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## **GRANT FUNDING**

### **Active Grants**

Stereotactic Radiosurgery Compared with Hippocampal-Avoidant Whole Brain Radiotherapy (HA-WBRT) Plus Memantine for 5-15 Brain Metastases, CCTG CE.7 Co-Chair, Neurosurgery (43/206 accrued), Neurosurgery Co-PI

Building Trades Welfare Foundation: The MAYO Clinic-Building Trades COVID-19 Recovery Project, Co-PI (\$200,000)

Center for Transformative Stroke Care: Atrium Health, Wake Forest Baptist School of Medicine Opportunity Fund (\$2.7 million), Co-PI

A Randomized Phase III Trial of Pre-Operative Compared to Post-Operative Stereotactic Radiosurgery (SRS) in Patients with Resectable Brain Metastases, NRG-BN2028, Co-PI, Neurosurgery (NRG approved; CTEP approved September 2021)

### **Past Grant History**

FDA and Carolinas Healthcare System Faculty Resources Grants: "A Study to Evaluate Normal Brain Tissue Cells and Cancerous Brain Tissue Cells for the Expression of Interleukin-4 and Interleukin-13 Receptors", Carolinas Medical Center Role: Principal Investigator (1999-2001)

Guilford Corporation: "Glioma Outcomes Project", Carolinas Medical Center, Presbyterian Hospital and Northeast Medical Center, Role: Principal Investigator (2000-2003)

AANS/CNS Spine Section and Wallace Foundation: "Neurosurgery Patient Outcomes in Treating Spinal Disorders" (NEUROPOINT-SD), Carolinas Medical Center. Role: Co-Principal Investigator (2010-2011)

Brain Tumor Fund for the Carolinas and Carolinas Healthcare System Faculty Resources Grants: "A Prospective Analysis of Neoadjuvant Radiosurgery and Surgical Resection for the Treatment of 1-3 Cerebral Metastases", Carolinas Medical Center. Role: Principal Investigator (2008-2012)

Brain Tumor Fund for the Carolinas: "Phase I Trial of Surgery Gliadel and Carboplatin in Combination with Radiation Therapy for Anaplastic Astrocytoma or Glioblastoma Multiforme", Carolinas Medical Center. Role: Principal Investigator (2001-2003)

Eisai Unrestricted Research Grant; Brain Tumor Fund for the Carolinas: "Temozolomide as Neoadjuvant and Chemo-radiotherapy Following Resection and GLIADEL® Wafer Placement in Patients with Newly Diagnosed High-grade Glioma, A Phase I/II Analysis", Carolinas Medical Center, Barrow Neurological Institute, University of Pennsylvania. Role: Principal Investigator (2002-2005)

North Central Cancer Treatment Group and Radiation Therapy Oncology Group: "A Phase III Randomized Trial of the Role of Whole Brain Radiation Therapy in Addition to Radiosurgery in the Management of Patients with One to Three Cerebral Metastases" Role: RTOG Principal Investigator. (Study Support: NCI: U10CA180821, U10CA180882, CA076001, CA025224, RTOG U10CA21661, NRG U10CA180868 and U10CA180822) (2009-

2015)

Hyperbranch Corporation: "Hyperbranch Medical Technology NuSeal 100 Dural Sealant Feasibility IDE Study", Carolinas Medical Center. Role: Co-Principal Investigator (2011-2016)

Neurosurgery Research and Education Fund "Reducing readmission and LOS following elective lumbar spine surgery": AANS-Institute for Healthcare Improvement (IHI-Cambridge, MA) Cooperative Project. Role: Principal Investigator (2015-2018) \$60,000

#### Invited **PUBLICATIONS** (Editorially reviewed)

1. Shaffrey, ME, Melike, M, **Asher, AL**, Burri, SH, Chahlavi, A, et. al. Brain Metastases. Current Problems in Surgery, 41 (8): 647-742, 2004.
2. Burri, S., Asher, A. Brain Metastases. American Academy of Neurology Continuum, 11 (5): 13-29, 2005.
3. Parker, S. and Asher, A. Registry Science Has Identified Opportunities for Improvement in Spine Care. AANS Neurosurgeon 2015 June 6; 24 (2)

#### **EDITORIALS**

1. Burri S. and **Asher A.** In Regard to Regine et al. Risk of Symptomatic Brain Tumor Recurrence and Neurologic Deficit After Radiosurgery Alone in Patients with Newly Diagnosed Brain Metastases: Results and Implications. Int J Radiat Oncol Biol Phys. August 1, 2002; 53 (5):1393-4
2. Burri S., **Asher A.**, and Shaffrey M. Brain Metastases Treated with Radiosurgery Alone: An Alternative to Whole Brain Radiotherapy? Neurosurgery. April 2004; 54(4):1033-4

#### **BOOK CHAPTERS**

1. **Asher A.**, "G418 Sensitivity Assay" in Laboratory Techniques in the Immunotherapy of Cancer. Rosenberg S.A., Editor. NCI Press 1991.
2. **Asher A.** and Quint D. "MRI of the Spine" in Principles of Spinal Surgery. Menzes A. and Sonntag V., Editors. McGraw-Hill, p. 193, 1996.
3. **Asher A.**, and Burri S. "Brain Metastases" in Principles of Neuro-Oncology O'Neill B. and Schiff D., Editors. McGraw-Hill p. 553, 2005.
4. **Asher A.** "Clarifying the Federal Regulatory Requirements for Quality Improvement Registries" in Registries for Evaluating Patient Outcomes: A User's Guide. Volume 2, Third Edition p. 191-192 AHRQ Publication No. 13(14)-EHC111 April 2014
5. Timmons, S. and **Asher, A.** "Quality Programs in Neurological Surgery" in American College of Surgeons Optimal Resources for Surgical Quality and Safety Hoyt, D and Ko, C., Editors, American College of Surgeons, May 2018

## **BOOK REVIEWS**

1. **Asher A.** Book Review: Brain Tumors, An Encyclopedic Approach. NeuroOncology Volume 4, Issue 4, 2002.
2. **Asher, A.** Book Review: The Coming Shortage of Surgeons: Why They Are Disappearing and What That Means for Our Health. J. Neurosurgery, 2010 113: 682-683