



## Cormac O Maher

Botha Chan Endowed Professor

Neurosurgery

### CLINICAL OFFICE (PRIMARY)

- **Neurosurgery**

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### Bio

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#### CLINICAL FOCUS

- Neurological Surgery

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Neurosurgery

#### ADMINISTRATIVE APPOINTMENTS

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

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#### PUBLICATIONS

- **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., Bereiknyei 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. 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

- **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
- **Incidental Murmur in a Preadolescent Boy** *JAMA CARDIOLOGY*  
Lam, J. 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. 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. L., Strahle, J. M.  
2022; 98: 1-5
- **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. 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. 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. 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. E., Bauer, D. F., Bethel-Anderson, T., Brockmeyer, D. L., Chern, J. J., Couture, D. E., Daniels, et al  
2021; 27 (4): 459-468
- **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
- **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. L., Muraszko, K. M., Maher, C. O.  
2020; 87 (1): 45-52
- **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
- **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. 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
- **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
- **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. 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
- **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.  
2020: 1-7
- **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-+
- **Development of Common Data Elements for Use in Chiari Malformation Type I Clinical Research: An NIH/NINDS Project** *NEUROSURGERY*  
Luciano, M. G., Batzdorf, U., Kula, R. W., Rocque, B. G., Maher, C. O., Heiss, J., Martin, B. A., Bolognese, P. A., Ashley-Koch, A., Limbrick, D., Poppe, D. J., Esposito, K. M., Odenkirchen, et al  
2019; 85 (6): 854-859
- **Arachnoid cyst prevalence** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Maher, C. O.  
2019; 24 (6): 736-737
- **USE OF A NOVEL, HAND-HELD, ELECTRONIC DNA ANALYSIS PLATFORM TO QUANTIFY MULTI-GENE MOLECULAR RESPONSE IN CSF OF PATIENTS WITH HIGH-GRADE GLIOMA**  
Bruzek, A., Tunkle, L., Babila, C., Muruganand, A., Stallard, S., Thamilselvan, V., Qin, T., Wolfe, I., Mody, R., Robertson, P., Maher, C., Muraszko, K., Garton, et al  
OXFORD UNIV PRESS INC.2019: 188-189
- **Intraoperative Phase Contrast MRI Analysis of Cerebrospinal Fluid Velocities During Posterior Fossa Decompression for Chiari I Malformation** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Delavari, N., Wang, A. C., Bapuraj, J., Londy, F., Muraszko, K. M., Garton, H. L., Maher, C. O.  
2020; 51 (5): 1463-1470
- **Morphometric changes at the craniocervical junction during childhood** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Bapuraj, J., Bruzek, A. K., Tarpeh, J. K., Pelissier, L., Garton, H. L., Anderson, R. E., Nan, B., Ma, T., Maher, C. O.  
2019; 24 (3): 227-235
- **Postgraduate publishing output in pediatric neurosurgery: correlation with fellowship site and individual scholars** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Ajmera, S., Lee, R. P., Schultz, A., Hersch, D. S., Lepard, J., Xu, R., Saad, H., Akinduro, O., Justo, M., Fraser, B. D., Motiwala, M., Dave, P., Jimenez, et al  
2019; 24 (3): 343-351

- **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
- **A Large Database Analysis of Rates of Aneurysm Screening, Elective Treatment, and Subarachnoid Hemorrhage in Patients With Polycystic Kidney Disease** *NEUROSURGERY*  
Wilkinson, D., Burke, J. F., Nadel, J. L., Maher, C. O., Chaudhary, N., Gemmete, J. J., Heung, M., Thompson, B., Pandey, A. S.  
2019; 85 (2): E266-E274
- **Development of bilateral dural arteriovenous fistulae following pial synangiosis for moyamoya syndrome: case report** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Koduri, S., Wilkinson, D., Griaudzė, J. M., Gemmete, J. J., Maher, C. O.  
2019; 24 (1): 9-13
- **RAPID, ULTRA-DEEP SEQUENCING OF PEDIATRIC DIPG FROM CEREBROSPINAL FLUID USING A NOVEL HAND-HELD ELECTRONIC DNA ANALYSIS PLATFORM**  
Bruzek, A. K., Tunkle, L., Stallard, S., Thamilselvan, V., Qin, T., Wolfe, I., Mody, R., Muraszko, K. L., Robertson, P. L., Maher, C. O., Garton, H. L., Koschmann, C.  
OXFORD UNIV PRESS INC.2019: 69
- **Recent trends in North American pediatric neurosurgical fellowship training** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Nadel, J. L., Scott, R., Durham, S. R., Maher, C. O.  
2019; 23 (4): 517-522
- **Screening and surgery for foramen magnum stenosis in children with achondroplasia: a large, national database analysis** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Nadel, J. L., Wilkinson, D., Garton, H. L., Muraszko, K. M., Maher, C. O.  
2019; 23 (3): 374-380
- **The Preventable Shunt Revision Rate: A Multicenter Evaluation** *NEUROSURGERY*  
Dave, P., Venable, G. T., Jones, T. L., Khan, N. R., Albert, G. W., Chern, J. J., Wheelus, J. L., Governale, L. S., Huntoon, K. M., Maher, C. O., Bruzek, A. K., Mangano, F. T., Mehta, et al  
2019; 84 (3): 788-797
- **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
- **MULTICENTER, PROSPECTIVE VALIDATION OF AUTOMATED INTRAOPERATIVE NEUROPATHOLOGY USING STIMULATED RAMAN HISTOLOGY AND CONVOLUTIONAL NEURAL NETWORKS**  
Hollon, T., Pandian, B., Heth, J., Sagher, O., Maher, C., Sullivan, S., Garton, H., Thompson, G., Save, A., Marie, T., Boyett, D., Petridis, P., McKhann, et al  
OXFORD UNIV PRESS INC.2018: 183
- **Clinically Integrated Sequencing Alters Therapy in Children and Young Adults With High-Risk Glial Brain Tumors** *Harrisowmiya JCO PRECISION ONCOLOGY*  
Koschmann, C., Wu, Y., Kumar-Sinha, C., Lonigro, R., Vats, P., Kasaian, K., Cieslik, M., Cao, X., Anderson, B., Frank, K., Zhao, L., Prensner, J. R., Zureick, et al  
2018; 2: 1-34
- **A Retrospective 2D Morphometric Analysis of Adult Female Chiari Type I Patients with Commonly Reported and Related Conditions** *FRONTIERS IN NEUROANATOMY*  
Eppelheimer, M. S., Houston, J. R., Bapuraj, J. R., Labuda, R., Loth, D. M., Braun, A. M., Allen, N. J., Pahlavian, S., Biswas, D., Urbizu, A., Martin, B. A., Maher, C. O., Allen, et al  
2018; 12: 2
- **Rapid Intraoperative Diagnosis of Pediatric Brain Tumors Using Stimulated Raman Histology** *CANCER RESEARCH*  
Hollon, T. C., Lewis, S., Pandian, B., Niknafs, Y. S., Garrard, M. R., Garton, H., Maher, C. O., McFadden, K., Snuderl, M., Lieberman, A. P., Muraszko, K., Camelo-Piragua, S., Orringer, et al

2018; 78 (1): 278-289

- **Morphometric and volumetric comparison of 102 children with symptomatic and asymptomatic Chiari malformation Type I** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Khalsa, S. S., Geh, N., Martin, B. A., Allen, P. A., Strahle, J., Loth, F., Habtzghi, D., Serrano, A., McQuaide, D., Garton, H. L., Muraszko, K. M., Maher, C. O.  
2018; 21 (1): 65-71
- **Early Delivery of Sacrococcygeal Teratoma with Intrapinal Extension** *FETAL DIAGNOSIS AND THERAPY*  
Perrone, E. E., Jarboe, M. D., Maher, C. O., Berman, D. R., Ladino-Torres, M., Kreutzman, J., Treadwell, M. C., Mychaliska, G. B.  
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