Stanford



Cormac Maher, MD, FAANS, FAAP, FACS

Botha Chan Endowed Professor

Neurosurgery

CLINICAL OFFICE (PRIMARY)

- **Neurosurgery**

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Bio

BIO

Dr. Maher is a board-certified, fellowship-trained neurosurgeon with Stanford Health Care and is chief of neurosurgery at Lucile Packard Children's Hospital Stanford. He is also the Botha Chan Endowed Professor in the Department of Neurosurgery, Division of Pediatric Neurosurgery at Stanford University School of Medicine.

Dr. Maher specializes in treating children who have neurological disorders — conditions of the brain, spinal cord, and nerves. In his adult practice, he offers particular expertise in treating Chiari malformation, which involves a portion of the brain pushing down into the spinal canal, and tethered spinal cord. Dr. Maher has served on many national organization committees for research and training in neurosurgery.

Dr. Maher has published more than 190 articles in peer-reviewed journals, including Journal of Neurosurgery, Neurosurgery, and Journal of Neurosurgery: Pediatrics. He has also served on the editorial boards for publications and organizations including the Journal of Neurosurgery Publishing Group. He has performed ad hoc review for many other journals and grant review for organizations including the American Association of Neurological Surgeons (AANS).

Dr. Maher has delivered hundreds of presentations at symposiums and conferences for national and international audiences. He is also a fellow of the American Academy of Pediatrics, AANS, and American College of Surgeons.

CLINICAL FOCUS

- Neurological Surgery

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Neurosurgery

ADMINISTRATIVE APPOINTMENTS

- Chief of Pediatric Neurosurgery, Lucile Packard Children's Hospital, (2023- present)

HONORS AND AWARDS

- Executive Leadership Program in Health Policy and Management Scholarship, American Association of Neurological Surgeons (AANS) and American College of Surgeons (ACS)
- AANS Leadership Scholarship, ACS and AANS
- Best Pediatric Paper of 2019, Neurosurgery (2019)
- Best Presentation Award, Congress of Neurological Surgeons (CNS) Neurosurgical Forum
- Craniofacial Poster Award, AANS Pediatric Section Meeting
- Distinguished Alumni Award, Mayo Clinic Neurosurgery
- Haines Family Lectureship on Clinical Research in Neurosurgery, University of Minnesota Medical School
- Honored Guest, Georgia Neurosurgical Association
- Invited Guest, Neurosurgical Society of Australia
- Julian T. Hoff Teaching Award, Department of Neurosurgery, University of Michigan
- Making a Difference, University of Michigan Medicine Employee Recognition Program (2009, 2013 – 2015)
- Pediatric Section Research Award, AANS (2010, 2012)
- Sigma Xi, The Scientific Research Honor Society
- Stacey Rollins, Jr., MD, Award, University of Michigan
- Top Docs, Hour Detroit (2007, 2014 – 2022)
- Top Doctors in Metro Detroit, StyleLine Magazine (2010 – 2014)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Neurosurgery Specialty Lead, Accreditation Council for Graduate Medical Education Program Director Quality and Safety Council (2019 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Neurosurgery, American Board of Pediatric Neurological Surgery (2011)
- Board Certification: Neurological Surgery, American Board of Neurological Surgery (2010)
- Fellowship: Brigham and Women's Hospital Cerebrovascular Neurosurgery Program (2006) MA
- Fellowship: Boston Children's Hospital Neurosurgery Fellowship (2005) MA
- Residency: Mayo Clinic Graduate Medical Education (2004) MN
- Medical Education: Georgetown University School of Medicine (1998) DC

Publications

PUBLICATIONS

- **Response** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Marupudi, N. I., Holste, K. G., Garton, H. J. L., Muraszko, K. M., Maher, C. O.
  2026; 37 (6): 637-638

- **Decompression with or without Duraplasty for Chiari I and Syringomyelia.** *The New England journal of medicine*
  Limbrick, D. D., Shannon, C. N., Bayman, E. O., Meehan, T., Kallem, M., Ackerman, L. L., Adelson, P. D., Ahmed, R., Albert, G., Aldana, P. R., Alden, T. D., Anderson, R. C., Baird, et al
  2026; 394 (20): 2015-2025

- **Endoscopic Endonasal Supratotal Resection of a Pediatric Clival Chordoma With Intradural Extension and Brainstem Compression.** *Operative neurosurgery (Hagerstown, Md.)*
  Alvarez, A. S., Palejwala, A., Nayak, J., Maher, C., Fernandez-Miranda, J. C.
  2025
- **No increased incidence of tethered cord syndrome or low-lying conus in pediatric Chiari malformation type I.** *Journal of neurosurgery. Pediatrics*
  Holste, K. G., McVeigh, L., Albdewi, M. J., Garton, H. J., Maher, C. O., Muraszko, K. M., Marupudi, N. I.
  2025: 1-5
- **Comprehensive pediatric neurosurgical implant checklist to maintain low implant infection rates: lessons on compliance and institutional culture.** *Journal of neurosurgery. Pediatrics*
  Cheetham-West, A. O., Kumar, K. K., Kruger, J. F., Prolo, L. M., Maher, C. O., Phillips, H. W., Hong, D. S., Grant, G. A., Mahaney, K. B.
  2025: 1-8
- **Primary rhombencephalopathy introduction of a new paradigm for the evaluation and management of craniocervical hindbrain pathology** *JOURNAL OF NEUROSURGERY*
  Brockmeyer, D. L., Limbrick Jr, D. D., Maher, C. O., Grant, G. A.
  2025; 142 (4): 1205-1212
- **Building consensus regarding the definition of abnormal craniocervical motion in pediatric patients with Chiari malformation: a modified Delphi study.** *Journal of neurosurgery. Pediatrics*
  Alexiades, N. G., Anderson, D. I., D'Ambrosio, A., Iyer, R., Bauer, D. F., Bonfield, C. M., Chatterjee, S., Ellenbogen, R. G., Grabb, P., Grant, G., Hankinson, T. C., Jea, A., Limbrick, et al
  2025: 1-11
- **Primary rhombencephalopathy: introduction of a new paradigm for the evaluation and management of craniocervical hindbrain pathology.** *Journal of neurosurgery*
  Brockmeyer, D. L., Limbrick, D. D., Maher, C. O., Grant, G. A.
  2025: 1-8
- **BIOPROCESSING OF VIABLE SURGICAL PEDIATRIC BRAIN TUMOR SPECIMENS FOR GENOME-GUIDED PERSONALIZED DRUG TESTING**
  Nasajpour, E., Tran, C., Garcia, C., Xing, L., Lyle, G., Guinle, M., Bagley, B., Mahaney, K., Vogel, H., Learned, K., Vaske, O., Grant, G., Prolo, et al
  OXFORD UNIV PRESS INC.2024
- **Long-Term Tumor Stability After First-Line Treatment With Larotrectinib in an Infant With NTRK2 Fusion-Positive High-Grade Glioma.** *Journal of the National Comprehensive Cancer Network : JNCCN*
  Simoneau, J., Robertson, P., Muraszko, K., Maher, C. O., Garton, H., Calvert, R., Koschmann, C., Upadhyaya, S. A., Mody, R., Brown, N., Kumar-Sinha, C., Parmar, H., Camelo-Piragua, et al
  2024; 22 (7)
- **Development of an in vitro ventricular shunt material testing model and utility of PEG as antifouling coating.** *Journal of neurosurgery. Pediatrics*
  Prindeze, N. J., Szeto, S. G., Glaser, N., Brown, C. B., Azagury, D. E., Maher, C. O.
  2024: 1-5
- **The role of occipital condyle and atlas anomalies on occipital cervical fusion outcomes in Chiari malformation type I with syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium.** *Journal of neurosurgery. Pediatrics*
  Yahanda, A. T., Koueik, J., Ackerman, L. L., Adelson, P. D., Albert, G. W., Aldana, P. R., Alden, T. D., Anderson, R. C., Bauer, D. F., Bethel-Anderson, T., Bierbrauer, K., Brockmeyer, D. L., Chern, et al
  2024: 1-9
- **Language-discordant care in pediatric neurosurgery: parent and provider perspectives on challenges and multilevel solutions to reduce disparities.** *Journal of neurosurgery. Pediatrics*
  Ruiz Colon, G. D., Bereknyei Merrell, S., Poon, D. C., Mahaney, K. B., Maher, C. O., Prolo, L. M.
  2024: 1-7
- **Influence of socioeconomic status on clinical outcomes of diffuse midline glioma and diffuse intrinsic pontine glioma.** *Journal of neurosurgery. Pediatrics*
  Lee, J. H., Holste, K. G., Bah, M. G., Franson, A. T., Garton, H. J., Maher, C. O., Muraszko, K. M.
  2024: 1-9

- **"Ventricular Volume Change as a Predictor of Shunt-Dependent Hydrocephalus in Aneurysmal Subarachnoid Hemorrhage" (vol 180,17880, 2022)** *WORLD NEUROSURGERY*
  Talbot-Stetsko, H. K., Pawlowski, K. D., Aaron, B. L., Adapa, A. R., Altshuler, D. B., Srinivasan, S., Pandey, A. S., Maher, C. O., Hollon, T. C., Khalsa, S. S.
  2023; 180: 224

- **In Reply: Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Patients With Chiari Malformation: Surgical Interventions.** *Neurosurgery*
  Bauer, D. F., Pattisapu, J. V., Ackerman, L. L., Infinger, L. K., Jackson, E. M., Jernigan, S., Maher, C. O., Niazi, T., Qaiser, R., Quinsey, C., Raskin, J. S., Rocque, B. G., Silberstein, et al
  2023

- **Attenuation of ventriculomegaly and iron overload after intraventricular hemorrhage by membrane attack complex inhibition.** *Journal of neurosurgery*
  Holste, K. G., Ye, F., Koduri, S., Garton, H. J., Maher, C. O., Keep, R. F., Hua, Y., Xi, G.
  2023: 1-11

- **Sports Participation and Neurological Injuries in Pediatric Patients With Chiari I Malformation** *NEUROSURGERY*
  Wieland, C. M., Holste, K. G., Selzer, B., Garton, H. J. L., Muraszko, K. M., Maher, C. O.
  2023; 93 (3): 646-653

- **Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Patients With Chiari Malformation: Surgical Interventions.** *Neurosurgery*
  Pattisapu, J. V., Ackerman, L. L., Infinger, L. K., Maher, C. O., Quinsey, C., Rocque, B. G., Silberstein, H., Jackson, E. M., Jernigan, S., Niazi, T., Qaiser, R., Raskin, J. S., Vachhrajani, et al
  2023

- **Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Patients With Chiari Malformation: Symptoms.** *Neurosurgery*
  Jackson, E. M., Jernigan, S., Raskin, J. S., Ackerman, L. L., Infinger, L. K., Maher, C. O., Niazi, T., Pattisapu, J. V., Qaiser, R., Quinsey, C., Rocque, B. G., Silberstein, H., Vachhrajani, et al
  2023

- **Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Patients With Chiari Malformation: Diagnosis.** *Neurosurgery*
  Bauer, D. F., Niazi, T., Qaiser, R., Infinger, L. K., Vachhrajani, S., Ackerman, L. L., Jackson, E. M., Jernigan, S., Maher, C. O., Pattisapu, J. V., Quinsey, C., Raskin, J. S., Rocque, et al
  2023

- **Ventriculoatrial and ventriculoperitoneal shunt malfunction and infection in infants with necrotizing enterocolitis.** *Journal of neurosurgery. Pediatrics*
  Holste, K. G., Vernamonti, J., Bah, M. G., Muraszko, K. M., Gadepalli, S. K., Maher, C. O., Garton, H. J.
  2023: 1-7

- **Pediatric Moyamoya Revascularization Perioperative Care: A Modified Delphi Study.** *Neurocritical care*
  Sun, L. R., Jordan, L. C., Smith, E. R., Aldana, P. R., Kirschen, M. P., Guilliams, K., Gupta, N., Steinberg, G. K., Fox, C., Harrar, D. B., Lee, S., Chung, M. G., Dirks, et al
  2023

- **A comparison of ventricular volume and linear indices in predicting shunt dependence in aneurysmal subarachnoid hemorrhage.** *World neurosurgery: X*
  Talbot-Stetsko, H. K., Hollon, T. C., Maher, C. O., Pandey, A. S., Khalsa, S. S.
  2023; 19: 100181

- **Sports Participation and Sports-Related Neurologic Injuries in Pediatric Patients With Arachnoid Cysts.** *Neurosurgery*
  Lee, J. H., Holste, K. G., Selzer, B. J., Garton, H. J., Muraszko, K. M., Maher, C. O.
  2023

- **Complement inhibition reduces long-term ventriculomegaly and iron-overload after intraventricular hemorrhage**
  Holste, K., Maher, C., Garton, H., Muraszko, K., Xi, G.
  AMER ASSOC NEUROLOGICAL SURGEONS.2023

- **Complement inhibition reduces long-term ventriculomegaly and iron-overload after intraventricular hemorrhage**
  Holste, K., Maher, C., Garton, H., Muraszko, K., Xi, G.
  AMER ASSOC NEUROLOGICAL SURGEONS.2023
- **Complement inhibition reduces long-term ventriculomegaly and iron-overload after intraventricular hemorrhage**
  Holste, K., Maher, C., Garton, H., Muraszko, K., Xi, G.
  AMER ASSOC NEUROLOGICAL SURGEONS.2023
- **Epidemiology of Chiari I Malformation and Syringomyelia** *NEUROSURGERY CLINICS OF NORTH AMERICA*
  Holste, K. G., Muraszko, K. M., Maher, C. O.
  2023; 34 (1): 9-15
- **Indications for arachnoid cyst surgery** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Maher, C. O.
  2022; 30 (3): 135-137
- **Program Directors Patient Safety and Quality Educators Network: A Learning Collaborative to Improve Resident and Fellow Physician Engagement.** *Journal of graduate medical education*
  Wagner, R., Weiss, K. B., Headrick, L. A., Sullivan, A. G., Clewett, E. R., Clements, D. S., Brigham, T. P., Arora, S.
  2022; 14 (4): 505-509
- **Incidental Murmur in a Preadolescent Boy** *JAMA CARDIOLOGY*
  Lam, J. L. W., Saleh, S., Maher, C. O.
  2022; 7 (7): e220927
- **Subdural hematoma prevalence and long-term developmental outcomes in patients with benign expansion of the subarachnoid spaces** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Holste, K. G., Wieland, C. M., Ibrahim, M., Parmar, H. A., Saleh, S., Garton, H. J. L., Maher, C. O.
  2022; 29 (5): 536-542
- **The use of big data for improving understanding of the natural history of neurosurgical disease** *NEUROSURGICAL FOCUS*
  Holste, K. G., Chopra, Z., Saleh, S., Saadeh, Y. S., Park, P., Maher, C. O.
  2022; 52 (4): E2
- **Superficial abdominal reflex in syringomyelia: Associations with Chiari I malformation** *JOURNAL OF CLINICAL NEUROSCIENCE*
  Nadel, J. L., Ziats, C., Mossner, J. M., Starr, J. B., Smith, B. W., Kelly, M. P., Muraszko, K. M., Farley, F. A., Maher, C. O., Garton, H. J. L., Strahle, J. M.
  2022; 98: 1-5
- **Program Director Patient Safety and Quality Educators Network: A Learning Collaborative to Improve Resident and Fellow Physician Engagement** *Journal of Graduate Medical Education*
  Wagner , R., Weiss , K., Headrick , L., Jaffe , R., Fant , A., Sullivan , A., Maher , C., Donato , J., Benzil , D., Miltner , R., Hemphill , R., Holmboe , E., Clewett , et al
  2022
- **Intern Year** *Surviving Neurosurgery*
  Ward , A., Maher , C.
  Springer.2022
- **Ventricular Volume Change as a Predictor of Shunt-Dependent Hydrocephalus in Aneurysmal Subarachnoid Hemorrhage** *WORLD NEUROSURGERY*
  Talbot-Stetsko, H. K., Raue, K. D., Aaron, B. L., Adapa, A. R., Altshuler, D. B., Srinivasan, S., Pandey, A. S., Maher, C. O., Hollon, T. C., Khalsa, S. S.
  2022; 157: E57-E65
- **Socioeconomic and demographic factors in the diagnosis and treatment of Chiari malformation type I and syringomyelia.** *Journal of neurosurgery. Pediatrics*
  Akbari, S. H., Rizvi, A. A., CreveCoeur, T. S., Han, R. H., Greenberg, J. K., Torner, J., Brockmeyer, D. L., Wellons, J. C., Leonard, J. R., Mangano, F. T., Johnston, J. M., Shah, M. N., Iskandar, et al
  2021: 1-10

- **Neuro-Ophthalmologic Monitoring in the Management of Increased Intracranial Pressure From Leaking Arachnoid Cysts** *JOURNAL OF NEURO-OPHTHALMOLOGY*
  Deveney, T. K., Lebas, M., Lobo, R. R., Maher, C. O., Trobe, J. D.
  2021; 41 (4): E535-E540

- **Longitudinal scoliosis behavior in Chiari malformation with and without syringomyelia** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Chotai, S., Nadel, J. L., Holste, K. G., Mossner, J. M., Smith, B. W., Kapurch, J. R., Muraszko, K. M., Garton, H. J. L., Maher, C. O., Strahle, J. M.
  2021; 28 (5): 585-591

- **Incidental Intracranial Cysts in Children** *PEDIATRIC CLINICS OF NORTH AMERICA*
  Muhlestein, W. E., Maher, C. O.
  2021; 68 (4): 775-782

- **Complications and outcomes of posterior fossa decompression with duraplasty versus without duraplasty for pediatric patients with Chiari malformation type I and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Akbari, S. A., Yahanda, A. T., Ackerman, L. L., Adelson, P., Ahmed, R., Albert, G. W., Aldana, P. R., Alden, T. D., Anderson, R. C. E., Bauer, D. F., Bethel-Anderson, T., Bierbrauer, K., Brockmeyer, et al
  2021; 30 (1): 39-51

- **Author reply to letter to the editor regarding "Seizure Prophylaxis in Unruptured Aneurysm Repair: A Randomized Controlled Trial"** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Daou, B. J., Maher, C. O., Thompson, B., Pandey, A. S.
  2021; 30 (7): 105722

- **Extradural decompression versus duraplasty in Chiari malformation type I with syrinx: outcomes on scoliosis from the Park-Reeves Syringomyelia Research Consortium.** *Journal of neurosurgery. Pediatrics*
  Sadler, B., Skidmore, A., Gewirtz, J., Anderson, R. C., Haller, G., Ackerman, L. L., Adelson, P. D., Ahmed, R., Albert, G. W., Aldana, P. R., Alden, T. D., Averill, C., Baird, et al
  2021: 1-9

- **Weighing In on the Controversy: Preoperative Imaging in Unicoronal Craniosynostosis Leads to Strategic Changes in Surgical Care** *PLASTIC AND RECONSTRUCTIVE SURGERY*
  Ulma, R. M., Ranganathan, K. L., Vercler, C. J., Garton, H. J. L., Maher, C. O., Muraszko, K. M., Buchman, S. R.
  2021; 147 (5): 1133-1139

- **Dural augmentation approaches and complication rates after posterior fossa decompression for Chiari I malformation and syringomyelia: a Park-Reeves Syringomyelia Research Consortium study** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Yahanda, A. T., Adelson, P., Akbari, S. A., Albert, G. W., Aldana, P. R., Alden, T. D., Anderson, R. C. E., Bauer, D. F., Bethel-Anderson, T., Brockmeyer, D. L., Chern, J. J., Couture, D. E., Daniels, et al
  2021; 27 (4): 459-468

- **Radiation-Induced Imaging Changes and Cerebral Edema following Stereotactic Radiosurgery for Brain AVMs.** *AJNR. American journal of neuroradiology*
  Daou, B. J., Palmateer, G., Wilkinson, D. A., Thompson, B. G., Maher, C. O., Chaudhary, N., Gemmete, J. J., Hayman, J. A., Lam, K., Wahl, D. R., Kim, M., Pandey, A. S.
  2021; 42 (1): 82-87

- **Pediatric Arteriovenous Malformations** *Youman and Winn's Neurological Surgery*
  Maher , C., Wilkinson , A.
  Elsevier.2021; 8th

- **Occipital-Cervical Fusion and Ventral Decompression in the Surgical Management of Chiari-1 Malformation and Syringomyelia: Analysis of Data From the Park-Reeves Syringomyelia Research Consortium.** *Neurosurgery*
  CreveCoeur, T. S., Yahanda, A. T., Maher, C. O., Johnson, G. W., Ackerman, L. L., Adelson, P. D., Ahmed, R., Albert, G. W., Aldana, P. R., Alden, T. D., Anderson, R. C., Baird, L., Bauer, et al
  2020

- **ELECTRONIC SEQUENCING PROVIDES OPTIMIZED QUANTIFICATION OF SERIAL, MULTI-GENE MOLECULAR RESPONSE IN THE CSF OF CHILDREN WITH HIGH-GRADE GLIOMA**
  Bruzek, A., Muruganand, A., Ravi, K., Wadden, J., Babila, C., Tunkle, L., Wierzbicki, K., Stallard, S., Cantor, E., Qin, T., Wolfe, I., Mody, R., Muraszko, et al

OXFORD UNIV PRESS INC.2020: 288

- **Electronic DNA Analysis of CSF Cell-free Tumor DNA to Quantify Multi-gene Molecular Response in Pediatric High-grade Glioma** *CLINICAL CANCER RESEARCH*
  Bruzek, A. K., Ravi, K., Muruganand, A., Wadden, J., Babila, C., Cantor, E., Tunkle, L., Wierzbicki, K., Stallard, S., Dickson, R. P., Wolfe, I., Mody, R., Schwartz, et al
  2020; 26 (23): 6266-6276

- **Normal cerebral ventricular volume growth in childhood** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Cutler, N. S., Srinivasan, S., Aaron, B. L., Anand, S., Kang, M. S., Altshuler, D. B., Schermerhorn, T. C., Hollon, T. C., Maher, C. O., Khalsa, S. S.
  2020; 26 (5): 517-524

- **Seizure Prophylaxis in Unruptured Aneurysm Repair: A Randomized Controlled Trial** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Daou, B. J., Maher, C. O., Holste, K., Palmateer, G., Lint, C., Elenbaas, J., Thompson, B., Pandey, A. S.
  2020; 29 (10): 105171

- **Stereotactic Radiosurgery for Brain Arteriovenous Malformations: Evaluation of Obliteration and Review of Associated Predictors** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Daou, B. J., Palmateer, G., Thompson, B., Maher, C. O., Hayman, J. A., Lam, K. L., Wahl, D. R., Kim, M., Pandey, A. S.
  2020; 29 (8): 104863

- **Pediatric neurosurgery along with children's hospitals' innovations are rapid and uniform in response to the COVID-19 pandemic** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Weiner, H. L., Adelson, P., Brockmeyer, D. L., Maher, C. O., Gupta, N., Smyth, M. D., Jea, A., Blount, J. P., Riva-Cambrin, J., Lam, S. K., Ahn, E. S., Albert, G. W., Leonard, et al
  2020; 26 (1): 3-5

- **Obstetric Management and Maternal Outcomes of Childbirth Among Patients With Chiari Malformation Type I** *NEUROSURGERY*
  Wilkinson, D., Johnson, K., Castaneda, P. R., Nadel, J. L., Garton, H. J. L., Muraszko, K. M., Maher, C. O.
  2020; 87 (1): 45-52

- **Using a Mobile Application for Evaluation of Procedural Learning in Neurosurgery** *WORLD NEUROSURGERY*
  Koduri, S., Altshuler, D. B., Khalsa, S. S., Maher, C. O., Wnuk, G., Tong, D., George, B. C., Szerlip, N.
  2020; 138: E124-E150

- **Factors associated with syrinx size in pediatric patients treated for Chiari malformation type I and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Hale, A. T., Adelson, P., Albert, G. W., Aldana, P. R., Alden, T. D., Anderson, R. C. E., Bauer, D. F., Bonfield, C. M., Brockmeyer, D. L., Chern, J. J., Couture, D. E., Daniels, D. J., Durham, et al
  2020; 25 (6): 629-639

- **Thirty-Day Hospital Readmission and Surgical Complication Rates for Shunting in Normal Pressure Hydrocephalus: A Large National Database Analysis** *NEUROSURGERY*
  Nadel, J. L., Wilkinson, D., Linzey, J. R., Maher, C. O., Kotagal, V., Heth, J. A.
  2020; 86 (6): 843-850

- **In Reply: Obstetric Management and Maternal Outcomes of Childbirth Among Patients With Chiari Malformation Type I** *NEUROSURGERY*
  Maher, C. O.
  2020; 86 (5): E474

- **Syringomyelia in children with closed spinal dysraphism: long-term outcomes after surgical intervention** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Bruzek, A. K., Starr, J., Garton, H. J. L., Muraszko, K. M., Maher, C. O., Strahle, J. M.
  2020; 25 (3): 319-325

- **Predictors of surgical treatment in children with tethered fibrofatty filum terminale** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Kashlan, O. N., Wilkinson, D., Morgenstern, H., Khalsa, S. S., Maher, C. O.
  2020; 25 (2): 196-203

- **Near real-time intraoperative brain tumor diagnosis using stimulated Raman histology and deep neural networks** *NATURE MEDICINE*

Hollon, T. C., Pandian, B., Adapa, A. R., Urias, E., Save, A. V., Khalsa, S. S., Eichberg, D. G., D'Amico, R. S., Farooq, Z. U., Lewis, S., Petridis, P. D., Marie, T., Shah, et al
2020; 26 (1): 52-+

- **Natural History of Chiari Malformations** *The Chiari Malformations*
  Tubbs , R., Turgot , M., Oakes , W.
  2020; 2nd

- **Pediatric neurosurgery training during residency in the United States: a program director survey.** *Journal of neurosurgery. Pediatrics*
  Limoges, N. n., D'Agostino, E. n., Gelinne, A. n., Maher, C. O., Scott, R. M., Grant, G. n., Krieger, M. D., Limbrick, D. D., White, M. n., Durham, S. n.
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