



## Gerald Grant, MD, FACS

Endowed Professor in Pediatric Neurosurgery and Professor, by courtesy, of Neurology at the Stanford University Medical Center

### CLINICAL OFFICES

- **Neurosciences and Pediatric Surgery**

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Palo Alto, CA 94304

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### Bio

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### CLINICAL FOCUS

- Brain Tumors
- Surgical epilepsy
- Neuroendoscopy
- Arnold-Chiari Malformation
- Minimally invasive craniostomy
- Moya-moya disease
- Pediatric Neurological Surgery

### ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Neurosurgery
- Professor - Med Center Line (By courtesy), Neurology & Neurological Sciences
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

### ADMINISTRATIVE APPOINTMENTS

- Division Chief, Pediatric Neurosurgery, (2014- present)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Section Editor, Neurosurgery (2014 - present)
- Education Chair, American Society of Pediatric Neurosurgery (2013 - present)
- Committee on Trauma, American College of Surgeons (2012 - present)
- Member at Large, Executive Committee, Section of Pediatric Neurosurgery (2014 - present)

- Executive Committee, Congress of Neurological Surgeons (2014 - present)

## PROFESSIONAL EDUCATION

- Fellowship: University of Washington Neurosurgery Fellowship Program (2002) WA
- Residency: University of Washington Neurosurgery Fellowship Program (2001) WA
- Internship: University of Washington Dept of Surgery (1995) WA
- Medical Education: Stanford University School of Medicine Registrar (1994) CA
- Board Certification: Pediatric Neurological Surgery, American Board of Pediatric Neurological Surgery (2008)
- Board Certification: Neurological Surgery, American Board of Neurological Surgery (2005)
- Bachelor of Sciences, Duke University , Neurosciences (1989)

## COMMUNITY AND INTERNATIONAL WORK

- Stanford Neurosurgery in Uganda, Mulago Hospital

## LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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## CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Grant directs a Blood-brain Barrier Translational Laboratory focusing on enhancing drug delivery to brain tumors in children.

## CLINICAL TRIALS

- In Vivo Characterization of Macrophages in Pediatric Patients With Malignant Brain Tumors Using Ferumoxytol-enhanced MRI, Recruiting
- Interventions for Convergence Insufficiency in Concussed Children, Not Recruiting

## Teaching

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## COURSES

### 2018-19

- Narratives in Neurosurgery: NSUR 200 (Spr)

### 2017-18

- Narratives in Neurosurgery: NSUR 200 (Spr)

### 2016-17

- Narratives in Neurosurgery: NSUR 200 (Spr)

### 2015-16

- Narratives in Neurosurgery: NSUR 200 (Spr)

## STANFORD ADVISEES

### Postdoctoral Faculty Sponsor

Johana Carolina Vega Leonel

### Postdoctoral Research Mentor

Quan Zhou

## Publications

### PUBLICATIONS

- **Radiological and clinical predictors of scoliosis in patients with Chiari malformation type I and spinal cord syrinx from the Park-Reeves Syringomyelia Research Consortium.** *Journal of neurosurgery. Pediatrics*  
Strahle, J. M., Taiwo, R., Averill, C., Torner, J., Shannon, C. N., Bonfield, C. M., Tuite, G. F., Bethel-Anderson, T., Rutlin, J., Brockmeyer, D. L., Wellons, J. C., Leonard, J. R., Mangano, et al  
2019: 1–8
- **Posterior fossa syndrome and increased mean diffusivity in the olivary bodies.** *Journal of neurosurgery. Pediatrics*  
Yecies, D., Jabarkheel, R., Han, M., Kim, Y., Bruckert, L., Shpanskaya, K., Perez, A., Edwards, M. S., Grant, G. A., Yeom, K. W.  
2019: 1–6
- **Speckle modulation enables high-resolution wide-field human brain tumor margin detection and in vivo murine neuroimaging.** *Scientific reports*  
Yecies, D., Liba, O., SoRelle, E. D., Dutta, R., Yuan, E., Vogel, H., Grant, G. A., de la Zerda, A.  
2019; 9 (1): 10388
- **Factors Associated with Timeliness of Surgical Repair among Infants with Myelomeningocele: California Perinatal Quality Care Collaborative, 2006 to 2011.** *American journal of perinatology*  
Kancherla, V., Ma, C., Grant, G., Lee, H. C., Shaw, G. M., Hintz, S. R., Carmichael, S. L.  
2019
- **Spatiotemporal Tracking of Brain-Tumor-Associated Myeloid Cells in Vivo through Optical Coherence Tomography with Plasmonic Labeling and Speckle Modulation** *ACS NANO*  
SoRelle, E., Yecies, D., Liba, O., Bennett, F., Graef, C., Dutta, R., Mitra, S., Joubert, L., Cheshier, S., Grant, G. A., de la Zerda, A.  
2019; 13 (7): 7985–95
- **Early Diffusion Magnetic Resonance Imaging Changes in Normal-Appearing Brain in Pediatric Moyamoya Disease.** *Neurosurgery*  
Quon, J. L., Kim, L. H., MacEachern, S. J., Maleki, M., Steinberg, G. K., Madhugiri, V., Edwards, M. S., Grant, G. A., Yeom, K. W., Forkert, N. D.  
2019
- **Longitudinal Changes in Hippocampal Subfield Volume Associated with Collegiate Football** *JOURNAL OF NEUROTRAUMA*  
Parivash, S. N., Goubran, M., Mills, B. D., Rezaei, P., Thaler, C., Wolman, D., Bian, W., Mitchell, L. A., Boldt, B., Douglas, D., Wilson, E. W., Choi, J., Xie, et al  
2019
- **Central Nervous System Tumors in Uganda: Outcomes of Surgical Treatment and Complications Assessed Through Telephone Survey.** *World neurosurgery*  
Kakusa, B. W., Xu, L. W., Vaca, S. D., Nalwanga, J., Kiryabwire, J., Ssenyonjo, H., Mukasa, J., Muhumuza, M., Haglund, M. M., Grant, G. A.  
2019
- **Guidelines for the Management of Pediatric Severe Traumatic Brain Injury, Third Edition: Update of the Brain Trauma Foundation Guidelines, Executive Summary** *NEUROSURGERY*  
Kochanek, P. M., Tasker, R. C., Carney, N., Totten, A. M., Adelson, P., Selden, N. R., Davis-O'Reilly, C., Hart, E. L., Bell, M. J., Bratton, S. L., Grant, G. A., Kisson, N., Reuter-Rice, et al  
2019; 84 (6): 1169–78
- **Lateral impacts correlate with falx cerebri displacement and corpus callosum trauma in sports-related concussions** *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*  
Hernandez, F., Giordano, C., Goubran, M., Parivash, S., Grant, G., Zeineh, M., Camarillo, D.  
2019; 18 (3): 631–49
- **Stability of Blood Biomarkers of Traumatic Brain Injury** *JOURNAL OF NEUROTRAUMA*  
Rezaei, P., Grant, G., Zeineh, M., Richardson, K., Coburn, M., Bet, A., Weber, A., Jiang, B., Li, Y., Ubungen, K., Routh, G., Wheatcroft, A., Paulino, et al  
2019: 1–10
- **Mimicking brain tumor-vasculature microanatomical architecture via co-culture of brain tumor and endothelial cells in 3D hydrogels** *BIOMATERIALS*  
Wang, C., Li, J., Sinha, S., Peterson, A., Grant, G. A., Yang, F.  
2019; 202: 35–44

- **Stability of Blood Biomarkers of Traumatic Brain Injury.** *Journal of neurotrauma*  
Rezaii, P., Grant, G., Zeineh, M., Richardson, K. J., Coburn, M. L., Bet, A. M., Weber, A., Jiang, B., Li, Y., Ubungen, K., Routh, G., Wheatcroft, A. M., Paulino, et al  
2019
- **Arterial spin-labeling cerebral perfusion changes after revascularization surgery in pediatric moyamoya disease and syndrome** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Quon, J. L., Kim, L. H., Lober, R. M., Maleki, M., Steinberg, G. K., Yeom, K. W.  
2019; 23 (4): 486–92
- **Lateral impacts correlate with falx cerebri displacement and corpus callosum trauma in sports-related concussions.** *Biomechanics and modeling in mechanobiology*  
Hernandez, F., Giordano, C., Goubran, M., Parivash, S., Grant, G., Zeineh, M., Camarillo, D.  
2019
- **Guidelines for the Management of Pediatric Severe Traumatic Brain Injury, Third Edition: Update of the Brain Trauma Foundation Guidelines, Executive Summary.** *Neurosurgery*  
Kochanek, P. M., Tasker, R. C., Carney, N., Totten, A. M., Adelson, P. D., Selden, N. R., Davis-O'Reilly, C., Hart, E. L., Bell, M. J., Bratton, S. L., Grant, G. A., Kisson, N., Reuter-Rice, et al  
2019
- **Guidelines for the Management of Pediatric Severe Traumatic Brain Injury, Third Edition: Update of the Brain Trauma Foundation Guidelines.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*  
Kochanek, P. M., Tasker, R. C., Carney, N., Totten, A. M., Adelson, P. D., Selden, N. R., Davis-O'Reilly, C., Hart, E. L., Bell, M. J., Bratton, S. L., Grant, G. A., Kisson, N., Reuter-Rice, et al  
2019; 20 (3S Suppl 1): S1–S82
- **Guidelines for the Management of Pediatric Severe Traumatic Brain Injury, Third Edition: Update of the Brain Trauma Foundation Guidelines** *PEDIATRIC CRITICAL CARE MEDICINE*  
Kochanek, P. M., Tasker, R. C., Carney, N., Totten, A. M., Adelson, P., Selden, N. R., Davis-O'Reilly, C., Hart, E. L., Bell, M. J., Bratton, S. L., Grant, G. A., Kisson, N., Reuter-Rice, et al  
2019; 20 (3): S1–S82
- **Guidelines for the Management of Pediatric Severe Traumatic Brain Injury, Third Edition: Update of the Brain Trauma Foundation Guidelines, Executive Summary.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*  
Kochanek, P. M., Tasker, R. C., Carney, N., Totten, A. M., Adelson, P. D., Selden, N. R., Davis-O'Reilly, C., Hart, E. L., Bell, M. J., Bratton, S. L., Grant, G. A., Kisson, N., Reuter-Rice, et al  
2019; 20 (3): 280–89
- **Management of Pediatric Severe Traumatic Brain Injury: 2019 Consensus and Guidelines-Based Algorithm for First and Second Tier Therapies.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*  
Kochanek, P. M., Tasker, R. C., Bell, M. J., Adelson, P. D., Carney, N., Vavilala, M. S., Selden, N. R., Bratton, S. L., Grant, G. A., Kisson, N., Reuter-Rice, K. E., Wainwright, M. S.  
2019; 20 (3): 269–79
- **Mimicking brain tumor-vasculature microanatomical architecture via co-culture of brain tumor and endothelial cells in 3D hydrogels.** *Biomaterials*  
Wang, C., Li, J., Sinha, S., Peterson, A., Grant, G. A., Yang, F.  
2019; 202: 35–44
- **Commentary: Limited Dorsal Myeloschisis: Reconsideration of its Embryological Origin.** *Neurosurgery*  
Quon, J. L., Grant, G. A.  
2019
- **Microglia are effector cells of CD47-SIRPalpha antiphagocytic axis disruption against glioblastoma.** *Proceedings of the National Academy of Sciences of the United States of America*  
Hutter, G., Theruvath, J., Graef, C. M., Zhang, M., Schoen, M. K., Manz, E. M., Bennett, M. L., Olson, A., Azad, T. D., Sinha, R., Chan, C., Assad Kahn, S., Gholamin, et al  
2019

- **Longitudinal changes in hippocampal subfield volume associated with collegiate football.** *Journal of neurotrauma*  
Pariavash, S. N., Goubran, M., Mills, B. D., Rezaei, P., Thaler, C., Wolman, D., Bian, W., Mitchell, L. A., Boldt, B., Douglas, D., Wilson, E., Choi, J., Xie, et al  
2019
- **Temporal Delays Along the Neurosurgical Care Continuum for Traumatic Brain Injury Patients at a Tertiary Care Hospital in Kampala, Uganda** *NEUROSURGERY*  
Vaca, S. D., Kuo, B. J., Vissoci, J., Staton, C. A., Xu, L. W., Muhumuza, M., Ssenyonjo, H., Mukasa, J., Kiryabwire, J., Rice, H. E., Grant, G. A., Haglund, M. M.  
2019; 84 (1): 95–102
- **Transnasal endoscopic approach for pediatric skull base lesions: a case series.** *Journal of neurosurgery. Pediatrics*  
Quon, J. L., Kim, L. H., Hwang, P. H., Patel, Z. M., Grant, G. A., Cheshier, S. H., Edwards, M. S.  
2019: 1–12
- **Topical Vancomycin for Surgical Prophylaxis in Pediatric Craniofacial Surgeries.** *The Journal of craniofacial surgery*  
Mohole, J., Ho, A. L., Cannon, J. G., Pendharkar, A. V., Sussman, E. S., Hong, D. S., Cheshier, S. H., Grant, G. A.  
2019
- **Stereotactic laser ablation for completion corpus callosotomy.** *Journal of neurosurgery. Pediatrics*  
Huang, Y., Yecies, D., Bruckert, L., Parker, J. J., Ho, A. L., Kim, L. H., Fornoff, L., Wintermark, M., Porter, B., Yeom, K. W., Halpern, C. H., Grant, G. A.  
2019: 1–9
- **Ferumoxyl-enhanced MRI for surveillance of pediatric cerebral arteriovenous malformations.** *Journal of neurosurgery. Pediatrics*  
Huang, Y., Singer, T. G., Iv, M., Lanzman, B., Nair, S., Stadler, J. A., Wang, J., Edwards, M. S., Grant, G. A., Cheshier, S. H., Yeom, K. W.  
2019: 1–8
- **Commentary: Optimizing Postoperative Surveillance of Pediatric Low-Grade Glioma Using Tumor Behavior Patterns.** *Neurosurgery*  
Quon, J. L., Grant, G. A.  
2019
- **Arterial spin labeling perfusion changes of the frontal lobes in children with posterior fossa syndrome.** *Journal of neurosurgery. Pediatrics*  
Yecies, D., Shpanskaya, K., Jabarkheel, R., Maleki, M., Bruckert, L., Cheshier, S. H., Hong, D., Edwards, M. S., Grant, G. A., Yeom, K. W.  
2019: 1–7
- **Associations between neuropsychiatric and health status outcomes in individuals with probable mTBI.** *Psychiatry research*  
Bomyea, J., Flashman, L. A., Zafonte, R., Andaluz, N., Coimbra, R., George, M. S., Grant, G. A., Marx, C. E., McAllister, T. W., Shutter, L., Lang, A. J., Stein, M. B.  
2018; 272: 531–39
- **Virtual Surgical Planning Decreases Operative Time for Isolated Single Suture and Multi-suture Craniosynostosis Repair** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*  
Andrew, T. W., Baylan, J., Mittermiller, P. A., Cheng, H., Johns, D. N., Edwards, M. B., Cheshier, S. H., Grant, G. A., Lorenz, H.  
2018; 6 (12): e2038
- **Development of best practices to minimize wound complications after complex tethered spinal cord surgery: a modified Delphi study** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Alexiades, N. G., Ahn, E. S., Blount, J. P., Brockmeyer, D. L., Browd, S. R., Grant, G. A., Heuer, G. G., Hankinson, T. C., Iskandar, B. J., Jea, A., Krieger, M. D., Leonard, J. R., Limbrick, et al  
2018; 22 (6): 701–9
- **Long-term Supratentorial Radiological Effects of Surgery and Local Radiation in Children with Infratentorial Ependymoma.** *World neurosurgery*  
Yecies, D., Azad, T. D., Esparza, R., Quon, J., Forkert, N., MacEachern, S. J., Bruckert, L., Maleki, M., Edwards, M., Grant, G., Yeom, K.  
2018
- **Laser interstitial thermal therapy (LITT): Seizure outcomes for refractory mesial temporal lobe epilepsy.** *Epilepsy & behavior : E&B*  
Le, S., Ho, A. L., Fisher, R. S., Miller, K. J., Henderson, J. M., Grant, G. A., Meador, K. J., Halpern, C. H.  
2018; 89: 37–41
- **Common Conditions Requiring Long-Term Anticoagulation in Neurosurgical Patients.** *Neurosurgery clinics of North America*  
Perez, A. J., Grant, G. A.  
2018; 29 (4): 529–35

- **Neural tube defects in Uganda: follow-up outcomes from a national referral hospital.** *Neurosurgical focus*  
Xu, L. W., Vaca, S. D., He, J. Q., Nalwanga, J., Muhumuza, C., Kiryabwire, J., Ssenyonjo, H., Mukasa, J., Muhumuza, M., Grant, G.  
2018; 45 (4): E9
- **Complications following pediatric cranioplasty after decompressive craniectomy: a multicenter retrospective study** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Rocque, B. G., Agee, B. S., Thompson, E. M., Piedra, M., Baird, L. C., Selden, N. R., Greene, S., Deibert, C. P., Hankinson, T. C., Lew, S. M., Iskandar, B. J., Bragg, T. M., Frim, et al  
2018; 22 (3): 225–32
- **COMMENT NEUROSURGERY**  
Mahaney, K. B., Grant, G. A.  
2018; 83 (3): 487
- **Stereoelectroencephalography in children: a review.** *Neurosurgical focus*  
Ho, A. L., Feng, A. Y., Kim, L. H., Pendharkar, A. V., Sussman, E. S., Halpern, C. H., Grant, G. A.  
2018; 45 (3): E7
- **Robot-guided pediatric stereoelectroencephalography: single-institution experience.** *Journal of neurosurgery. Pediatrics*  
Ho, A. L., Muftuoglu, Y., Pendharkar, A. V., Sussman, E. S., Porter, B. E., Halpern, C. H., Grant, G. A.  
2018: 1–8
- **Rapid-sequence brain magnetic resonance imaging for Chiari I abnormality** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Pan, J., Quon, J. L., Johnson, E., Lanzman, B., Chukus, A., Ho, A. L., Edwards, M. B., Grant, G. A., Yeom, K. W.  
2018; 22 (2): 158–64
- **Topical vancomycin for surgical prophylaxis in non-instrumented pediatric spinal surgeries.** *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*  
Cannon, J. G., Ho, A. L., Mohole, J., Pendharkar, A. V., Sussman, E. S., Cheshier, S. H., Grant, G. A.  
2018
- **In Reply: Neurosurgical Randomized Controlled Trials-Distance Traveled.** *Neurosurgery*  
Azad, T. D., Grant, G. A.  
2018
- **Safety of Dynamic MRI of the Cervical Spine in Children Performed Without Neurosurgical Supervision.** *World neurosurgery*  
Yecies, D., Fogel, N., Edwards, M., Grant, G., Yeom, K. W., Cheshier, S.  
2018
- **White matter abnormalities in mild traumatic brain injury with and without post-traumatic stress disorder: a subject-specific diffusion tensor imaging study** *BRAIN IMAGING AND BEHAVIOR*  
Lepage, C., de Pierrefeu, A., Koerte, I. K., Coleman, M. J., Pasternak, O., Grant, G., Marx, C. E., Morey, R. A., Flashman, L. A., George, M. S., McAllister, T. W., Andaluz, N., Shutter, et al  
2018; 12 (3): 870–81
- **Somatic SLC35A2 variants in the brain are associated with intractable neocortical epilepsy** *ANNALS OF NEUROLOGY*  
Winawer, M. R., Griffin, N. G., Samanamud, J., Baugh, E. H., Rathakrishnan, D., Ramalingam, S., Zagzag, D., Schevon, C. A., Dugan, P., Hegde, M., Sheth, S. A., McKhann, G. M., Doyle, et al  
2018; 83 (6): 1133–46
- **RE-MATCH PROTOCOL: PHASE I STUDY OF AUTOLOGOUS TUMOR SPECIFIC LYMPHOCYTE TRANSFER (ALT) plus DC VACCINE (DCV) DURING RECOVERY FROM MYELOABLATIVE CHEMOTHERAPY (MAC) AND AUTOLOGOUS STEM CELL RESCUE (HDC plus ASCR) OR NON-MYELOABLATIVE CHEMOTHERAPY (NMAC) IN PATIENTS WITH RECURRENT CENTRAL PNETS (R-PNET)**  
Gururangan, S., Grant, G., Driscoll, T., Archer, G., Herndon, J., Friedman, H., Kurtzberg, J., Bigner, D., Sampson, J., Mitchell, D.  
OXFORD UNIV PRESS INC.2018: 104
- **ASL PERFUSION IMAGING OF THE FRONTAL LOBES PREDICTS THE OCCURRENCE AND RESOLUTION OF POSTERIOR FOSSA SYNDROME**  
Yecies, D., Shpanskaya, K., Grant, G., Cheshier, S., Hong, D., Edwards, M., Yeom, K.  
OXFORD UNIV PRESS INC.2018: 170

- **A Combination of Ontogeny and CNS Environment Establishes Microglial Identity.** *Neuron*  
Bennett, F. C., Bennett, M. L., Yaqoob, F., Mulinyawe, S. B., Grant, G. A., Hayden Gephart, M., Plowey, E. D., Barres, B. A.  
2018
- **Minimally invasive approaches to craniostyostosis.** *Journal of neurosurgical sciences*  
Pendharkar, A. V., Shahin, M. N., Cavallo, C., Zhao, X., Ho, A. L., Sussman, E. S., Grant, G. A.  
2018
- **Improved operative efficiency using a real-time MRI-guided stereotactic platform for laser amygdalohippocampotomy** *JOURNAL OF NEUROSURGERY*  
Ho, A. L., Sussman, E. S., Pendharkar, A. V., Le, S., Mantovani, A., Keebaugh, A. C., Drover, D. R., Grant, G. A., Wintermark, M., Halpern, C. H.  
2018; 128 (4): 1165–72
- **Temporal Delays Along the Neurosurgical Care Continuum for Traumatic Brain Injury Patients at a Tertiary Care Hospital in Kampala, Uganda.** *Neurosurgery*  
Vaca, S. D., Kuo, B. J., Nickenig Vissoci, J. R., Staton, C. A., Xu, L. W., Muhumuza, M., Ssenyonjo, H., Mukasa, J., Kiryabwire, J., Rice, H. E., Grant, G. A., Haglund, M. M.  
2018
- **Multi-site harmonization of diffusion MRI data in a registration framework** *BRAIN IMAGING AND BEHAVIOR*  
Mirzaalian, H., Ning, L., Savadjiev, P., Pasternak, O., Bouix, S., Michailovich, O., Karmacharya, S., Grant, G., Marx, C. E., Morey, R. A., Flashman, L. A., George, M. S., McAllister, et al  
2018; 12 (1): 284–95
- **Occipital Dermal Sinus Tract** *JOURNAL OF PEDIATRICS*  
Prolo, L. M., Grant, G. A.  
2018; 193: 276
- **A novel mesial temporal stereotactic coordinate system.** *Journal of neurosurgery*  
Miller, K. J., Halpern, C. H., Sedrak, M. F., Duncan, J. A., Grant, G. A.  
2018: 1–9
- **Life After the Neurosurgical Ward in SubSaharan Africa: Neurosurgical Treatment and Outpatient Outcomes in Uganda.** *World neurosurgery*  
Xu, L. W., Vaca, S. D., Nalwanga, J., Muhumuza, C., Vail, D., Lerman, B. J., Kiryabwire Surg, J., Ssenyonjo, H., Mukasa, J., Muhumuza, M., Haglund, M. M., Grant, G.  
2018
- **Surgical outcomes of pediatric spinal cord astrocytomas: systematic review and meta-analysis.** *Journal of neurosurgery. Pediatrics*  
Azad, T. D., Pendharkar, A. V., Pan, J., Huang, Y., Li, A., Esparza, R., Mehta, S., Connolly, I. D., Veeravagu, A., Campen, C. J., Cheshier, S. H., Edwards, M. S., Fisher, et al  
2018: 1–7
- **Long-term outcomes of primarily metastatic juvenile pilocytic astrocytoma in children.** *Journal of neurosurgery. Pediatrics*  
Yecies, D., Fisher, P. G., Cheshier, S., Edwards, M., Grant, G.  
2018; 21 (1): 49–53
- **Long-term follow-up of pediatric head trauma patients treated at Mulago National Referral Hospital in Uganda.** *Journal of neurosurgery. Pediatrics*  
2018: 1–8
- **Intraoperative Imaging Modalities and the Potential Role of Speckle Modulating Optical Coherence Tomography.** *Neurosurgery*  
Yecies, D., Liba, O., Zerda, A., Grant, G. A.  
2018; 65 (CN\_suppl\_1): 74–77
- **Quality of Care and Outcomes in Pediatric Neurosurgery: Incorporating Evidence-Based Practice** *QUALITY AND SAFETY IN NEUROSURGERY*  
Quon, J. L., Grant, G. A., Guillaume, D. J., Hunt, M. A.  
2018: 237–50
- **Topical vancomycin surgical prophylaxis in pediatric open craniotomies: an institutional experience.** *Journal of neurosurgery. Pediatrics*  
Ho, A. L., Cannon, J. G., Mohole, J., Pendharkar, A. V., Sussman, E. S., Li, G., Edwards, M. S., Cheshier, S. H., Grant, G. A.  
2018: 1–6

- **High-resolution 3D volumetric contrast-enhanced MR angiography with a blood pool agent (ferumoxytol) for diagnostic evaluation of pediatric brain arteriovenous malformations.** *Journal of neurosurgery. Pediatrics*  
Iv, M., Choudhri, O., Dodd, R. L., Vasawala, S. S., Alley, M. T., Moseley, M., Holdsworth, S. J., Grant, G., Cheshier, S., Yeom, K. W.  
2018; 1–10
- **Long-term outcomes of primarily metastatic juvenile pilocytic astrocytoma in children** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Yecies, D., Fisher, P., Cheshier, S., Edwards, M., Grant, G.  
2018; 21 (1): 49–53
- **First-in-human intraoperative near-infrared fluorescence imaging of glioblastoma using cetuximab-IRDye800.** *Journal of neuro-oncology*  
Miller, S. E., Tummers, W. S., Teraphongphom, N., van den Berg, N. S., Hasan, A., Ertsey, R. D., Nagpal, S., Recht, L. D., Plowey, E. D., Vogel, H., Harsh, G. R., Grant, G. A., Li, et al  
2018
- **Fractal structure in the volumetric contrast enhancement of malignant gliomas as a marker of oxidative metabolic pathway gene expression** *TRANSLATIONAL CANCER RESEARCH*  
Miller, K. J., Berendsen, S., Seute, T., Yeom, K., Gephardt, M. H., Grant, G. A., Robe, P. A.  
2017; 6 (6): 1275–+
- **Regulatory T cell subsets in patients with medulloblastoma at diagnosis and during standard irradiation and chemotherapy (PBTC N-11)** *CANCER IMMUNOLOGY IMMUNOTHERAPY*  
Gururangan, S., Reap, E., Schmittling, R., Kocak, M., Reynolds, R., Grant, G., Onar-Thomas, A., Baxter, P., Pollack, I. F., Phillips, P., Boyett, J., Fouladi, M., Mitchell, et al  
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