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PERC Network Endorsed Publications: January 2019 - December 2019

A prospective comparative study of children with gastroenteritis: emergency department compared with symptomatic care at home. Otto G Vanderkooi, Jianling Xie, Bonita E Lee, Xiao-Li Pang, Linda Chui, Daniel C Payne, Judy MacDonald, **Samina Ali**, Shannon MacDonald, Steve Drews, Lara Osterreicher, **Kelly Kim**, **Stephen B Freedman**, Alberta Provincial Pediatric Enteric Infection TEam (APPETITE) and Pediatric Emergency Research Canada (PERC). *Eur J Clin Microbiol Infect Dis*. 2019 Sep. <https://doi.org/10.1007/s10096-019-03688-8>

Association between ondansetron use and symptom persistence in children with concussions: A 5P substudy Gravel, J., Boutis, K., Tang, K., Beauchamp, M., Freedman, S., Dubrovsky, A, Gagnon I, Momoli F, Zemek, R. (March 2019). *CJEM*, 21 (2), 204-210. DOI: <https://doi.org/10.1017/cem.2018.384>

Canadian and UK/Ireland practice patterns in lumbar puncture performance in febrile neonates with bronchiolitis. Laura Simone, Mark D Lyttle, Damian Roland, Derek Stephens, **Suzanne Schuh**, Pediatric Emergency Research Canada (PERC) and the Pediatric Emergency Research United Kingdom and Ireland (PERUKI) networks. *Emerg Med J*. 2019 Feb; 36(3): 148-153 - <https://doi.org/10.1136/emermed-2018-208000>

Characterizing pain in children with acute gastroenteritis presenting to the emergency department - S. Ali, C. Maki, J. Xie, B. Lee, T. Graham, O. Vanderkooi, S. MacDonald, N. Poonai, J. Thull-Freedman, M. Rajagopal, N. Dow, M. Sivakumar, S. Freedman and Alberta Provincial Pediatric Enteric Infection TEam (APPETITE), Pediatric Emergency Research Canada (PERC) - <https://doi.org/10.1017/cem.2019.78> - Published online: 02 May 2019

Derivation and initial validation of clinical phenotypes of children presenting with concussion acutely in the Emergency Department: Latent class analysis of a multicentre, prospective cohort, observational study. Yeates KO, Tang K, Barrowman NJ, Freedman SB, Gravel J, Gagnon I, Sangha G, Boutis K, Beer D, Craig W, Burns E, Farion K, Mikrogianakis A, Barlow KM, Dubrovsky AS, Meeuwisse W, Gioia G, Meehan W, Beauchamp MH, Kamil Y, Grool AM, Hoshizaki B, Anderson P, Brooks BL, Vassilyadi M, Klassen T, Keightley M, Richer L, DeMatteo C, Osmond M, Zemek R. on behalf of Pediatric Emergency Research Canada (PERC). *J Neurotrauma*. 2019 Jan 8. doi: 10.1089/neu.2018.6009. [Epub ahead of print] <https://doi.org/10.1089/neu.2018.6009>

Emergency department and inpatient clinical decision tools for the management of febrile young infants among tertiary paediatric centres across Canada. Brett Burstein, Jocelyn Gravel, Paul L Aronson, Mark I Neuman, Pediatric Emergency Research Canada (PERC). *Paediatrics & Child Health*, Volume 24, Issue 3, June 2019, Pages e142–e154, <https://doi.org/10.1093/pch/pxy126>



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Genetic determinants of acute asthma therapy response in children with moderate-to-severe asthma exacerbations. Tse SM, Krajcinovic M, Chauhan BF, Zemek R, Gravel J, Chalut D, Poonai N, Quach C, Laberge S, Ducharme FM; DOORWAY research group of the Pediatric Emergency Research in Canada (PERC) network. <https://doi.org/10.1002/ppul.24247>. First published: 15 January 2019.

Natural Progression of Symptom Change and Recovery from Concussion in a Pediatric Population. Andrée-Anne Ledoux, Ken Tang, Keith O Yeates, Martin V Pusic, Kathy Boutis, William R Craig, Jocelyn Gravel, Stephen B Freedman, Isabelle Gagnon, Gerard A Gioia, Martin H Osmond, Roger L Zemek for the Pediatric Emergency Research Canada (PERC) Concussion Team - **JAMA Pediatr.** 2018 Nov; e183820 doi: [10.1001/jamapediatrics.2018.3820](https://doi.org/10.1001/jamapediatrics.2018.3820)

Pain management practices surrounding lumbar punctures in children: A survey of Canadian emergency physicians. Poonai N, Brzozowski V, Stang AS, Drendel AL, Boisclair P, Miller M, Harman S, Ali S; Pediatric Emergency Research Canada (PERC). **CJEM.** 2019 Mar; 21(2):199-203. doi: 10.1017/cem.2018.382

Pharmacotherapy in bronchiolitis at discharge from emergency departments within the Pediatric Emergency Research Networks: a retrospective analysis. Alisha Jamal, Yaron Finkelstein, Nathan Kuppermann, Stephen B Freedman, Todd A Florin, Franz E Babl, Stuart R Dalziel, Roger Zemek, Amy C Plint, Dale W Steele, David Schnadower, David W Johnson, Derek Stephens, Anupam Kharbanda, Damian Roland, Mark D Lyttle, Charles G Macias, Ricardo M Fernandes, Javier Benito, Suzanne Schuh. **Lancet Child Adolesc Health.** 2019 Jun; 3(8): 539-547 [https://doi.org/10.1016/S2352-4642\(19\)30193-2](https://doi.org/10.1016/S2352-4642(19)30193-2)

Pigment Visibility on Rectal Swabs Used To Detect Enteropathogens: a Prospective Cohort Study. Jianling Xie, Gillian A M Tarr, Samina Ali, Linda Chui, Xiao-Li Pang, Bonita E Lee, Otto G Vanderkooi, Phillip I Tarr, Ran Zhuo, Brendon Parsons, Byron M Berenger, Kelly Kim, Stephen B Freedman **J Clin Microbiol.** 2019 Apr; 57(6) - <https://doi.org/10.1128/JCM.00213-19>

Practice Patterns in Pharmacological and Non-Pharmacological Therapies for Children with Mild Traumatic Brain Injury: A Survey of 15 Canadian and United States Centers. Rebekah Mannix, Roger Zemek, Keith Owen Yeates, Kristy Arbogast, Shireen Atabaki, Mohammed Badawy, Miriam H Beauchamp, Darcy Beer, Steven Bin, Brett Burstein, William Craig, Dan Corwin, Quynh Doan, Michael Ellis, Stephen B Freedman, Isabelle Gagnon, Jocelyn Gravel, John Leddy, Angela Lumba-Brown, Christina Master, Andrew R Mayer, Grace Park, Michelle Penque, Tara Rhine, Kelly Russell, Kathryn Schneider, Michael Bell, Stephen Wisniewski. **J Neurotrauma.** 2019 Jun - <https://doi.org/10.1089/neu.2018.6290>



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Predicting Hemolytic Uremic Syndrome and Renal Failure in Shiga Toxin-Producing Escherichia coli Infected Children. Ryan S McKee, David Schnadower, Phillip I Tarr, Jianling Xie, Yaron Finkelstein, Neil Desai, Roni D Lane, Kelly R Bergmann, Ron L Kaplan, Selena Hariharan, Andrea T Cruz, Daniel M Cohen, **Andrew Dixon**, Sriram Ramgopal, Annie Rominger, Elizabeth C Powell, Jennifer Kilgar, Kenneth A Michelson, **Darcy Beer**, Martin Bitzan, Christopher M Pruitt, Kenneth Yen, **Garth D Meckler**, **Amy C Plint**, Stuart Bradin, Thomas J Abramo, **Serge Gouin**, **April J Kam**, Abigail Schuh, **Fran Balamuth**, Tracy E Hunley, John T Kanegaye, Nicholas E Jones, Usha Avva, **Robert Porter**, Daniel M Fein, Jeffrey P Louie, **Stephen B Freedman**, Pediatric Emergency Research Canada (PERC) - *Clin Infect Dis.* 2019 May - <https://doi.org/10.1093/cid/ciz432>

Predicting Psychological Distress after Pediatric Concussion. Brian L Brooks, Vickie Plourde, **Miriam H Beauchamp**, Ken Tang, **Keith Owen Yeates**, Michelle Keightley, Peter Anderson, Naddley Désiré, Nick Barrowman, **Roger Zemek**, Mary Aglipay, **Karen Barlow**, **Darcy Beer**, **Kathy Boutis**, **Emma Burns**, **William Craig**, Carol DeMatteo, **Alexander S Dubrovsky**, **Ken J Farion**, **Stephen B Freedman**, **Isabelle Gagnon**, Gerard Gioia, **Jocelyn Gravel**, Anne M Grool, Blaine Hoshizaki, Yael Kamil, **Terry Klassen**, **Candice McGahern**, William P Meehan Iii, Willem Meeuwisse, **Angelo Mikrogianakis**, **Martin H Osmond**, Lawrence Richer, Gurinder Sangha, Michael Vassilyadi, PERC Concussion Team. *J Neurotrauma.* 2019 Mar; 36(5): 679-685 <https://doi.org/10.1089/neu.2018.5792>

Predicting Wellness After Pediatric Concussion. **Miriam H. Beauchamp**, Ken Tang, **Keith Owen Yeates**, Peter Anderson, Brian L. Brooks, Michelle Keightley, Naddley Désiré, **Kathy Boutis**, **Isabelle Gagnon**, **Jocelyn Gravel**, **Alexander Sasha Dubrovsky**, **Roger Zemek** and for the 5P PERC Concussion Team. *J Int Neuropsychol Soc.* 2019 Apr;25(4):375-389. <https://www.ncbi.nlm.nih.gov/pubmed/31050335>

Relationship between enteric pathogens and acute gastroenteritis disease severity: a prospective cohort study. **J Xie**, A Nettel-Aguirre, B E Lee, L Chui, X L Pang, R Zhuo, B Parsons, O G Vanderkooi, P I Tarr, **S Ali**, J A Dickinson, **E Hagen**, L W Svenson, S E MacDonald, S J Drews, R Tellier, T Graham, M Lavoie, J MacDonald, **S B Freedman** Pediatric Emergency Research Canada (PERC) and the Alberta Provincial Pediatric Enteric Infection Team (APPETITE Team). *Clin Microbiol Infect.* 2018 Jun <https://doi.org/10.1016/j.cmi.2018.06.016>

The impact of pediatric emergency department crowding on patient and health care system outcomes: a multicentre cohort study. Quynh Doan, Hubert Wong, **Garth Meckler**, David Johnson, **Antonia Stang**, **Andrew Dixon**, **Scott Sawyer**, **Tania Principi**, **April J Kam**, Gary Joubert, **Jocelyn Gravel**, **Mona Jabbour**, Astrid Guttman, for Pediatric Emergency Research Canada. *CMAJ.* 2019 Jun; 191 (23): E627-E635 - <https://doi.org/10.1503/cmaj.181426>

The Stability of Retrospective Pre-injury Symptom Ratings Following Pediatric Concussion. Teel EF, **Zemek RL**, Tang K, Gioia G, Vaughan C, Sady M, Gagnon IJ, Pediatric Emergency Research Canada (PERC) Concussion Team. *Front Neurol.* 2019 Jul; 10: 672 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6610489/>



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PERC Publications: January 2019 - December 2019

Building Emergency Medicine Trainee Competency in Pediatric Musculoskeletal Radiograph Interpretation: A Multicenter Prospective Cohort Study. Michelle Sin Lee, Martin Pusic, Benoît Carrière, Andrew Dixon, Jennifer Stimec, Kathy Boutis. *AEM Educ Train.* 2019 Jul; 3(3): 269-279 - <https://doi.org/10.1002/aet2.10329>

Child Bicyclist Perspectives on Danger and Injury Circumstances in the Built Environment. Mairéad Whelan, Tate HubkaRao, Antonia Stang, Stephen Freedman, Alison Macpherson, Andrew Howard, Pamela Fuselli and Brent E. Hagel. *Children, Youth and Environments.* Vol. 29, No. 2 (2019), pp. 77-91. <https://www.jstor.org/stable/10.7721/chilyoutenvi.29.2.0077?seq=1>

Discharge communication practices in pediatric emergency care: a systematic review and narrative synthesis. Janet A Curran, Allyson J Gallant, Roger Zemek, Amanda S Newton, Mona Jabbour, Jill Chorney, Andrea Murphy, Lisa Hartling, Kate MacWilliams, Amy Plint, Shannon MacPhee, Andrea Bishop, Samuel G Campbell. *Syst Rev.* 2019 Apr; 8(1): 83 - <https://doi.org/10.1186/s13643-019-0995-7>

Early Subthreshold Aerobic Exercise for Sport-Related Concussion: A Randomized Clinical Trial. John J Leddy, Mohammad N Haider, Michael J Ellis, Rebekah Mannix, Scott R Darling, Michael S Freitas, Heidi N Suffoletto, Jeff Leiter, Dean M Cordingley, Barry Willer *JAMA Pediatr.* 2019 Apr; 173(4): 319-325 - <https://doi.org/10.1001/jamapediatrics.2018.4397>

External cold and vibration for pain management of children undergoing needle-related procedures in the emergency department: a randomised controlled non-inferiority trial protocol. Ariane Ballard, Christelle Khadra, Samara Adler, Evelyn D Trottier, Benoit Bailey, Naveen Poonai, Jean Thérout, Sylvie Le May. *BMJ Open.* 2019 Jan; 9(1): e023214 <https://doi.org/10.1136/bmjopen-2018-023214>

Inappropriate Antibiotic Prescribing for Acute Bronchiolitis in US Emergency Departments, 2007–2015. Jesse Papenburg, Patricia S Fontela, Raphael R Freitas, Brett Burstein. *Journal of the Pediatric Infectious Diseases Society*, Volume 8, Issue 6, December 2019, Pages 567–570. <https://doi.org/10.1093/jpids/piy131>

Innovative approaches to investigator-initiated, multicentre paediatric clinical trials in Canada. Lauren E Kelly, Lawrence Richer, Samina Ali, Amy C Plint, Naveen Poonai, Stephen B Freedman, Lisa Knisley, Carolyn Shimmmin, Serena Hickes, Geert W 't Jong, Petros Pechlivanoglou, Martin Offringa, Thierry Lacaze, Terry P Klassen. *BMJ Open.* 2019 Jun; 9(6): e029024. <https://doi.org/10.1136/bmjopen-2019-029024>

Managing pain and distress in children undergoing brief diagnostic and therapeutic procedures. E DTrottier, MJ Dore Bergeron, L Chauvin-Kimoff, K Baerg, S Ali for CPS ACC committee. *Paed Child Health* Volume 24, Issue 8, December 2019, Pages 509–521, online Nov 2019 <https://www.cps.ca/en/documents/position/managing-pain-and-distress> with podcast: <https://www.pedscases.com/managing-pain-and-distress-children-undergoing-brief-diagnostic-and-therapeutic-procedures-cps>



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Oral Ondansetron Administration to Dehydrated Children in Pakistan: A Randomized Clinical Trial Stephen B. Freedman, Sajid B. Soofi, Andrew R. Willan, Sarah Williamson-Urquhart, Emaduddin Siddiqui, Jianling Xie, Fady Dawoud and Zulfiqar A. Bhutta. *Pediatrics* November 2019, e20192161; DOI: <https://doi.org/10.1542/peds.2019-2161>

Performance of Stool Testing Recommendations for Acute Gastroenteritis when Used to Identify Children with Nine Potential Bacterial Enteropathogens. Gillian A M Tarr, Linda Chui, Bonita E Lee, Xiao-Li Pang, Samina Ali, Alberto Nettel-Aguirre, Otto G Vanderkooi, Byron M Berenger, James Dickinson, Phillip I Tarr, Steven Drews, Judy MacDonald, Kelly Kim, Stephen B Freedman. *Clin Infect Dis.* 2018 Dec - <https://doi.org/10.1093/cid/ciy1021>

Practice Patterns in Pharmacological and Non-Pharmacological Therapies for Children with Mild Traumatic Brain Injury: A Survey of 15 Canadian and United States Centers. Rebekah Mannix, Roger Zemek, Keith Owen Yeates, Kristy Arbogast, Shireen Atabaki, Mohammed Badawy, Miriam H Beauchamp, Darcy Beer, Steven Bin, Brett Burstein, William Craig, Dan Corwin, Quynh Doan, Michael Ellis, Stephen B Freedman, Isabelle Gagnon, Jocelyn Gravel, John Leddy, Angela Lumba-Brown, Christina Master, Andrew R Mayer, Grace Park, Michelle Penque, Tara Rhine, Kelly Russell, Kathryn Schneider, Michael Bell, Stephen Wisniewski. *J Neurotrauma.* 2019 Jun - <https://doi.org/10.1089/neu.2018.6290>

Predictors of intravenous rehydration in children with acute gastroenteritis in the United States and Canada. Naveen Poonai, Elizabeth C Powell, David Schnadower, Charlie Casper, Cindy Roskind, Cody Olsen, Philip Tarr, Prashant Mahajan, Alexander J Rogers, Suzanne Schuh, Katrina Hurley, Serge Gouin, Cheryl Vance, Ken Farion, Robert E Sapien, Karen J O'Connell, Adam C Levine, Seema Bhatt, Stephen B Freedman. *Paediatrics & Child Health*, Volume 24, Issue Supplement_2, June 2019, Page e45, <https://doi.org/10.1093/pch/pxz066.117>

Psychological Resilience as a Predictor of Symptom Severity in Adolescents with Poor Recovery Following Concussion. Christianne Laliberté Durish, Keith Owen Yeates, Brian L Brooks. *J Int Neuropsychol Soc.* 2019 May; 25(4): 346-354. <https://doi.org/10.1017/S1355617718001169>

The built environment and active transportation safety in children and youth: a study protocol. Brent E Hagel, Alison Macpherson, Andrew Howard, Pamela Fuselli, Marie-Soleil Cloutier, Meghan Winters, Sarah A Richmond, Linda Rothman, Kathy Belton, Ron Buliung, Carolyn A Emery, Guy Faulkner, Jacqueline Kennedy, Tracey Ma, Colin Macarthur, Gavin R McCormack, Greg Morrow, Alberto Nettel-Aguirre, Liz Owens, Ian Pike, Kelly Russell, Juan Torres, Donald Voaklander, Tania Embree, Tate Hubka. *BMC Public Health.* 2019 Jun; 19(1): 728 - <https://doi.org/10.1186/s12889-019-7024-6>



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Funding & Grants: January 2019 - December 2019

Alberta Innovates PRIHS grant

Dr. Amanda Newton (University of Alberta) and an Alberta-wide research team have received an Alberta Innovates PRIHS grant to introduce an innovative model of acute pediatric mental health and addictions care to the province. The team (who includes PERC Chair **Dr. Stephen Freedman**) has a care model which will introduce triage tools for healthcare providers and new services and processes to improve healthcare system efficiencies, navigation and transitions.

Banting Postdoctoral Fellowship

Congratulations to PERC member **Dr. Gillian Tarr** who has earned a prestigious Banting Postdoctoral Fellowship to fund research into developing an algorithm to identify causes of vomiting and diarrhea in kids. University of Calgary postdoctoral scholar Gillian Tarr has earned a prestigious Banting Postdoctoral Fellowship to fund research that could lead to a new smartphone app to help identify children with important gastrointestinal pathogens. Dr. Tarr, PhD, is one of three UCalgary postdoctoral scholars to receive a Banting fellowship this year. By the end of her two-year Banting fellowship, Tarr hopes to develop an algorithm that can help doctors better determine which children to test for bacterial illnesses such as E. coli, salmonella, and shigella, along with potentially some viruses such as norovirus. <https://news.ucalgary.ca/news/researcher-develops-algorithm-identify-causes-vomiting-and-diarrhea-kids-0>

McGill Interdisciplinary Initiative in Infection and Immunity 2019 Pediatric Seed Grant Competition

PERC member, **Dr. Jesse Papenburg**, was awarded the MI4 Pediatric Seed Fund Grant on behalf of the Montreal Children's Hospital and the CHU Ste-Justine Research Centre. The funds are to prepare for his study titled "*Integrating host responses and pathogen detection to improve diagnosis of community-acquired bacterial pneumonia in hospitalized children*". Congratulations on having put together this excellent proposal.

National Institutes of Health Award

Dr. Stephen Freedman has been awarded a National Institutes of Health (NIH) Clinical Trial Planning Grant for \$222,699. The funds are to prepare for a multinational clinical trial that will evaluate a therapy for STEC infected children with the goal of preventing the need for dialysis and other adverse outcomes. The grant is titled "Volume Expansion in Children with Shiga Toxin-Producing E. coli Infection to Prevent or Mitigate Hemolytic Uremic Syndrome: Planning a Multinational Randomized Clinical Trial".



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Norman Saunders Complex Care Initiative

An endowment fund was established by friends and family of the late Dr. Norman Saunders to recognize his contributions to the care of children and their families in his primary care paediatric office as well as at The Hospital for Sick Children (SickKids) throughout his distinguished career. The purpose of this endowment, known as the Norman Saunders Complex Care Initiative (NSCCI) was to stimulate and support research and academic discovery related to the clinical care of children with multiple and complex health challenges. PERC members **Dr. Nathalie Orr Gaucher** and **Dr. Anne-Josée Côté** were successful in their funding application for their study ***"Patient-reported experiences and outcomes for the care of children with medical complexity and palliative care needs in the ED"***. (Co-investigators were **S Ali, G Thompson**, N Kleiber, MF Langlet, A Descoteaux, MA Marquis, A Payot, CJ Bourque, MJ Doré-Bergeron). [CHU Sainte-Justine, Université de Montréal and Alberta Children's Hospital, University of Calgary]. <http://www.sickkids.ca/PaediatricMedicine/Research-activities/Norman-Saunders-Complex-Care-Initiative/index.html>



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PERC INVESTIGATORS IN THE NEWS AND MEDIA: January 2019 - December 2019

PERC Vice-Chair **Roger Zemek** was an expert witness at the Parliamentary subcommittee on concussion where he mentioned PERC & our successful studies. Congratulations on the huge honour of presenting to such a distinguished audience. Skip to 18:38 to watch - <https://bit.ly/32bFb9s>

PERC Vice-Chair **Roger Zemek** was featured in the Ottawa Citizen on September 11th 2019 to discuss the "living guideline" to help prevent, recognize and treat concussions in children and youth. The living guideline for pediatric concussion is the first of its kind in the world. It will be maintained and developed through a continuous process of review, evaluation and revision of research by a group of more than 50 physicians, nurses, diagnosticians and rehabilitation specialists who will be combing through scientific papers from around the world and deciding whether new information warrants being included. <https://ottawacitizen.com/health/family-child/cheo-emergency-room-physician-spearheads-living-guideline-for-concussion>

The Canadian Academy of Health Sciences (CAHS) has recognized five UCalgary faculty members for their positive impact on the urgent health concerns of Canadians. **Dr. Keith Yeates** was one of five who was inducted into the academy on Sept. 19, 2019. CAHS fellows advise the public and private sectors on complex health challenges, providing strategic and actionable solutions to help inform public policy. They do so through interdisciplinary and evidence-based assessments. "As leaders in their field, and now fellows in the Canadian Academy of Health Sciences, these five scholars are making tremendous progress in how we address Canadians' most pressing health concerns," says Andre Buret, interim vice-president (research). "This honour will expand the reach of their research as they offer their expertise on matters of critical importance." <https://ucalgary.ca/news/five-accomplished-scientists-recognized-their-achievements-confronting-complex-health-challenges>

PERC member, **Dr. Brett Burstein**, made Canadian and US news several times during 2019 for his report on "Inappropriate Antibiotic Prescribing for Acute Bronchiolitis in US Emergency Departments, 2007-2015." Links here: <https://www.cbc.ca/news/canada/montreal/montreal-hospitals-practise-code-orange-simulating-catastrophe-1.4869265> and <https://www.aappublications.org/news/2019/03/13/bronchiolitis031319>. The second for "Suicidal Attempts and Ideation Among Children and Adolescents in US Emergency Departments, 2007-2015." was also well received in both US and Canadian Headlines (over 50 interviews) including CNN, Fox, Huffington Post, US News and World Reports, USA Today, CTV, National Post, Radio Canada, and made JAMA Pediatrics top 5 articles of the year. Links here: <https://www.ctvnews.ca/video?clipId=1658332> and <https://www.cnn.com/2019/04/08/health/child-teen-suicide-er-study/index.html>



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AWARDS: January 2019 - December 2019

Dr. Brett Burstein - FRS-Q application submitted in October 2018 and his application was very favourably reviewed. He was granted the Chercheurs Boursiers Cliniciens Junior 1 (Clinical Research Scholar) Award, with an overall 3rd place rank (of 31 evaluated).

Congratulations to **Dr. Keith Yeates**, PhD, inducted into the prestigious Canadian Academy of Health Sciences. It is one of the highest honours within Canada's academic community to become a Fellow. A world-leading researcher in the field of pediatric traumatic brain injury (TBI), Yeates is the most published author on childhood TBI and concussion in the world over the past decade. Through outstanding mentorship and leadership nationally and internationally, he has advanced the science and practice of neuropsychology, and helped to improve outcomes for children and families dealing with the challenge of TBI. Yeates leads the Integrated Concussion Research Program at the University of Calgary, supported by community donations through the Alberta Children's Hospital Foundation.

American Academy of Pediatrics (AAP) has recognized **Dr. Jennifer Thull-Freedman**, MD, for her leadership of the Alberta Emergency Department Commitment to Comfort Collaborative. She and her collaborator **Dr. Antonia Stang**, MD, were awarded the Best QI Presentation award from the Section of Emergency Medicine. The Commitment to Comfort is a program designed to reduce pain and distress experienced by children during emergency department visits. It has been extended to 50 Alberta emergency departments. For children with a fracture, this has meant the median time to receive a pain medication decreased from 60 minutes to 28 minutes. For young children receiving blood work, the proportion receiving topical anesthetic increased from 11 percent to 30 percent. This research is in part supported by the Vi Riddell Children's Pain and Rehabilitation Program.

PERC Executive board member, **Dr. Naveen Poonai**, received an Early Research Award of \$190,000 from the Ontario Ministry of Economic Development, Job Creation and Trade Research, Science and Commercialization (2019-2023). The Early Researcher Award program helps promising, recently appointed Ontario researchers build their research teams. The goal of the program is to improve Ontario's ability to attract and retain the best and brightest research talent.

Do you have publications, grants, awards or PERC news you would like included in the PERC 2020 update? Email the PERC Coordinator Becky Emerton via rebecca.emerton@ahs.ca