 Aug;77(2):233-40. Moores Cancer Center, University of California, San Diego, CA

Serna A, Escolar PP, Puchades V, Mata F, Ramos D, Gómez MA, Iglesias A, Salinas J, Alcaraz M. Single fraction volumetric modulated arc radiosurgery of brain metastases. *Clin Transl Oncol.* 2015 Aug;17(8):596-603. Santa Lucia University Hospital, Murcia, Spain

Andrevska A, Knight KA, Sale CA. The feasibility and benefits of using volumetric arc therapy in patients with brain metastases: a systematic review. *J Med Radiat Sci.* 2014 Dec;61(4):267-276. Geelong Hospital Geelong, Victoria, Australia

Thomas EM, Popple RA, Wu X, Clark GM, Markert JM, Guthrie BL, Yuan Y, Dobelbower MC, Spencer SA, Fiveash JB. Comparison of Plan Quality and Delivery Time between Volumetric Arc Therapy (RapidArc®) and Gamma Knife Radiosurgery for Multiple Cranial Metastases. *Neurosurgery.* 2014 Oct;75(4):409-17; discussion 417-8. The University of Alabama at Birmingham, Birmingham, AL

* This bibliography is a comprehensive selection of articles but is not necessarily an exhaustive list of literature pertaining to RapidArc® radiosurgery.

Lau SK, Zhao X, Carmona R, Knipprath E, Simpson DR, Nath SK, Kim GY, Hattangadi JA, Chen CC, Murphy KT. Frameless single-isocenter intensity modulated stereotactic radiosurgery for simultaneous treatment of multiple intracranial metastases. *Transl Cancer Res.* 2014 Aug 1;3(4):383-390. Moores University of California San Diego Cancer Center, La Jolla, CA

Huang Y, Chin K, Robbins JR, Kim J, Li H, Amro H, Chetty IJ, Gordon J, Ryu S. Radiosurgery of multiple brain metastases with single-isocenter dynamic conformal arcs (SIDCA). *Radiother Oncol.* 2014 Jul;112(1):128-32. Henry Ford Health System, Detroit, MI

Clark GM, Popple RA, Prendergast BM, Spencer SA, Thomas EM, Stewart JG, Guthrie BL, Markert JM, Fiveash JB. Plan quality and treatment planning technique for single isocenter cranial radiosurgery with volumetric modulated arc therapy. *Pract Radiat Oncol.* 2012 Oct; 2(4):306-313. The University of Alabama at Birmingham, Birmingham, AL

Wang JZ, Rice R, Mundt AJ, Sandhu A, Murphy KT. Feasibility and advantages of using flattening filter-free mode for radiosurgery of multiple brain lesions. *Pract Radiat Oncol.* 2012 Oct-Dec;2(4):e165-e171. University of California at San Diego, San Diego, CA

Liepa Z, Auslands K, Apskalne D, Ozols R. Initial experience with using frameless image-guided radiosurgery for the treatment of brain metastases. *Exp Oncol.* 2012 Jul;34(2):125-8. Riga East Clinical University Hospital, Riga, Latvia

Wang JZ, Pawlicki T, Rice R, Mundt AJ, Sandhu A, Lawson J, Murphy KT. Intensity-modulated radiosurgery with RapidArc® for multiple brain metastases and comparison with static approach. *Med Dosim.* 2012 Spring;37(1):31-6. University of California, San Diego, La Jolla, CA

Clark GM, Popple RA, Young PE, Fiveash JB. Feasibility of single-isocenter volumetric modulated arc radiosurgery for treatment of multiple brain metastases. *Int J Radiat Oncol Biol Phys.* 2010 Jan 1;76(1):296-302. The University of Alabama at Birmingham, Birmingham, AL

Lagerwaard FJ, van der Hoorn EA, Verbakel WF, Haasbeek CJ, Slotman BJ, Senan S. Whole-brain radiotherapy with simultaneous integrated boost to multiple brain metastases using volumetric modulated arc therapy. *Int J Radiat Oncol Biol Phys.* 2009 Sep 1;75(1):253-9. VU University Medical Center, Amsterdam, The Netherlands

Cranial: Malignant Disease

Clark GM, McDonald AM, Nabors LB, Fathalla-Shaykh H, Han X, Willey CD, Markert JM, Guthrie BL, Bredel M, Fiveash JB. Hypofractionated stereotactic radiosurgery with concurrent bevacizumab for recurrent malignant gliomas: the University of Alabama at Birmingham experience. *Neurooncol Pract.* 2014 Dec;1(4):172-177. The University of Alabama at Birmingham, Birmingham, AL

Anand AK, Kumar P, Patir R, Vaishya S, Bansal AK, Chaudhoory AR, Punnakal AU, Malhotra H, Munjal RK. Fractionated stereotactic radiosurgery with volumetric modulated arc therapy (RapidArc®) for reradiation in recurrent high grade gliomas. *J Cancer Res Ther.* 2014 Jan-Mar;10(1):97-102. Max Cancer Centre, Saket, India

Cranial: Benign Disease

Lau SK, Patel K, Kim T, Knipprath E, Kim GY, Cerviño LI, Lawson JD, Murphy KT, Sanghvi P, Carter BS, Chen CC. Clinical efficacy and safety of surface imaging guided radiosurgery (SIG-RS) in the treatment of benign skull base tumors. *J Neurooncol.* 2017 Apr;132(2):307-312. University of California, San Diego, CA

Navarria P, Pessina F, Cozzi L, Clerici E, Villa E, Ascolese AM, De Rose F, Comito T, Franzese C, D'Agostino G, Lobefalo F, Fogliata A, Reggiori G, Fornari M, Tomatis S, Bello L, Scorsetti M. Hypofractionated stereotactic radiation therapy in skull base meningiomas. *J Neurooncol.* 2015 Sep;124(2):283-9. Istituto Clinico Humanitas Cancer Center Rozzano, Milano, Italy

Kim H, Potrebko P, Rivera A, Liu H, Eldredge-Hindy HB, Gunn V, Werner-Wasik M, Andrews DW, Evans JJ, Farrell CJ, Judy K, Shi W. Tumor volume threshold for achieving improved conformity in VMAT and Gamma Knife® stereotactic radiosurgery for vestibular schwannoma. *Radiother Oncol.* 2015 May; 115(2):229-34. Thomas Jefferson University, Philadelphia, PA

Swamy ST, Radha CA, Arun G, Kathirvel M, Subramanian S. Planning and Dosimetric Study of Volumetric Modulated Arc Based Hypofractionated Stereotactic Radiotherapy for Acoustic Schwannoma - 6MV Flattening Filter Free Photon Beam. *Asian Pac J Cancer Prev.* 2015;16(12):5019-24. Yashoda Hospital, Hyderabad, India

Abacioglu U, Ozen Z, Yilmaz M, Arifoglu A, Gunhan B, Kayalilar N, Peker S, Sengoz M, Gurdalli S, Cozzi L. Critical appraisal of RapidArc® radiosurgery with flattening filter free photon beams for benign brain lesions in comparison to GammaKnife®: a treatment planning study. *Radiat Oncol.* 2014 May 21;9:119. Oncology Institute of Southern Switzerland, Bellinzona, Switzerland

Lagerwaard FJ, Meijer OW, van der Hoorn EA, Verbakel WF, Slotman BJ, Senan S. Volumetric modulated arc radiotherapy for vestibular schwannomas. *Int J Radiat Oncol Biol Phys.* 2009 Jun 1;74(2):610-5. VU University Medical Center, Amsterdam, The Netherlands

Cranial: Neurovascular Disease

Subramanian S, Srinivas C, Ramalingam K, Babaiah M, Swamy ST, Arun G, Kathirvel M, Ashok S, Clivio A, Fogliata A, Nicolini G, Rao KS, Reddy TP, Amit J, Vanetti E, Cozzi L. Volumetric modulated arc-based hypofractionated stereotactic radiotherapy for the treatment of selected intracranial arteriovenous malformations: dosimetric report and early clinical experience. *Int J Radiat Oncol Biol Phys.* 2012 Mar 1;82(3):1278-84. Yashoda Super Specialty Hospital, Hyderabad, India

Cranial: General Radiosurgery

Vergalasova I, Liu H, Alonso-Basanta M, Dong L, Li J, Nie K, Shi W, Teo BK, Yu Y, Yue NJ, Zou W, Li T. Multi-Institutional Dosimetric Evaluation of Modern Day Stereotactic Radiosurgery (SRS) Treatment Options for Multiple Brain Metastases. *Front Oncol.* 2019 Jun 7;9:483. Rutgers Cancer Institute of New Jersey, Rutgers University, New Brunswick, NJ

Huang Y, Zhao B, Chetty IJ, Brown S, Gordon J, Wen N. Targeting Accuracy of Image-Guided Radiosurgery for Intracranial Lesions: A Comparison Across Multiple Linear Accelerator Platforms. *Technol Cancer Res Treat.* 2016 Apr;15(2):243-8. Henry Ford Health System, Detroit, MI

Zhao B, Yang Y, Li X, Li T, Heron DE, Saiful Huq M. Is high-dose rate RapidArc®-based radiosurgery dosimetrically advantageous for the treatment of intracranial tumors? *Med Dosim.* 2015 Spring;40(1):3-8. University of Pittsburgh Cancer Institute, Pittsburgh, PA

Amendola BE, Amendola M, Perez N, Iglesias A, Wu X. Volumetric-modulated arc therapy with RapidArc®: An evaluation of treatment delivery efficiency. *Rep Pract Oncol Radiother.* 2013 Aug 17;18(6):383-6. Innovative Cancer Institute, South Miami, FL

Prendergast B, Popple R, Clark G, Spencer S, Guthrie B, Markert J, Fiveash J. Improved clinical efficiency in CNS stereotactic radiosurgery using a flattening filter free linear accelerator. *Jour. of Radiosurgery and SBRT.* 2011 Nov-Dec; 1(2): 117-122. The University of Alabama at Birmingham, Birmingham, AL

Audet C, Poffenbarger BA, Chang P, Jackson PS, Lundahl RE, Ryu SI, Ray GR. Evaluation of volumetric modulated arc therapy for cranial radiosurgery using multiple noncoplanar arcs. *Med Phys.* 2011 Nov;38(11):5863-72. Palo Alto Medical Foundation, Palo Alto, CA

Mayo CS, Ding L, Addesa A, Kadish S, Fitzgerald TJ, Moser R. Initial experience with volumetric IMRT (RapidArc®) for intracranial stereotactic radiosurgery. *Int J Radiat Oncol Biol Phys.* 2010 Dec 1;78(5):1457-66. University of Massachusetts Medical School, Worcester, MA

Wolff HA, Wagner DM, Christiansen H, Hess CF, Vorwerk H. Single fraction radiosurgery using RapidArc® for treatment of intracranial targets. *Radiat Oncol.* 2010 Sep 13;5:77. Universitätsmedizin Göttingen, Germany

Head & Neck

Alongi F, Clerici E, Pentimalli S, Mancosu P, Scorsetti M. Initial experience of hypofractionated radiation retreatment with TrueBeam® and flattening filter free beam in selected case reports of recurrent nasopharyngeal carcinoma. *Rep Pract Onc and Radiother.* 2012;17:262-268, Istituto Clinico Humanitas, Rozzano, Milan, Italy

Spine

Jin CJ, Berry-Candelario J, Reiner AS, Laufer I, Higginson DS, Schmitt AM, Lis E, Barzilai O, Boland P, Yamada Y, Bilsky MH. Long-term outcomes of high-dose single-fraction radiosurgery for chordomas of the spine and sacrum. *J Neurosurg Spine.* 2019 Oct 18:1-10. Memorial Sloan Kettering Cancer Center, New York, NY

Lockney DT, Hopkins B, Lockney NA, Coleman CZ, Rubin E, Lis E, Yamada Y, Schmitt A, Higginson D, Bilsky MH, Laufer I. Adjacent level fracture incidence in single fraction high dose spinal radiosurgery. *Ann Transl Med.* 2019 May;7(10):211. Memorial Sloan Kettering Cancer Center, New York, NY

Barzilai O, Laufer I, Robin A, Xu R, Yamada Y, Bilsky MH. Hybrid Therapy for Metastatic Epidural Spinal Cord Compression: Technique for Separation Surgery and Spine Radiosurgery. *Oper Neurosurg.* 2019 Mar 1;16(3):310-318. Memorial Sloan-Kettering Cancer Center, New York, NY

Lis E, Laufer I, Barzilai O, Yamada Y, Karimi S, McLaughlin L, Krol G, Bilsky MH. Change in the cross-sectional area of the thecal sac following balloon kyphoplasty for pathological vertebral compression fractures prior to spine stereotactic radiosurgery. *J Neurosurg Spine.* 2018 Oct 19;30(1):111-118. Memorial Sloan Kettering Cancer Center, New York, NY

Barzilai O, Amato MK, McLaughlin L, Reiner AS, Ogilvie SQ, Lis E, Yamada Y, Bilsky MH, Laufer I. Hybrid surgery-radiosurgery therapy for metastatic epidural spinal cord compression: A prospective evaluation using patient-reported outcomes. *Neurooncol Pract.* 2018 May;5(2):104-113. Memorial Sloan Kettering Cancer Center, New York, NY

Elibe E, Boyce-Fappiano D, Ryu S, Siddiqui MS, Lee I, Rock J, Siddiqui F. Stereotactic radiosurgery for primary tumors of the spine and spinal cord. *J Radiosurg SBRT.* 2018;5(2):107-113. Henry Ford Hospital, Detroit, MI

Robin AM, Yamada Y, McLaughlin LA, Schmitt A, Higginson D, Lis E, Bilsky MH. Stereotactic Radiosurgery: The Revolutionary Advance in the Treatment of Spine Metastases. *Neurosurgery.* 2017 Sep 1;64(CN_suppl_1):59-65. Memorial Sloan Kettering Cancer Center, New York, NY

Barzilay O, Laufer I, Yamada Y, Higginson DS, Schmitt AM, Lis E, Bilsky MH. Integrating Evidence-Based Medicine for Treatment of Spinal Metastases Into a Decision Framework: Neurologic, Oncologic, Mechanical Stability, and Systemic Disease. *J Clin Oncol.* 2017 Jul 20;35(21):2419-2427. Memorial Sloan Kettering Cancer Center, New York, NY

Middlebrook ND, Sutherland B, Kairn T. Optimization of the dosimetric leaf gap for use in planning VMAT treatments of spine SABR cases. *J Appl Clin Med Phys.* 2017 Jul;18(4):133-139. Genesis Cancer Care Queensland, Tugun, Australia

Lockney DT, Shub T, Hopkins B, Lockney NA, Moussazadeh N, Lis E, Yamada Y, Schmitt AM, Higginson DS, Laufer I, Bilsky M. Spinal stereotactic body radiotherapy following intraslesional curettage with separation surgery for initial or salvage chordoma treatment. *Neurosurg Focus.* 2017 Jan;42(1):E4. Memorial Sloan Kettering Cancer Center, New York, NY

Nalichowski A, Kaufman I, Gallo J, Bossenberger T, Solberg T, Ramirez E, Yan Y, Fredrick J, Bichay T, Mayville A, Burmeister J. Single fraction radiosurgery/stereotactic body radiation therapy (SBRT) for spine metastasis: A dosimetric comparison of multiple delivery platforms. *J Appl Clin Med Phys.* 2017 Jan;18(1):164-169. Karmanos Cancer Institute, Detroit, MI

Yang J, Ma L, Wang XS, Xu WX, Cong XH, Xu SP, Ju ZJ, Du L, Cai BN, Yang J. Dosimetric evaluation of 4 different treatment modalities for curative-intent stereotactic body radiation therapy for isolated thoracic spinal metastases. *Med Dosim.* 2016 Summer;41(2):105-12. First Affiliated Hospital of Xinxiang Medical University, Weihui, Henan, China

Amoush A, Long H, Subedi L, Qi P, Djemil T, Xia P. Dosimetric effect of multileaf collimator leaf width on volumetric modulated arc stereotactic radiotherapy for spine tumors. *Med Dosim.* 2017 Summer;42(2):111-115. Augusta University, Augusta, GA

Gestaut MM, Thawani N, Kim S, Gutti VR, Jhavar S, Deb N, Morrow A, Ward RA, Huang JH, Patel M. Single fraction spine stereotactic ablative body radiotherapy with volumetric modulated arc therapy. *J Neurooncol.* 2017 May;133(1):165-172. Texas A&M University, Temple, TX

Pokhrel D, Sood S, McClinton C, Shen X, Badkul R, Jiang H, Mallory M, Mitchell M, Wang F, Lominska C. On the use of volumetric-modulated arc therapy for single-fraction thoracic vertebral metastases stereotactic body radiosurgery. *Med Dosim.* 2017 Spring;42(1):69-75. The University of Kansas Cancer Center, Kansas City, MO

Harel R, Pfeffer R, Levin D, Shekel E, Epstein D, Tsvang L, Ben Ayun M, Alezra D, Zach L. Spine radiosurgery: lessons learned from the first 100 treatment sessions. *Neurosurg Focus.* 2017 Jan;42(1):E3, Sheba Medical Center, Ramat Gan, Israel

Nalichowski A, Kaufman I, Gallo J, Bossenberger T, Solberg T, Ramirez E, Yan Y, Fredrick J, Bichay T, Mayville A, Burmeister J. Single fraction radiosurgery/stereotactic body radiation therapy (SBRT) for spine metastasis: A dosimetric comparison of multiple delivery platforms. *J Appl Clin Med Phys.* 2017 Jan;18(1):164-169. Karmanos Cancer Institute, Detroit, MI

Yang J, Ma L, Wang XS, Xu WX, Cong XH, Xu SP, Ju ZJ, Du L, Cai BN, Yang J. Dosimetric evaluation of 4 different treatment modalities for curative-intent stereotactic body radiation therapy for isolated thoracic spinal metastases. *Med Dosim.* 2016 Summer;41(2):105-12. First Affiliated Hospital of Xinxiang Medical University, Henan, China

Mori Y, Kawamura T, Ohshima Y, Takeuchi A, Mori T, Ishiguchi T. Stereotactic Radiotherapy for Cervical Spinal Intramedullary Metastasis and Multiple Brain Metastases: A Case Report. *Cureus.* 2016 Apr 27;8(4):e590. Aichi Medical University, Nagakute, Aichi, Japan

Zach L, Tsvang L, Alezra D, Ben Ayun M, Harel R. Volumetric Modulated Arc Therapy for Spine Radiosurgery: Superior Treatment Planning and Delivery Compared to Static Beam Intensity Modulated Radiotherapy. *Biomed Res Int.* 2016 Sheba Medical Center, Ramat Gan, Israel

Zhen H, Hrycushko B, Lee H, Timmerman R, Pompoš A, Stojadinovic S, Foster R, Jiang SB, Solberg T, Gu X. Dosimetric comparison of Acuros® XB with collapsed cone convolution/superposition and anisotropic analytic algorithm for stereotactic ablative radiotherapy of thoracic spinal metastases. *J Appl Clin Med Phys.* 2015 Jul;16(4):181-192. UT Southwestern Medical Center, Dallas, TX

Ryu S, Yoon H, Stessin A, Gutman F, Rosiello A, Davis R. Contemporary treatment with radiosurgery for spine metastasis and spinal cord compression in 2015. *Radiat Oncol J*. 2015 Mar; 33(1): 1–11 Henry Ford Health System, Detroit, MI

Snyder KC, Wen N, Huang Y, Kim J, Zhao B, Siddiqui S, Chetty IJ, Ryu S. Use of jaw tracking in intensity modulated and volumetric modulated arc radiation therapy for spine stereotactic radiosurgery. *Pract Radiat Oncol*. 2015 May-Jun;5(3):e155-62. Henry Ford Health System, Detroit, MI

Lee I, Omodon M, Rock J, Shultz L, Ryu S. Stereotactic radiosurgery for high-grade metastatic epidural cord compression. *J Radiosurg SBRT*. 2014; 3(1): 51–58. Henry Ford Health System, Detroit, MI

Chae SM, Lee GW, Son SH. The effect of multileaf collimator leaf width on the radiosurgery planning for spine lesion treatment in terms of the modulated techniques and target complexity. *Radiat Oncol*. 2014 Mar 8;9:72. Catholic University of Korea, Incheon, Korea

Ong CL, Dahele M, Cuijpers JP, Senan S, Slotman BJ, Verbakel WF. Dosimetric impact of intrafraction motion during RapidArc® stereotactic vertebral radiation therapy using flattened and flattening filter-free beams. *Int J Radiat Oncol Biol Phys*. 2013 Jul 1;86(3):420-5. VU University Medical Center, Amsterdam, The Netherlands

Dahdal S, Andres RH, Hewer E, Reubi JC, Klaeser B, Raabe A, Cihoric N, Schmid R, Tänzler K, Krause T, Aebersold DM, Schmuecking M. A rare case of a large spinal meningioma with mediastinal extension and malignant behavior classified histologically as benign. *Recent Results Cancer Res*. 2013;194:443-55. University of Bern, Bern, Switzerland

Ong CL, Verbakel WF, Dahele M, Cuijpers JP, Slotman BJ, Senan S. Fast arc delivery for stereotactic body radiotherapy of vertebral and lung tumors. *Int J Radiat Oncol Biol Phys*. 2012 May 1;83(1):e137-43. VU University Medical Center, Amsterdam, The Netherlands

Kuijper IT, Dahele M, Senan S, Verbakel WF. Volumetric modulated arc therapy versus conventional intensity modulated radiation therapy for stereotactic spine radiotherapy: a planning study and early clinical data. *Radiother Oncol*. 2010 Feb;94(2):224-8. VU University Medical Center, Amsterdam, The Netherlands

Mancosu P, Navarria P, Bignardi M, Cozzi L, Fogliata A, Lattuada P, Santoro A, Urso G, Vigorito S, Scorsetti M. Re-irradiation of metastatic spinal cord compression: a feasibility study by volumetric-modulated arc radiotherapy for in-field recurrence creating a dosimetric hole on the central canal. *Radiother Oncol*. 2010 Jan;94(1):67-70. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Wu QJ, Yoo S, Kirkpatrick JP, Thongphiew D, Yin FF. Volumetric arc intensity-modulated therapy for spine body radiotherapy: comparison with static intensity-modulated treatment. *Int J Radiat Oncol Biol Phys*. 2009 Dec 1;75(5):1596-604. Duke University, Durham, NC

Thoracic

Matsuoka T, Araki F, Ohno T, Sakata J, Tominaga H. Dependence of volume dose indices on dose calculation algorithms for VMAT-SBRT plans for peripheral lung tumor. *Med Dosim*. 2019 Autumn;44(3):284-290. Kumamoto University, Kumamoto, Japan

Pan CH, Shiau AC, Li KC, Hsu SH, Liang JA. The irregular breathing effect on target volume and coverage for lung stereotactic body radiotherapy. *J Appl Clin Med Phys*. 2019 Jul;20(7):109-120 China Medical University Hospital, Taichung, Taiwan

Tsurugai Y, Takeda A, Sanuki N, Eriguchi T, Aoki Y, Oku Y, Akiba T, Sugawara A, Kunieda E. Stereotactic body radiotherapy for patients with non-small-cell lung cancer using RapidArc delivery and a steep dose gradient: prescription of 60% isodose line of maximum dose fitting to the planning target volume. *J Radiat Res*. 2019 May 1;60(3):364-370. Ofuna Chuo Hospital, Kanagawa, Japan

Narayanasamy G, Desai D, Maraboyina S, Penagaricano J, Zwicker R, Johnson EL. A Dose Falloff Gradient Study in RapidArc Planning of Lung Stereotactic Body Radiation Therapy. *J Med Phys*. 2018 Jul-Sep;43(3):147-154. University of Arkansas for Medical Sciences, Little Rock, AR

Chairmadurai A, Goel HC, Jain SK, Kumar P. Radiobiological analysis of stereotactic body radiation therapy for an evidence-based planning target volume of the lung using multiphase CT images obtained with a pneumatic abdominal compression apparatus: a case study. *Radiol Phys Technol*. 2017 Dec;10(4):525-534. Jaypee Hospital, Noida, UP, India

Xhaferllari I, El-Sherif O, Gaede S. Comprehensive dosimetric planning comparison for early-stage, non-small cell lung cancer with SABR: fixed-beam IMRT versus VMAT versus TomoTherapy. *J Appl Clin Med Phys*. 2016 Sep 8;17(5):6291 London Regional Cancer Program, London, ON, Canada

Zhang JY, Lu JY, Wu LL, Hong DL, Ma CC, Peng X, Lin ZX. A dosimetric and treatment efficiency evaluation of stereotactic body radiation therapy for peripheral lung cancer using flattening filter free beams. *Oncotarget*. 2016 Nov 8;7(45):73792-73799 Cancer Hospital of Shantou University Medical College, Shantou, China

Chen H, Louie AV, Boldt RG, Rodrigues GB, Palma DA, Senan S. [Quality of Life After Stereotactic Ablative Radiotherapy for Early-Stage Lung Cancer: A Systematic Review](#). *Clin Lung Cancer*. 2016 Sep;17(5):e141-e149. London Regional Cancer Center, London, ON, Canada

Franceschini D, De Rose F, Fogliata A, Navarra P, Ascolese AM, Franzese C, Comito T, Tozzi A, Iftode C, Di Brina L, D'Agostino G, Clerici E, Cozzi L, Scorsetti M. [Volumetric modulated arc therapy for thoracic node metastases: a safe and effective treatment for a neglected disease](#). *Oncotarget*. 2016 Aug 16;7(33):53321-53329. Humanitas Cancer Center and Research Hospital, Milan-Rozzano, Italy

Scorsetti M, Franceschini D, De Rose F, Comito T, Villa E, Iftode C, Navarra P, D'Agostino GR, Masci G, Torrissi R, Testori A, Tinterri C, Santoro A. [Stereotactic body radiation therapy: A promising chance for oligometastatic breast cancer](#). *Breast*. 2016 Apr;26:11-7. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Mattonen SA, Palma DA, Johnson C, Louie AV, Landis M, Rodrigues G, Chan I, Etemad-Rezai R, Yeung TP, Senan S, Ward AD. [Detection of Local Cancer Recurrence After Stereotactic Ablative Radiation Therapy for Lung Cancer: Physician Performance Versus Radiomic Assessment](#). *Int J Radiat Oncol Biol Phys*. 2016 Apr 1;94(5):1121-8. London Regional Cancer Center, London, ON, Canada

Binkley MS, Shrager JB, Chaudhuri A, Popat R, Maxim PG, Shultz DB, Diehn M, Loo BW Jr. [Time course and predictive factors for lung volume reduction following stereotactic ablative radiotherapy \(SABR\) of lung tumors](#). *Radiat Oncol*. 2016 Mar 15;11:40. Stanford University School of Medicine, Stanford, California

De Rose F, Cozzi L, Navarra P, Ascolese AM, Clerici E, Infante M, Alloisio M, Testori A, Toschi L, Finocchiaro G, Santoro A, Scorsetti M. [Clinical Outcome of Stereotactic Ablative Body Radiotherapy for Lung Metastatic Lesions in Non-small Cell Lung Cancer Oligometastatic Patients](#). *Clin Oncol (R Coll Radiol)*. 2016 Jan;28(1):13-20. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Yu AS, von Eyben R, Yamamoto T, Diehn M, Shultz DB, Loo BW Jr, Maxim PG. [Anatomic optimization of lung tumor stereotactic ablative radiation therapy](#). *Pract Radiat Oncol*. 2015 Nov-Dec;5(6):e607-13. Stanford University School of Medicine, Stanford, CA

Lu JY, Lin Z, Lin PX, Huang BT. [Optimizing the flattening filter free beam selection in RapidArc®-based stereotactic body radiotherapy for Stage I lung cancer](#). *Br J Radiol*. 2015 Sep;88(1053):20140827. Second Affiliated Hospital of Shantou University Medical College, Shantou, China

Louie AV, Haasbeek CJ, Mokhles S, Rodrigues GB, Stephans KL, Lagerwaard FJ, Palma DA, Videtic GM, Warner A, Takkenberg JJ, Reddy CA, Maat AP, Woody NM, Slotman BJ, Senan S. [Predicting Overall Survival After Stereotactic Ablative Radiation Therapy in Early-Stage Lung Cancer: Development and External Validation of the Amsterdam Prognostic Model](#). *Int J Radiat Oncol Biol Phys*. 2015 Sep 1;93(1):82-90. London Regional Cancer Center, London, ON, Canada

Huang BT, Lu JY, Lin PX, Chen JZ, Kuang Y, Chen CZ. [Comparison of Two RapidArc® Delivery Strategies in Stereotactic Body Radiotherapy of Peripheral Lung Cancer with Flattening Filter Free Beams](#). *PLoS One*. 2015 Jul 1;10(7):e0127501. Shantou University Medical College, Shantou, Guangdong, China

Navarra P, Ascolese AM, Cozzi L, Tomatis S, D'Agostino GR, De Rose F, De Sanctis R, Marrari A, Santoro A, Fogliata A, Cariboni U, Alloisio M, Quagliuolo V, Scorsetti M. [Stereotactic body radiation therapy for lung metastases from soft tissue sarcoma](#). *Eur J Cancer*. 2015 Mar;51(5):668-74. Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Scorsetti M, Navarra P, De Rose F, Ascolese A, Clerici E, Franzese C, Lobefalo F, Reggiori G, Mancosu P, Tomatis S, Fogliata A, Cozzi L. [Outcome and toxicity profiles in the treatment of locally advanced lung cancer with volumetric modulated arc therapy](#). *J Cancer Res Clin Oncol*. 2014 Nov;140(11):1937-45. Istituto Clinico Humanitas Cancer Center, Rozzano, Milan, Italy

Binkley MS, Shrager JB, Leung AN, Popat R, Trakul N, Atwood TF, Chaudhuri A, Maxim PG, Diehn M, Loo BW Jr. [Lung volume reduction after stereotactic ablative radiation therapy of lung tumors: potential application to emphysema](#). *Int J Radiat Oncol Biol Phys*. 2014 Sep 1;90(1):216-23. Stanford University School of Medicine, Stanford, CA

Shultz DB, Jang SS, Hanlon AL, Diehn M, Loo BW, Maxim PG. [The effect of arm position on the dosimetry of thoracic stereotactic ablative radiation therapy using volumetric modulated arc therapy](#). *Pract Radiat Oncol*. 2014 May-Jun;4(3):192-7. Stanford University School of Medicine, Palo Alto, CA

Herbert C, Kwa W, Nakano S, James K, Moiseenko V, Wu J, Schellenberg D, Liu M. [Stereotactic body radiotherapy: volumetric modulated arc therapy versus 3D non-coplanar conformal radiotherapy for the treatment of early stage lung cancer](#). *Technol Cancer Res Treat*. 2013 Dec;12(6):511-6. British Columbia Cancer Agency, Vancouver, BC, Canada

Li R, Han B, Meng B, Maxim PG, Xing L, Koong AC, Diehn M, Loo BW Jr. [Clinical Implementation of Intrafraction Cone Beam Computed Tomography Imaging During Lung Tumor Stereotactic Ablative Radiation Therapy](#). *Int J Radiat Oncol Biol Phys*. 2013 Dec 1;87(5):917-23. Stanford University School of Medicine, Palo Alto, CA

Corradetti MN, Mitra N, Millar LPB, Byun J, Wan F, Apisarnthanarax S, Christodouleas J, Anderson N, Simone CB, Teo BK, Rengan R. A moving target: Image guidance for stereotactic body radiation therapy for early stage non-small cell lung cancer. *Pract Radiat Oncol*. 2013 Oct-Dec 2013;3(4): 307-315. University of Pennsylvania, Philadelphia, PA

Herbert C, Kwa W, Nakano S, James K, Moiseenko V, Wu J, Schellenberg D, Liu M. Stereotactic Body Radiotherapy: Volumetric Modulated Arc Therapy Versus 3D Non-coplanar Conformal Radiotherapy for the Treatment of Early Stage Lung Cancer. *Technol Cancer Res Treat*. 2013 Dec;12(6):511-6 British Columbia Cancer Agency, Vancouver, BC, Canada

Prendergast BM, Dobelbower MC, Bonner JA, Popple RA, Baden CJ, Minnich DJ, Cerfolio RJ, Spencer SA, Fiveash JB. Stereotactic body radiation therapy (SBRT) for lung malignancies: preliminary toxicity results using a flattening filter-free linear accelerator operating at 2400 monitor units per minute. *Radiat Oncol*. 2013 Nov 20;8(1):273. The University of Alabama at Birmingham, Birmingham, AL

Li X, Yang Y, Li T, Fallon K, Heron DE, Huq MS. Dosimetric effect of respiratory motion on volumetric-modulated arc therapy-based lung SBRT treatment delivered by TrueBeam® machine with flattening filter-free beam. *J Appl Clin Med Phys*. 2013 Nov 4;14(6):4370. University of Pittsburgh Medical Center, Pittsburgh, PA

Chan MK, Kwong DL, Law GM, Tam E, Tong A, Lee V, Ng SC. Dosimetric evaluation of four-dimensional dose distributions of CyberKnife® and volumetric-modulated arc radiotherapy in stereotactic body lung radiotherapy. *J Appl Clin Med Phys*. 2013 Jul 8;14(4):4229. The University of Hong Kong, Hong Kong, China

Navarria P, Ascolese AM, Mancosu P, Alongi F, Clerici E, Tozzi A, Iftode C, Reggiori G, Tomatis S, Infante M, Alloisio M, Testori A, Fogliata A, Cozzi L, Morengi E, Scorsetti M. Volumetric modulated arc therapy with flattening filter free (FFF) beams for stereotactic body radiation therapy (SBRT) in patients with medically inoperable early stage non small cell lung cancer (NSCLC). *Radiother Oncol*. 2013 Jun;107(3):414-8. Istituto Clinico Humanitas, Rozzano, Milano, Italy

Peguret N, Dahele M, Cuijpers JP, Slotman BJ, Verbakel WF. Frameless high dose rate stereotactic lung radiotherapy: intrafraction tumor position and delivery time. *Radiother Oncol*. 2013 Jun;107(3):419-22. VU University Medical Center, Amsterdam, The Netherlands

Ding L, Lo YC, Kadish S, Goff D, Pieters RS, Graeber G, Uy K, Quadri S, Moser R, Martin K, Day J, Fitzgerald TJ. Volume Modulated Arc Therapy (VMAT) for pulmonary Stereotactic Body Radiotherapy (SBRT) in patients with lesions in close approximation to the chest wall. *Front Oncol*. 2013 Feb 22;3:12. University of Massachusetts Memorial Health Care System Worcester, MA

Trakul N, Chang CN, Harris J, Chapman C, Rao A, Shen J, Quinlan-Davidson S, Filion EJ, Wakelee HA, Colevas AD, Whyte RI, Dieterich S, Maxim PG, Hristov D, Tran P, Le QT, Loo BW Jr, Diehn M. Tumor volume-adapted dosing in stereotactic ablative radiotherapy of lung tumors. *Int J Radiat Oncol Biol Phys*. 2012 Sep 1;84(1):231-7. Stanford University School of Medicine, Stanford, CA

Trakul N, Harris JP, Le QT, Hara WY, Maxim PG, Loo BW Jr, Diehn M. Stereotactic ablative radiotherapy for reirradiation of locally recurrent lung tumors. *J Thorac Oncol*. 2012 Sep;7(9):1462-5. Stanford University School of Medicine, Stanford, CA

Morrow CE, Wang IZ, Podgorsak MB. A dosimetric evaluation of VMAT for the treatment of non-small cell lung cancer. *J Appl Clin Med Phys*. 2012 Sep 1;14(1):4110. Roswell Park Cancer Institute, Buffalo, NY

Dahele M, Verbakel W, Cuijpers J, Slotman B, Senan S. An analysis of patient positioning during stereotactic lung radiotherapy performed without rigid external immobilization. *Radiother Oncol*. 2012 Jul;104(1):28-32. VU University Medical Center, Amsterdam, The Netherlands

Palma DA, van Sörnsen de Koste J, Verbakel WF, Vincent A, Senan S. Lung density changes after stereotactic radiotherapy: a quantitative analysis in 50 patients. *Int J Radiat Oncol Biol Phys*. 2011 Nov 15;81(4):974-8. VU University Medical Center, Amsterdam, The Netherlands

Ross CC, Kim JJ, Chen ZJ, Grew DJ, Chang BW, Decker RH. A novel modified dynamic conformal arc technique for treatment of peripheral lung tumors using stereotactic body radiation therapy. *Pract Radiat Oncol*. 2011 Oct; 1(2):126-134. Yale University School of Medicine, New Haven, CT

Palma DA, Senan S, Haasbeek CJ, Verbakel WF, Vincent A, Lagerwaard F. Radiological and clinical pneumonitis after stereotactic lung radiotherapy: a matched analysis of three-dimensional conformal and volumetric-modulated arc therapy techniques. *Int J Radiat Oncol Biol Phys*. 2011 Jun 1;80(2):506-13. VU University Medical Center, Amsterdam, The Netherlands

Ong CL, Verbakel WF, Cuijpers JP, Slotman BJ, Lagerwaard FJ, Senan S. Stereotactic radiotherapy for peripheral lung tumors: a comparison of volumetric modulated arc therapy with 3 other delivery techniques. *Radiother Oncol*. 2010 Dec;97(3):437-42. VU University Medical Center, Amsterdam, The Netherlands

Ong CL, Palma D, Verbakel WF, Slotman BJ, Senan S. Treatment of large stage I-II lung tumors using stereotactic body radiotherapy (SBRT): planning considerations and early toxicity. *Radiother Oncol*. 2010 Dec;97(3):431-6. VU University Medical Center, Amsterdam, The Netherlands

Verbakel WF, Senan S, Cuijpers JP, Slotman BJ, Lagerwaard FJ. [Rapid delivery of stereotactic radiotherapy for peripheral lung tumors using volumetric intensity-modulated arcs](#). *Radiother Oncol*. 2009 Oct;93(1):122-4. VU University Medical Center, Amsterdam, The Netherlands

Gastrointestinal

Liu Y, Lei Y, Wang T, Kayode O, Tian S, Liu T, Patel P, Curran WJ, Ren L, Yang X. [MRI-based treatment planning for liver stereotactic body radiotherapy: validation of a deep learning-based synthetic CT generation method](#). *Br J Radiol*. 2019 Aug;92(1100):20190067. Emory University, Atlanta, GA

Bae SH, Kim MS, Il Jang W, Kim KB, Cho KH, Kim WC, Lee CY, Kim ES, Choi CW, Chang AR, Jo S, Kim JY. [Quality assurance for a multicenter Phase II study of stereotactic ablative radiotherapy for hepatocellular carcinoma \$\leq 5\$ cm: a planning dummy run](#). *Jpn J Clin Oncol*. 2017 Jun 1;47(6):535-542. Soonchunhyang University College of Medicine, Bucheon, Asan, South Korea

Comito T, Cozzi L, Clerici E, Franzese C, Tozzi A, Iftode C, Navarra P, D'Agostino G, Rimassa L, Carnaghi C, Personeni N, Tronconi MC, De Rose F, Franceschini D, Ascolese AM, Fogliata A, Tomatis S, Santoro A, Zerbi A, Scorsetti M. [Can Stereotactic Body Radiation Therapy Be a Viable and Efficient Therapeutic Option for Unresectable Locally Advanced Pancreatic Adenocarcinoma? Results of a Phase 2 Study](#). *Technol Cancer Res Treat*. 2017 Jun;16(3):295-301. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Comito T, Cozzi L, Zerbi A, Franzese C, Clerici E, Tozzi A, Iftode C, Navarra P, D'Agostino G, Fogliata A, Mancosu P, Tomatis S, Carnaghi C, Personeni N, Santoro A, Scorsetti M. [Clinical results of stereotactic body radiotherapy \(SBRT\) in the treatment of isolated local recurrence of pancreatic cancer after R0 surgery: A retrospective study](#). *Eur J Surg Oncol*. 2017 Apr;43(4):735-742. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Llacer-Moscardo C, Riou O, Azria D, Bedos L, Ailleres N, Quenet F, Rouanet P, Ychou M, Fenoglio P. [Imaged-guided liver stereotactic body radiotherapy using VMAT and real-time adaptive tumor gating. Concerns about technique and preliminary clinical results](#). *Rep Pract Oncol Radiother*. 2017 Mar-Apr;22(2):141-149. Montpellier Cancer Institute (ICM), Montpellier, France

Franzese C, Franceschini D, Cozzi L, D'Agostino G, Comito T, De Rose F, Navarra P, Mancosu P, Tomatis S, Fogliata A, Scorsetti M. [Minimally Invasive Stereotactical Radio-ablation of Adrenal Metastases as an Alternative to Surgery](#). *Cancer Res Treat*. 2017 Jan;49(1):20-28. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Franzese C, Cozzi L, Franceschini D, D'Agostino G, Comito T, De Rose F, Navarra P, Mancosu P, Tomatis S, Fogliata A, Scorsetti M. [Role of Stereotactic Body Radiation Therapy with Volumetric-Modulated Arcs and High-Intensity Photon Beams for the Treatment of Abdomino-Pelvic Lymph-Node Metastases](#). *Cancer Invest*. 2016 Aug 8;34(7):348-54. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Scorsetti M, Franceschini D, De Rose F, Comito T, Villa E, Iftode C, Navarra P, D'Agostino GR, Masci G, Torrisi R, Testori A, Tinterri C, Santoro A. [Stereotactic body radiation therapy: A promising chance for oligometastatic breast cancer](#). *Breast*. 2016 Apr;26:11-7. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Shi C, Chen Y, Fang DX, Iannuzzi C. [Application of modified dynamic conformal arc \(MDCA\) technique on liver stereotactic body radiation therapy \(SBRT\) planning following RTOG 0438 guideline](#). *Med Dosim*. 2015 Spring;40(1):26-31. St. Vincent's Medical Center, Bridgeport, CT

Shen S, Jacob R, Bender LW, Duan J, Spencer SA. [A technique using 99mTc-mebrofenin SPECT for radiotherapy treatment planning for liver cancers or metastases](#). *Med Dosim*. 2014 Spring;39(1):7-11. The University of Alabama at Birmingham, Birmingham, AL

Wang PM, Hsu WC, Chung NN, Chang FL, Jang CJ, Fogliata A, Scorsetti M, Cozzi L. [Feasibility of stereotactic body radiation therapy with volumetric modulated arc therapy and high intensity photon beams for hepatocellular carcinoma patients](#). *Radiat Oncol*. 2014 Jan 10;9(1):18. Cheng-Ching General Hospital, Taichung, Taiwan

Yang W, Fraass BA, Reznik R, Nissen N, Lo S, Jamil LH, Gupta K, Sandler H, Tuli R. [Adequacy of inhale/exhale breathhold CT based ITV margins and image-guided registration for free-breathing pancreas and liver SBRT](#). *Radiat Oncol*. 2014 Jan 9;9(1):11. Cedars Sinai Medical Center, Los Angeles, CA

Tozzi A, Comito T, Alongi F, Navarra P, Iftode C, Mancosu P, Reggiori G, Clerici E, Rimassa L, Zerbi A, Fogliata A, Cozzi L, Tomatis S, Scorsetti M. [SBRT in unresectable advanced pancreatic cancer: preliminary results of a mono-institutional experience](#). *Radiat Oncol*. 2013 Jun 21;8(1):148. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Scorsetti M, Arcangeli S, Tozzi A, Comito T, Alongi F, Navarra P, Mancosu P, Reggiori G, Fogliata A, Torzilli G, Tomatis S, Cozzi L. [Is stereotactic body radiation therapy an attractive option for unresectable liver metastases? A preliminary report from a phase 2 trial](#). *Int J Radiat Oncol Biol Phys*. 2013 Jun 1;86(2):336-42 IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Alongi F, Fogliata A, Clerici E, Navarra P, Tozzi A, Comito T, Ascolese AM, Clivio A, Lobefalo F, Reggiori G, Cozzi L, Mancosu P, Tomatis S, Scorsetti M. Volumetric modulated arc therapy with flattening filter free beams for isolated abdominal/pelvic lymph nodes: report of dosimetric and early clinical results in oligometastatic patients. *Radiat Oncol.* 2012 Dec 5;7(1):204. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Reggiori G, Mancosu P, Castiglioni S, Alongi F, Pellegrini C, Lobefalo F, Catalano M, Fogliata A, Arcangeli S, Navarra P, Cozzi L, Scorsetti M. Can volumetric modulated arc therapy with flattening filter free beams play a role in stereotactic body radiotherapy for liver lesions? A volume-based analysis. *Med Phys.* 2012 Feb;39(2):1112-8. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Mancosu P, Castiglioni S, Reggiori G, Catalano M, Alongi F, Pellegrini C, Arcangeli S, Tozzi A, Lobefalo F, Fogliata A, Navarra P, Cozzi L, Scorsetti M. Stereotactic body radiation therapy for liver tumours using flattening filter free beam: dosimetric and technical considerations. *Radiat Oncol.* 2012 Feb 1;7(1):16. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Bignardi M, Navarra P, Mancosu P, Cozzi L, Fogliata A, Tozzi A, Castiglioni S, Carnaghi C, Tronconi MC, Santoro A, Scorsetti M. Clinical outcome of hypofractionated stereotactic radiotherapy for abdominal lymph node metastases. *Int J Radiat Oncol Biol Phys.* 2011 Nov 1;81(3):831-8. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Scorsetti M, Bignardi M, Alongi F, Fogliata A, Mancosu P, Navarra P, Castiglioni S, Pentimalli S, Tozzi A, Cozzi L. Stereotactic body radiation therapy for abdominal targets using volumetric intensity modulated arc therapy with RapidArc®: feasibility and clinical preliminary results. *Acta Oncol.* 2011 May;50(4):528-38. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Scorsetti M, Mancosu P, Navarra P, Tozzi A, Castiglioni S, Clerici E, Reggiori G, Lobefalo F, Fogliata A, Cozzi L. Stereotactic body radiation therapy (SBRT) for adrenal metastases: a feasibility study of advanced techniques with modulated photons and protons. *Strahlenther Onkol.* 2011 Apr;187(4):238-44. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Bignardi M, Cozzi L, Fogliata A, Lattuada P, Mancosu P, Navarra P, Urso G, Vigorito S, Scorsetti M. Critical appraisal of volumetric modulated arc therapy in stereotactic body radiation therapy for metastases to abdominal lymph nodes. *Int J Radiat Oncol Biol Phys.* 2009 Dec 1;75(5):1570-7. Istituto Clinico Humanitas, Rozzano, Italy

Genitourinary

Jereczek-Fossa BA, Rojas DP, Zerini D, Fodor C, Viola A, Fanetti G, Volpe S, Luraschi R, Bazani A, Rondi E, Cattani F, Vavassori A, Garibaldi C, Alessi S, Pricolo P, Petralia G, Cozzi G, De Cobelli O, Musi G, Orecchia R, Marvaso G, Ciardo D. Reirradiation for isolated local recurrence of prostate cancer: Mono-institutional series of 64 patients treated with salvage stereotactic body radiotherapy (SBRT). *Br J Radiol.* 2019 Feb;92(1094):20180494. European Institute of Oncology IRCCS, Milan, Italy

Duffton A, Sadozye A, Devlin L, MacLeod N, Lamb C, Currie S, McLoone P, Sankaralingam M, Foster J, Paterson S, Keatings S, Dodds D. Safety and feasibility of prostate stereotactic ablative radiotherapy using multimodality imaging and flattening filter free. *Br J Radiol.* 2018 Apr;91(1084):20170625. Beatson West of Scotland Cancer Centre, Glasgow, United Kingdom

Seppälä J, Suilamo S, Tenhunen M, Sailas L, Virsunen H, Kaleva E, Keyriläinen J. Dosimetric Comparison and Evaluation of 4 Stereotactic Body Radiotherapy Techniques for the Treatment of Prostate Cancer. *Technol Cancer Res Treat.* 2017 Apr;16(2):238-245. Kuopio University Hospital, Kuopio, Finland

Kang SW, Chung JB, Kim JS, Kim IA, Eom KY, Song C, Lee JW, Kim JY, Suh TS. Optimal planning strategy among various arc arrangements for prostate stereotactic body radiotherapy with volumetric modulated arc therapy technique. *Radiol Oncol.* 2017 Jan 15;51(1):112-120. The Catholic University of Korea, Seoul, Korea

D'Agostino G, Franzese C, De Rose F, Franceschini D, Comito T, Villa E, Alongi F, Liardo R, Tomatis S, Navarra P, Mancosu P, Reggiori G, Cozzi L, Scorsetti M. High-quality Linac-based Stereotactic Body Radiation Therapy with Flattening Filter Free Beams and Volumetric Modulated Arc Therapy for Low-Intermediate Risk Prostate Cancer. A Mono-institutional Experience with 90 Patients. *Clin Oncol (R Coll Radiol).* 2016 Dec;28(12):e173-e178. Istituto Clinico Humanitas Cancer Center and Research Hospital, Rozzano, Milan, Italy

Avkshol V, Dong Y, Hayes SB, Hallman MA, Price RA, Sobczak ML, Horwitz EM, Zaorsky NG. A comparison of robotic arm versus gantry linear accelerator stereotactic body radiation therapy for prostate cancer. *Res Rep Urol.* 2016 Aug 18;8:145-58. Fox Chase Cancer Center, Philadelphia, PA

Baker CB, McDonald AM, Yang ES, Jacob R, Rais-Bahrami S, Nix JW, Fiveash JB. Pelvic Radiotherapy versus Radical Prostatectomy with Limited Lymph Node Sampling for High-Grade Prostate Adenocarcinoma. *Prostate Cancer.* 2016;2016:2674954. The University of Alabama at Birmingham, Birmingham, AL

Ruggieri R, Naccarato S, Stavrev P, Stavreva N, Fersino S, Giaj Levra N, Mazzola R, Mancosu P, Scorsetti M, Alongi F. Volumetric-modulated arc stereotactic body radiotherapy for prostate cancer: dosimetric impact of an increased near-maximum target dose and of a rectal spacer. *Br J Radiol.* 2015 Oct;88(1054):20140736. Ospedale 'Sacro Cuore - don Calabria', Negrar, Italy

Devereux T, Pham D, Kron T, Foroudi F, Supple J, Siva S. A planning study investigating dual-gated volumetric arc stereotactic treatment of primary renal cell carcinoma. *Med Dosim.* 2015 Spring;40(1):82-8. Peter MacCallum Cancer Centre, Melbourne, Australia

Lin YW, Lin LC, Lin KL. The early result of whole pelvic radiotherapy and stereotactic body radiotherapy boost for high-risk localized prostate cancer. *Front Oncol.* 2014 Oct 31;4:278. Kaohsiung Medical University, Kaohsiung, Taiwan

Scorsetti M, Alongi F, Clerici E, Comito T, Fogliata A, Iftode C, Mancosu P, Navarra P, Reggiori G, Tomatis S, Villa E, Cozzi L. Stereotactic body radiotherapy with flattening filter-free beams for prostate cancer: assessment of patient-reported quality of life. *J Cancer Res Clin Oncol.* 2014 Oct;140(10):1795-800. Istituto Clinico Humanitas Cancer Center, Rozzano, Milan, Italy

Lin YW, Lin KH, Ho HW, Lin HM, Lin LC, Lee SP, Chui CS. Treatment plan comparison between stereotactic body radiation therapy techniques for prostate cancer: Non-isocentric CyberKnife® versus isocentric RapidArc®. *Phys Med.* 2014 Sep;30(6):654-61. Chi Mei Medical Center, Tainan, Taiwan

Macdougall ND, Dean C, Muirhead R. Stereotactic Body Radiotherapy in Prostate Cancer: Is RapidArc® a Better Solution than CyberKnife®? *Clin Oncol (R Coll Radiol).* 2014 Jan;26(1):4-9. St. Bartholomew's Hospital, London, United Kingdom

Tree A, Jones C, Sohaib A, Khoo V, van As N. Prostate stereotactic body radiotherapy with simultaneous integrated boost: which is the best planning method? *Radiat Oncol.* 2013 Oct 2;8(1):228. Royal Marsden NHS Foundation Trust, London, United Kingdom

Azcona JD, Li R, Mok E, Hancock S, Xing L. Automatic prostate tracking and motion assessment in volumetric modulated arc therapy with an electronic portal imaging device. *Int J Radiat Oncol Biol Phys.* 2013 Jul 15;86(4):762-8. Stanford University, Stanford, CA

Alongi F, Cozzi L, Arcangeli S, Iftode C, Comito T, Villa E, Lobefalo F, Navarra P, Reggiori G, Mancosu P, Clerici E, Fogliata A, Tomatis S, Taverna G, Graziotti P, Scorsetti M. Linac based SBRT for prostate cancer in 5 fractions with VMAT and flattening filter free beams: preliminary report of a phase II study. *Radiat Oncol.* 2013 Jul 8;8(1):171. Istituto Clinico Humanitas, Rozzano, Milano, Italy

Gynecology

Laliscia C, Fabrini MG, Delishaj D, Morganti R, Greco C, Cantarella M, Tana R, Paiar F, Gadducci A. Clinical Outcomes of Stereotactic Body Radiotherapy in Oligometastatic Gynecological Cancer. *Int J Gynecol Cancer.* 2017 Feb;27(2):396-402. University of Pisa, Pisa, Italy

General SRS & SBRT

Al-Hallaq HA, Chmura SJ, Salama JK, Lowenstein JR, McNulty S, Galvin JM, Followill DS, Robinson CG, Pisansky TM, Winter KA, White JR, Xiao Y, Matuszak MM. Benchmark Credentialing Results for NRG-BRO01: The First National Cancer Institute-Sponsored Trial of Stereotactic Body Radiation Therapy for Multiple Metastases. *Int J Radiat Oncol Biol Phys.* 2017 Jan 1;97(1):155-163. University of Chicago, Chicago, IL

Sapkaroski D, Osborne C, Knight KA. A review of stereotactic body radiotherapy - is volumetric modulated arc therapy the answer? *J Med Radiat Sci.* 2015 Jun;62(2):142-51. Monash University Clayton, Victoria, Australia

Owen D, Laack NN, Mayo CS, Garces YI, Park SS, Bauer HJ, Nelson K, Miller RW, Brown PR, Oliver KR. Outcomes and toxicities of stereotactic body radiation therapy for non-spine bone oligometastases. *Pract Radiat Oncol.* 2014 Mar-Apr;4(2):e143-9 Mayo Clinic, Rochester, MN

Thomas EM, Popple RA, Prendergast BM, Clark GM, Dobelbower MC, Fiveash JB. Effects of flattening filter-free and volumetric-modulated arc therapy delivery on treatment efficiency. *J Appl Clin Med Phys.* 2013 Nov 4;14(6):4328. The University of Alabama at Birmingham, Birmingham, AL

Amendola BE, Amendola M, Perez N, Iglesias A, Wu X. Volumetric-modulated arc therapy with RapidArc®: An evaluation of treatment delivery efficiency. *Rep Pract Oncol Radiother.* 2013 Aug 17;18(6):383-386. Innovative Cancer Institute, South Miami, FL

Prendergast BM, Fiveash JB, Popple RA, Clark GM, Thomas EM, Minnich DJ, Jacob R, Spencer SA, Bonner JA, Dobelbower MC. Flattening filter-free linac improves treatment delivery efficiency in stereotactic body radiation therapy. *J Appl Clin Med Phys.* 2013 May 6;14(3):4126. The University of Alabama at Birmingham, Birmingham, AL

Lang S, Shrestha B, Graydon S, Cavelaars F, Linsenmeier C, Hrbacek J, Klöck S, Studer G, Riesterer O. Clinical application of flattening filter free beams for extracranial stereotactic radiotherapy. *Radiother Oncol.* 2013 Feb;106(2):255-9. University Hospital Zurich, Zurich, Switzerland

Roa DE, Schiffner DC, Zhang J, Dietrich SN, Kuo JV, Wong J, Ramsinghani NS, Al-Ghazi MS. The use of RapidArc® volumetric-modulated arc therapy to deliver stereotactic radiosurgery and stereotactic body radiotherapy to intracranial and extracranial targets. *Med Dosim.* 2012 Autumn;37(3):257-64. University of California, Irvine-Medical Center, Orange, CA

Ong CL, Verbakel WF, Dahele M, Cuijpers JP, Slotman BJ, Senan S. Fast arc delivery for stereotactic body radiotherapy of vertebral and lung tumors. *Int J Radiat Oncol Biol Phys.* 2012 May 1;83(1):e137-43 VU University Medical Center, Amsterdam, The Netherlands

Scorsetti M, Alongi F, Castiglioni S, Clivio A, Fogliata A, Lobefalo F, Mancosu P, Navarria P, Palumbo V, Pellegrini C, Pentimalli S, Reggiori G, Ascolese AM, Roggio A, Arcangeli S, Tozzi A, Vanetti E, Cozzi L. Feasibility and early clinical assessment of flattening filter free (FFF) based stereotactic body radiotherapy (SBRT) treatments. *Radiat Oncol.* 2011 Sep 12;6:113. IRCCS Istituto Clinico Humanitas, Rozzano, Italy

Popple RA, Fiveash JB, Brezovich IA, Bonner JA. RapidArc® radiation therapy: first year experience at the University of Alabama at Birmingham. *Int J Radiat Oncol Biol Phys.* 2010 Jul 1;77(3):932-41. The University of Alabama at Birmingham, Birmingham, AL

Physics and Dosimetry

Covington EL, Snyder JD, Wu X, Cardan RA, Popple RA. Assessing the feasibility of single target radiosurgery quality assurance with portal dosimetry. *J Appl Clin Med Phys.* 2019 May;20(5):135-140. The University of Alabama at Birmingham, Birmingham, AL

Snyder KC, Xhaferllari I, Huang Y, Siddiqui MS, Chetty IJ, Wen N. Evaluation and verification of the QFix Encompass™ couch insert for intracranial stereotactic radiosurgery. *J Appl Clin Med Phys.* 2018 Jul;19(4):222-229. Henry Ford Health System, Detroit, MI

Yuan Y, Thomas EM, Clark GA, Markert JM, Fiveash JB, Popple RA. Evaluation of multiple factors affecting normal brain dose in single-isocenter multiple target radiosurgery. *J Radiosurg SBRT.* 2018;5(2):131-144. The University of Alabama at Birmingham, Birmingham, AL

Huang Y, Zhao B, Kim J, Wen N, Chetty IJ, Siddiqui S. Targeting accuracy at couch kick for a frameless image guided radiosurgery system. *J Radiosurg SBRT.* 2018;5(2):123-129. Henry Ford Health System, Detroit, MI

Middlebrook ND, Sutherland B, Kairn T. Optimization of the dosimetric leaf gap for use in planning VMAT treatments of spine SABR cases. *J Appl Clin Med Phys.* 2017 Jul;18(4):133-139. John Flynn Private Hospital, Tugun, Australia

Hao Xu, Stephen Brown, Indrin J. Chetty, Ning Wen. A Systematic Analysis of Errors in Target Localization and Treatment Delivery for Stereotactic Radiosurgery Using 2D/3D Image Registration. *Technol Cancer Res Treat.* 2017 Jun; 16(3): 321–331. Henry Ford Health System, Detroit, MI

Gardner SJ, Lu S, Liu C, Wen N, Chetty IJ. Tuning of AcurosXB source size setting for small intracranial targets. *J Appl Clin Med Phys.* 2017 May;18(3):170-181. Henry Ford Health System Henry Ford Health System, Detroit, MI

Cuijpers JP, Dahele M, Jonker M, Kraan B, Senan S, Slotman B, Verbakel WF. Analysis of components of variance determining probability of setup errors in CBCT-guided stereotactic radiotherapy of lung tumors. *Med Phys.* 2017 Feb;44(2):382-388. VU University Medical Center, Amsterdam, The Netherlands

Wen N, Snyder KC, Scheib SG, Schmelzer P, Qin Y, Li H, Siddiqui MS, Chetty IJ. Technical Note: Evaluation of the systematic accuracy of a frameless, multiple image modality guided, linear accelerator based stereotactic radiosurgery system. *Med Phys.* 2016 May;43(5):2527. Henry Ford Health System, Detroit, MI

Huang Y, Zhao B, Chetty IJ, Brown S, Gordon J, Wen N. Targeting Accuracy of Image-Guided Radiosurgery for Intracranial Lesions: A Comparison Across Multiple Linear Accelerator Platforms. *Technol Cancer Res Treat.* 2016 Apr;15(2):243-8. Henry Ford Health System, Detroit, MI

Wen N, Li H, Song K, Chin-Snyder K, Qin Y, Kim J, Bellon M, Gulam M, Gardner S, Doemer A, Devpura S, Gordon J, Chetty I, Siddiqui F, Ajlouni M, Pompa R, Hammoud Z, Simoff M, Kalkanis S, Movsas B, Siddiqui MS. Characteristics of a novel treatment system for linear accelerator-based stereotactic radiosurgery. *J Appl Clin Med Phys.* 2015 Jul 8;16(4):5313. Henry Ford Health System, Detroit, MI

Serna A, Puchades V, Mata F, Ramos D, Alcaraz M. Influence of multi-leaf collimator leaf width in radiosurgery via volumetric modulated arc therapy and 3D dynamic conformal arc therapy. *Phys Med.* 2015 May;31(3):293-6. Santa Lucia University Hospital, Murcia, Spain

Ren L, Zhang Y, Yin FF. A limited-angle intrafraction verification (LIVE) system for radiation therapy. *Med Phys.* 2014 Feb;41(2):020701. Duke University Durham, NC

Lack DW, Kakakhel A, Starin R, Snyder M. Teflon cylindrical phantom for delivery quality assurance of stereotactic body radiotherapy (SBRT). *J Appl Clin Med Phys.* 2014 Jan 6;15(1):4536. Karmanos Cancer Center, Detroit, MI

Rana S, Rogers K, Pokharel S, Cheng C. Evaluation of Acuros® XB algorithm based on RTOG 0813 dosimetric criteria for SBRT lung treatment with RapidArc®. *J Appl Clin Med Phys.* 2014 Jan 6;15(1):4474. Arizona Center for Cancer Care, Peoria, AZ

Riley C, Yang Y, Li T, Zhang Y, Heron DE, Huq MS. Dosimetric evaluation of the interplay effect in respiratory-gated RapidArc® radiation therapy. *Med Phys.* 2014 Jan;41(1):011715. University of Pittsburgh Medical Center, Pittsburgh, PA

Thomas A, Niebanck M, Juang T, Wang Z, Oldham M. A comprehensive investigation of the accuracy and reproducibility of a multitarget single isocenter VMAT radiosurgery technique. *Med Phys.* 2013 Dec;40(12):121725. Duke University Medical Center, Durham, NC

Li X, Yang Y, Li T, Fallon K, Heron DE, Huq MS. Dosimetric effect of respiratory motion on volumetric-modulated arc therapy-based lung SBRT treatment delivered by TrueBeam® machine with flattening filter-free beam. *J Appl Clin Med Phys.* 2013 Nov 4;14(6):4370. University of Pittsburgh Medical Center, Pittsburgh, PA

Liu B, Adamson J, Rodrigues A, Zhou F, Yin FF, Wu Q. A novel technique for VMAT QA with EPID in cine mode on a Varian TrueBeam® linac. *Phys Med Biol.* 2013 Oct 7;58(19):6683-700. Image Processing Center, Beihang University, Beijing, China

Rana S, Rogers K, Lee T, Reed D, Biggs C. Dosimetric impact of Acuros® XB dose calculation algorithm in prostate cancer treatment using RapidArc®. *J Cancer Res Ther.* 2013 Jul-Sep;9(3):430-5. Arizona Center for Cancer Care, Peoria, AZ

Ong CL, Dahele M, Slotman BJ, Verbakel WF. Dosimetric impact of the interplay effect during stereotactic lung radiation therapy delivery using flattening filter-free beams and volumetric modulated arc therapy. *Int J Radiat Oncol Biol Phys.* 2013 Jul 15;86(4):743-8. VU University Medical Center, Amsterdam, The Netherlands

Ong CL, Dahele M, Cuijpers JP, Senan S, Slotman BJ, Verbakel WF. Dosimetric impact of intrafraction motion during RapidArc® stereotactic vertebral radiation therapy using flattened and flattening filter-free beams. *Int J Radiat Oncol Biol Phys.* 2013 Jul 1;86(3):420-5. VU University Medical Center, Amsterdam, The Netherlands

Kroon PS, Hol S, Essers M. Dosimetric accuracy and clinical quality of Acuros® XB and AAA dose calculation algorithm for stereotactic and conventional lung volumetric modulated arc therapy plans. *Radiat Oncol.* 2013 Jun 24;8(1):149. Institute Verbeeten, Tilburg, The Netherlands

Kathirvel M, Subramanian S, Clivio A, Arun G, Fogliata A, Nicolini G, Subramani V, Thirumalai Swamy S, Vanetti E, Cozzi L. Critical appraisal of the accuracy of Acuros® XB and Anisotropic Analytical Algorithm compared to measurement and calculations with the compass system in the delivery of RapidArc® clinical plans. *Radiat Oncol.* 2013 Jun 11;8(1):140. Oncology Institute of Southern Switzerland, Bellinzona, Switzerland

Li R, Mok E, Chang DT, Daly M, Loo BW Jr, Diehn M, Le QT, Koong A, Xing L. Intrafraction Verification of Gated RapidArc® by Using Beam-Level Kilovoltage X-Ray Images. *Int J Radiat Oncol Biol Phys.* 2012 Aug 1;83(5):e709-15. Stanford University School of Medicine, Stanford, CA

Fakir H, Gaede S, Mulligan M, Chen JZ. Development of a novel ArcCHECK™ insert for routine quality assurance of VMAT delivery including dose calculation with inhomogeneities. *Med Phys.* 2012 Jul;39(7):4203-8. London Regional Cancer Program, London, Ontario, Canada

Li R, Mok E, Han B, Koong A, Xing L. Evaluation of the geometric accuracy of surrogate-based gated VMAT using intrafraction kilovoltage x-ray images. *Med Phys.* 2012 May;39(5):2686-93. Stanford University, Stanford, CA

Seppala J, Suilamo S, Kulmala J, Mali P, Minn H. A dosimetric phantom study of dose accuracy and build-up effects using IMRT and RapidArc® in stereotactic irradiation of lung tumours. *Radiat Oncol.* 2012 May 31;7:79. Turku University Hospital, Turku, Finland

Ong CL, Verbakel WF, Dahele M, Cuijpers JP, Slotman BJ, Senan S. Fast Arc Delivery for Stereotactic Body Radiotherapy of Vertebral and Lung Tumors. *Int J Radiat Oncol Biol Phys.* 2012 May 1;83(1):e137-43. VU University Medical Center, Amsterdam, The Netherlands

Fogliata A, Nicolini G, Clivio A, Vanetti E, Cozzi L. Accuracy of Acuros® XB and AAA dose calculation for small fields with reference to RapidArc® stereotactic treatments. *Med Phys.* 2011 Nov;38(11):6228-37. Oncology Institute of Southern Switzerland, Bellinzona, Switzerland

Zhang GG, Ku L, Dilling TJ, Stevens CW, Zhang RR, Li W, Feygelman V. Volumetric modulated arc planning for lung stereotactic body radiotherapy using conventional and unflattened photon beams: a dosimetric comparison with 3D technique. *Radiat Oncol.* 2011 Nov 9;6:152. Moffitt Cancer Center, Tampa, FL

Ong CL, Cuijpers JP, Senan S, Slotman BJ, Verbakel WF. Impact of the calculation resolution of AAA for small fields and RapidArc® treatment plans. *Med Phys.* 2011 Aug;38(8):4471-9. VU University Medical Center, Amsterdam, The Netherlands

Qian J, Xing L, Liu W, Luxton G. Dose verification for respiratory-gated volumetric modulated arc therapy. *Phys Med Biol.* 2011 Aug 7;56(15):4827-38. Stanford University Medical Center, Stanford, CA

Zhang P, Mah D, Happersett L, Cox B, Hunt M, Mageras G. Determination of action thresholds for electromagnetic tracking system-guided hypofractionated prostate radiotherapy using volumetric modulated arc therapy. *Med Phys.* 2011 Jul;38(7):4001-8. Memorial Sloan Kettering Cancer Center, New York, NY

Yang Y, Zhang P, Happersett L, Xiong J, Yang J, Chan M, Beal K, Mageras G, Hunt M. Choreographing couch and collimator in volumetric modulated arc therapy. *Int J Radiat Oncol Biol Phys.* 2011 Jul 15;80(4):1238-47. Memorial Sloan Kettering Cancer Center, New York, NY

Ong C, Verbakel WF, Cuijpers JP, Slotman BJ, Senan S. Dosimetric impact of interplay effect on RapidArc® lung stereotactic treatment delivery. *Int J Radiat Oncol Biol Phys.* 2011 Jan 1;79(1):305-11. VU University Medical Center, Amsterdam, The Netherlands

Nicolini G, Vanetti E, Clivio A, Fogliata A, Cozzi L. Pre-clinical evaluation of respiratory-gated delivery of volumetric modulated arc therapy with RapidArc®. *Phys Med Biol.* 2010 Jun 21;55(12):N347-57. Oncology Institute of Southern Switzerland, Medical Physics Unit, Bellinzona, Switzerland

Zhang P, Happersett L, Yang Y, Yamada Y, Mageras G, Hunt M. Optimization of collimator trajectory in volumetric modulated arc therapy: development and evaluation for paraspinal SBRT. *Int J Radiat Oncol Biol Phys.* 2010 Jun 1;77(2):591-9. Memorial Sloan Kettering Cancer Center, New York, NY

Intended Use Summary

Varian Medical Systems' linear accelerators are intended to provide stereotactic radiosurgery and precision radiotherapy for lesions, tumors, and conditions anywhere in the body where radiation treatment is indicated.

Safety Statement

Radiation treatments may cause side effects that can vary depending on the part of the body being treated. The most frequent ones are typically temporary and may include, but are not limited to, irritation to the respiratory, digestive, urinary or reproductive systems, fatigue, nausea, skin irritation, and hair loss. In some patients, they can be severe. Treatment sessions may vary in complexity and time. Radiation treatment is not appropriate for all cancers.

varian

varian.com

USA, Corporate Headquarters and Manufacturer

Varian Medical Systems, Inc.
3100 Hansen Way
Palo Alto, CA 94304
Tel: 650.424.5700
800.544.4636

Headquarters Europe, Eastern Europe, Middle & Near East, India, Africa

Varian Medical Systems International AG
Steinhausen, Switzerland
Tel: 41.41.749.8844

Asia Pacific Headquarters

Varian Medical Systems Pacific, Inc.
Kowloon, Hong Kong
Tel: 852.2724.2836

Australasian Headquarters

Varian Medical Systems Australasia Pty Ltd.
Sydney, Australia
Tel: 61.2.9485.0111

Latin American Headquarter

Varian Medical Systems Brasil Ltda.
São Paulo, Brazil
Tel: 55.11.3457.2655

© 2012, 2013-2016, 2018, 2019 Varian Medical Systems, Inc. All rights reserved. Varian, Varian Medical Systems, Acuros, RapidArc, and TrueBeam are registered trademarks of Varian Medical Systems, Inc. All other trademarks are the property of their respective owners.