

Stanford



John R. Adler, MD

The Dorothy and Thye King Chan Professor in Neurosurgery, Emeritus

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

CLINICAL FOCUS

- Neurological Surgery
- Neurosurgery
- Brain/Central Nervous System Cancer
- Stereotactic Radiosurgery

ACADEMIC APPOINTMENTS

- Emeritus Faculty-Med Ctr Line, Neurosurgery

ADMINISTRATIVE APPOINTMENTS

- CEO, Zap Surgical Systems, (2015-2017)
- CEO & Chairman, Cureus, Inc, (2010-2017)
- CEO, Accuray, Inc., (1999-2002)
- Chief of Clinical Innovation, Varian Medical Systems, Inc, (2009-2015)
- Chairman, Accuray, Inc., (1999-2004)
- Vice President, Western Neurosurgical Society, (2005-2006)
- President, Cyberknife Society, (2003-2008)
- Founder and Member of the Board of Directors, Accuray, Inc., (1991-2009)

HONORS AND AWARDS

- Outstanding Achievement in Medicine, Santa Clara Valley Medical Association (2007)
- The Inaugural Ideals of Entrepreneurship Award, Emerging Entrepreneurs in Biomedical Technology, Biodesign Group, Stanford University (2005)

PROFESSIONAL EDUCATION

- Residency: Brigham and Women's Hospital Harvard Medical School (1985) MA
- Fellowship: Harvard Medical School (1982) MA

- Residency: Massachusetts General Hospital (1984) MA
- Board Certification: Neurological Surgery, American Board of Neurological Surgery (1990)
- Fellowship: Karolinska Institute (1986) Sweden
- Internship: Peter Bent Brigham Hospital (1981) MA
- Medical Education: Harvard Medical School (1980) MA
- MD, Harvard University , Medicine (1980)
- AB, Harvard College (1976)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The development and implementation of computerized, image-guided surgical tools to be utilized during minimally invasive brain operations. The clinical outcome of new technologies, and in particular the application of radiosurgery, for the treatment of brain tumors. The creation of new radiosurgical techniques for a wide array of brain and spine disorders which includes 1) trigeminal neuralgia 2) spinal cord AVM 3) pituitary tumors 4) skull base meningioma 5) benign peri-optic tumors 6) brain metastases 7) acoustic neuroma 8) glomus jugulare tumors 9) brain and spine schwannoma 10) painful facet syndrome 11) radiomodulation for functional disease of the brain

CLINICAL TRIALS

- Phase I/II Study of Fractionated Stereotactic Radiosurgery to Treat Large Brain Metastases, Not Recruiting
- Radiosurgical Neuromodulation for Refractory Depression, Not Recruiting

Publications

PUBLICATIONS

- **Phase 1/2 Trial of 5-Fraction Stereotactic Radiosurgery With 5-mm Margins With Concurrent and Adjuvant Temozolomide in Newly Diagnosed Supratentorial Glioblastoma: Health-Related Quality of Life Results.** *International journal of radiation oncology, biology, physics*
Pollom, E. L., Fujimoto, D., Wynne, J., Seiger, K., Modlin, L. A., Jacobs, L. R., Azoulay, M., von Eyben, R., Tupper, L., Gibbs, I. C., Hancock, S. L., Li, G., Chang, et al
2017; 98 (1): 123-130
- **High Dose Gamma Radiation Selectively Reduces GABAA-slow Inhibition.** *Cureus*
Dagne, B. A., Sunay, M. K., Cayla, N. S., Ouyang, Y., Knox, S. J., Giffard, R. G., Adler, J. R., Maciver, B.
2017; 9 (3)
- **Embolization Followed by Radiosurgery for the Treatment of Brain Arteriovenous Malformations (AVMs)** *WORLD NEUROSURGERY*
Marks, M. P., Marcellus, M. L., Santarelli, J., Dodd, R. L., Do, H. M., Chang, S. D., Adler, J. R., Mlynash, M., Steinberg, G. K.
2017; 99: 471-476
- **Stereotactic radiosurgery for non-vestibular cranial nerve schwannomas** *JOURNAL OF NEURO-ONCOLOGY*
D'Astous, M., Ho, A. L., Pendharkar, A., Choi, C. Y., Soltys, S. G., Gibbs, I. C., Tayag, A. T., Thompson, P. A., Adler, J. R., Chang, S. D.
2017; 131 (1): 177-183
- **Radiosurgical ablation of spinal cord arteriovenous malformations.** *Handbook of clinical neurology*
Sussman, E. S., Adler, J. R., Dodd, R. L.
2017; 143: 175-187
- **Embolization followed by Radiosurgery for the Treatment of Brain Arteriovenous Malformations (AVMs).** *World neurosurgery*
Marks, M. P., Marcellus, M. L., Santarelli, J., Dodd, R. L., Do, H. M., Chang, S. D., Adler, J. R., Mlynash, M., Steinberg, G. K.
2016
- **Stereotactic radiosurgery for non-vestibular cranial nerve schwannomas.** *Journal of neuro-oncology*
D'Astous, M., Ho, A. L., Pendharkar, A., Choi, C. Y., Soltys, S. G., Gibbs, I. C., Tayag, A. T., Thompson, P. A., Adler, J. R., Chang, S. D.

2016: -?

- **The Role of Stereotactic Radiosurgery in the Reirradiation of Metastatic Spinal Tumors.** *International journal of radiation oncology, biology, physics*
Ho, C. K., Kumar, K. A., White, E. C., Azoulay, M., Fujimoto, D. K., Aggarwal, S., Gensheimer, M. F., Gibbs, I. C., Adler, J. R., Chang, S. D., Hancock, S. L., Choi, C. Y., Soltys, et al
2016; 96 (2S): E131-?
- **A Phase I/II Trial of 5 Fraction Stereotactic Radiosurgery With 5-mm Margins With Concurrent and Adjuvant Temozolomide in Newly Diagnosed Supratentorial Glioblastoma Multiforme.** *International journal of radiation oncology, biology, physics*
Azoulay, M., Ho, C. K., Fujimoto, D. K., Modlin, L. A., Gibbs, I. C., Hancock, S. L., Li, G., Chang, S. D., Adler, J. R., Harsh, G. R., Nagpal, S., Thomas, R., Recht, et al
2016; 96 (2S): E131-E132
- **Stereotactic radiosurgery for intramedullary spinal arteriovenous malformations** *JOURNAL OF CLINICAL NEUROSCIENCE*
Kalani, M. A., Choudhri, O., Gibbs, I. C., Soltys, S. G., Adler, J. R., Thompson, P. A., Tayag, A. T., Samos, C. H., Chang, S. D.
2016; 29: 162-167
- **Estimated Risk Level of Unified Stereotactic Body Radiation Therapy Dose Tolerance Limits for Spinal Cord** *SEMINARS IN RADIATION ONCOLOGY*
Grimm, J., Sahgal, A., Soltys, S. G., Luxton, G., Patel, A., Herbert, S., Xue, J., Ma, L., Yorke, E., Adler, J. R., Gibbs, I. C.
2016; 26 (2): 165-171
- **Dose-Response Modeling of the Visual Pathway Tolerance to Single-Fraction and Hypofractionated Stereotactic Radiosurgery** *SEMINARS IN RADIATION ONCOLOGY*
Hiniker, S. M., Modlin, L. A., Choi, C. Y., Atalar, B., Seiger, K., Binkley, M. S., Harris, J. P., Liao, Y. J., Fischbein, N., Wang, L., Ho, A., Lo, A., Chang, et al
2016; 26 (2): 97-104
- **Repeat Courses of Stereotactic Radiosurgery (SRS), Deferring Whole-Brain Irradiation, for New Brain Metastases After Initial SRS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Shultz, D. B., Modlin, L. A., Jayachandran, P., von Eyben, R., Gibbs, I. C., Choi, C. Y., Chang, S. D., Harsh, G. R., Li, G., Adler, J. R., Hancock, S. L., Soltys, S. G.
2015; 92 (5): 993-999
- **Current Approaches and Recent Developments in the Management of Head and Neck Paragangliomas** *ENDOCRINE REVIEWS*
Taieb, D., Kaliski, A., Boedeker, C. C., Martucci, V., Fojo, T., Adler, J. R., Pacak, K.
2014; 35 (5): 795-819
- **Risk of Leptomeningeal Disease in Patients Treated With Stereotactic Radiosurgery Targeting the Postoperative Resection Cavity for Brain Metastases** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Atalar, B., Modlin, L. A., Choi, C. Y., Adler, J. R., Gibbs, I. C., Chang, S. D., Harsh, G. R., Li, G., Nagpal, S., Hanlon, A., Soltys, S. G.
2013; 87 (4): 713-718
- **CyberKnife radiosurgery for the management of skull base and spinal chondrosarcomas.** *Journal of neuro-oncology*
Jiang, B., Veeravagu, A., Feroze, A. H., Lee, M., Harsh, G. R., Soltys, S. G., Gibbs, I. C., Adler, J. R., Chang, S. D.
2013; 114 (2): 209-218
- **Cochlea radiation dose correlates with hearing loss after stereotactic radiosurgery of vestibular schwannoma.** *World neurosurgery*
Hayden Gephart, M. G., Hansasuta, A., Balise, R. R., Choi, C., Sakamoto, G. T., Venteicher, A. S., Soltys, S. G., Gibbs, I. C., Harsh, G. R., Adler, J. R., Chang, S. D.
2013; 80 (3-4): 359-363
- **Cavity Volume Dynamics After Resection of Brain Metastases and Timing of Postresection Cavity Stereotactic Radiosurgery** *NEUROSURGERY*
Atalar, B., Choi, C. Y., Harsh, G. R., Chang, S. D., Gibbs, I. C., Adler, J. R., Soltys, S. G.
2013; 72 (2): 180-185
- **The future of robotics in radiosurgery.** *Neurosurgery*
Adler, J. R.
2013; 72: 8-11
- **Long-Term Changes in the Personality and Psychopathological Profile of Opiate Addicts after Nucleus Accumbens Ablative Surgery Are Associated with Treatment Outcome** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Ge, S., Chang, C., Adler, J. R., Zhao, H., Chang, X., Gao, L., Wu, H., Wang, J., Li, N., Wang, X., Gao, G.

2013; 91 (1): 30-44

- **The Future of Robotics in Radiosurgery** *NEUROSURGERY*
Adler, J. R.
2013; 72: A8-A11
- **What Is the Optimal Treatment of Large Brain Metastases? An Argument for a Multidisciplinary Approach** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Choi, C. Y., Chang, S. D., Gibbs, I. C., Adler, J. R., Harsh, G. R., Atalar, B., Lieberson, R. E., Soltys, S. G.
2012; 84 (3): 688-693
- **Stereotactic Radiosurgery for the Treatment of Spinal Metastases: Analysis of Tumor Control and Patterns of Failure** *54th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Soltys, S. G., Gibbs, I. C., Adler, J. R., Chang, S. D., Modlin, L. A., Choi, C. Y.
ELSEVIER SCIENCE INC.2012: S195-S195
- **Risk of Leptomeningeal Disease in Patients Treated With Stereotactic Radiosurgery Targeting the Postoperative Resection Cavity for Brain Metastases** *54th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Modlin, L. A., Atalar, B., Choi, C. Y., Gibbs, I. C., Chang, S. D., Harsh, G. R., Adler, J. R., Soltys, S. G.
ELSEVIER SCIENCE INC.2012: S116-S117
- **Stereotactic Radiosurgery of the Postoperative Resection Cavity for Brain Metastases: Prospective Evaluation of Target Margin on Tumor Control** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Choi, C. Y., Chang, S. D., Gibbs, I. C., Adler, J. R., Harsh, G. R., Lieberson, R. E., Soltys, S. G.
2012; 84 (2): 336-342
- **CyberKnife stereotactic radiosurgery for the treatment of intramedullary spinal cord metastases** *JOURNAL OF CLINICAL NEUROSCIENCE*
Veeravagu, A., Lieberson, R. E., Mener, A., Chen, Y., Soltys, S. G., Gibbs, I. C., Adler, J. R., Tian, A. G., Chang, S. D.
2012; 19 (9): 1273-1277
- **Management of intracranial and extracranial chordomas with CyberKnife stereotactic radiosurgery** *JOURNAL OF CLINICAL NEUROSCIENCE*
Jiang, B., Veeravagu, A., Lee, M., Harsh, G. R., Lieberson, R. E., Bhatti, I., Soltys, S. G., Gibbs, I. C., Adler, J. R., Chang, S. D.
2012; 19 (8): 1101-1106
- **Stereotactic Radiosurgery as the Primary Treatment for New and Recurrent Paragangliomas: Is Open Surgical Resection Still the Treatment of Choice?** *WORLD NEUROSURGERY*
Lieberson, R. E., Adler, J. R., Soltys, S. G., Choi, C., Gibbs, I. C., Chang, S. D.
2012; 77 (5-6): 745-761
- **NORMAL TISSUE COMPLICATION PROBABILITY ESTIMATION BY THE LYMAN-KUTCHER-BURMAN METHOD DOES NOT ACCURATELY PREDICT SPINAL CORD TOLERANCE TO STEREOTACTIC RADIOSURGERY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Daly, M. E., Luxton, G., Choi, C. Y., Gibbs, I. C., Chang, S. D., Adler, J. R., Soltys, S. G.
2012; 82 (5): 2025-2032
- **Trigeminal neuralgia treatment dosimetry of the Cyberknife** *MEDICAL DOSIMETRY*
Ho, A., Lo, A. T., Dieterich, S., Soltys, S. G., Gibbs, I. C., Chang, S. G., Adler, J. R.
2012; 37 (1): 42-46
- **A new age of peer reviewed scientific journals.** *Surgical neurology international*
Adler, J. R.
2012; 3: 145-?
- **Multisession Stereotactic Radiosurgery for Vestibular Schwannomas: Single-Institution Experience With 383 Cases** *NEUROSURGERY*
Hansasuta, A., Choi, C. Y., Gibbs, I. C., Soltys, S. G., Tse, V. C., Lieberson, R. E., Hayden, M. G., Sakamoto, G. T., Harsh, G. R., Adler, J. R., Chang, S. D.
2011; 69 (6): 1200-1209
- **Management of Pediatric Intracranial Arteriovenous Malformations: Experience With Multimodality Therapy** *NEUROSURGERY*
Darsaut, T. E., Guzman, R., Marcellus, M. L., Edwards, M. S., Tian, L., Do, H. M., Chang, S. D., Levy, R. P., Adler, J. R., Marks, M. P., Steinberg, G. K.
2011; 69 (3): 540-556

- **Stereotactic Radiosurgery Yields Long-term Control for Benign Intradural, Extramedullary Spinal Tumors** *NEUROSURGERY*
Sachdev, S., Dodd, R. L., Chang, S. D., Soltys, S. G., Adler, J. R., Luxton, G., Choi, C. Y., Tupper, L., Gibbs, I. C.
2011; 69 (3): 533-539
- **Stereotactic Radiosurgery of Cranial Nonvestibular Schwannomas: Results of Single- and Multisession Radiosurgery** *NEUROSURGERY*
Choi, C. Y., Soltys, S. G., Gibbs, I. C., Harsh, G. R., Sakamoto, G. T., Patel, D. A., Lieberson, R. E., Chang, S. D., Adler, J. R.
2011; 68 (5): 1200-1208
- **TOLERANCE OF THE SPINAL CORD TO STEREOTACTIC RADIOSURGERY: INSIGHTS FROM HEMANGIOBLASTOMAS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Daly, M. E., Choi, C. Y., Gibbs, I. C., Adler, J. R., Chang, S. D., Lieberson, R. E., Soltys, S. G.
2011; 80 (1): 213-220
- **TECHNIQUE FOR TARGETING ARTERIOVENOUS MALFORMATIONS USING FRAMELESS IMAGE-GUIDED ROBOTIC RADIOSURGERY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Hristov, D., Liu, L., Adler, J. R., Gibbs, I. C., Moore, T., Sarmiento, M., Chang, S. D., Dodd, R., Marks, M., Do, H. M.
2011; 79 (4): 1232-1240
- **Cyberknife Stereotactic Radiosurgery for Treatment of Atypical (Who Grade II) Cranial Meningiomas** *NEUROSURGERY*
Choi, C. Y., Soltys, S. G., Gibbs, I. C., Harsh, G. R., Jackson, P. S., Lieberson, R. E., Chang, S. D., Adler, J. R.
2010; 67 (5): 1180-1188
- **STEREOTACTIC RADIOSURGERY FOR TREATMENT OF SPINAL METASTASES RECURRING IN CLOSE PROXIMITY TO PREVIOUSLY IRRADIATED SPINAL CORD** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Choi, C. Y., Adler, J. R., Gibbs, I. C., Chang, S. D., Jackson, P. S., Minn, A. Y., Lieberson, R. E., Soltys, S. G.
2010; 78 (2): 499-506
- **Frameless image guided robotic radiosurgery of arteriovenous malformation localized on spatially correlated digital subtraction and C-arm CT angiography images** *JOURNAL OF NEUROINTERVENTIONAL SURGERY*
Hristov, D., Adler, J. R., Gibbs, I. C., Dodd, R., Marks, M., Chang, S. D., Do, H. M.
2010; 2 (3): 252-254
- **The 2009 devaluation of radiosurgery and its impact on the neurosurgery-radiation oncology partnership** *JOURNAL OF NEUROSURGERY*
Heilbrun, M. P., Adler, J. R.
2010; 113 (1): 10-15
- **Survival following Stereotactic Radiosurgery for Newly Diagnosed and Recurrent Glioblastoma Multiforme: A Multicenter Experience** *8th Meeting of the International-Stereotactic-Radiosurgery-Society*
Villavicencio, A. T., Burneikiene, S., Romanelli, P., McNeely, L., Lipani, J. D., Fariselli, L., McIntyre, M., Chang, S. D., Nelson, E. L., Broggi, G., Adler, J. R., Thramann, J. J.
KARGER.2010: 288-299
- **Stereotactic Radiosurgery of the Post-operative Resection Cavity for Brain Metastases: Optimization of the Treatment Technique** *52nd Annual Meeting of the American-Society-for-Therapeutic-Radiation-Oncology (ASTRO)*
Soltys, S. G., Gibbs, I. C., Chang, S. D., Adler, J. R., Harsh, G. R., LIEBERSON, R. E., Choi, C. Y.
ELSEVIER SCIENCE INC.2010: S7-S7
- **Can Temporal Lobe Necrosis be Prevented in Patients with Nasopharyngeal/Skull Base Tumors Undergoing a Stereotactic Radiosurgery Boost? A Dose Volume Analysis** *52nd Annual Meeting of the American-Society-for-Therapeutic-Radiation-Oncology (ASTRO)*
Hara, W., Yun, S., Hsu, A., Soltys, S., Adler, J., Le, Q., Loo, B. W.
ELSEVIER SCIENCE INC.2010: S431-S431
- **MULTISESSION CYBERKNIFE STEREOTACTIC RADIOSURGERY OF LARGE, BENIGN CRANIAL BASE TUMORS: PRELIMINARY STUDY** *NEUROSURGERY*
Tuniz, F., Soltys, S. G., Choi, C. Y., Chang, S. D., Gibbs, I. C., Fischbein, N. J., Adler, J. R.
2009; 65 (5): 898-907
- **Survival following stereotactic radiosurgery for newly diagnosed and recurrent glioblastoma multiforme: a multicenter experience** *NEUROSURGICAL REVIEW*
Villavicencio, A. T., Burneikiene, S., Romanelli, P., Fariselli, L., McNeely, L., Lipani, J. D., Chang, S. D., Nelson, E. L., McIntyre, M., Broggi, G., Adler, J. R.
2009; 32 (4): 417-424

- **STEREOTACTIC RADIOSURGICAL TREATMENT OF CRANIAL AND SPINAL HEMANGIOBLASTOMAS** *NEUROSURGERY*
Moss, J. M., Choi, C. Y., Adler, J. R., Soltys, S. G., Gibbs, I. C., Chang, S. D.
2009; 65 (1): 79-85
- **Pathogenesis and radiobiology of brain arteriovenous malformations: implications for risk stratification in natural history and posttreatment course** *NEUROSURGICAL FOCUS*
Achrol, A. S., Guzman, R., Varga, M., Adler, J. R., Steinberg, G. K., Chang, S. D.
2009; 26 (5)
- **CYBERKNIFE FOR BRAIN METASTASES OF MALIGNANT MELANOMA AND RENAL CELL CARCINOMA** *NEUROSURGERY*
Hara, W., Tran, P., Li, G., Su, Z., Puataweepong, P., Adler, J. R., Soltys, S. G., Chang, S. D., Gibbs, I. C.
2009; 64 (2): A26-A32
- **DELAYED RADIATION-INDUCED MYELOPATHY AFTER SPINAL RADIOSURGERY** *NEUROSURGERY*
Gibbs, I. C., Patil, C., Gerszten, P. C., Adler, J. R., Burton, S. A.
2009; 64 (2): A67-A72
- **CYBERKNIFE RADIOSURGERY FOR TRIGEMINAL SCHWANNOMAS** *NEUROSURGERY*
Sakamoto, G. T., Borchers, D. J., Xiao, F., Yang, H., Chang, S. D., Adler, J. R.
2009; 64 (2): A14-A18
- **FORAMINAL NERVE SHEATH TUMORS: INTERMEDIATE FOLLOW-UP AFTER CYBERKNIFE RADIOSURGERY** *NEUROSURGERY*
Murovic, J. A., Gibbs, I. C., Chang, S. D., Mobley, B. C., Park, J., Adler, J. R.
2009; 64 (2): A33-A43
- **NONISOCENTRIC RADIOSURGICAL RHIZOTOMY FOR TRIGEMINAL NEURALGIA** *NEUROSURGERY*
Adler, J. R., Bower, R., Gupta, G., Lim, M., Efron, A., Gibbs, I. C., Chang, S. D., Soltys, S. G.
2009; 64 (2): A84-A90
- **CYBERKNIFE STEREOTACTIC RADIOSURGICAL RHIZOTOMY FOR TRIGEMINAL NEURALGIA: ANATOMIC AND MORPHOLOGICAL CONSIDERATIONS** *NEUROSURGERY*
Borchers, J. D., Yang, H., Sakamoto, G. T., Howes, G. A., Gupta, G., Chang, S. D., Adler, J. R.
2009; 64 (2): A91-A95
- **Spinal Stereotactic Radiosurgery for Metastatic Tumor Recurrence within a Prior External Beam Irradiation Field** *51st Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Soltys, S. G., Gibbs, I. C., Adler, J. R., Chang, S. D., Jackson, P. S., LIEBERSON, R. E., Choi, C. Y.
ELSEVIER SCIENCE INC.2009: S126-S126
- **Stereotactic Radiosurgery Yields Long-term Control for Benign Intradural, Extramedullary Spine Tumors** *51st Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Sachdev, S., Dodd, R. L., Chang, S. D., Soltys, S. G., Adler, J. R., Luxton, G., Choi, C. Y., Tupper, L. A., Gibbs, I. C.
ELSEVIER SCIENCE INC.2009: S101-S101
- **Predictors of peritumoral edema after stereotactic radiosurgery of supratentorial meningiomas** *NEUROSURGERY*
Patil, C. G., Hoang, S., Borchers, D. J., Sakamoto, G., Soltys, S. G., Gibbs, I. C., Harsh, G. R., Chang, S. D., Adler, J. R.
2008; 63 (3): 435-440
- **Technology insight: image-guided robotic radiosurgery - a new approach for noninvasive ablation of spinal lesions** *NATURE CLINICAL PRACTICE ONCOLOGY*
Romanelli, P., Adler, J. R.
2008; 5 (7): 405-414
- **Survival following CyberKnife radiosurgery and hypofractionated radiotherapy for newly diagnosed glioblastoma multiforme** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Lipani, J. D., Jackson, P. S., Soltys, S. G., Sato, K., Adler, J. R.
2008; 7 (3): 249-255
- **Multimodality treatment of posterior fossa arteriovenous malformations** *JOURNAL OF NEUROSURGERY*
Kelly, M. E., Guzman, R., Sinclair, J., Bell-Stephens, T. E., Bower, R., Hamilton, S., Marks, M. P., Do, H. M., Chang, S. D., Adler, J. R., Levy, R. P., Steinberg, G. K.

2008; 108 (6): 1152-1161

- **Excellent local control with stereotactic radiotherapy boost after external beam radiotherapy in patients with nasopharyngeal carcinoma** *87th Annual Meeting of the American-Radium-Society*
Hara, W., Loo, B. W., Goffinet, D. R., Chang, S. D., Adler, J. R., Pinto, H. A., Fee, W. E., Kaplan, M. J., Fischbein, N. J., Le, Q.
ELSEVIER SCIENCE INC.2008: 393-400
- **Radiation therapy and CyberKnife radiosurgery in the management of craniopharyngiomas** *NEUROSURGICAL FOCUS*
Lee, M., Kalani, M. Y., Cheshier, S., Gibbs, I. C., Adler, J. R., Chang, S. D.
2008; 24 (5)
- **The use of TLD and Gafchromic film to assure submillimeter accuracy for image-guided radiosurgery** *MEDICAL DOSIMETRY*
Ho, A. K., Gibbs, I. C., Chang, S. D., Main, B., Adler, J. R.
2008; 33 (1): 36-41
- **Cyberknife radiosurgery for trigeminal neuralgia treatment: A preliminary multicenter experience** *NEUROSURGERY*
Villavicencio, A. T., Lim, M., Burneikiene, S., Romanelli, P., Adler, J. R., McNeely, L., Chang, S. D., Fariselli, L., McIntyre, M., Bower, R., Broggi, G., Thramann, J. J.
2008; 62 (3): 647-654
- **Visual field preservation after multisession cyberknife radiosurgery for perioptic lesions.** *Neurosurgery*
Adler, J. R., Gibbs, I. C., Puataweepong, P., Chang, S. D.
2008; 62: 733-743
- **Stereotactic radiosurgery of the postoperative resection cavity for brain metastases** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Soltys, S. G., Adler, J. R., Lipani, J. D., Jackson, P. S., Choi, C. Y., Puataweepong, P., White, S., Gibbs, I. C., Chang, S. D.
2008; 70 (1): 187-193
- **Radiosurgery for glomus Jugulare tumors** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Lim, M., Bower, R., Nangiana, J. S., Adler, J. R., Chang, S. D.
2007; 6 (5): 419-423
- **Cyberknife radiosurgery for lesions of the foramen magnum** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Cheshier, S. H., Hanft, S. J., Adler, J. R., Chang, S. D.
2007; 6 (4): 329-335
- **Cyberknife targeting the pterygopalatine ganglion for the treatment of chronic cluster headaches.** *Neurosurgery*
Lad, S. P., Lipani, J. D., Gibbs, I. C., Chang, S. D., Adler, J. R., Henderson, J. M.
2007; 60 (3): E580-?
- **CyberKnife targeting the pterygopalatine ganglion for the treatment of chronic cluster headaches** *NEUROSURGERY*
Lad, S. P., Lipani, J. D., Gibbs, I. C., Chang, S. D., Adler, J. R., Henderson, J. M.
2007; 60 (3): 580-581
- **Image-guided robotic radiosurgery for spinal metastases** *RADIOTHERAPY AND ONCOLOGY*
Gibbs, I. C., Kammerdsupaphon, P., Ryu, M., Dodd, R., Kiernan, M., Chang, S. D., Adler, J. R.
2007; 82 (2): 185-190
- **A study of the accuracy of CyberKnife spinal radiosurgery using skeletal structure tracking** *NEUROSURGERY*
Ho, A. K., Fu, D., Cotrutz, C., Hancock, S. L., Chang, S. D., Gibbs, I. C., Maurer, C. R., Adler, J. R.
2007; 60 (2): 147-156
- **A study of the accuracy of cyberknife spinal radiosurgery using skeletal structure tracking.** *Neurosurgery*
Ho, A. K., Fu, D., Cotrutz, C., Hancock, S. L., Chang, S. D., Gibbs, I. C., Maurer, C. R., Adler, J. R.
2007; 60 (2): ONS147-56
- **Efficacy and safety of CyberKnife radiosurgery for acromegaly.** *Pituitary*
Roberts, B. K., Ouyang, D. L., Lad, S. P., Chang, S. D., Harsh, G. R., Adler, J. R., Soltys, S. G., Gibbs, I. C., Remedios, L., Katznelson, L.
2007; 10 (1): 19-25

- **Stereotactic radiosurgery - an organized neurosurgery-sanctioned definition** *JOURNAL OF NEUROSURGERY*
Barnett, G. H., Linskey, M. E., Adler, J. R., Cozzens, J. W., Friedman, W. A., Heilbrun, M. P., Lunsford, L. D., Schulder, M., Sloan, A. E.
2007; 106 (1): 1-5
- **Irradiation of glomus jugulare tumors: a historical perspective.** *Neurosurgical focus*
Li, G., Chang, S., Adler, J. R., Lim, M.
2007; 23 (6): E13-?
- **CyberKnife rhizotomy for facetogenic back pain: a pilot study.** *Neurosurgical focus*
Li, G., Patil, C., Adler, J. R., Lad, S. P., Soltys, S. G., Gibbs, I. C., Tupper, L., Boakye, M.
2007; 23 (6): E2-?
- **CyberKnife radiosurgical rhizotomy for the treatment of atypical trigeminal nerve pain.** *Neurosurgical focus*
Patil, C. G., Veeravagu, A., Bower, R. S., Li, G., Chang, S. D., Lim, M., Adler, J. R.
2007; 23 (6): E9-?
- **Resampling: An optimization method for inverse planning in robotic radiosurgery** *MEDICAL PHYSICS*
Schweikard, A., Schlaefer, A., Adler, J. R.
2006; 33 (11): 4005-4011
- **Robotic radiosurgery for the treatment of radioresistant brain metastases** *7th Congress of the European-Association-for-Neuro-Oncology (EANO)*
Hara, W., Li, G., Puataweepong, P., Adler, J., Chang, S., Gibbs, I. C.
OXFORD UNIV PRESS INC.2006: 486-86
- **Carotid and vertebral rete mirabile in man presenting with intraparenchymal hemorrhage: a case report.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
Li, G., Jayaraman, M. V., Lad, S. P., Adler, J., Do, H., Steinberg, G. K.
2006; 15 (5): 228-231
- **Visual field preservation after multisession CyberKnife radiosurgery for perioptic lesions** *NEUROSURGERY*
Adler, J. R., Gibbs, I. C., Puataweepong, P., Chang, S. D.
2006; 59 (2): 244-253
- **Image-guided radiosurgical ablation of intra- and extra-cranial lesions** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Romanelli, P., Schaal, D. W., Adler, J. R.
2006; 5 (4): 421-428
- **Computer aided robotic radiosurgery.** *Computer aided surgery*
Romanelli, P., Schweikard, A., Schlaefer, A., Adler, J.
2006; 11 (4): 161-174
- **Multisession cyberknife radiosurgery for intramedullary spinal cord arteriovenous malformations** *NEUROSURGERY*
Sinclair, J., Chang, S. D., Gibbs, I. C., Adler, J. R.
2006; 58 (6): 1081-1088
- **3D target localization using 2D local displacements of skeletal structures in orthogonal X-ray images for image-guided spinal radiosurgery** *INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY*
Fu, D., Kuduvalli, G., Maurer, C. R., Allision, J. W., Adler, J. R.
2006; 1: 198-200
- **Cyberknife radiosurgery for benign intradural extramedullary spinal tumors** *NEUROSURGERY*
Dodd, R. L., Ryu, M. R., Kamnerdsupaphon, P., Gibbs, I. C., Chang, S. D., Adler, J. R.
2006; 58 (4): 674-684
- **Stereotactic radiosurgery using CT cisternography and non-isocentric planning for the treatment of trigeminal neuralgia.** *Computer aided surgery*
Lim, M., Cotrutz, C., Romanelli, P., Schaal, D., Gibbs, I., Chang, S. D., Adler, J. R.
2006; 11 (1): 11-20
- **CyberKnife radiosurgery for extremity schwannomas: Technical note and case report** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Lim, M., Adler, J. R.

2006; 84 (2-3): 60-63

- **Fast generation of digitally reconstructed radiographs using attenuation fields with application to 2D-3D image registration** *Medical Imaging 2003 Conference*
Russakoff, D. B., Rohlfing, T., Mori, K., Rueckert, D., Ho, A., Adler, J. R., Maurer, C. R.
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.2005: 1441-54
- **Visual field preservation after curative multi-modality treatment of occipital lobe arteriovenous malformations** *NEUROSURGERY*
Sinclair, J., Marks, M. P., Levy, R. P., Adler, J. R., Chang, S. D., Lopez, J. R., Do, H. M., Bell-Stephens, T. E., Lim, M., Steinberg, G. K.
2005; 57 (4): 655-666
- **Staged stereotactic irradiation for acoustic neuroma** *NEUROSURGERY*
Chang, S. D., Gibbs, I. C., Sakamoto, G. T., Lee, E., Oyelese, A., Adler, J. R.
2005; 56 (6): 1254-1261
- **CyberKnife radiosurgery for idiopathic trigeminal neuralgia.** *Neurosurgical focus*
Lim, M., Villavicencio, A. T., Burneikiene, S., Chang, S. D., Romanelli, P., McNeely, L., McIntyre, M., Thramann, J. J., Adler, J. R.
2005; 18 (5): E9-?
- **Stereotactic radiosurgery using CT cisternography and non-isocentric planning for the treatment of trigeminal neuralgia** *14th Meeting of the World-Society-for-Stereotactic-and-Functional-Neurosurgery*
Romanelli, P., Lim, M., Isidori, A., Chang, S. D., Adler, J. R.
MEDIMOND PUBLISHING CO.2005: 219-223
- **Respiration tracking in radiosurgery without fiducials** *INTERNATIONAL JOURNAL OF MEDICAL ROBOTICS AND COMPUTER ASSISTED SURGERY*
Schweikard, A., Shiomi, H., Adler, J.
2005; 1 (2): 19-27
- **Accuray, incorporated: a neurosurgical business case study.** *Clinical neurosurgery*
Adler, J. R.
2005; 52: 87-96
- **Intensity-based 2D-3D spine image registration incorporating a single fiducial marker** *ACADEMIC RADIOLOGY*
Russakoff, D. B., Rohlfing, T., Adler, J. R., Maurer, C. R.
2005; 12 (1): 37-50
- **An anthropomorphic phantom study of the accuracy of CyberKnife spinal radiosurgery** *NEUROSURGERY*
Cheng, Y., Main, W., Taylor, D., Kuduvalli, G., Apuzzo, M. L., Adler, J. R., Wang, M. Y.
2004; 55 (5): 1138-1146
- **Respiration tracking in radiosurgery** *MEDICAL PHYSICS*
Schweikard, A., Shiomi, H., Adler, J.
2004; 31 (10): 2738-2741
- **Efficacy and safety of stereotactic radiosurgery for glomus jugulare tumors.** *Neurosurgical focus*
Lim, M., Gibbs, I. C., Adler, J. R., Chang, S. D.
2004; 17 (2): E11-?
- **Ablative procedures for chronic pain** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Romanelli, P., Esposito, V., Adler, J.
2004; 15 (3): 335-?
- **Preliminary visual field preservation after staged CyberKnife radiosurgery for perioptic lesions** *NEUROSURGERY*
Pham, C. J., Chang, S. D., Gibbs, I. C., Jones, P., Heilbrun, M. P., Adler, J. R.
2004; 54 (4): 799-810
- **Radiation tolerance of the spinal cord to staged radiosurgery** *6th Meeting of the International-Stereotactic-Radiosurgery-Society*
Gibbs, I. C., Chang, S. D., Pham, C., Adler, J. R.
KARGER.2004: 22-28

- **Temporal pattern of pain relief using cyberknife radiosurgery for trigeminal neuralgia: A preliminary report** *6th Meeting of the International-Stereotactic-Radiosurgery-Society*
Romanelli, P., Chang, S., Gibbs, I. C., Heit, G., Adler, J. R.
KARGER.2004: 181–189
- **Quality assurance of the cyberknife fiducial and skull tracking systems** *6th Meeting of the International-Stereotactic-Radiosurgery-Society*
Ho, A., Cotrutz, C., Chang, S. D., Adler, J. R., Gibbs, I. C.
KARGER.2004: 255–259
- **Fiducial-less respiration tracking in radiosurgery** *7th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2004)*
Schweikard, A., Shiomi, H., Fisseler, J., Dotter, M., Berlinger, K., Gehl, H. B., Adler, J.
SPRINGER-VERLAG BERLIN.2004: 992–999
- **Improved local control with stereotactic radiosurgical boost in patients with nasopharyngeal carcinoma** *44th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
Le, Q. T., Tate, D., Koong, A., Gibbs, I. C., Chang, S. D., Adler, J. R., Pinto, H. A., Terris, D. J., Fee, W. E., Goffinet, D. R.
ELSEVIER SCIENCE INC.2003: 1046–54
- **The efficacy of linear accelerator stereotactic radiosurgery in treating glomus jugulare tumors** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Lim, M., Gibbs, I. C., Adler, J. R., Martin, D. P., Chang, S. D.
2003; 2 (3): 261-265
- **Patterns of patient movement during frameless image-guided radiosurgery** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Murphy, M. J., Chang, S. D., Gibbs, I. C., Le, Q. T., Hai, J., Kim, D., Martin, D. P., Adler, J. R.
2003; 55 (5): 1400-1408
- **CyberKnife radiotherapy for localized prostate cancer: Rationale and technical feasibility** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
King, C. R., Lehmann, J., Adler, J. R., Hai, J.
2003; 2 (1): 25-29
- **Cyberknife radiosurgery for trigeminal neuralgia** *Meeting of the American-Society-for-Stereotactic-and-Functional-Neurosurgery*
Romanelli, P., Heit, G., Chang, S. D., Martin, D., Pham, C., Adler, J.
KARGER.2003: 105–9
- **Intensity-based 2D-3D spine image registration incorporating one fiducial marker** *6th International Conference on Medical Image Computing and Computer-Assisted Intervention*
Russakoff, D. B., Rohlfing, T., Shahidi, R., Kim, D. H., Adler, J. R., Maurer, C. R.
SPRINGER-VERLAG BERLIN.2003: 287–294
- **Evaluation of intensity-based 2D-3D spine image registration using clinical gold-standard data** *2nd International Workshop on Biomedical Image Registration*
Russakoff, D. B., Rohlfing, T., Ho, A., Kim, D. H., Shahidi, R., Adler, J. R., Maurer, C. R.
SPRINGER-VERLAG BERLIN.2003: 151–160
- **Image-guided spinal stereotactic radiosurgery** *TECHNIQUES IN NEUROSURGERY*
Ryu, S. I., Kim, D. H., Martin, D. P., Chang, S. D., Adler, J. R.
2003; 8 (1): 56-64
- **Extracranial radiosurgery using the CyberKnife** *TECHNIQUES IN NEUROSURGERY*
Romanelli, P., Chang, S. D., Koong, A., Adler, J. R.
2003; 9 (3): 226-231
- **Image guided stereotactic radiosurgery for lesions in proximity to the anterior visual pathways: a preliminary report.** *Technology in cancer research & treatment*
Mehta, V. K., Lee, Q., Chang, S. D., Cheney, S., Adler, J. R.
2002; 1 (3): 173-180
- **Image Guided Stereotactic Radiosurgery for Lesions in Proximity to the Anterior Visual Pathways: A Preliminary Report** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Mehta, V. K., Quynh-Thu Le, Q. T., Chang, S. D., Cheney, S., Adler, J. R.

2002; 1 (3): 173-179

- **Surgical guidance now and in the future: the next generation of instrumentation.** *Clinical neurosurgery*
Adler, J. R.
2002; 49: 105-114
- **CyberKnife radiosurgery for brain and spinal tumors** *2nd International Symposium for Neuroscience*
Adler, J. R.
ELSEVIER SCIENCE BV.2002: 545-552
- **Image-guided hypo-fractionated stereotactic radiosurgery to spinal lesions** *NEUROSURGERY*
Ryu, S. I., Chang, S. D., Kim, D. H., MURPHY, M. J., Le, Q. T., Martin, D. P., Adler, J. R.
2001; 49 (4): 838-846
- **Current status and optimal use of radiosurgery** *ONCOLOGY-NEW YORK*
Chang, S. D., Adler, J. R.
2001; 15 (2): 209-216
- **Stereotactic radiosurgery and hypofractionated stereotactic radiotherapy for residual or recurrent cranial base and cervical chordomas.** *Neurosurgical focus*
Chang, S. D., Martin, D. P., Lee, E., Adler, J. R.
2001; 10 (3): E5-?
- **Development of fluoroscopic registration in spinal neuronavigation** *15th International Congress and Exhibition on Computer Assisted Radiology and Surgery*
Abbasi, H., Grzeszczuk, R., Chin, S., Holz, H., Hairi, S., Badr, R., Kim, D., Adler, J., Shahidi, R.
ELSEVIER SCIENCE BV.2001: 1151-1151
- **Development of fluoroscopic registration in spinal neuronavigation** *Medical Imaging 2001 Conference*
Abbasi, H., Grzeszczuk, R., Chin, S., Holz, H., Hariri, S., Badr, R., Kim, D., Adler, J., Shahidi, R.
SPIE-INT SOC OPTICAL ENGINEERING.2001: 380-385
- **Image-guided extracranial radiosurgery** *7th International Meeting on Progress in Radio-Oncology (ICRO/OGRO 7)*
Sattah, M., Guerrero, T., Chang, S., Martin, D., Le, Q. T., Gibbs, I., Adler, J.
MEDIMOND S R L.2001: 153-162
- **Clinical fluoroscopic fiducial-based registration of the vertebral body in spinal neuronavigation** *Conference on Medicine Meets Virtual Reality 2001*
Abbasi, H. R., Grzeszczuk, R., Chin, S., Fahrig, R., Holz, H., Hariri, S., Kim, D., Adler, J., Shahidi, R.
I O S PRESS.2001: 1-7
- **Daily low-dose carboplatin as a radiation sensitizer for newly diagnosed malignant glioma** *JOURNAL OF NEURO-ONCOLOGY*
Peterson, K., Harsh, G., Fisher, P. G., Adler, J., Le, Q.
2001; 53 (1): 27-32
- **Robotics and radiosurgery - The cyberknife** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Chang, S. D., Adler, J. R.
2001; 76 (3-4): 204-208
- **Acquired cerebral arteriovenous malformation induced by an anaplastic astrocytoma: An interesting case** *NEUROLOGICAL RESEARCH*
Harris, O. A., Chang, S. D., Harris, B. T., Adler, J. R.
2000; 22 (5): 473-477
- **Image-guided radiosurgery for the spine and pancreas.** *Computer aided surgery*
MURPHY, M. J., Adler, J. R., Bodduluri, M., Dooley, J., Forster, K., Hai, J., Le, Q., Luxton, G., Martin, D., Poen, J.
2000; 5 (4): 278-288
- **Clinical experience with the CyberKnife at Newport Radiosurgery Center** *4th International-Stereotactic-Radiosurgery-Society Congress*
Chenery, S. G., Massoudi, F., De Salles, A. A., Davis, D. M., CHEHABI, H. H., Adler, J. R.
KARGER.2000: 34-40
- **A comparative statistical error analysis of neuronavigation systems in a clinical setting** *3rd International Conference on Medical Image Computing and Computer-Assisted Intervention*

- Abbasi, H., Hariri, S., Martin, D., Kim, D., Adler, J., Steinberg, G., Shahidi, R.
SPRINGER-VERLAG BERLIN.2000: 144–153
- **Real-time tracking of the tumor volume in precision radiotherapy and body radiosurgery - A novel approach to compensate for respiratory motion** *14th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 2000)*
Ozhasoglu, C., MURPHY, M. J., Glosser, G., Bodduluri, M., Schweikard, A., Forster, K. M., Martin, D. P., Adler, J. R.
ELSEVIER SCIENCE BV.2000: 691–696
 - **Volumetric image navigation via a stereotactic endoscope** *14th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 2000)*
Shahidi, R., Wang, B., Khadem, R., Martin, D., Adler, J., Steinberg, G.
ELSEVIER SCIENCE BV.2000: 984–984
 - **A comparative statistical accuracy analysis of the neuronavigation systems** *14th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 2000)*
Abbasi, H., Martin, D., Adler, J., Steinberg, G., Shahidi, R.
ELSEVIER SCIENCE BV.2000: 985–985
 - **A fluoroscopic X-ray registration process for three-dimensional surgical navigation** *3rd International Conference on Medical Image Computing and Computer-Assisted Intervention*
Grezeszczuk, R., Chin, S., Fahrig, R., Abassi, H., Holz, H., Kim, D., Adler, J., Shahidi, R.
SPRINGER-VERLAG BERLIN.2000: 551–556
 - **Monte Carlo for the Cyberknife** *13th International Conference on the Use of Computers in Radiation Therapy*
Guerrero, T., Pawlicki, T., Jiang, S. B., Hai, J., Luxton, G., Ozhasoglu, C., Adler, J. R., Ma, C. M.
SPRINGER-VERLAG BERLIN.2000: 344–346
 - **Image-guided robotic radiosurgery: Clinical and radiographic results with the CyberKnife** *4th International-Stereotactic-Radiosurgery-Society Congress*
Chang, S. D., MURPHY, M. J., Martin, D. P., Hancock, S. L., Doty, J. R., Adler, J. R.
KARGER.2000: 23–33
 - **Treatment of intracranial arteriovenous malformations in the elderly population**
Chang, S. D., Lopez, J. R., Marks, M. P., Levy, R. P., Adler, J. R., Steinberg, G. K.
LIPPINCOTT WILLIAMS & WILKINS.2000: 325–25
 - **Image guidance for extra-cranial robotic radiosurgery** *14th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 2000)*
MURPHY, M. J., Adler, J., Bodduluri, M., Glosser, G.
ELSEVIER SCIENCE BV.2000: 685–690
 - **Robotic motion compensation for respiratory movement during radiosurgery.** *Computer aided surgery*
Schweikard, A., Glosser, G., Bodduluri, M., MURPHY, M. J., Adler, J. R.
2000; 5 (4): 263-277
 - **Stereotactic radiosurgery in patients with multiple brain metastases.** *Neurosurgical focus*
Chang, S. D., Lee, E., Sakamoto, G. T., Brown, N. P., Adler, J. R.
2000; 9 (2)
 - **Current treatment of patients with multiple brain metastases.** *Neurosurgical focus*
Chang, S. D., Adler, J. R.
2000; 9 (2)
 - **Fractionated stereotactic radiosurgery and preservation of hearing in patients with vestibular schwannoma: A preliminary report** *NEUROSURGERY*
Poeh, J. C., Golby, A. J., Forster, K. M., Martin, D. P., Chinn, D. M., Hancock, S. L., Adler, J. R.
1999; 45 (6): 1299-1305
 - **Stereotactic radiosurgical boost following radiotherapy in primary nasopharyngeal carcinoma: Impact on local control** *39th Annual Meeting of ASTRO*
Tate, D. J., Adler, J. R., Chang, S. D., Marquez, S., Eulau, S. M., Fee, W. E., PINTO, H., Goffinet, D. R.
ELSEVIER SCIENCE INC.1999: 915–21
 - **Intracranial nasal dermoid sinus cyst associated with colloid cyst of the third ventricle - Case report and new concepts** *PEDIATRIC NEUROSURGERY*
Cheng, M. L., Chang, S. D., Pang, D. L., Adler, J. R.

- 1999; 31 (4): 201-206
- **CARABEAMER: a treatment planner for a robotic radiosurgical system with general kinematics.** *Medical image analysis*
Tombropoulos, R. Z., Adler, J. R., Latombe, J. C.
1999; 3 (3): 237-264
 - **Image-guided robotic radiosurgery** *NEUROSURGERY*
Adler, J. R., MURPHY, M. J., Chang, S. D., Hancock, S. L.
1999; 44 (6): 1299-1306
 - **Symptomatic vasospasm after resection of a suprasellar pilocytic astrocytoma: Case report and possible pathogenesis** *SURGICAL NEUROLOGY*
Chang, S. D., Yap, O. W., Adler, J. R.
1999; 51 (5): 521-526
 - **Percutaneous transfemoral embolization of an indirect carotid-cavernous fistula with cortical venous access to the cavernous sinus** *JOURNAL OF NEUROSURGERY*
Bellon, R. J., Liu, A. Y., Adler, J. R., Norbash, A. M.
1999; 90 (5): 959-963
 - **Image-guided robotic radiosurgery** *Neurosurgery*
Adler, J. R., Murphy, M. J., Chang, S. D., Hancock, S. L.
1999; 44 (6): 1299-1306; discussion 1306-1307
 - **Management of the radiosurgery patient: Causes and treatment of adverse sequelae** *32nd San Francisco Cancer Symposium*
Chang, S. D., Adler, J. R.
KARGER.1999: 155-165
 - **Intraoperative video and volumetric image fusion** *13th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 99)*
Shahidi, R., Wang, B., Epitoux, M., Adler, J., Steinberg, G.
ELSEVIER SCIENCE BV.1999: 625-630
 - **Treatment of cavernous sinus tumors with linear accelerator radiosurgery** *SKULL BASE SURGERY*
Chang, S. D., Doty, J. R., Martin, D. P., Hancock, S. L., Adler, J. R.
1999; 9 (3): 195-199
 - **Treatment of nasopharyngeal carcinoma: Stereotactic radiosurgical boost following fractionated radiotherapy** *Meeting of the American-Society-for-Stereotactic-and-Functional-Neurosurgery*
Chang, S. D., Tate, D. J., Goffinet, D. R., Martin, D. P., Adler, J. R.
KARGER.1999: 64-67
 - **Remote-rendered 3D CT angiography (3DCTA) as an intraoperative aid in cerebrovascular neurosurgery.** *Computer aided surgery*
Wilkinson, E. P., Shahidi, R., Wang, B., Martin, D. P., Adler, J. R., Steinberg, G. K.
1999; 4 (5): 256-263
 - **Planning for camera-guided robotic radiosurgery** *IEEE TRANSACTIONS ON ROBOTICS AND AUTOMATION*
Schweikard, A., Bodduluri, M., Adler, J. R.
1998; 14 (6): 951-962
 - **Clinical experience with image-guided robotic radiosurgery (the Cyberknife) in the treatment of brain and spinal cord tumors** *NEUROLOGIA MEDICO-CHIRURGICA*
Chang, S. D., Murphy, M., Geis, P., Martin, D. P., Hancock, S. L., Doty, J. R., Adler, J. R.
1998; 38 (11): 780-783
 - **Intracranial hypotension presenting with severe encephalopathy - Case report** *JOURNAL OF NEUROSURGERY*
Beck, C. E., Rizk, N. W., Kiger, L. T., Spencer, D., Hill, L., Adler, J. R.
1998; 89 (3): 470-473
 - **Stereotactic radiosurgery of angiographically occult vascular malformations: 14-year experience** *NEUROSURGERY*
Chang, S. D., Levy, R. P., Adler, J. R., Martin, D. P., Krakovitz, P. R., Steinberg, G. K.
1998; 43 (2): 213-220

- **Clinical uses of radiosurgery** *ONCOLOGY-NEW YORK*
Chang, S. D., Adler, J. R., Hancock, S. L.
1998; 12 (8): 1181-?
- **Acute hearing loss following fractionated stereotactic radiosurgery for acoustic neuroma - Report of two cases** *JOURNAL OF NEUROSURGERY*
Chang, S. D., Poen, J., Hancock, S. L., Martin, D. P., Adler, J. R.
1998; 89 (2): 321-325
- **Treatment of hemangioblastomas in von Hippel-Lindau disease with linear accelerator-based radiosurgery** *NEUROSURGERY*
Chang, S. D., Meisel, J. A., Hancock, S. L., Martin, D. P., McManus, M., Adler, J. R.
1998; 43 (1): 28-34
- **LINAC radiosurgery for cavernous sinus meningiomas** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Chang, S. D., Adler, J. R., Martin, D. P.
1998; 71 (1): 43-50
- **Volumetric image guidance via a stereotactic endoscope** *1st International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 98)*
Shahidi, R., Wang, B., Epitoux, M., Grzeszczuk, R., Adler, J.
SPRINGER-VERLAG BERLIN.1998: 241-252
- **Inverse treatment planning for the CyberKnife** *3rd International Stereotactic-Radiosurgery-Society Meeting*
Tombropoulos, R., Latombe, J. C., Adler, J. R.
KARGER LANDES SYSTEMS.1998: 236-250
- **Treatment of cranial base meningiomas with linear accelerator radiosurgery** *NEUROSURGERY*
Chang, S. D., Adler, J. R.
1997; 41 (5): 1019-1025
- **Radiosurgery for skull base malignancies and nasopharyngeal carcinoma** *37th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
Cmelak, A. J., Cox, R. S., Adler, J. R., Fee, W. E., Goffinet, D. R.
ELSEVIER SCIENCE INC.1997: 997-1003
- **The cyberknife: A frameless robotic system for radiosurgery** *XIIIth Meeting of the World Society for Stereotactic and Functional Neurosurgery*
Adler, J. R., Chang, S. D., MURPHY, M. J., Doty, J., Geis, P., Hancock, S. L.
KARGER.1997: 124-28
- **Robotic radiosurgery with noncylindrical collimators.** *Computer aided surgery*
Schweikard, A., Adler, J. R.
1997; 2 (2): 124-134
- **Analysis of the proliferative potential of residual tumor after radiosurgery for intraparenchymal brain metastases** *JOURNAL OF NEUROSURGERY*
Harris, O. A., Adler, J. R.
1996; 85 (4): 667-671
- **Linear accelerator-based stereotaxic radiosurgery for brain metastases: The influence of number of lesions on survival** *JOURNAL OF CLINICAL ONCOLOGY*
Joseph, J., Adler, J. R., Cox, R. S., Hancock, S. L.
1996; 14 (4): 1085-1092
- **Quantified registration error versus the accuracy of registered surfaces for a multimodality surface-based registration system** *Conference on Image Processing - Medical Imaging 1996*
Hemler, P. F., Sumanaweera, T. S., VANDENELSEN, P. A., Napel, S., Adler, J. R.
SPIE - INT SOC OPTICAL ENGINEERING.1996: 348-357
- **Preliminary clinical experience with the cyberknife: Image-guided stereotactic radiosurgery** *2nd International-Stereotactic-Radiosurgery-Society Meeting*
Adler, J. R., Cox, R. S.
KARGER.1996: 316-326

- **REGISTRATION ERROR QUANTIFICATION OF A SURFACE-BASED MULTIMODALITY IMAGE FUSION SYSTEM** *MEDICAL PHYSICS*
Hemler, P. F., Napel, S., Sumanaweera, T. S., PICHUMANI, R., VANDENELSEN, P. A., Martin, D., Drace, J., Adler, J. R., Perakash, I.
1995; 22 (7): 1049-1056
- **MR GEOMETRIC DISTORTION CORRECTION FOR IMPROVED FRAME-BASED STEREOTAXIC TARGET LOCALIZATION ACCURACY** *MAGNETIC RESONANCE IN MEDICINE*
Sumanaweera, T. S., Glover, G. H., Hemler, P. F., VANDENELSEN, P. A., Martin, D., Adler, J. R., Napel, S.
1995; 34 (1): 106-113
- **A versatile system for multimodality image fusion.** *Journal of image guided surgery*
Hemler, P. F., Sumanaweera, T. S., van den Elsen, P. A., Napel, S., Adler, J.
1995; 1 (1): 35-45
- **A quantitative comparison of residual error for three different multimodality registration techniques** *14th International Conference on Information Processing in Medical Imaging*
Hemler, P. F., VANDENELSEN, P. A., Sumanaweera, T. S., Napel, S., Drace, J., Adler, J. R.
KLUWER ACADEMIC PUBL.1995: 251-262
- **Method for correcting magnetic resonance image distortion for frame-based stereotactic surgery, with preliminary results.** *Journal of image guided surgery*
Sumanaweera, T. S., Adler, J. R., Glover, G. H., Hemler, P. F., van den Elsen, P. A., Martin, D., Napel, S.
1995; 1 (3): 151-157
- **CHARACTERIZATION OF SPATIAL DISTORTION IN MAGNETIC-RESONANCE-IMAGING AND ITS IMPLICATIONS FOR STEREOTAXIC SURGERY** *NEUROSURGERY*
Sumanaweera, T. S., Adler, J. R., Napel, S., Glover, G. H.
1994; 35 (4): 696-703
- **FAILURE OF INTRACISTERNAL TISSUE-PLASMINOGEN ACTIVATOR TO PREVENT VASOSPASM IN CERTAIN PATIENTS WITH ANEURYSMAL SUBARACHNOID HEMORRHAGE** *NEUROSURGERY*
Steinberg, G. K., Vanefsky, M. A., Marks, M. P., Adler, J. R., KOENIG, G. H.
1994; 34 (5): 809-813
- **PLANNING, CALIBRATION AND COLLISION-AVOIDANCE FOR IMAGE-GUIDED RADIOSURGERY** *IEEE/RSJ/GI International Conference on Intelligent Robots and Systems - Advanced Robotic Systems and the Real World*
Schweikard, A., Bodduluri, M., Tombropoulos, R., Adler, J. R.
IEEE.1994: 554-861
- **A SYSTEM FOR MULTIMODALITY IMAGE FUSION** *7th Annual IEEE Symposium on Computer-Based Medical Systems*
Hemler, P. F., Sumanaweera, T., VANDENELSEN, P. A., Napel, S., Adler, J.
IEEE, COMPUTER SOC PRESS.1994: 335-340
- **QUANTIFYING MRI GEOMETRIC DISTORTION IN TISSUE** *MAGNETIC RESONANCE IN MEDICINE*
Sumanaweera, T., Glover, G., Song, S., Adler, T., Napel, S.
1994; 31 (1): 40-47
- **GREY VALUE CORRELATION TECHNIQUES USED FOR AUTOMATIC MATCHING OF CT AND MR BRAIN AND SPINE IMAGES** *3rd Conference on Visualization in Biomedical Computing 1994 (VBC 94)*
VANDENELSEN, P. A., Pol, E. J., Sumanaweera, T. S., Hemler, P. F., Napel, S., Adler, J. R.
SPIE - INT SOC OPTICAL ENGINEERING.1994: 227-237
- **TREATMENT PLANNING FOR A RADIOSURGICAL SYSTEM WITH GENERAL KINEMATICS** *1994 IEEE International Conference on Robotics and Automation*
Schweikard, A., Tombropoulos, R., Kavvaki, L., Adler, J. R., Latombe, J. C.
IEEE COMPUTER SOC.1994: 1720-1727
- **MOTION PLANNING IN STEREOTAXIC RADIOSURGERY** *IEEE TRANSACTIONS ON ROBOTICS AND AUTOMATION*
Schweikard, A., Adler, J. R., Latombe, J. C.
1993; 9 (6): 764-774
- **STEREOTAXIC RADIOSURGICAL ABLATION - AN ALTERNATIVE TREATMENT FOR RECURRENT AND MULTIFOCAL HEMANGIOBLASTOMAS - A REPORT OF 4 CASES** *SURGICAL NEUROLOGY*

-
- Page, K. A., WAYSON, K., Steinberg, G. K., Adler, J. R.
1993; 40 (5): 424-428
- **MR SUSCEPTIBILITY MISREGISTRATION CORRECTION** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Sumanaweera, T. S., Glover, G. H., Binford, T. O., Adler, J. R.
1993; 12 (2): 251-259
 - **MOTION PLANNING IN STEREOTAXIC RADIOSURGERY** *1993 IEEE INTERNATIONAL CONF ON ROBOTICS AND AUTOMATION*
Schweikard, A., Adler, J. R., Latombe, J. C.
IEEE, COMPUTER SOC PRESS.1993: 909-916
 - **CEREBRAL HEMICORTECTOMY FOR EPILEPSY** *JOURNAL OF NEUROSURGERY*
Winston, K. R., Welch, K., Adler, J. R., Erba, G.
1992; 77 (6): 889-895
 - **TEMPORAL LOBECTOMY FOR COMPLEX PARTIAL SEIZURES THAT BEGAN IN CHILDHOOD** *SURGICAL NEUROLOGY*
Erba, G., Winston, K. R., Adler, J. R., Welch, K., Ziegler, R., Hornig, G. W.
1992; 38 (6): 424-432
 - **RADIOSURGERY FOR PALLIATION OF BASE OF SKULL RECURRENCES FROM HEAD AND NECK CANCERS** *CANCER*
Kaplan, I. D., Adler, J. R., Hicks, W. L., Fee, W. E., Goffinet, D. R.
1992; 70 (7): 1980-1984
 - **Stereotactic, angiography-guided clipping of a distal, mycotic intracranial aneurysm using the Cosman-Roberts-Wells system: technical note.** *Neurosurgery*
Steinberg, G. K., GUPPY, K. H., Adler, J. R., Silverberg, G. D.
1992; 30 (3): 408-411
 - **STEREOTAXIC RADIOSURGICAL TREATMENT OF BRAIN METASTASES** *JOURNAL OF NEUROSURGERY*
Adler, J. R., Cox, R. S., Kaplan, I., Martin, D. P.
1992; 76 (3): 444-449
 - **STEREOTAXIC RADIOSURGERY FOR BRAIN METASTASES - THE IMPORTANCE OF ADJUVANT WHOLE BRAIN IRRADIATION** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Fuller, B. G., Kaplan, I. D., Adler, J., Cox, R. S., Bagshaw, M. A.
1992; 23 (2): 413-418
 - **MR SUSCEPTIBILITY DISTORTION QUANTIFICATION AND CORRECTION FOR STEREOTAXY** *CONF ON BIOMEDICAL IMAGE PROCESSING AND THREE-DIMENSIONAL MICROSCOPY*
Sumanaweera, T. S., Glover, G. H., Binford, T. O., Adler, J. R.
SPIE - INT SOC OPTICAL ENGINEERING.1992: 30-43
 - **RESULTS OF SURGERY FOR EXTRATEMPORAL PARTIAL EPILEPSY THAT BEGAN IN CHILDHOOD** *ARCHIVES OF NEUROLOGY*
Adler, J., Erba, G., Winston, K. R., Welch, K., Lombroso, C. T.
1991; 48 (2): 133-140
 - **INTRALESIONAL IMMUNOTHERAPY OF BRAIN-TUMORS WITH COMBINED CORYNEBACTERIUM-PARVUM AND RECOMBINANT INTERLEUKIN-2 IN MICE** *JOURNAL OF THE NATIONAL CANCER INSTITUTE*
CONLEY, F. K., Adler, J. R., Duncan, J. A., Kennedy, J. D., SUTTON, R. C.
1990; 82 (16): 1340-1344
 - **POSTERIOR-FOSSA STEREOTAXIC BIOPSY USING THE BROWN-ROBERTS-WELLS STEREOTAXIC SYSTEM - TECHNICAL NOTE** *JOURNAL OF NEUROSURGERY*
Guthrie, B. L., Steinberg, G. K., Adler, J. R.
1989; 70 (4): 649-652
 - **EPILEPSY SURGERY IN CHILDREN** *JOURNAL OF CHILD NEUROLOGY*
Green, R. C., Adler, J. R., Erba, G.
1988; 3 (3): 155-166
 - **HYDROCEPHALUS AND INTRASPINAL TUMOR** *NEUROSURGERY*

ZAVALA, L. M., Adler, J. R., Greene, C. S., Winston, K. R.
1988; 22 (4): 751-754

- **THE UPTAKE BY CHOROID-PLEXUS AND PASSAGE INTO CSF OF I-125 PROLACTIN IN PRETERM RABBITS** *INTERNATIONAL SYMPOSIUM ON PEPTIDES AND AMINO ACID TRANSPORT MECHANISMS IN THE CENTRAL NERVOUS SYSTEM*
Lorenzo, A. V., Winston, K. R., Adler, J.
STOCKTON PRESS.1988: 67-78
- **MANAGEMENT AND PREVENTION OF NECROSIS OF THE SCALP AFTER EMBOLIZATION AND SURGERY FOR MENINGIOMA** *SURGICAL NEUROLOGY*
Adler, J. R., Upton, J., Wallman, J., Winston, K. R.
1986; 25 (4): 357-360
- **CHOREA AS A MANIFESTATION OF EPIDURAL HEMATOMA - CASE-REPORT** *JOURNAL OF NEUROSURGERY*
Adler, J. R., Winston, K. R.
1984; 60 (4): 856-857
- **EVIDENCE OF PROLACTIN RECEPTORS IN THE CHOROID-PLEXUS AND A POSSIBLE ROLE IN WATER-BALANCE IN NEONATAL BRAIN** *ZEITSCHRIFT FUR KINDERCHIRURGIE-SURGERY IN INFANCY AND CHILDHOOD*
Lorenzo, A. V., Winston, K. R., Welch, K., Adler, J. R., Granholm, L.
1983; 38: 68-70