

Children's Minnesota Research Institute
Research Publications
January 1, 2018-December 31, 2018

Published Research

1. **Agarwal N**, Krishnan B, Burgess RC, Prayson RA, Alexopoulos AV, Gupta A. Magnetoencephalographic characteristics of cortical dysplasia in children. *Pediatr Neurol*. 2018;78:13-19.
2. Alamin T, Argwal V, **Zagel A** et al. The effect of standing vs. variants of the seated position on lumbar intersegmental angulation and spacing: a radiographic study of 20 asymptomatic subjects. *J Spine Surg*. 2018; 4(3): 509-515.
3. **Appleton, KP, Nelson S**, and Wedlund, S. Distress debriefings after critical incidents: a pilot project. *AACN Adv Crit Care*, 2018; 29(2): 213-220.
4. Aries I, Bodaar K (**Winter S**), et al. *PRC2 loss induces chemoresistance by repressing apoptosis in T cell acute lymphoblastic leukemia*. *J Exp Med*. 2018; 215(12): 3094-3114.
5. **Barnes T, Lee S, Thompson N, Mullen K, Chatterson P, Gandrud L**. Barriers to glucose testing and attitudes toward mobile app and device use in a large cohort of T1D pediatric patients: implications for diabetes management. *J Diabetes Sci Technol*. 2018; 12(6): 1246-1247.
6. **Bendelsmith CR, Skrypek MM, Patel SR, Pond DA, Linabery AM, Bendel AE**. Multiple pilomatrixomas in a survivor of WNT-activated medulloblastoma leading to the discovery of a germline APC mutation and the diagnosis of familial adenomatous polyposis. *Pediatr Blood Cancer*. 2018; 65(1).
7. Bisceglia M, Muscarella LA, **Galliani CA**, et al. Extraneuraxial hemangioblastoma: clinicopathologic features and review of the literature. *Advances in anatomic pathology*. 2018; 25(3):197-215.
8. Bjornard K, **Gilchrist L**, et al. Peripheral neuropathy in children and adolescents treated for cancer. *Lancet Child Adolesc Health*. 2018; 2(10): 744-754.
9. **Borden, AR**, et al., Variation in the phototherapy practices and irradiance of devices in a major metropolitan area. *Neonatology*, 2018; 113(3): 269-274.
10. **Bostrom B**, Knudson J, **Gossai N, Perkins J, Richards M, Chu J, McAllister N, Sencer S, Messinger J**. Can prophylactic pamidronate infusions monthly reduce the incidence of symptomatic osteonecrosis in ALL patients at high risk? *Blood and Cancer*. 2018; 65(S1): s235-s236
11. **Bostrom B, Livingston M, McAllister NR**. Reply to: Comment on: Successful use of nitrous oxide during lumbar punctures: a call for nitrous oxide in pediatric oncology clinics. *Pediatr Blood Cancer*. 2018; 65(5):e26956.
12. Bride KL, Vincent TL, Im SY, (**Winter, SS**), et al. Preclinical efficacy of daratumumab in T-cell acute lymphoblastic leukemia. *Blood*. 2018; 131(9):995-999.
13. **Cain M**, Arkilo D, **Linabery AM, Kharbanda AB**. Emergency department use of neuroimaging in children and adolescents presenting with headache. *J Pediatr*. 2018;201: 196-201.
14. Case M, Shirinpour S, Zhang H, Datta YH, **Nelson SC** et al. Increased theta band EEG power in sickle cell disease patients. *J Pain Res*. 2018; 11:67-76.
1. Cicero M, Whitfill T, Walsh B, (**Madhok M**), et al. 60 seconds to survival: a multisite study of a screen-based simulation to improve prehospital providers disaster triage skills. *AEM Educ Train*. 2018; 2(2): 100-106.
15. Chiang S, (**Pozos T**) et al. Screening for Wiskott-Aldrich syndrome by flow cytometry. *J Allergy Clin Immunol*. 2018; 142(1):333-335.
16. Claridy MD, Hudson MM, Caplan L, **Mitby, PA** et al. Patterns of Internet-based health information seeking in adult survivors of childhood cancer. *Pediatr Blood Cancer*. 2018;65(5):e26954.
17. Cruz AT, Freedman SB, Kulik DM, (**Arms, JL**) et al. Herpes simplex virus infection in infants undergoing meningitis evaluation. *Pediatrics*. 2018;141(2).
18. **Do T, Linabery A, Patterson R, Tu A**. Cranial rhabdomyosarcoma masquerading as infectious mastoiditis: case report and literature review. *Pediatr Neurosurg*. 2018; 53(5): 317-321.
19. Dusek JA, **Griffin KH, Finch MD, Rivard RL, Watson D**. Cost savings from reducing pain through the delivery of integrative medicine program to hospitalized patients. *Journal of alternative and complementary medicine*. 2018; 24(6): 557-563.
20. Ebert B, **Sidman J, Morrell N, Roby B**. Congenital and iatrogenic laryngeal and vocal abnormalities in patients with 22q11.2 deletion. *Int J Pediatr Otorhinolaryngol*, 2018; 109: 17-20.

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21. Esdal H, Ghbeis M, Saltzman D, Hess D, Hume J, **Reed, R.** et al. Necrotizing enterocolitis in two siblings and an unrelated infant with overlapping chromosome 6q25 deletions. *Mol Syndromol*. 2018; 9(3): 141-148.
22. Ficocioglu C, Giugliani R, Harmatz P, **Mendelsohn NJ**, Jego V, Parini R. Intrafamilial variability in the clinical manifestations of mucopolysaccharidosis type II: data from the Hunter Outcome Survey (HOS). *Am J Med Genet A*. 2018; 176(2):301-310.
23. Freedman S, Williamson-Urquhart S, (**Gorelick M**) et al. Multicenter trial of a combination probiotic for children with gastroenteritis. *N Engl J Med*. 2018; 379(21): 2015-2026.
24. **Friedrichsdorf S, Eull D, Weidner C, Postier A.** A hospital-wide initiative to eliminate or reduce needle pain in children using lean methodology. *Pain Rep*. 2018; 3(Suppl 1): e671.
25. **Friedrichsdorf S,** Bruera E. Delivering pediatric palliative care: from denial, palliophobia, pallilalia to palliative. *Children (Basel)*. 2018; 5(9).
26. **Friedrichsdorf S,** Kohen D. Integration of hypnosis into pediatric palliative care. *Ann Palliat Med*. 2018; 7(1):136-150.
27. Freire G, Kuppermann N, Zemek R (**Kharbanda A**) et al. Predicting escalated care in infants with bronchiolitis. *Pediatrics*. 2018; 142(3).
28. Geng W, **Kearney S, Nelson S.** Upfront eltrombopag monotherapy induces stable hematologic remission in pediatric patients with nonsevere idiopathic aplastic anemia. *Pediatr Blood Cancer*. 2018; 65(10):e27290.
29. **Gilchrist LS, Tanner LR.** Short-term recovery of balance control: association with chemotherapy-induced peripheral neuropathy in pediatric oncology. *Pediatric physical therapy*. 2018; 30(2):119-124.
30. Gniadek TJ, Peters J, Sipe R, Reardon R, **Gorlin J,** Joing S. Remote emergency release of blood products using a custom iPad application. *Transfusion*. 2018; 58(2):282-283.
31. **Gossai N,** Perkins J, **Richards M, Messinger Y, Bostrom B.** BVGP: a novel protocol for low risk hodgkin lymphoma with excellent response, minimal acute toxicity and reduced risk of late effects. *Pediatric Blood and Cancer*. 2018; 65(s1): s226-s227.
32. **Gossai N, Richards M,** Boman L, et al. Symptomatic hyperammonemia with erwinia chrysanthemi-derived asparaginase in pediatric leukemia patients. *J Pediatr Hematol Oncol*. 2018; 40(4): 312-315.
33. Graber M, Berg D, Jerde W, **Kibort P,** et al. Learning from tragedy: the Julia Berg story. *Diagnosis (Berl)*. 2018; 5(4): 257-266.
34. Gradidge EA, Bakar A, Tellez D, (**Orioles A**) et al. Effect of location on tracheal intubation safety in cardiac disease-are cardiac ICUs safer? *Pediatr Crit Care Med*. 2018; 19(3):218-227.
35. Gradidge EA, Bakar A, Tellez D (**Orioles A**) et al. Safety of tracheal intubation in the presence of cardiac disease in paediatric ICUs. *Cardiol Young*, 2018; 28(7): 928-937.
36. Greenbaum V, Livings M, Lai B, **Edinburgh L,** et al. Evaluation of a tool to identify child sex trafficking victims in multiple healthcare settings. *J Adolesc Health*. 2018; 63(6): 745-752.
37. Gupta N, Goumnerova L, Manley P, (**Bendel A**) et al. Prospective feasibility and safety assessment of surgical biopsy for patients with newly diagnosed diffuse intrinsic pontine glioma. *Neuro Oncol*. 2018; 20(11): 1547-1555.
38. **Han BK,** Huntley M, **Overman D,** et al. Cardiovascular CT for evaluation of single-ventricle heart disease: risks and accuracy compared with interventional findings. *Cardiology in the young*. 2018; 28(1):9-20.
39. **Han BK,** Casey S, Witt D, et al. Development of a congenital cardiovascular computed tomography imaging registry: Rationale and implementation. *J Cardiovasc Comput Tomogr*. 2018; 12(3): 263-266.
40. Han JH, Harmony KM, Dokmeci E, (**Winter SS**) et al. Dynamic re-immunization of off-treatment childhood cancer survivors: An implementation feasibility study. *PLoS One*. 2018;13(2):e0191804.
41. Hargarten S, Lerner E, **Gorelick M,** et al. Gun violence: a biopsychosocial disease. *West J Emerg Med*. 2018; 19(6): 1024-1027.
42. Hartzell L, **Chinnadurai, S.** Microtia and related facial anomalies. *Clin Perinatol*. 2018; 45(4): 679-697.
43. Hemati P, Revah-Politi A, Bassan H, (**Mendelsohn N**) et al. Refining the phenotype associated with GNB1 mutations: Clinical data on 18 newly identified patients and review of the literature. *Am J Med Genet A*. 2018; 176(11): 2259-2275.
44. Hendrickson MA, Wey AR, Gaillard PR, **Kharbanda AB.** Implementation of an electronic clinical decision support tool for pediatric appendicitis within a hospital network. *Pediatr Emerg Care*. 2018; 34(1):10-16.
45. Hendrickson MA, Zaremba J, Wey AR, Gaillard PR, **Kharbanda AB.** The use of a triage-based protocol for

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- oral rehydration in a pediatric emergency department. *Pediatr Emerg Care*. 2018; 34(4):227-232.
46. Hockenberry M, Moore I, Scheurer M, **Hooke MC** et al. Influence of nitrosative stress on fatigue during childhood leukemia treatment. *Biological Research for Nursing*. 2018; 20: 403-409.
 47. **Hooke MC**, Rodgers C, Taylor O, (**Mitby P**), et al. Physical activity, the childhood cancer symptom cluster-leukemia, and cognitive function: a longitudinal mediation analysis. *Cancer Nurs*. 2018; 41(6): 434-440.
 48. Hoysted C, Babl F, Kassam-Adams N, (**Kharbanda AB**), et al. Knowledge and training in paediatric medical traumatic stress and trauma-informed care among emergency medical professionals in low- and middle-income countries. *Eur J Psychotraumatol*. 2018. 9(1): 1468703.
 49. Jacobs JP, Mayer JE, Jr, Pasquali SK, Hill KD, **Overman DM** et al. The Society of Thoracic Surgeons Congenital Heart Surgery Database: 2018 update on outcomes and quality. *Ann Thorac Surg*. 2018;105(3):680-689.
 50. Johannesen KM, Gardella E, Linnankivi T, (**Reichert SC**) et al. Defining the phenotypic spectrum of SLC6A1 mutations. *Epilepsia*. 2018;59(2):389-402.
 51. Johnson AB, Mliner S, Depasquale C, **Troy M**, Gunnar M. Attachment security buffers the HPA axis of toddlers growing up in poverty or near poverty: Assessment during pediatric well-child exams with inoculations. *Psychoneuroendocrinology*. 2018. 95: 120-127.
 52. Johnson L, Brenner D, **Sederstrom N**. Technical considerations for implementation of tele-ethics consultation in the intensive care unit. *J Clin Ethics*. 2018; 29(4): 285-290.
 53. **Junghans-Rutelonis AN**, Tackett AP, Suorsa KI, Chaney JM, Mullins LL. Asthma-specific cognitions, self-focused attention, and fear of negative evaluation in adolescents and young adults diagnosed with childhood-onset asthma. *Psychol Health Med*. 2018;23(1):69-81.
 54. **Junghans-Rutelonis AN**, Craner JR, Ale CM, Harbeck-Weber C, Fischer PR, Weiss KE. Youth with chronic pain and postural orthostatic tachycardia syndrome (POTS): treatment mediators of improvement in functional disability. *Journal of clinical psychology in medical settings*. 2018; 25(4): 471-484.
 55. Kaiser P, Kohen D, **Brown M**. et al. Integrating pediatric hypnosis with complementary modalities: clinical perspectives on personalized treatment. *Children (Basel)* 2018; 5(8).
 56. **Kaiser R**, (**Lillegard J**), et al. Lentiviral vector-mediated gene therapy of hepatocytes ex vivo for autologous transplantation in swine. *J Vis Exp*. 2018; (141).
 57. Kang H, Sharma N, Nickl C, (**Winter S**), et al. Dysregulated transcriptional networks in KMT2A- and MLLT10-rearranged T-ALL. *Biomark Res*. 2018; 6: 27.
 58. Karst JS, Hoag J, Chan S, **Schmidt D**, et al. Assessment of end-of-treatment transition needs for pediatric cancer and hematopoietic stem cell transplant patients and their families. *Pediatr Blood Cancer*. 2018. 65(8): e27109.
 59. Kaur H, Sohn S, Wi CI, (**Voge GA**) et al. Automated chart review utilizing natural language processing algorithm for asthma predictive index. *BMC pulmonary medicine*. 2018;18(1):34.
 60. Kernan NA, Richardson P, Smith A, (**Messinger Y**), et al. Defibrotide for the treatment of hepatic veno-occlusive disease/sinusoidal obstruction syndrome following nontransplant-associated chemotherapy: Final results from a post hoc analysis of data from an expanded-access program. *Pediatr Blood Cancer*. 2018; 65(10):e27269.
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 63. **Kharbanda AB**, Vazquez-Benitez G, Ballard DW, et al. Development and validation of a novel pediatric appendicitis risk calculator (pARC). *Pediatrics*. 2018;141(4).
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67. Lennon C, **Chinnadurai S**. Nonsurgical management of congenital auricular anomalies. *Facial Plast Surg Clin North Am*. 2018;26(1):1-8.
68. Ma X, Blake CE, **Barnes TL**, Bell BA, Liese AD. What does a person's eating identity add to environmental influences on fruit and vegetable intake? *Appetite*. 2018;120:130-135.
69. **Mammel MC**. What about leaks! (During ventilation). *Pediatr Crit Care Med*. 2018; 19(9): 902-903.
70. Martin OO, **Moquist KL**, **Hennessy JM**, **Nelson SC**. Invasive pneumococcal disease in children with sickle cell disease in the pneumococcal conjugate vaccine era. *Pediatr Blood Cancer*. 2018;65(1).
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73. McClafferty H, Brooks A, Chen M, Brenner M, **Brown M**, et al. Pediatric integrative medicine in residency program: relationship between lifestyle behaviors and burnout and wellbeing measures in first-year residents. *Children (Basel)*. 2018; 5(4).
74. **McNamara J**, et al. WS01.5 A 2-part, phase 3 single-arm study to evaluate the safety and pharmacokinetics (PK) of lumacaftor/ivacaftor (LUM/IVA) combination therapy in patients (pts) aged 2 to 5 years with cystic fibrosis (CF) homozygous for the F508del- CFTR mutation. Vol. 17. 2018. S2-S3.
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76. **Messinger, Y.H.** and B.C. **Bostrom**, *Bortezomib Comes to the Rescue: Comment on the Article by Nachmias et al. Entitled "A Bortezomib-Based Protocol Induces a High Rate of CR with Minor Toxicity in Adult Patients with Relapsed/Refractory ALL"*. *Acta Haematol*, 2018. 140(4): p. 247-249.
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84. **Nickel AJ**, Puumala SE, **Kharbanda AB**. Vaccine-preventable, hospitalizations among American Indian/Alaska Native children using the 2012 Kid's Inpatient Database. *Vaccine*. 2018;36(7):945-948.
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86. **Olson M**, Borman-Shoap E, **Mathias K**, **Barnes T**, Olson A. Case-based simulation empowering pediatric residents to communicate about diagnostic uncertainty. *Diagnosis (Berl)*. 2018; 5(4): 243-248.
87. **Ovans J**, **Hooke MC**, **Bendel A**, **Tanner L**. Physical therapist coaching to improve physical activity in children with brain tumors: a pilot study. *Pediatr Phys Ther*. 2018; 30(4): 310-317.
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94. **Pond D**, Arts FA, **Mendelsohn NJ**, Demoulin JB, Scharer G, **Messinger Y**. A patient with germ-line gain-of-function PDGFRB p.N666H mutation and marked clinical response to imatinib. *Genet Med*. 2018;20(1):142-150.
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96. **Postier A**, **Eull D**, Schulz C, **Fitzgerald M**, **Symalla B**, **Watson D**, **Goertzen L**, **Friedrichsdorf S**. Pain experience in a US children's hospital: a point prevalence survey undertaken after the implementation of a system-wide protocol to eliminate or decrease pain caused by needles. *Hosp Pediatr*. 2018;8(9):515-523.
97. Rehman S, Lovvorn HN, 3rd, Rickman OB, **Wootten CT**, **Chinnadurai S**. Unique application of awake tracheoscopy and endobronchial ultrasound in the management of tracheal mucoepidermoid carcinoma. *Head & neck*. 2018; 40(6):E58-E61.
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