

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:

- [CT-Guided Fiducial Placement for CyberKnife Stereotactic Radiosurgery: An Initial Experience.](#)
CyberKnife frameless image-guided radiosurgery has become a widely used... 13th November, 2009
"Sotiria" General Hospital of Chest Diseases, Mesogeion Ave. 152, 11527,- Cardiovasc Intervent Radiol. 2009 Nov 12. ([DOI Direct Link](#))
- [Radiosurgery for brain metastasis from advanced gastric cancer.](#)
PURPOSE: We retrospectively evaluated the survival of patients with brain... 13th November, 2009
Department of Neurosurgery, Seoul National University Bundang Hospital,- Acta Neurochir (Wien). 2009 Nov 12. ([DOI Direct Link](#))
- [Adjuvant Gamma Knife radiosurgery following surgical resection of brain metastases: a 9-year retrospective cohort study.](#)
Given the potential morbidity of whole brain radiation therapy (WBRT),... 12th November, 2009
Department of Neurosurgery, Tufts Medical Center, 800 Washington Street,- J Neurooncol. 2009 Nov 12. ([DOI Direct Link](#))
- [CNS complications of radiotherapy and chemotherapy.](#)
Treatment-induced CNS toxicity remains a major cause of morbidity in... 10th November, 2009
INSERM, U975, Paris, France.- Lancet. 2009 Nov 7;374(9701):1639-51. ([DOI Direct Link](#))
- [Quality of life after gamma knife radiosurgery treatment in patients with a vestibular schwannoma: the patient's perspective.](#)
This study evaluates the impact of gamma knife radiosurgery (GKRS) on the... 7th November, 2009
Department of Otorhinolaryngology, Head and Neck Surgery, Donders- Eur Arch Otorhinolaryngol. 2009 Nov 6. ([DOI Direct Link](#))
- [Radiosurgical considerations in the treatment of large cerebral arteriovenous malformations.](#)
OBJECTIVE: In order to establish the role of Gamma Knife radiosurgery... 7th November, 2009
Department of Neurosurgery, School of Medicine, Kyung Hee University,- J Korean Neurosurg Soc. 2009 Oct;46(4):378-84. Epub 2009 Oct 31. ([DOI Direct Link](#))
- [Gamma knife radiosurgery after stereotactic aspiration for large cystic brain metastases.](#)
OBJECTIVE: Several treatment options have proven effective for metastatic... 7th November, 2009

Department of Neurological Surgery, Asan Medical Center, University of- J Korean Neurosurg Soc. 2009 Oct;46(4):360-4. Epub 2009 Oct 31. ([DOI Direct Link](#))

- [Vestibular schwannomas - when should conservative management be reconsidered?](#)
*Objective: To document the natural history of vestibular schwannomas...*6th November, 2009
University Hospital of Wales Cardiff, Neurosurgery, Heath Park, Cardiff,- Br J Neurosurg. 2009 Nov 3.
- [Gamma knife radiosurgery treatment planning for small animals using high-resolution 7T micro-magnetic resonance imaging.](#)
*Gamma Knife stereotactic radiosurgery is capable of providing small, high...*4th November, 2009
Department of Radiation Oncology, Wake Forest University School of- Radiat Res. 2009 Nov;172(5):625-31. ([DOI Direct Link](#))
- [Protecting venous structures during radiosurgery for parasagittal meningiomas.](#)
*Symptomatic edema is a potential complication of meningioma radiosurgery....*3rd November, 2009
Departments of Neurosurgery, University of Messina, Italy.- Neurosurg Focus. 2009 Nov;27(5):E11. ([DOI Direct Link](#))
- [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](#))

BioNews Results for Radiosurgery

- [Accuray Hires General Manager for Japan](#)
Red Orbit: Nov 13 2009 4:19PM Matching: radiosurgery
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FinanzNachrichten.de: Nov 13 2009 1:41PM Matching: radiosurgery
- [Accuray Hires General Manager for Japan](#)
Yahoo! Canada: Nov 13 2009 1:40PM Matching: radiosurgery
- [Accuray Hires General Manager for Japan](#)
PR Newswire via MSN Money: Nov 13 2009 1:39PM Matching: radiosurgery
- [Presentations at 2009 ASTRO Highlight Varian's RapidArc Radiotherapy](#)
Medicexchange.com: Nov 13 2009 7:53AM Matching: radiosurgery
- [Accuray Incorporated to Present at Sixth Annual Lazard Healthcare Conference](#)
KSLA: Nov 12 2009 3:31PM Matching: radiosurgery
- [ASTRO: Tremors Respond to Radiosurgery Treatment](#)
MedPage Today: Nov 10 2009 7:17PM Matching: radiosurgery
- [Radial Stereotactic Radiosurgery A New Option for Patients With Inoperable NSCLC](#)
Medscape: Nov 9 2009 3:06PM Matching: radiosurgery
- [Stereotactic Radiosurgery Reduces Tremor, Complications in Parkinson's and Essential Tremor](#)
Medscape: Nov 6 2009 5:03PM Matching: radiosurgery

Radiosurgery Clinical Trials:



- [A Study of Spinal Radiosurgery](#)

Radiosurgery Patents:



- 7402392- [In vivo panning for ligands to radiation-induced molecules](#)
- 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](#)

- 7507842- [Cyclic nitro compounds, pharmaceutical compositions thereof and uses thereof](#)
- 7514537- [Chimeric immunoreceptor useful in treating human gliomas](#)
- 7482334- [Therapeutic treatment methods](#)
- 7481758- [Pharmaceutically enhanced low-energy radiosurgery](#)
- 7480399- [Apparatus and method for determining measure of similarity between images](#)
- 7402819- [Respiration phantom for quality assurance](#)
- 7412029- [Treatment planning, simulation, and verification system](#)
- 7426318- [Motion field generation for non-rigid image registration](#)
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- 7453976- [Computerized tomography image reconstruction](#)
- 7476384- [Death domain containing receptor 4 antibody and methods](#)
- 7477722- [Imaging geometry for image-guided radiosurgery](#)
- 7479140- [Intelligent selection system for electrosurgical instrument](#)
- 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](#)
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