

Daniel C Bowers MD

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Daniel Charles Bowers, M.D.

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Education:

1985 – 1989 B.S. (Magna cum Laude), Texas A&M University, College Station, Texas
1989 – 1993 M.D., UT Southwestern Medical School, Dallas, Texas

Post Graduate Training:

1993 – 1996 Residency, General Pediatrics
UT Southwestern Medical School at Dallas
1996 – 1999 Fellow, Pediatric Hematology and Oncology
The Johns Hopkins University School of Medicine
1998 Summer Course in Epidemiology
School of Hygiene and Public Health, Johns Hopkins University
2000 Medical Biostatistics, Department of Academic Computing
UT Southwestern Medical School at Dallas

Academic Appointments:

1999 - 2006 Assistant Professor, Department of Pediatrics
UT Southwestern Medical School at Dallas
2007 - 2015 Associate Professor, Department of Pediatrics
UT Southwestern Medical School at Dallas
2015 – present Professor, Department of Pediatrics
UT Southwestern Medical School at Dallas

Hospital Staff Appointments:

1999 – present Active Medical Staff
Children's Health System of Texas, Dallas, TX
1999 – present Active Medical Staff
Parkland Health and Hospital System, Dallas, TX
2007 – present Active Medical Staff
UT Southwestern University Hospital

Licensure and Certifications:

1994 – present	Texas State Board of Medical Examiners Medical License J6344
1994 – present	Drug Enforcement Administration Scheduled Drug Permit, Number: BB4611201
1994 – 1996, 1999 – present	Department of Public Safety, State of Texas Texas Controlled Substances Registration, Number: 50110953
1996 – 2003	American Board of Pediatrics
2002 – present	American Board of Pediatrics, Subsection in Hematology-Oncology
1996 – 1999	Medical License, State of Maryland
September 27, 2000	Human Subject Protection Training, Office for Human Research Protections, United States Department of Health and Human Services
July 31, 2001	Good Clinical Practice Training, Office for Human Research Protections, United States Department of Health and Human Services
November 2009	National Cancer Institute, Cancer Therapy Evaluation Program Pharmaceutical Management Branch Investigator Registration Number: 43077.

Professional Activities:

1998 – 1999	Director, Pediatric Hematology and Oncology Journal Club Johns Hopkins University School of Medicine
1998	Medical Director; Camp Sunrise; Weeklong Camp for Children with Cancer; American Cancer Society, Maryland Division
1999 – present	Medical Director, Pediatric Neuro-Oncology UT Southwestern Medical Center at Dallas / Children’s Medical Center Dallas
1999 – present	Children’s Oncology Group – Full Member <ul style="list-style-type: none">• Principal Investigator, ACNS1931: A Phase 3 Study of Selumetinib or Selumetinib in Combination with Vinblastine for non-NF1, non-TSC Patients with Recurrent or Progressive Low-Grade Gliomas lacking BRAFV600E or IDH1 Mutations• Co-Investigator, ACCL0922: A Phase II Placebo-Controlled Trial of Modafinil to Improve Neurocognitive Deficits in Children Treated for a Primary Brain Tumor

	<ul style="list-style-type: none"> • Vice-Study Chair, ACNS1022: A Phase II Trial of Lenalidomide in Pediatric Patients with Recurrent, Refractory or Progressive Low-Grade CNS Gliomas • Late Effects Follow-Up Committee Neurology Task Force Co-Chair, 2009 – 2019 • Low-Grade Astrocytoma Session Leader, 2010 - present
2000, 2003 – 2008, 2012	Medical Director, Camp Feliz for Children with Brain Tumors
2001 – present	UTSW Institutional Review Board, Full Member
2016 – present	UTSW Institutional Review Board, Vice Chair
2001 – 2007	Physician Peer Review Committee, Member, Children’s Medical Center - Dallas
2003 – 2006	American Board of Pediatrics Subsection on Pediatric Hematology and Oncology Invited to contribute questions for Certification Examination
2007 – present	Medical Director, <u>A</u> fter the <u>C</u> ancer <u>E</u> xperience (“ACE”) Program, the long-term follow-up program of childhood cancer survivors at UT Southwestern Medical Center at Dallas / Children’s Medical Center Dallas
2007 – present	Institutional Principal Investigator: Childhood Cancer Survivor Study, NIH/NCI: U24 CA055727-15
2007 – present	Clayton Dabney Foundation, Member, Board of Directors
2011	Collaborative Ependymoma Research Network (CERN); Member, Pediatric Data Safety Monitoring Board
2011 – present	Cancer Prevention and Research Institute of Texas Advisory Committee on Childhood Cancers Member, CTNeT Investigators Meeting Childhood Think Tank

Honors and Awards:

1989	Magna cum Laude, Bachelors of Science, Biology Texas A&M University, College Station, Texas
1989	Outstanding Graduate in the College of Science Texas A&M University, College Station, Texas
2003, 2004, 2007, 2010, 2011, 2013, 2017, 2018, 2021	Selected to the “Best Pediatricians in Dallas”, D Magazine
2006	Elected to the Society for Pediatric Research
2006	Selected for Marquis Who’s Who in America®
2008	Recognized by: Gralow J, Ozols RF, Bajorin DF, et al. Clinical Cancer Advances 2007: Major Research Advances in Cancer Treatment, Prevention, and Screening—A Report From the American Society of Clinical Oncology. <i>Journal of Clinical Oncology</i> 2008;26:313-25

2013

CureSearch for Children's Cancer. Favorite Oncology Professionals:
<http://www.curesearch.org/Favorite-Oncology-Professionals-Announced/>

Ad Hoc Reviewer for Journals and Scientific Program Committees:

2000	<i>International Journal of Cancer</i>
2004	11 th International Symposium on Pediatric Neuro-Oncology
2004	<i>Neurology India</i>
2004 – 2006, 2014, 2016, 2020	<i>Journal of Pediatric Hematology/Oncology</i>
2004, 2007	<i>Expert Review of Neurotherapeutics</i>
2005	<i>BMC Cancer</i>
2005	<i>Pediatric Drugs</i>
2005, 2011, 2012, 2015 - 2017	<i>Journal of Clinical Oncology</i>
2019, 2023	
2005, 2006, 2008, 2012, 2014	<i>Clinical Neurology and Neurosurgery</i>
2005, 2009 – 2014	<i>Pediatric Nephrology</i>
2006	<i>Technology in Cancer Research & Treatment</i>
2006, 2007	<i>Pediatric Infectious Disease Journal</i>
2007	<i>Annals of Oncology</i>
2008	<i>Archives of Internal Medicine</i>
2009	<i>Circulation</i>
2009	<i>Human Reproduction</i>
2009	<i>Nature Reviews – Clinical Oncology</i>
2009 – 2013, 2015, 2016, 2018, 2019, 2021	<i>Pediatric Blood and Cancer</i>
2010, 2011, 2013, 2014, 2022	<i>Cancer</i>
2011	<i>Expert Opinion on Pharmacotherapy</i>
2011	<i>Journal of Cancer Survivorship: Research and Practice</i>
2012	15 th International Symposium on Pediatric Neuro-Oncology
2012	Children with Cancer UK / Great Ormond Street Hospital Charity Grant Review Committee
2012	<i>Stroke</i>
2012, 2013	<i>CNS Oncology</i>
2013, 2015	<i>International Journal of Radiation Oncology, Biology, Physics</i>
2013	Reviewer, NIH Peer Review of RFA-CA-13-502, Limited Competition: Pediatric Brain Tumor Consortium (UM1)
2014	Radiation and Environmental Biophysics
2014	16 th International Symposium on Pediatric Neuro-Oncology
2015	<i>Cancer Medicine</i>
2016, 2018	<i>Neuro-Oncology</i>
2016	<i>Acta Oncologica</i>
2016	<i>Systematic Reviews</i>
2017	<i>Journal of Oncology</i>
2017	<i>European Journal of Paediatric Neurology</i>
2018	<i>Pharmacogenomics</i>
2019, 2021	<i>Scientific Reports (Nature)</i>
2019, 2021	<i>Child Neuropsychology</i>
2020, 2022	<i>Journal of Neuro-Oncology</i>
2021	<i>Lancet – Regional Health</i>
2021	<i>European Journal of Cancer</i>
2022	<i>Current Neuropharmacology</i>
2023	Society for Neuro-Oncology Symposium on Pediatric Neuro-
Oncology	

Professional Society Memberships:

1999 – present	American Society of Clinical Oncology
2000 – present	Society for Neuro-Oncology
2001 – present	American Society of Pediatric Hematology/Oncology
2006 – present	Society for Pediatric Research

Peer-Reviewed Publications:

1. **Bowers DC**, Sicherer SH, Lederman HM, Winkelstein JA, Chen AR. Immune constitution of complete DiGeorge anomaly by transplantation of unmobilized blood mononuclear cells. *The Lancet*. 352:1983-4. 1998. PMID: 9872250 (Times Cited = 18; Web of Science, September 2013)
2. Matsson H. Klar J. Draptchinskaia N. Gustavsson P. Carlsson B. **Bowers D**. de Bont E. Dahl N. Truncating ribosomal protein S19 mutations and variable clinical expression in Diamond-Blackfan Anemia. *Human Genetics*. 105(5):496-500, 1999. PMID: 10598818 (Times Cited: 30)
3. Galloway K, Staats PS, **Bowers DC**. Intrathecal analgesia via an implanted infusion pump in a child with cancer. *Medical and Pediatric Oncology*. 34:265-267, 2000. PMID: 10742065 (Times Cited: 5)
4. **Bowers DC**, Georgiades C, Aronson L, Burger PC, Melhem ER, Cohen KJ. Tectal gliomas: conservative management of an indolent lesion in pediatric patients. *Journal of Pediatric Neurosurgery*. 32:24-29, 2000. PMID: 10765135 (Times Cited: 42)
5. **Bowers DC**, Fan S, Williams JA, Rosen EM, Laterra J. Hepatocyte growth factor activates the Akt pathway and inhibits chemotherapy and radiation induced cell death in human glioma cells. *Cancer Research*. 60(15):4277-4283, 2000. PMID: 10945642 (Times Cited: 117)
6. **Bowers DC**, Krause TP, Aronson LJ, Barzi A, Burger PC, Carson BS, Weingart JD, Wharam MD, Melhem ER, Cohen KJ. Second surgery for recurrent pilocytic astrocytoma in children. *Pediatric Neurosurgery*. 34(5):229-34. 2001. PMID: 11423771 (Times Cited: 25)
7. Loeb DM, **Bowers DC**, Civin CI, Friedman AD. Intensive timed sequential remission induction chemotherapy with high-dose cytosine arabinoside for childhood acute myeloid leukemia. *Medical and Pediatric Oncology*, 37:365-71 2001. PMID: 11423771 (Times Cited: 10)
8. Perry A. Giannini C. Raghavan R. Scheithauer BW. Banerjee R. Margraf L. **Bowers DC**. Lytle RA. Newsham IF. Gutmann DH. Aggressive phenotypic and genotypic features in pediatric and NF2-associated meningiomas: A clinicopathologic study of 53 cases. *Journal of Neuropathology & Experimental Neurology*, 60(10):994-1003. 2001. PMID: 11589430 (Times Cited: 70)

9. **Bowers DC**, Mulne AF, Reisch JS, Elterman RD, Munoz L, Booth T, Shapiro K, Doxey DL. Non-operative stokes in children with central nervous system tumors. *Cancer*, 94:1094–101. 2002. PMID: 11920480 (Times Cited: 23)
10. **Bowers DC**, Mulne AF, Weprin B, Bruce DA, Shapiro K, Margraf LR. Prognostic factors in children and adolescents with low-grade oligodendrogliomas. *Pediatric Neurosurgery* 37:2:57-63. 2002. PMID: 12145513 (Times Cited: 6)
11. Crews KR, Stewart CF, Jones-Wallace D, Thompson SJ, Houghton PJ, Heideman RL, Fouladi M, **Bowers DC**, Chintagumpala MM, Gajjar AJ. Altered irinotecan pharmacokinetics in pediatric brain tumor patients receiving enzyme-inducing anticonvulsant therapy. *Clinical Cancer Research* 8(7):2202-2209. 2002. PMID: 12114421 (Times Cited: 34)
12. Gajjar A, Chintagumpala MM, **Bowers DC**, Jones-Wallace D, Stewart CF, Crews CR. Effect of inpatient dose escalation of Irinotecan on its pharmacokinetics in pediatric high-grade glioma patients receiving enzyme inducing anticonvulsant therapy. *Cancer*. 97(9 Suppl):2374-80. 2003. PMID: 12712459 (Times Cited: 6)
13. Ragavan R, Balani J, Perry A, Margraf L, Vono MB, Cai DX, Wyatt RE, Rushing EJ, **Bowers DC**, Hynan LS, White III CL. Pediatric oligodendrogliomas: a study of molecular alterations on 1p and 19q using fluorescence in-situ hybridization. *Journal of Neuropathology and Experimental Neurology*. 62(5): 530-537. 2003. PMID: 12769192 (Times Cited: 50)
14. **Bowers DC**, Gargan L, Kapur P, Reisch JS, Mulne AF, Shapiro KN, Elterman RD, Winick NJ, Margraf LR. Study of the MIB-1 Labeling Index as a Predictor of Tumor Progression in Pilocytic Astrocytomas in Children and Adolescents. *Journal of Clinical Oncology* 21:2968-2973. 2003. PMID: 12885817 (Times Cited: 46)
15. **Bowers DC**, Aquino VM, Leavey PJ, Bash RO, Journeycake JM, Tomlinson G, Mulne AF, Haynes HJ, Winick NJ. Phase I study of oral cyclophosphamide and oral topotecan for children with recurrent or refractory solid tumors. *Pediatric Blood and Cancer* 42:93–98. 2004. PMID: 14752800 (Times Cited: 10)
16. Giller CA, Harris-Henderson K, Gilio JP, Delp J, Berger B, Mulne A, Gall K, Shapiro K, Sklar F, Swift D, Sacco D, **Bowers D**. Feasibility of radiosurgery for malignant brain tumors in infants using image-guided robotic radiosurgery. *Neurosurgery* 55:916 – 925. 2004. PMID: 15458600 (Times Cited: 0)
17. Morgan M, **Bowers DC**, Khan DA, Gruchalla RS. Safety and efficacy of repeated monthly carboplatin desensitization. *Journal of Allergy and Clinical Immunology* 114: 974 – 975. 2004. PMID: 15480344 (Times Cited: 11)
18. Maddrey AM, Bergeron JA, Lombardo ER, McDonald NK, **Bowers DC**. Neuropsychological performance and quality of life of 10 year survivors of childhood medulloblastoma. *Journal of Neuro-Oncology*. 72: 245–253, 2005. PMID: 15937648 (Times Cited: 65)

19. Giller CA, Berger BD, Pistenmaa DA, Sklar F, Weprin B, Shapiro K, Winick N, Mulne AF, Delp JL, Gilio JP, Gall KP, Dicke KA, Swift D, Sacco D, Henderson K, **Bowers D**. Robotically guided radiosurgery for children. *Pediatric Blood and Cancer*. 2005; 45: 304 – 310. PMID: 15558704 (Times Cited: 0)
20. Broniscer A, Iacono L, Chintagumpala M, Wallace D, **Bowers DC**, Fouladi M, Stewart C, Gajjar A. Role of temozolomide after radiotherapy for newly diagnosed diffuse brainstem glioma in children: results of a multi-institutional study (SJHG-98). *Cancer* 103:133 – 139. 2005. PMID: 15565574 (Times Cited: 49)
21. **Bowers DC**. McNeil DE. Liu Y. Yasui Y. Stovall M. Gurney JG. Hudson MM. Donaldson SS. Packer RJ. Mitby PA. Kasper CE. Robison LL. Oeffinger KC. Stroke as a Late Treatment Effect of Hodgkin's Disease: A Report from the Childhood Cancer Survivor Study. *Journal of Clinical Oncology* 23:6508 – 6515. 2005. PMID: 16170160 (Times Cited: 78)
22. Broniscer A, Chintagumpala M, Fouladi M, Krasin MJ, Kocak M, **Bowers DC**, Iacono LC, Merchant TE, Stewart CF, Houghton PJ, Kun LE, Ledet D, Gajjar A. Temozolomide after Radiotherapy for Newly Diagnosed High-grade Glioma and Unfavorable Low-grade Glioma in Children. *Journal of Neuro-Oncology*. 76:313-319, 2006. PMID: 16200343 (Times Cited: 28)
23. Swinney RM, **Bowers DC**, Chen TTL, Tomlinson GE. Rhabdoid Tumors in a Shared Parental Environment. *Pediatric Blood and Cancer*, 47:343 – 4, 2006. PMID: 16609948 (Times Cited: 1)
24. **Bowers DC**, Liu Y, Leisenring W, McNeil E, Stovall M, Gurney JG, Robison LL, Packer RJ, Oeffinger KC. Late-occurring stroke among long-term survivors of childhood leukemia and brain tumors: a report from the Childhood Cancer Survivor Study. *Journal of Clinical Oncology* 24:5277-82, 2006. PMID: 17088567 (Times Cited: 114)
25. **Bowers DC**, Gargan L, Weprin BE, Mulne AF, Elterman RD, Munoz L, Giller CA, Winick NJ. The Impact of Site of Tumor Recurrence upon Survival for Children with Recurrent or Progressive Medulloblastoma. *Journal of Neurosurgery (1 Supplement Pediatrics)* 107:5 – 10, 2007. PMID: 17644914. (Times Cited: 10)
26. Becker AM, **Bowers DC**, Margraf LR, Emmons J, Baum, M. Primary renal lymphoma presenting with hypertension. *Pediatric Blood and Cancer*. 2007; 48:711-713. PMID: 16155923 (Times Cited: 0)
27. Koral K, Gargan L, **Bowers DC**, Gimi B, Timmons CF, Weprin B, Rollins NK, Imaging Characteristics of Atypical Teratoid / Rhabdoid Tumor Compared with Medulloblastoma, *American Journal of Roentgenology* 2008; 190:809–814. PMID: 18287456 (Times Cited: 21)
28. Chi SN, Zimmerman MA, Yao X, Fletcher W, Cohen K, Burger P, Biegel J, Rorke-Adams LF, Fisher M, Janss A, Mazewski C, Goldman S, Manley P, **Bowers DC**, Bendel A, Rubin J, Turner CD, Marcus K, Goumnerova L, Roberts C, Ullrich N, Chordas C, Kieran MW. A Single-Arm, Open Label Multi-Institutional Phase II Study of Multi-Agent Intrathecal and Systemic Chemotherapy with Radiation Therapy for Children with Newly Diagnosed Central

- Nervous System Atypical Teratoid/Rhabdoid Tumor *Journal of Clinical Oncology*. 2009 20;27(3):385-9. PMID: 19064966 (Times Cited: 63)
29. El-Khashab MA, Koral K, **Bowers DC**, Johnson-Welch S, Swift D, Nejat F. Intermediate grade meningeal melanocytoma of cervical spine. *Childs Nervous System*. 2009; 25:407-10. PMID: 19139906 (Times Cited: 7)
 30. El-Khashab MA, Gargan L, Margraf L, Koral K, Nejat F, Weprin B, Swift D. **Bowers, DC**. Predictors of Tumor Progression among Children with Gangliogliomas. *Journal of Neurosurgery – Pediatrics* 2009; 3:461-466. PMID: 19485728 (Times Cited: 9)
 31. **Bowers DC**, Adhikari S, El-Khashab YM, Gargan L, Oeffinger KC, Survey of Long-Term Follow-Up Programs in the United States for Survivors of Childhood Brain Tumors. *Pediatric Blood and Cancer* 2009; 53(7):1295-301. PMID: 19688835 (Times Cited: 5)
 32. Goldsby RE, Liu Q, Nathan PC, **Bowers DC**, Yeaton-Massey A, Raber S, Hill D, Robison LL, Yasui Y, Zeltzer L, Armstrong G, Packer RJ Long-term Neurologic Sequelae in Adult Survivors of Childhood Acute Lymphoblastic Leukemia: Results from the Childhood Cancer Survivor Study (CCSS). *Journal of Clinical Oncology* 2010; 28(2):324-31. PMID: 19917844 (Times Cited: 16)
 33. Sparagana SP, Wilkes DC, Thompson CE, **Bowers DC**. Optic Nerve Tumor in Tuberous Sclerosis Complex is Not Responsive to Sirolimus. *Pediatric Neurology* 2010; 42(6): 443 – 446. PMID: 20472200 (Times Cited: 3)
 34. **Bowers DC**, Kucejova B, Margraf L, Gargan L, Brugarolas J, Case Report: mTORC1 Activation in Childhood Ependymoma and Response to Sirolimus. *Journal of Neuro-Oncology*. 2011 Jul;103(3):797-801. PMID: 21076853 (Times Cited: 2)
 35. Margraf LR, Gargan L, Butt Y, Raghunathan N, **Bowers DC**. Proliferative and Metabolic Markers in Incompletely Excised Pediatric Pilocytic Astrocytomas –An Assessment of Three New Variables in Predicting Clinical Outcome. *Neuro-Oncology*. 2011; 13(7):767-74. PMID: 21653594 (Times Cited: 5)
 36. Koral K, Roy D, Timmons CF, Gargan L, **Bowers DC**. Low-grade Bone Lesions in Survivors of Childhood Medulloblastoma/Primitive Neuro-Ectodermal Tumor *Academic Radiology* 2012; 19(1): 35- 39. PMID: 22054800 (Times Cited: 0)
 37. Gimi B, Cederberg K, Derinkuyu B, Gargan L, Koral KM, **Bowers DC**, Koral K. Utility of Apparent Diffusion Coefficient Ratios in Distinguishing Common Pediatric Cerebellar Tumors. *Academic Radiology*, 2012;19(7):794-800. PMID: 22513110 (Times Cited: 2)
 38. Aquino VM, Cost C, Gomez A, **Bowers DC**, Ramillo O, Ahmad N, Winick N, Leavey P, The Diagnostic Value of Interleukin-5 and Monocyte Chemotactic Protein in Risk Stratification of Febrile Neutropenic Pediatric Oncology Patients. *Journal of Pediatric Hematology-Oncology*, 2012; 34:e241-5. PMID: 22584776 (Times Cited: 0)
 39. Koral K, Koral KM, **Bowers DC**, Timmerman RD. Imaging of Pediatric Cerebellar Tumors. *Journal of Pediatric Neuroradiology* 2012 2: 81 – 94. (Times Cited: 0)

40. **Bowers DC**, Griffith T, Gargan L, Cochran C, Kleiber B, Foxwell A, Farrow-Gillespie A, Orino A, Germann JN, Back Pain Among Long-Term Survivors of Childhood Leukemia. *Journal of Pediatric Hematology-Oncology*. 2012; 34:624-9. PMID: 23108003 (Times Cited: 0)
41. Robertson K, Yang, F-C, **Bowers DC**, Ho C, Hutchins G, Nalepa G, Croop J, Vik T, Denne S, Parada L, Hingtgen C, Walsh L, Yu M, Pradhan K, Edwards-Brown M, Cohen M, Fletcher J, Travers J, Staser K, Lee M, Sherman M, Davis C, Miller L, Ingram D, Clapp D. **Phase 2** Pilot Study of Imatinib in Neurofibromatosis (NF1) Patients with Plexiform Neurofibromas. *Lancet Oncology*. 2012; 13:1218-24. PMID: 23099009 (Times Cited: 2)
42. Thienprayoon R, Heym KM, Pelfrey L, **Bowers DC**. Accidental Overdose of Intrathecal Cytarabine in Childhood. *Annals of Pharmacotherapy*, 2013; 47 e24. PMID: 23606548 (Times Cited: 0)
43. Koral K, Gimi B, Gargan L, **Bowers DC**, Mathis D, Margraf, L. Correlation between Cell Densities and Apparent Diffusion Coefficient Metrics of Common Pediatric Cerebellar Tumors. *Radiology*, 2013; 268(2): 532-537. PMID: 23564715 (Times Cited: 1)
44. Mueller S, Fullerton HJ, Stratton K, Leisenring W, Weathers RE, Stovall M, Armstrong GT, Goldsby RE, Packer RJ, Sklar CA, **Bowers DC**, Robison LL, Krull KR, Radiation, Atherosclerotic Risk Factors and Stroke Risk in Young Adult Survivors of Pediatric Cancer: Report from the Childhood Cancer Survivor Study, *International Journal of Radiation Oncology, Biology, Physics*, 2013; 86:649-55. PMID: 23680033 (Times Cited: 0)
45. Ramkissoon LA, Horowitz PM, Craig JM, Ramkissoon SH, Rich BE, Schumacher SE, McKenna A, Lawrence M, Bergthold G, Brastianos PL, Tabak B, Ducar MD, Van Hummelen P, MacConaill LE, Pouissant-Young T, Cho Y-J, Taha H, Mahmoud M, **Bowers DC**, Margraf L, Tabori U, Hawkins C, Packer RJ, Ashley Hill D, Pomeroy SL, Eberhart CG, Dunn IF, Goumnerova L, Getz G, Chan JA, Santagata S, Hahn WC, Stiles CD, Ligon AH, Kieran MW, Beroukhim R, Ligon KL. Genomic Analysis of Diffuse Pediatric Low-Grade Gliomas Identifies Recurrent, Oncogenic MYBL1-Truncating Rearrangements. *Proceedings of the National Academy of Sciences of the United States of America*, 2013, 110:8188-93. PMID: 23633565 (Times Cited: 1)
46. **Bowers DC**, Nathan PC, Constine L, Woodman C, Bhatia S, Keller K, Bashore L. Subsequent Neoplasms of the Central Nervous System among Survivors of Childhood Cancer: A Systematic Review: A Report from the Second Malignant Neoplasm Task Force of the Survivorship and Outcomes Committee of the Children's Oncology Group. *Lancet Oncology*, 2013; 14:e321–28. PMID: 23816298 (Times Cited: 0)
47. Koral K, Mathis D, Gimi B, Gargan L, Weprin B, **Bowers DC**, Margraf L. Common Pediatric Cerebellar Tumors: Correlation between Cell Densities and Apparent Diffusion Coefficient Metrics. *Radiology* 2013; 268(2):532-537 PMID: 23564715 (Times Cited: 1)
48. Fontebasso AM, Papillon-Cavanagh S, Schwartzentruber J, Nikbakht H, Gerges N, Fiset PO, Bechet D, Faury D, De Jay N, Ramkissoon LA, Corcoran A, Jones DT, Sturm D, Johann P, Tomita T, Goldman S, Nagib M, Bendel A, Goumnerova L, **Bowers DC**, Leonard JR, Rubin JB, Alden T, Browd S, Geyer JR, Leary S, Jallo G, Cohen K, Gupta N, Prados MD, Carret

- AS, Ellezam B, Crevier L, Klekner A, Bogнар L, Hauser P, Garami M, Myseros J, Dong Z, Siegel PM, Malkin H, Ligon AH, Albrecht S, Pfister SM, Ligon KL, Majewski J, Jabado N, Kieran MW. Recurrent somatic mutations in ACVR1 in pediatric midline high-grade astrocytoma. *Nature Genetics*. 2014; 46(5): 462-6. PMID: 24705250 (Times Cited: 0)
49. Moore W, Mathis D, Gargan L, , **Bowers DC**, Klesse L Margraf L, Koral K. Pleomorphic Xanthoastrocytoma of Childhood: MRI and Diffusion MRI Features. *American Journal of Neuroradiology*, 2014; 35:2192-2196. PMID: 24994821
50. Koral K, Alford R, Choudhury N, Mossa-Basha M, Gargan L, Gimi B, Gao A, Zhang S, **Bowers DC**, Koral KM, Izbudak I, Applicability of Apparent Diffusion Coefficient Ratios in Preoperative Diagnosis of Common Pediatric Cerebellar Tumors across Two Institutions, *Neuroradiology*, 2014; 56(9):781-8. PMID: 24974083
51. Holland AA, Hughes C, Harder L, Silver C, **Bowers DC**, Stavinoha P. Effect of Motivation on Academic Fluency Performance in Survivors of Pediatric Medulloblastoma. *Child Neuropsychology - A Journal on Normal and Abnormal Development in Childhood and Adolescence*. 2015; 31:1-17. PMID: 25825959
52. Jakacki RI, Foley MA, Horan J, Wang J, Kieran MW, **Bowers DC**, Bouffet E, Zacharoulis S, Gill SC. Single-agent Erlotinib Versus Oral Etoposide in Patients with Recurrent or Refractory Pediatric Ependymoma: a Randomized Open-label Study. *Accepted for publication, Journal of Neuro-Oncology*, 2016; 129: 131-138. PMID: 27287856.
53. Alford R, Gargan L, **Bowers DC**, Klesse K, Weprin B, Koral K. Postoperative Surveillance of Cerebellar Pilocytic Astrocytoma. *Journal of Neuro-Oncology*, 2016; 130:149-154: PMID: 27502785.
54. Bandopadhyay P, Ramkissoon LA, Jain P, Bergthold G, Wala J, Zeid R, Schumacher SE, Urbanski L, O'Rourke R, Gibson WJ, Pelton K, Ramkissoon SH, Han HJ, Zhu Y, Choudhari N, Silva A, Boucher K, Henn RE, Kang YJ, Knoff D, Paoletta BR, Gladden-Young A, Varlet P, Pages M, Horowitz PM, Federation A, Malkin H, Tracy AA, Seepo S, Ducar M, Van Hummelen P, Santi M, Buccoliero AM, Scagnet M, **Bowers DC**, Giannini C, Puget S, Hawkins C, Tabori U, Klekner A, Bogнар L, Burger PC, Eberhart C, Rodriguez FJ, Hill DA, Mueller S, Haas-Kogan DA, Phillips JJ, Santagata S, Stiles CD, Bradner JE, Jabado N, Goren A, Grill J, Ligon AH, Goumnerova L, Waanders AJ, Storm PB, Kieran MW, Ligon KL, Beroukhim R, Resnick AC. MYB-QKI rearrangements in angiocentric glioma drive tumorigenicity through a tripartite mechanism. *Nature Genetics*. 2016; 48:273-82. PMID: 26829751
55. **Bowers DC**, Moskowitz CS, Chou J, Mazewski CM, Neglia JP, Armstrong GT, Leisenring W, Robison LL, Oeffinger KC. Morbidity and Mortality Associated with Meningioma Following Cranial Radiotherapy: A Report from The Childhood Cancer Survivor Study *Journal of Clinical Oncology*, 2017; 35:1570-1576. PMID: 28339329
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21. Gilger EA and **Bowers DC**. Return of Results for ACNS0221: A Phase II Study of Conformal Radiotherapy in Patients with Low Grade Gliomas. Children's Oncology Group. <https://childrensoncologygroup.org/returnofresults> 2021

Abstracts:

1. **Bowers DC**, Sicherer SH, Lederman HM, Winkelstein JA, and Chen AR. Transplantation of HLA-Identical Sibling Peripheral Blood Mononuclear Cells Improves the Immune Deficiency of Severe DiGeorge Anomaly. Proceedings of the 1997 Annual Meeting of the American Society of Hematology. Abstract #230.
2. **Bowers DC**, Fan S, Rosen EM, and Laterra J. Hepatocyte Growth Factor Inhibits Chemotherapy and Radiation Induced Apoptosis in U373MG Human Glioblastoma Cell Lines. Proceedings of the 1999 American Association for Cancer Research Annual Meeting. Abstract #148.
3. Georgiades C, **Bowers DC**, Cohen KJ, Melhem ER. Tectal Gliomas of Childhood. 1999 Annual Meeting of the American Society of Neuroradiology.
4. **Bowers DC**, Cho S, Higman M, McDonough C, Civin CI, Cohen KJ, Small D, Schwartz CL, and Friedman AD. Feasibility of Timed-Sequential High-Dose Ara-C on Day +14 for Childhood AML. 1999 American Society for Pediatric Hematology/Oncology Annual Meeting.
5. Walter K, Abounader R, **Bowers D**, Fan S, Rosen E, and Laterra J. A Novel U1-Ribozyme Targeting c-Met Inhibits Phosphorylation of AKT and Predisposes to Apoptosis in Gliomas. Proceedings of the American Association for Cancer Research 91st Annual Meeting. 2000.
6. **Bowers DC** and Doxey DL. Non-Perioperative Cerebrovascular Accidents (CVAs) in Children with Central Nervous System (CNS) Tumors. 2000 International Symposium on Pediatric Neuro-Oncology. (Oral Presentation)
7. **Bowers DC**, Krause TP, Barzi A, Burger PC, Wharam MD, Carson BS, Weingart JD, Melhem ER, Aronson LJ, and Cohen KJ. Second Surgery for Recurrent or Progressive Juvenile Pilocytic Astrocytoma. 2000 International Symposium on Pediatric Neuro-Oncology.
8. **Bowers DC**, Georgiades C, Burger PC, Melhem E, Cohen KJ. Tectal Gliomas: Radiographic Progression Does Not Mandate Clinical Intervention. Proceedings of the 2000 Annual Meeting of the American Society for Clinical Oncology. Abstract # 566.
9. Gajjar A, Radomski K, **Bowers D**, Chintagumpala M, Thompson S, Houghton P, Stewart S. Pharmacokinetics of Irinotecan (IRN) and Metabolites in Pediatric High-Grade Glioma Patients with and Without Co-Administration of Enzyme-Inducing Anticonvulsants. Proceedings of the 2000 Annual Meeting of the American Society for Clinical Oncology. Abstract # 626.
10. Bergeron JA, Maddrey AM, McDonald NK, **Bowers DC**, Mulne AF, Doxey DL. Neuropsychological Functioning of >10 Year Survivors of Childhood Medulloblastoma. Proceedings of the 2001 Annual Meeting of the American Society for Clinical Oncology. Abstract #228.
11. Kirstein MN, Gajjar A, **Bowers DC**, Thompson SJ, Nair G, Fouladi M, Heideman RL, Stewart CF. Pharmacodynamics (PD) of Temozolomide (TMZ) and MTIC in Children with

High-Grade Gliomas. Proceedings of the 2001 Annual Meeting of the American Society for Clinical Oncology. Abstract # 467.

12. **Bowers DC**, Shapiro KN, Mulne AF, Reisch JS, Gargan L, Kapur P, Margraf L. Prognostic Factors in Children and Adolescents with Pilocytic Astrocytomas. 2002 International Symposium on Pediatric Neuro-Oncology. London, England.
13. **Bowers DC**, Kapur P, Winick NJ, Margraf LR. MIB-1 labeling index as a predictor of tumor progression in pilocytic astrocytomas in children and adolescents. Proceedings of the 2003 Annual Meeting of the American Society for Clinical Oncology. Abstract #445.
14. **Bowers DC**, McNeil DE, Liu Y, Yasui Y, Stoval M, Gurney JG, Hudson MM, Robison LL, Oeffinger KC, Stroke following therapy for Hodgkin's Disease (HD): A report from the Childhood Cancer Survivor Study (CCSS). Proceedings of the 2004 Annual Meeting of the American Society for Clinical Oncology. Abstract #8523.
15. Girard L, Minna JD, Chen T, Tomlinson G, **Bowers DC**. Gene expression profiling of progressive and stable childhood pilocytic astrocytomas. Journal of Clinical Oncology, Proceedings of the 2004 Annual Meeting of the American Society for Clinical Oncology. Abstract #8546.
16. Giller CA, Berger B, Gilio J, Delp J, Gall K, Weprin B, Bowers D, Feasibility of Radiosurgery for Malignant Brain Tumors Using Robotic Radiosurgery. 2004 International Symposium on Pediatric Neuro-Oncology.
17. Gargan L, Weprin BE, Margraf LR, **Bowers DC**. Predictors of Tumor Progression in Pediatric Gangliogliomas. 2004 International Symposium on Pediatric Neuro-Oncology. (Oral Presentation)
18. Girard L, Chen T, Minna JD, Tomlinson G, **Bowers DC**. Gene Expression Profiling of Progressive and Stable Childhood Pilocytic Astrocytomas. 2004 International Symposium on Pediatric Neuro-Oncology. (Oral Platform Presentation)
19. Giller CA, Berger BD, Pistenmaa DA, Sklar F, Weprin BE, Shapiro K, Winick NJ, Mulne AF, Delp JL, Gilio JP, Gall KP, Dicke KA, Swift D, Sacco D, Henderson K, Bowers DC. Robotically Guided Radiosurgery for Children. 2004 Annual Meeting of the Society for Neuro-Oncology.
20. Gargan L , Mulne A, Elterman RD, Weprin BE, Winick NJ, **Bowers DC**. Survival for children with medulloblastoma following tumor recurrence or progression. Proceedings of the 2005 Annual Meeting of the American Society for Clinical Oncology. Abstract #1556.
21. Aquino VM, Leavey PJ, Hoffman T, **Bowers DC**, Scothorn D, Bash RO, Winick NJ. Availability of Phase I Therapies to Pediatric Oncology Patients with Refractory or Recurrent Malignancies. Proceedings of the 2005 Annual Meeting of the American Society for Clinical Oncology. Abstract # 8531.
22. Leavey PJ, **Bowers DC**, Aquino VM, Bash RO, Tomlinson G, Hofman T, Griener J, Frawley WH, Winick NJ. Pharmacokinetics of fractionated cyclophosphamide (CY) in children with

recurrent malignancies. Proceedings of the 2005 Annual Meeting of the American Society for Clinical Oncology. Abstract # 8533.

23. **Bowers DC**, McNeil DE, Liu Y, Leisenring W, Gurney J, Stovall M, Donaldson SS, Packer RJ, Robison LL, Oeffinger KC. Risk of stroke among > 5 year survivors of childhood leukemia and brain tumors; a report from the Childhood Cancer Survivor Study. Proceedings of the 2005 Annual Meeting of the American Society for Clinical Oncology. Abstract # 8517. (Oral Platform Presentation)
24. **Bowers DC**, McNeil DE, Liu Y, Leisenring W, Gurney J, Stovall M, Donaldson SS, Packer RJ, Robison LL, Oeffinger KC. Risk of stroke among > 5 year survivors of childhood brain tumors; a report from the Childhood Cancer Survivor Study. 12th International Symposium on Pediatric Neuro-Oncology. Nara, Japan. (Oral Platform Presentation), 2006.
25. **Bowers DC**, McNeil DE, Liu Y, Leisenring W, Gurney J, Stovall M, Donaldson SS, Packer RJ, Robison LL, Oeffinger KC. Risk of stroke among > 5 year survivors of childhood leukemia and brain tumors; a report from the Childhood Cancer Survivor Study. Long-Term Complications of Treatment of Children & Adolescents for Cancer. Niagara-on-the-Lake, Ontario. (Oral Platform Presentation), 2006.
26. **Bowers DC**, Gargan L, Kapur P, Weprin BE, Rankin J, Margraf LR. The MIB-1 labeling index as a predictor of tumor progression among incompletely resected pilocytic astrocytomas. 12th International Symposium on Pediatric Neuro-Oncology. Nara, Japan. 2006.
27. **Bowers DC**. Gargan L, Raghunathan N, Margraf LR. Correlation of Immunohistochemistry Studies With Tumor Progression Among Incompletely Resected Pilocytic Astrocytomas. Abstracts for the Twelfth Annual Meeting of the Society for Neuro-Oncology November 15 –18, 2007.
28. Chi S, Fletcher W, Yao X, Cohen K, Fisher M, Biegel J, Janss A, Goldman S, **Bowers D**, Manley P, Masewski C, Bendel A, Rubin J, Turner CD, Roberts C, Marcus K, Goumnerova L, Ullrich N, Chordas C, Zimmerman MA, Kieran MW. Results from a Single-Arm, Multiinstitutional Phase II Study of Multiagent Intrathecal and Systemic Chemotherapy with Age- and Risk-Adapted Radiation Therapy for Children With Newly Diagnosed CNS Atypical Teratoid/Rhabdoid Tumor (DFCI 02-294) Thirteenth International Symposium for Pediatric Neuro-Oncology, Chicago, IL. June 2008.
29. **Bowers DC**, El-Khashab YM, Gargan L, Treatment of Infants with Progressive Hypothalamic Gliomas with “Baby POG” Chemotherapy. Thirteenth International Symposium for Pediatric Neuro-Oncology, Chicago, IL. June 2008.
30. **Bowers DC**, Adhikari S, El-Khashab YM, Gargan L, Oeffinger KC. Survey of Long-Term Follow-Up Programs in the United States for Adult Survivors of Childhood Brain Tumors, Thirteenth International Symposium for Pediatric Neuro-Oncology, Chicago, IL. June 2008.
31. Blair AB, Tarango, T, **Bowers DC**, Leavey P, Journeycake JM. Transfusional Iron Overload in Acute Lymphoblastic Leukemia. 2009 Meeting of the American Society of Pediatric Hematology – Oncology.

32. Koral K, Gimi B, Gargan L, Kerschenovich A, **Bowers DC**, Growth rates of tectal gliomas in children and young adults assessed by serial tumor volume measurements. 32nd Postgraduate Course and 46th Annual Meeting of the European Society of Paediatric Radiology (ESPR). May 31 – June 4, 2009. Abstract 039.
33. Koral K, Derinkuyu B, Koral M, Vaccha B, Gimi B, Gargan L, ElHajeri A, Roy D, **Bowers DC**, Value of a flowchart in diagnosis of pediatric cerebellar neoplasms for reviewers with different experience levels 32nd Postgraduate Course and 46th Annual Meeting of the European Society of Paediatric Radiology (ESPR). May 31 – June 4, 2009. Abstract 054
34. Klesse LG, Gargan L, Elterman R, **Bowers DC**. The Role of Neuroimaging in Young Children with Neurofibromatosis Type 1. Fourteenth International Symposium for Pediatric Neuro-Oncology, Vienna Austria. June 2010. Abstract P-CPS.07.
35. **Bowers DC**, Klesse LG, Gargan L, Elterman RD, Weprin BE. Risk Factors for Death Among Children With Pilocytic Astrocytomas Fourteenth International Symposium for Pediatric Neuro-Oncology, Vienna Austria. June 2010. P-LGG.38.
36. Slone T, Ting MA, Cochran CJ, Leonard D, **Bowers DC**. Longitudinal Assessment of Cardiotoxicity in Pediatric Cancer Survivors. 2011 Annual Meeting of the American Society of Pediatric Hematology Oncology, Baltimore, MD.
37. Klesse LJ, Bezner SK, Gargan L, Leonard D, **Bowers DC**. Utility of Long Term Neuro-Imaging in Patients with Cerebellar Pilocytic Astrocytomas. 2011 Annual Meeting of the American Society of Pediatric Hematology Oncology, Baltimore, MD.
38. Klesse LJ, Walz AL, Gargan L, **Bowers DC**. Conservative Management and Outcomes for Tectal Plate Lesions in Children. 2011 Annual Meeting of the American Society of Pediatric Hematology Oncology, Baltimore, MD.
39. Robertson KA, **Bowers DC**, Yang FC, Vik TA, Ho C, Croop JM, Walsh LE, Hingtgen CM, Pradhan K, Hutchins GD, Fletcher JW, Cohen MD, Edwards-Brown M, Travers JB, Yu M, Nalepa G, Denne SC, Ingram DA, Clapp WD. Phase 2 Pilot Study of Imatinib in Neurofibromatosis (NF1) Patients with Plexiform Neurofibromas. 2011 Annual Meeting of the American Society of Clinical Oncology, Chicago, IL.
40. **Bowers DC**, Schneider S, Johnson. Evaluation of Radiation-Induced Vasculopathy by Transcranial Doppler (TCD) among Survivors of Childhood Brain Tumors Treated with Cranial Radiation Therapy. *12th International Conference on Long-Term Complications of Treatment of Children and Adolescents for Cancer*. June 8 – 9, 2012. Williamsburg, VA.
41. Mueller S, Fullerton HJ, Stratton K, Leisenring W, Weathers RE, Stovall M, Armstrong GT, Goldsby RE, Packer RJ, Sklar CA, **Bowers DC**, Robison LL, Krull KR. Late Occuring Stroke after Cranial Radiation and Association with Atherosclerotic Risk Factors in Adult Survivors of Pediatric Cancer: Results from the Childhood Cancer Survivor Study (Oral Platform Presentation). *12th International Conference on Long-Term Complications of Treatment of Children and Adolescents for Cancer*. June 8 – 9, 2012. Williamsburg, VA.
42. **Bowers DC**, Gargan L, Horton CJ, Rakheja D, Margraf L. mTOR and Map Kinase Signaling in Childhood Ependymoma of the Posterior Fossa - A Potential New Therapeutic

Intervention. 15th International Symposium on Pediatric Neuro-Oncology, June 24-27, 2012 Toronto, Ontario, Canada. Abstract EM-33.

43. Robinson G, Chingtagumpala M, Adesina A, Dalton J, Santi M, Sievert A, Wright K, Armstrong G, Boue D, Olshefski R, Scott S, Huang A, Cohn R, Gururangan S, **Bowers DC**, Gilbertson R, Gajjar A, Ellison D. Medullomyoblastoma and Melanotic Medulloblastoma form a Histologic Spectrum and a Distinct Molecular Subgroup of Medulloblastoma, 15th International Symposium on Pediatric Neuro-Oncology, June 24-27, 2012 Toronto, Ontario, Canada. Abstract EP-17.
44. Wright K, Broniscer A, Bendel A, **Bowers DC**, Crawford J, Fisher P, Hassall T, Armstrong G, Baker J, Qaddoumi I, Robinson G, Wetmore C, Klimo P, Boop F, Onar-Thomas A, Ellison D, Gajjar A Primary Postoperative Chemotherapy Without Irradiation for Treatment of High Grade Glioma in Children Under 3 Years of Age: Preliminary Results from the St. Jude Young Children 2007 (SJYC07) Trial. 15th International Symposium on Pediatric Neuro-Oncology, June 24-27, 2012 Toronto, Ontario, Canada. Abstract HG-12.
45. Robinson G, Dalton J, O'Neill T, Yong W, Chingtagumpala M, Bouffet E, **Bowers DC**, Kellie S, Gururangan S, Fisher P, Bendel A, Fisher M, Hassall T, Wetmore C, Broniscer A, Clifford S, Gilbertson R, Gajjar A, Ellison E. Loss of 10q is an Indicator of Poor Outcome in Shh Subgroup Medulloblastoma. 15th International Symposium on Pediatric Neuro-Oncology, June 24-27, 2012 Toronto, Ontario, Canada. Abstract MB-73.
46. Cooksey R, **Bowers DC**, Gargan L, Gode A, Klesse A, Oden J, Vega G. Metabolic Syndrome, Cardiovascular Risk and Insulin Resistance in Pediatric Survivors of Brain Tumors Treated with Radiation. 15th International Symposium on Pediatric Neuro-Oncology, June 24-27, 2012 Toronto, Ontario, Canada. Abstract QL-59.
47. Alford R, Gargan L, **Bowers DC**, Klesse K, Weprin B, Koral K. Postoperative Surveillance of Cerebellar Pilocytic Astrocytoma. American Society of Neuroradiology, 52st Annual Meeting, Montreal, Quebec, Canada. May 17-22, 2014.
48. Wright K,; Hassall T, **Bowers DC**, Crawford J, Bendel, A, Fisher PG, Merchant T, Ellison D, Klimo P, Boop F, Armstrong G, Qaddoumi I, Robinson G, Wetmore C, Broniscer A, Gajjar A. Neo-Adjuvant Chemotherapy Improves Surgical Resection and Event Free Survival for Infants with Ependymoma: Preliminary Results of St. Jude Young Children 2007 (SJYC07) Trial. *Neuro-Oncology* 2014; 16:21Supplement: 1 Meeting Abstract: EM-017 16th International Symposium on Pediatric Neuro-Oncology (ISPNO) Singapore, SINGAPORE, June 28 – July 2, 2014.
49. The BATS DIPG Study: A National Clinical Trial of Upfront Biopsy and Treatment Stratification for Newly Diagnosed Diffuse Intrinsic Pontine Glioma (DFCI # 10-321) Kieran M, Fontebasso A, Papillon-Cavanagh S, Schwartzentruber J, Nikbakht H, Gerges N, Fiset PO, Bechet D, Faury D, De Jay N, Ramkissoon L, Corcoran A, Jones D, Sturm D, Johann P, Tomita T, Goldman S, Nagib M, Bendel A, Goumnerova L, **Bowers DC**, Leonard JR, Rubin JB, Alden T, DiPatri A, Browd S, Leary S, Jallo G, Cohen K, Prados MD, Banerjee A, Carret AS, Ellezam B, Crevier L, Klekner A, Bogner L, Hauser P, Garami M, Myseros J, Dong ZF, Siegel PM, Gump W, Ayyanar K, Ragheb J, Khatib Z, Krieger M, Kiehna E, Robison N, Harter D, Gardner S, Handler M, Foreman N, Brahma B, MacDonald T, Malkin H, Chi S, Manley P, Bandopadhyay P, Greenspan L, Ligon A, Albrecht S, Pfister SM, Ligon KL,

Majewski J, Gupta N, Jabado N *Neuro-Oncology* 2014;16: 56-57 Supplement: 1 Meeting Abstract: HG-066. 16th International Symposium on Pediatric Neuro-Oncology (ISPNO) Singapore, SINGAPORE, June 28 – July 2, 2014.

50. **Bowers DC**, Mosckowitz CS, Chou JF, Mazewski CM, Neglia JP, Armstrong GT, Leisenring WM, Robison LL, Oeffinger KC; Morbidity and Mortality Associated with Subsequent Meningiomas Among Childhood Cancer Survivors Exposed to Cranial Radiotherapy: A Report from the Childhood Cancer Survivor Study (CCSS). Meeting Abstract: 10000, Annual Meeting of the American Society of Clinical-Oncology (ASCO); Chicago, IL, May 29 - June 02, 2015.
51. Daryani VM, Harstead KE, Scott JF, Ward DA, Throm SL, **Bowers DC**, Bendel AE, Fisher PG, Wright KD, Broniscer A, Robinson GW, Gajjar AJ, Stewart CF; Developmental pharmacokinetics of topotecan (TPT), a renally excreted drug, in infants and young children with brain tumors; Meeting Abstract: 10055, Annual Meeting of the American-Society-of-Clinical-Oncology (ASCO); Chicago, IL, May 29 - June 02, 2015.

Invited Lectures, External:

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| June 13, 2000 | Non-Perioperative Cerebrovascular Accidents (CVAs) in Children with Central Nervous System (CNS) Tumors. 2000 International Symposium on Pediatric Neuro-Oncology. San Francisco, CA. |
| March 27, 2003 | “The Prognostic Importance of the MIB-1 Labeling Index as a Predictor of Tumor Progression in Pilocytic Astrocytomas” Children’s Oncology Group Spring 2003 Meeting. Atlanta, GA |
| October 3, 2003 | “The Prognostic Importance of the MIB-1 Labeling Index as a Predictor of Tumor Progression in Pilocytic Astrocytomas in Children and Adolescents” Pediatric Hematology-Oncology Clinical Conference. Cook-Children’s Medical Center. Ft. Worth, Texas. |
| April 1, 2004 | “Treatment of Young Children with High-Grade Glioma with Temozolomide, Irinotecan, and Carboplatin, followed by High-Dose Chemotherapy with Stem Cell Rescue” Symposium on the Treatment of High-Grade Gliomas. Spring 2004 Children’s Oncology Group Meeting. Washington, D.C. |
| June 12, 2004 | Predictors of Tumor Progression in Pediatric Gangliogliomas. 2004 International Symposium on Pediatric Neuro-Oncology. Boston, MA. |
| June 12, 2004 | Gene Expression Profiling of Progressive and Stable Childhood Pilocytic Astrocytomas. 2004 International Symposium on Pediatric Neuro-Oncology. |
| April 1, 2005 | “Young Children Malignant Glioma Protocol” Educational Session on Chemotherapeutic Management of Malignant Brain Tumors of Young Children. Children’s Oncology Group Spring 2005 Meeting. Los Angeles, CA. |

- May 14, 2005 Risk of Stroke Among > 5 Year Survivors of Childhood Leukemia and Brain Tumors; A Report from the Childhood Cancer Survivor Study. Proceedings of the 2005 Annual Meeting of the American Society for Clinical Oncology. Abstract # 8517.
- June 7, 2006 Risk of Stroke Among > 5 Year Survivors of Childhood Brain Tumors; A Report from the Childhood Cancer Survivor Study. 12th International Symposium on Pediatric Neuro-Oncology. Nara, Japan.
- June 9, 2006 Risk of Stroke Among > 5 Year Survivors of Childhood Leukemia and Brain Tumors; A Report from the Childhood Cancer Survivor Study. Long-Term Complications of Treatment of Children & Adolescents for Cancer. Niagara-on-the-Lake, Ontario, Canada
- December 17, 2009 “Low-Grade Gliomas” University of Missouri/Children’s Mercy Hospital Visiting Professor Lecture, Kansas City, MO.
- August 6, 2010 “Long-Term Side Effects of Childhood Brain Tumor Survivors” Vanderbilt-Ingram Cancer Center, Monroe Carell Jr. Children’s Hospital at Vanderbilt, Visiting Professor Lecture, Nashville, TN.
- Sept. 15 - 16, 2010 Invited Attendee and Participant, “National Brain Tumor Society (NTBS) Quality of Life Meeting” San Francisco, CA
- November 6, 2010 “Low Grade Gliomas” Invited Lecture, CME Course. 2010 Pediatric Brain Tumor Symposium. Ft. Worth, TX
- November 17, 2011 “Survivors of Childhood Brain Tumors: Entering the Adult World: Challenges and Avenues for Intervention” Innovations in Cancer Prevention and Research Conference, The Cancer Prevention and Research Institute of Texas (CPRIT), Austin, TX
- November 10, 2012 “Childhood Cancer Survivorship: Medical Update for Survivors” Childhood Cancer Survivor Conference, Frisco, TX
- February 23, 2013 “Long Term Effects for Pediatric and Young Adult Survivors of Leukemia and Lymphoma” Lone Star Blood Cancer Conference, Leukemia and Lymphoma Society (LLS), Dallas, TX
- May 31, 2015 “Morbidity and Mortality Associated with Subsequent Meningiomas Among Childhood Cancer Survivors Exposed to Cranial Radiotherapy: A Report from the Childhood Cancer Survivor Study”, Annual Meeting of the American Society of Clinical-Oncology (ASCO); Chicago, IL
- April 27, 2018 “Update of Childhood Low-Grade Gliomas”; Department of Pediatrics, Grand Rounds, Texas Tech University Health Sciences Center, Lubbock, TX

- June 20, 2019 “IGHG CNS Neoplasm Surveillance” International Group Harmonization Guidelines Summary Meeting, Atlanta, GA.
- January 13, 2020 “Second Malignancies Among Survivors of Childhood Brain Tumors” Carson Leslie Foundation Researchers Roundup, Dallas, TX.
- March 10, 2021 “Subsequent Meningiomas after Cranial Radiation Therapy (CRT): What is the Evidence Supporting Surveillance?” Children’s Oncology Group Late Effects Task Force Monthly Meeting, Zoom Meeting
- May 6, 2022 “Late Occurring Stroke Among Childhood Cancer Survivors” St. Jude / VIVA Foundation. Childhood Cancer Survivorship Care Webinar Series.

Invited Lectures, Internal:

- October 21, 2000 “Late Effects of the Childhood Brain Tumor Survivor” The Diagnosis and Management of Childhood Cancer and Hematologic Diseases. UT Southwestern Medical Center at Dallas Office of Continuing Education.
- December 7, 2000 “New Advances in Anti-Angiogenesis Chemotherapy.” Department of Pediatrics Grand Rounds. UT Southwestern Medical School at Dallas.
- April 4, 2001 “Pediatric Oncology Emergencies.” Department of Emergency Medicine Grand Rounds. UT Southwestern Medical School at Dallas.
- April 20, 2002 “Neuro-Oncology for the Pediatrician.” 2002 Kenneth Haltalin Continuing Medical Education Seminar. UT Southwestern Medical Center at Dallas Office of Continuing Education.
- October 16, 2004 “Medical Care of the Child with Neurofibromatosis” University of Texas Southwestern Medical Center Continuing Medical Education Course. Dallas, Texas.
- May 4, 2005 “Two Year Old with Lymphadenopathy (Autoimmune Lymphoproliferative Syndrome)” Children’s Medical Center Pediatric Grand Rounds Clinical-Pathological Correlation. Dallas, TX
- November 5, 2005 “Therapy for Childhood Brain Tumors” American Brain Tumor Association Conference on Adult Brain Tumors for Patients, Families and Caregivers Meeting, Dallas, TX
- July 19, 2006 “A 15 Month Old Girl with Vomiting (Exophytic Brainstem Pilocytic Astrocytoma)” Children’s Medical Center Pediatric Grand Rounds Clinical-Pathological Correlation. Dallas, TX
- June 14, 2007 “Physical Therapy and Occupational Therapy Aspects of Pediatric Oncology” Physical Medicine and Rehabilitation Noon Conference. Children’s Medical Center – Dallas. TX

- October 13, 2007 “Late Effects Among Childhood Cancer Survivors: What Now?” Practical Pediatric Hematology-Oncology. UT Southwestern Medical Center Continuing Medical Education Course. Dallas, TX
- March 12, 2008 “Obesity Among Childhood Cancer Survivors” UT Southwestern Obesity Alliance Weekly Seminar Series on Nutrition, Metabolism and Obesity. UT Southwestern Medical Center. Dallas, TX
- January 29, 2009 “Pediatric Neuro-Oncology for the Neuro-Surgeon” Pediatric Neurosurgery Noon Conference, Children’s Medical Center – Dallas, TX
- February 13, 2009 “ACE Program Retreat” UT Southwestern Medical Center at Dallas, TX
- March 18, 2009 “Case Studies: Impact of Obesity in Childhood Cancer” UT Southwestern Obesity Alliance Weekly Seminar Series on Nutrition, Metabolism and Obesity. UT Southwestern Medical Center. Dallas, TX
- April 18, 2009 “Pediatric Cancer Survivorship” Parent and Sibling Support Day, Center for Cancer and Blood Disorders, Children’s Medical Center-Dallas, Dallas, TX.
- May 20, 2009 “Pediatric Cancer Survivorship” Leadership Children’s. Children’s Medical Center-Dallas, Dallas, TX.
- October 10, 2009 “Optic Pathway Gliomas – A Challenging Tumor for Pediatric Oncologists” The Carol F. Zimmerman, MD Continuing Medical Education Seminar in Neuro-Ophthalmology, Dallas, TX
- May 5, 2010 “Low Grade Gliomas in Childhood” Pediatric Hematology-Oncology Grand Rounds. UT Southwestern Medical Center at Dallas/Children’s Medical Center, Dallas, TX
- July 15, 2010 “Long-Term Survivors of Childhood Cancer” Hands On Healthcare. Lecture for staff members of the Texas state legislature, Children’s Medical Center, Dallas, TX
- November 10, 2012 “Medical Update for Childhood Cancer Survivors” Childhood Cancer Survivors’ Conference, Children’s Medical Center-Legacy Campus
< http://www.youtube.com/watch?v=gjyQin_LNx0&feature=youtu.be >
- January 23, 2013 “Metabolic Syndrome and Cardiovascular Risk among Pediatric Brain Tumor Survivors” UT Southwestern Obesity Alliance’s Weekly Conference on Metabolism, Nutrition, and Obesity, UT Southwestern Medical Center, Dallas, TX
- September 24, 2013 “Building a Better Database: Lessons Learned and Future Plans” Pediatric Hematology-Oncology Grand Rounds. UT Southwestern Medical Center at Dallas/Children’s Medical Center, Dallas, TX

- March 19, 2014 “Update on Childhood Cancer Survivorship – An Intersection of Pediatrics and Geriatrics?” Department of Pediatrics Grand Rounds, University of Texas Southwestern Medical School, Dallas, TX
- November 4, 2017 “Childhood Cancer Survivorship” Department of Pediatrics Research Retreat, University of Texas Southwestern Medical School, Dallas, TX
- March 7, 2018 “Physical Therapy and Occupational Therapy Aspects of Pediatric Oncology” Pediatric Physical Medicine and Rehabilitation Weekly Conference, UT Southwestern Medical School, Dallas, TX
- May 1, 2018 “Biology and Therapy for Non-Infant Medulloblastoma” Protocol Review Session, Pediatric Hematology-Oncology Grand Rounds, UT Southwestern Medical School, Dallas, TX
- October 16, 2018 “Child with a Pleural and Pericardial Effusion” Multidisciplinary Care Conference, Department of Pediatrics, UT Southwestern Medical School, Dallas, TX
- April 15, 2019 “Unusual Presentation of a Hypothalamic Tumor” Multidisciplinary Care Conference, Department of Pediatrics, UT Southwestern Medical School, Dallas, TX
- April 13, 2022 “Pediatric Low-Grade and High-Grade Gliomas for Radiation Oncologists” Radiation Oncology Resident Education Lecture. UT Southwestern Medical School, Dallas, TX

Research Support:

Active Support:

- St. Baldrick’s Foundation Infrastructure Grant 12/1/2013
 Title: Building a Clinical and Research Database for Pediatric Oncology at UTSW
 Synopsis: Salary support for a Clinical Research Associate for the newly created Oncology Database at UTSW.
 Role: PI
- Children's Clinical Research Advisory Committee (CCRAC) 1/1/2009 - present
 Title: Evaluation of Survivors of Childhood Brain Tumors for Radiation-Induced Vasculopathy by Transcranial Doppler
 Synopsis: An evaluation of childhood brain tumors treated with cranial radiation therapy for evidence of asymptomatic cerebrovasculopathy
 Role: PI
- NIH/NCI: U24 CA055727-15 Robison (PI) 11/30/2009 - present
 Title: Childhood Cancer Survivor Study
 Synopsis: A multicenter comprehensive study of medical and psychological late effects of childhood cancer survivors
 Role: Co-Investigator and Institutional PI (sub-award: 111287150-7324212)

Novartis Pharmaceuticals 1/21/2011 - present
Title: Transfusional Iron Overload in Children Treated for Cancer
Synopsis: Examination of liver iron content among a population of cancer survivors who received multiple blood transfusions during the course of their therapy.
Role: PI

Wipe Out Kids Cancer January 1, 2012 – present
Genomic Analysis of Recurrent Medulloblastoma
Synopsis: Examination and comparison of newly diagnosed and recurrent medulloblastomas to identify recurrent patterns of genetic mutations among recurrent medulloblastomas
Role: Co-Investigator

Wipe Out Kids Cancer January 1, 2012 – present
Metabolic Syndrome in Childhood Brain Tumor Survivors
Synopsis: Examination of young children who are survivors of childhood brain tumors to identify risk factors for metabolic syndrome and cardiovascular disease.
Role: Co-Investigator, Faculty mentor.

Past Support:

Children's Brain Tumor Foundation of the Southwest 1/1/2000 – 12/31/2000
Title: Long-term effects of 10 year survivors of childhood medulloblastoma
Synopsis: A comprehensive neuro-psychological and quality of life evaluation of young adults treated for medulloblastoma as children
Role: PI

Children's Cancer Fund of Dallas 1/1/2002 – 12/31/2005
Title: Phase I Trial of Stereotactic Radiosurgery (SRS) or Fractionated, Stereotactic Radiotherapy (SRT) For Brain Tumors in Children \leq 3 Years Old
Synopsis: A prospective study of a novel treatment for young children with malignant brain tumors.
Role: PI

Children's Medical Center CCRAC 1/1/2003 – 12/31/2004
Title: Determination and Quantification of the Expression of Ki-67, SPARC, and Neurofibromin in Pediatric Low-Grade Gliomas
Synopsis: Evaluation of novel biological predictors of progression-free survival among children with low-grade gliomas
Role: PI

Children's Medical Center CCRAC 1/1/2005 – 12/31/2005
Title: Phase II and Pharmacokinetic Study of Oral Cyclophosphamide and Oral Topotecan
Synopsis: A follow-up study to prior phase I study examining the activity of two oral chemotherapy agents against childhood solid tumors
Role: PI

Teaching:

Medical Student and Housestaff Rotations:

- 1999 – present Inpatient Pediatric Hematology-Oncology Inpatient Rotation
I serve as the attending physician for third-year medical students, pediatric residents, and pediatric hematology-oncology fellows during their required inpatient pediatric oncology rotations. I supervise 2 - 3 medical students, 3 - 4 housestaff, and 1 fellow for 8 - 12 approximately weeks per year.
- 1999 – present Outpatient Pediatric Hematology-Oncology Clinic
I serve as the attending physician for medical students, pediatric residents, and pediatric hematology-oncology fellows during their elective or required pediatric hematology-oncology clinic rotations. On average, I supervise 1 medical student or pediatric resident, in addition to 1 – 2 fellows each week in clinic.
- 1999 – present Pediatric Hematology-Oncology Fellows Introductory Lectures
I lecture to our fellows at the beginning of each academic year, usually 2 or 3 lectures on childhood brain tumors and cancer survivorship
- 2007 – present Pediatric Neuro-Oncology Lecture Series
I lecture to our fellows once a month about disease-specific topic about the diagnosis, treatment, and late effects of children with brain tumors.

Mentorship:

Mentorship and Scholarship Oversight Committees (SOC):

I served as a member of the SOC for all first-year pediatric hematology-oncology fellows for the 2007 - 2008 academic year. The role of the first-year SOC was to assure that all 4 fellows had research project and mentor, and the beginnings of research and career plans by the start of their second year of fellowship. I served as a member of the SOC for all second-year pediatric hematology fellows for the 2010 – 2011 academic year. The role of the second-year SOC is to provide ongoing mentoring and review of the academic progress of all second year fellows. I have also served an SOC member for the fellows listed below:

Year	Trainee's Name	Trainee's Rank	My Role
2006 – 2008	Laura Klesse, MD, PhD	Pediatric Hematology-Oncology Fellow	SOC mentor
2007 – 2009	Martha Stegner, MD	Pediatric Hematology-Oncology Fellow	SOC mentor
2010 - 2011	Raven Cooksey, MD	Pediatric Hematology-Oncology Fellow	SOC mentor

Medical Students:

The Division of Pediatric Hematology-Oncology sponsors undergraduate or medical students each year to spend either a summer under our guidance to focus on clinical research. The students I have mentored are listed below:

Year	Trainee's Name	Trainee's Rank	Project
2005	Nirupa Raghunathan	Medical Student	Correlation of Immunohistochemistry Studies with Tumor Progression among Completely Resected Pilocytic Astrocytomas
2010	Terri Griffith	Medical Student	Evaluation of Back Pain and Coping among Survivors of Childhood Leukemia
2012 – 2013	Susan Wu	Medical Student	Obesity and Metabolic Syndrome among Survivors of Childhood Brain Tumors who are Less than 10 Years Old

PhD Candidates:

I have served on the PhD dissertation committees of PhD candidates in the Department of Psychiatry, Division of Child Psychology. These students' dissertations examined late effects of childhood brain tumor survivors. The students I have mentored are listed below:

Year	Trainee's Name	Trainee's Rank	Project
2002	Jon A. Bergeron	PhD candidate	Neuropsychological performance and quality of life of 10 year survivors of childhood medulloblastoma
2010	Alice Ann Spurgin	PhD candidate	Academic Performance in Survivors of Pediatric Medulloblastoma