

Radiosurgery

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Radiosurgery is a medical procedure which allows non-invasive brain surgery, i.e., without actually opening the skull, by means of directed beams of ionizing radiation. It is a relatively recent technique, which is used to destroy, by means of a precise dosage of radiation, intracranial tumors and other lesions that could be otherwise inaccessible or inadequate for open surgery. There are many nervous diseases for which conventional surgical treatment is difficult or has many deleterious consequences for the patient, due to arteries, nerves, and other vital structures being damaged. ([From the Wikipedia article Radiosurgery.](#))



Recent Publications on Radiosurgery:

- [Brain metastases from testicular germ cell tumors: a retrospective analysis.](#)
*OBJECTIVES: To review our series of testicular germ cell tumors with brain...*30th October, 2009
Department of Urology, Osaka University Graduate School of Medicine,- Int J Urol. 2009 Nov;16(11):887-93. ([DOI Direct Link](#))
- [Salvage chemotherapy with paclitaxel and gemcitabine plus nedaplatin \(TGN\) as part of multidisciplinary therapy in patients with heavily pretreated cisplatin-refractory germ cell tumors.](#)
*BACKGROUND: We investigated the efficacy and toxicity of a regimen...*27th October, 2009
Department of Urology, Graduate School of Medical Science, Kyoto- Int J Clin Oncol. 2009 Oct;14(5):436-41. Epub 2009 Oct 25. ([DOI Direct Link](#))
- [Stereotactic radiosurgery for skull base meningioma.](#)
*Stereotactic radiosurgery is now a treatment option for meningiomas,...*27th October, 2009
Department of Radiology, Teikyo University School of Medicine, Tokyo,- Neurol Med Chir (Tokyo). 2009 Oct;49(10):456-61.
- [Cord dose specification and validation for stereotactic body radiosurgery of spine.](#)
*Effective dose to a portion of the spinal cord in treatment segment,...*27th October, 2009
Department of Radiation Oncology, Henry Ford Health System, Detroit, MI,- Med Dosim. 2009 Winter;34(4):285-92. Epub 2009 Jan 14. ([DOI Direct Link](#))
- [Treatment of brain metastases from renal cell cancer.](#)
*OBJECTIVE: To evaluate disease pattern, patient characteristics, and...*27th October, 2009
Department of Internal Medicine, Division of Oncology, Nordland Hospital,- Urol Oncol. 2009 Oct 23. ([DOI Direct Link](#))
- [Endovascular treatment of intracranial arteriovenous malformation.](#)
*Arteriovenous malformations (AVMs) of the brain are vascular lesions in...*27th October, 2009
Department of Neurosurgery, Columbia University, College of Physicians and- Neurosurg Clin N Am. 2009 Oct;20(4):399-418. ([DOI Direct Link](#))
- [Stereotactic radiosurgery for the treatment of lung neoplasm: experience in 100 consecutive patients.](#)
*BACKGROUND: Surgical resection is the standard of care for patients with...*27th October, 2009

- Heart, Lung, and Esophageal Surgery Institute, University of Pittsburgh- Ann Thorac Surg. 2009 Nov;88(5):1594-600; discussion 1600. ([DOI Direct Link](#))
- [Gamma Knife radiosurgery for trigeminal neuralgia: the impact of magnetic resonance imaging-detected vascular impingement of the affected nerve.](#)
*Object Trigeminal neuralgia is believed to be related to vascular...*27th October, 2009
Departments of Neurological Surgery and.- J Neurosurg. 2009 Oct 23. ([DOI Direct Link](#))
 - [Hypofractionated stereotactic radiotherapy and radiosurgery for the treatment of patients with radioresistant brain metastases.](#)
*AIM: To evaluate the efficacy of different radiotherapy treatment...*23rd October, 2009
O. U. of Radiotherapy and Radiosurgery, Istituto Clinico Humanitas, via- Anticancer Res. 2009 Oct;29(10):4259-63.
 - [Clinical analysis of novalis stereotactic radiosurgery for brain metastases.](#)
*OBJECTIVE: The authors analyzed the effectiveness and therapeutic response...*22nd October, 2009
Department of Neurosurgery, Novalis Radiosurgery Center, Inje University- J Korean Neurosurg Soc. 2009 Sep;46(3):245-51. Epub 2009 Sep 30. ([DOI Direct Link](#))
 - [Micromultileaf collimator-based stereotactic radiosurgery for selected arteriovenous malformations: technique and preliminary experience.](#)
*PURPOSE: To report our experience of stereotactic radiosurgery (SRS) in...*21st October, 2009
Department of Radiation Oncology, Tata Memorial Hospital, Mumbai, India.- J Cancer Res Ther. 2009 Jul-Sep;5(3):186-91. ([DOI Direct Link](#))
 - [Reirradiation for progressive brain metastases.](#)
*Brain metastases constitute one of the most common distant metastases of...*21st October, 2009
Department of Radiation Oncology, Delhi State Cancer Institute, New Delhi,- J Cancer Res Ther. 2009 Jul-Sep;5(3):161-4. ([DOI Direct Link](#))
 - [The role of salvage reirradiation for malignant gliomas that progress on bevacizumab.](#)
*Bevacizumab and irinotecan are effective against recurrent malignant...*20th October, 2009
Hermelin Brain Tumor Center, Henry Ford Health System, 2799 W Grand Blvd,- J Neurooncol. 2009 Oct 17. ([DOI Direct Link](#))
 - [Feasibility of Single-Isocenter Volumetric Modulated Arc Radiosurgery for Treatment of Multiple Brain Metastases.](#)
*PURPOSE: To evaluate the relative plan quality of single-isocenter vs....*20th October, 2009
Department of Radiation Oncology, University of Alabama at Birmingham- Int J Radiat Oncol Biol Phys. 2009 Oct 14. ([DOI Direct Link](#))
 - [Treatment of brain arteriovenous malformations with high-flow arteriovenous fistulas: risk and complications associated with endovascular embolization in multimodality treatment.](#)
*Object High-flow fistulas associated with brain arteriovenous...*20th October, 2009
Division of Interventional Neuroradiology, Department of Radiological- J Neurosurg. 2009 Oct 16. ([DOI Direct Link](#))

BioNews Results for Radiosurgery

- [Accuray to focus on its CyberKnife Robotic Radiosurgery System at the ASTRO meeting](#)
News-Medical.Net: Oct 31 2009 5:45AM Matching: radiosurgery
- [Robotic Radiosurgery Review](#)
Advance for Imaging & Radiation Oncology: Oct 29 2009 10:17AM Matching: radiosurgery
- [Elekta Provides Complete Planning, Treatment and Workflow Solution for Roy and Patricia Disney ...](#)
Medicexchange.com: Oct 29 2009 9:00AM Matching: radiosurgery
- [Elekta Provides Complete Planning, Treatment and Workflow Solution for Roy and Patricia Disney Family Cancer C](#)
PR Newswire: Oct 27 2009 6:44PM Matching: radiosurgery

- [Elekta Provides Complete Planning, Treatment and Workflow Solution for Roy and Patricia Disney Family Cancer C](#)
PR Newswire via Yahoo!: Oct 27 2009 1:31PM Matching: radiosurgery
- [Elekta Provides Complete Planning, Treatment and Workflow Solution for Roy and Patricia Disney Family Cancer C](#)
Houston Chronicle: Oct 27 2009 1:29PM Matching: radiosurgery
- [Elekta's Radiosurgery Solutions on Center Stage at 2009 CNS Annual Meeting](#)
Medicexchange.com: Oct 24 2009 10:22AM Matching: radiosurgery
- [Medical News: Elekta's Radiosurgery Solutions On Center Stage At 2009 Congress Of Neurological Surgeons Annual Meeting Extend Receives FDA 510\(K\) Clearance](#)
Medical News Today: Oct 24 2009 4:40AM Matching: radiosurgery
- [Elekta's Radiosurgery Solutions On Center Stage At 2009 Congress Of Neurological Surgeons Annual Meeting Exten](#)
Medical News Today: Oct 24 2009 2:21AM Matching: radiosurgery
- [Elektas Radiosurgery Solutions On Center Stage At 2009 Congress Of Neurological Surgeons Annual Meeting Extend](#)
Pharmacy Choice: Oct 23 2009 2:54PM Matching: radiosurgery
- [Elekta's Radiosurgery Solutions on Center Stage at 2009 Congress of Neurological Surgeons Annual Meeting](#)
Individual.com: Oct 23 2009 1:18PM Matching: radiosurgery
- [Elekta: Elektas Radiosurgery Solutions on Center Stage at 2009 Congress of Neurological Surgeons Annual Mee](#)
Genetic Engineering News: Oct 23 2009 11:18AM Matching: radiosurgery
- [Elekta: Elektas Radiosurgery Solutions on Center Stage at 2009 Congress of Neurological Surgeons Annual Mee](#)
Genetic Engineering News: Oct 23 2009 9:18AM Matching: radiosurgery
- [Accuray Announces Regionalized Management Strategy for Americas New Organization Drives Focus on Sales and Revenue Growth](#)
Yahoo! Canada: Oct 21 2009 2:54PM Matching: radiosurgery
- [Accuray Announces Regionalized Management Strategy for Americas](#)
TickerTech.com: Oct 21 2009 1:26PM Matching: radiosurgery

Radiosurgery Clinical Trials:



- [A Study of Spinal Radiosurgery](#)

Radiosurgery Patents:



- 7400755- [Inverse planning using optimization constraints derived from image intensity](#)
- 7481758- [Pharmaceutically enhanced low-energy radiosurgery](#)
- 7482334- [Therapeutic treatment methods](#)
- 7482606- [Apparatus and method for compensation of movements of a target volume during ion beam irradiation](#)
- 7486775- [Tissue irradiation device with at least one electron source and numerous radiation heads](#)
- 7494456- [Tissue positioning systems and methods for use with radiation therapy](#)
- 7494457- [Brachytherapy apparatus and method for treating a target tissue through an external surface of the tissue](#)
- 7496174- [Portable orthovoltage radiotherapy](#)
- 7505037- [Direct volume rendering of 4D deformable volume images](#)
- 7505559- [Determining a target-to-surface distance and using it for real time absorbed dose calculation and compensation](#)
- 7505617- [Fiducial-less tracking with non-rigid image registration](#)
- 7480399- [Apparatus and method for determining measure of similarity between images](#)
- 7479140- [Intelligent selection system for electrosurgical instrument](#)
- 7477722- [Imaging geometry for image-guided radiosurgery](#)
- 7402312- [Antibodies to vascular endothelial growth factor 2 \(VEGF-2\)](#)
- 7402392- [In vivo panning for ligands to radiation-induced molecules](#)
- 7402819- [Respiration phantom for quality assurance](#)
- 7412029- [Treatment planning, simulation, and verification system](#)
- 7426318- [Motion field generation for non-rigid image registration](#)
- 7449019- [Intervertebral decompression](#)
- 7450985- [Head restraint system for medical research, diagnosis and operation](#)
- 7452538- [Death domain containing receptor 4 antibodies and methods](#)
- 7453976- [Computerized tomography image reconstruction](#)
- 7476384- [Death domain containing receptor 4 antibody and methods](#)
- 7507842- [Cyclic nitro compounds, pharmaceutical compositions thereof and uses thereof](#)
- 7514537- [Chimeric immunoreceptor useful in treating human gliomas](#)
- 7564946- [Orthovoltage radiotherapy](#)
- 7566808- [Management of ophthalmologic disorders, including macular degeneration](#)
- 7567834- [Method and apparatus for implantation between two vertebral bodies](#)
- 7570791- [Method and apparatus for performing 2D to 3D registration](#)
- 7590219- [Automatically determining a beam parameter for radiation treatment planning](#)
- 7593505- [Method for automatic anatomy-specific treatment planning protocols based on historical integration of previously accepted plans](#)
- 7594753- [Phantom insert for quality assurance](#)
- 7599730- [Navigation system for cardiac therapies](#)
- 7604405- [Integrated quality assurance for an image guided radiation treatment delivery system](#)
- 7604799- [EphA4 Antibodies](#)
- 7563223- [Tumescent skin spacing method](#)
- 7552490- [Method and apparatus for patient loading and unloading](#)
- 7547687- [Therapeutic treatment methods](#)
- 7520848- [Robotic apparatus for targeting and producing deep, focused transcranial magnetic stimulation](#)
- 7522779- [Image enhancement method and system for fiducial-less tracking of treatment targets](#)
- 7524275- [Drug eluting brachytherapy methods and apparatus](#)
- 7531167- [Herpes simplex virus vector](#)
- 7531810- [Integrated half-beam profile measurement and polar profile for circular radiation field symmetry assessment](#)
- 7532942- [Method and apparatus for generating a technologist quality assurance scorecard](#)
- 7535991- [Portable orthovoltage radiotherapy](#)
- 7539528- [Using magnetic resonance imaging to directly map neuronal activity](#)

- 7542791- [Method and apparatus for preplanning a surgical procedure](#)
- 7544768- [Peptides for inducing apoptosis in tumor cells](#)
- 7606613- [Navigational guidance via computer-assisted fluoroscopic imaging](#)

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