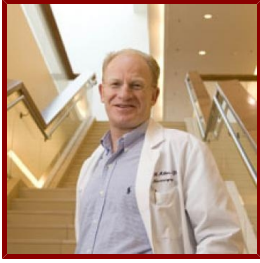


Stanford



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

- The Inaugural Ideals of Entrepreneurship Award, Emerging Entrepreneurs in Biomedical Technology, Bidesign Group, Stanford University (2005)
- Outstanding Achievement in Medicine, Santa Clara Valley Medical Association (2007)
- The Cushing Award for Excellence and Innovation in Neurosurgery, The American Association for Neurological Surgery (2018)
- The Thomas Fogarty Lecture, The Stanford Byers Center for Bidesign and The Fogarty Institute for Innovation (2018)

PROFESSIONAL EDUCATION

- Residency: Brigham and Women's Hospital Neurological Surgery Residency (1987) MA
- Residency: Brigham and Women's and Mass General Hospital Neurology Residency (1984) MA
- Residency: Brigham and Women's Hospital Neurological Surgery Residency (1983) MA
- Internship: Brigham and Women's Hospital Internal Medicine Residency (1981) MA
- Board Certification: Neurological Surgery, American Board of Neurological Surgery (1990)
- Fellowship: Karolinska Institute (1986) Sweden
- 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

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

Publications

PUBLICATIONS

- **Characterization of a Novel 3 Megavolt Linear Accelerator for Dedicated Intracranial Stereotactic Radiosurgery** *CUREUS*
Weidlich, G. A., Bodduluri, M., Achkire, Y., Lee, C., Adler, J. R.
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- **Correction: Self-Shielding Analysis of the Zap-X System.** *Cureus*
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- **Milestones in stereotactic radiosurgery for the central nervous system.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Mitrasinovic, S., Zhang, M., Appelboom, G., Sussman, E., Moore, J. M., Hancock, S. L., Adler, J. R., Kondziolka, D., Steinberg, G. K., Chang, S. D.
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- **Characterization of a Novel 3 Megavolt Linear Accelerator for Dedicated Intracranial Stereotactic Radiosurgery.** *Cureus*
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2019; 11 (3): e4275
- **#OpenAccess: Free online, open-access crowdsource-reviewed publishing is the future; traditional peer-reviewed journals are on the way out** *CANADIAN JOURNAL OF EMERGENCY MEDICINE*

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- Adler, J. R., Chan, T. M., Blain, J., Thoma, B., Atkinson, P.
2019; 21 (1): 11–14
- **Clinical efficacy of frameless stereotactic radiosurgery in the management of spinal metastases from thyroid carcinoma.** *Spine*
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 - **#OpenAccess: Free online, open-access crowdsource-reviewed publishing is the future; traditional peer-reviewed journals are on the way out.** *CJEM*
Adler, J. R., Chan, T. M., Blain, J. B., Thoma, B., Atkinson, P.
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 - **Correction: Characterization of a Novel Revolving Radiation Collimator.** *Cureus*
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2019; 11 (5): e21
 - **Radiographic Rate and Clinical Impact of Pseudarthrosis in Spine Radiosurgery for Metastatic Spinal Disease.** *Cureus*
Zhang, M., Appelboom, G., Ratliff, J. K., Soltys, S. G., Adler, J. R., Park, J., Chang, S. D.
2018; 10 (11): e3631
 - **Radiographic Rate and Clinical Impact of Pseudarthrosis in Spine Radiosurgery for Metastatic Spinal Disease** *CUREUS*
Zhang, M., Appelboom, G., Ratliff, J. K., Soltys, S. G., Adler, J. R., Park, J., Chang, S. D.
2018; 10 (11)
 - **Brainstem Dose Constraints in Nonisometric Radiosurgical Treatment Planning of Trigeminal Neuralgia: A Single-Institution Experience** *WORLD NEUROSURGERY*
Zhang, M., Lamsam, L. A., Schoen, M. K., Mehta, S. S., Appelboom, G., Adler, J. K., Soltys, S. G., Chang, S. D.
2018; 113: E399–E407
 - **Characterization of a Novel Revolving Radiation Collimator** *CUREUS*
Weidlich, G. A., Schneider, M., Adler, J. R.
2018; 10 (2): e2146
 - **Long-Term Update of Stereotactic Radiosurgery for Benign Spinal Tumors.** *Neurosurgery*
Chin, A. L., Fujimoto, D., Kumar, K. A., Tupper, L., Mansour, S., Chang, S. D., Adler, J. R., Gibbs, I. C., Hancock, S. L., Dodd, R., Li, G., Gephart, M. H., Ratliff, et al
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 - **Impact of CyberKnife Radiosurgery on Median Overall Survival of Various Parameters in Patients with 1-12 Brain Metastases.** *Cureus*
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2017; 9 (12)
 - **Self-Shielding Analysis of the Zap-X System** *CUREUS*
Weidlich, G. A., Schneider, M., Adler, J. R.
2017; 9 (12)
 - **Radiosurgical Treatment Verification Using Removable Megavoltage Radiation Detectors** *CUREUS*
Jenkins, C. H., Kahn, R., Weidlich, G. A., Adler, J. R.
2017; 9 (11): e1889
 - **Impact of CyberKnife Radiosurgery on Overall Survival and Various Parameters of Patients with 1-3 versus \geq 4 Brain Metastases** *CUREUS*
Murovic, J., Ding, V., Han, S. S., Adler, J. R., Chang, S. D.
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- **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
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Dagne, B. A., Sunay, M. K., Cayla, N. S., Ouyang, Y., Knox, S. J., Giffard, R. G., Adler, J. R., Maciver, B.
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- **Embolization Followed by Radiosurgery for the Treatment of Brain Arteriovenous Malformations (AVMs)** *WORLD NEUROSURGERY*
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- **Alteration of Interneuron Immunoreactivity and Autophagic Activity in Rat Hippocampus after Single High-Dose Whole-Brain Irradiation.** *Cureus*
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- **Impact of CyberKnife Radiosurgery on Overall Survival and Various Parameters of Patients with 1-3 versus # 4 Brain Metastases.** *Cureus*
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- **Radiosurgical ablation of spinal cord arteriovenous malformations.** *Handbook of clinical neurology*
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- **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
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- **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.
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 - **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*
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 - **Estimated Risk Level of Unified Stereotactic Body Radiation Therapy Dose Tolerance Limits for Spinal Cord** *SEMINARS IN RADIATION ONCOLOGY*
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 - **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
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2015; 93 (4): 935-36
 - **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
 - **Is Equipment Development Stifling Innovation in Radiation Oncology?** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
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2015; 92 (4): 713-14
 - **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.
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 - **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.
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 - **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.
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 - **Untitled** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
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2013; 85 (1): 12
 - **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*
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 - **A recommendation for training in stereotactic radiosurgery for US neurosurgery residents** *JOURNAL OF NEUROSURGERY*
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 - **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*
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