

ANNUAL ACHIEVEMENTS REPORT



OFFICE OF PEDIATRIC SURGICAL
EVALUATION AND INNOVATION





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WELCOME MESSAGE

Dear Colleagues,

We are pleased to share with you the OPSEI Annual Achievements Report for the years 2018-2019 and 2019-2020. In this report, you will see the contributions of departmental members organized by each division and department. This report highlights teaching, research, leadership, patient advocacy, and honours and awards of our faculty. As you will read, the areas of clinical research are quite diverse in Pediatric Surgery but they share one common feature – to improve and advance the care of children in need of high-quality, timely access to surgery. Please join us in celebrating the contributions of our caring and committed team of Pediatric Surgeons at BC Children's Hospital.

We would also like to graciously acknowledge the generous support of our donors to BC Children's Hospital Foundation. With your support, we are able to continue research, train a pediatric surgical workforce, and advocate for the surgical care of children in BC, Canada, and globally.

Yours sincerely,

Damian J. Duffy
Executive Director, OPSEI
BC Children's Hospital
University of British Columbia

Dr. Erik Skarsgard
Chief of Pediatric Surgery
BC Children's Hospital
University of British Columbia



MIRACLE WEEKEND IN DECEMBER



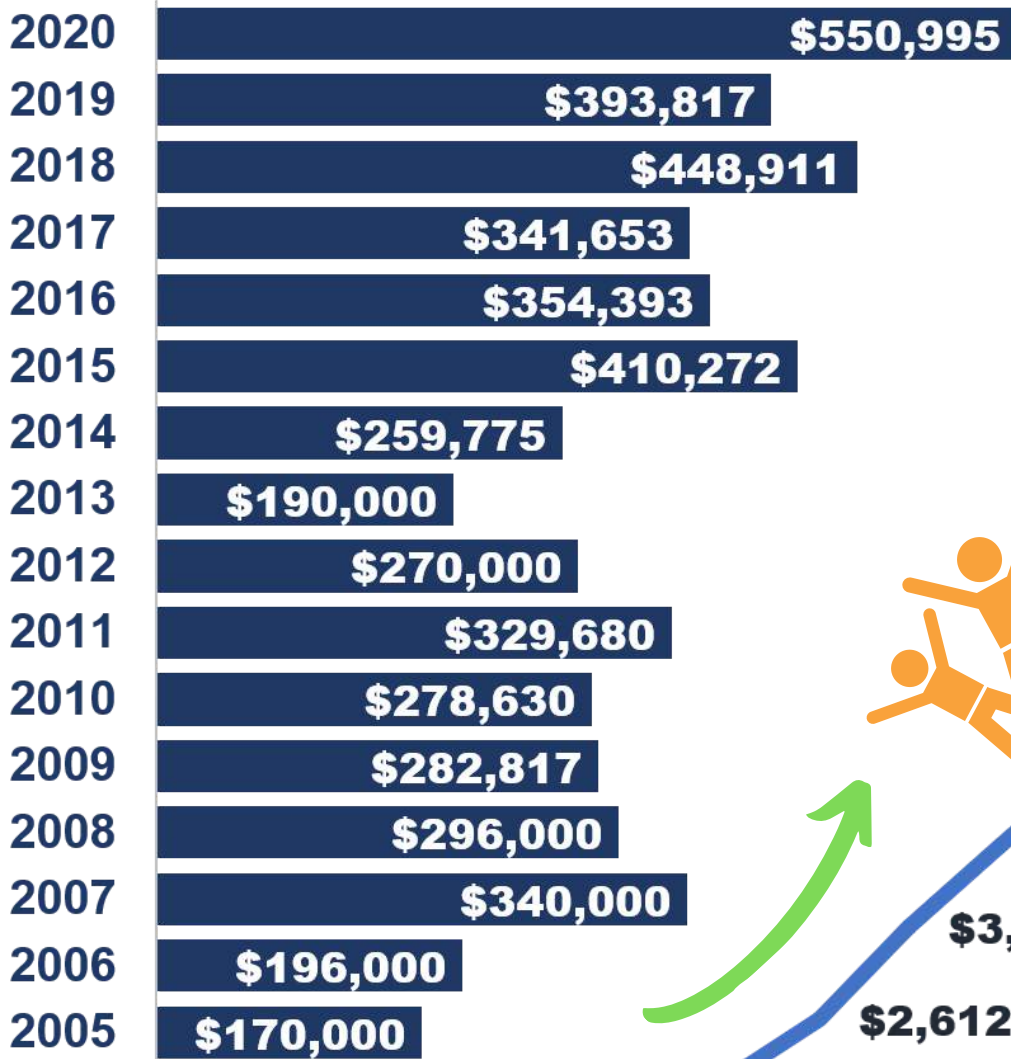
We held the “Miracle Weekend in December” with Dr. Jugpal Arneja, Associate Chief of Pediatric Surgery who presented the team donation from the Departments of Pediatric Anesthesia, Pediatric Dentistry, and Pediatric Surgery. Warmest thanks and gratitude to our Surgical Team for your unfailing support and generosity to BC Children's Hospital Foundation. This cheque represents our largest team donation ever from the Surgical Team for a grand total of \$5,112,943 over 15 years.

CELEBRATING LEADERSHIP - DEPARTMENT OF PEDIATRIC SURGERY, BC CHILDREN'S HOSPITAL

Dr. Kourosh Afshar, President, Canadian Academy of Urological Surgeons
Dr. Jugpal Arneja, Vice Chair, American Society of Pediatric Plastic Surgery
Dr. Jugpal Arneja, Vice Chair, American Academy of Pediatrics Section of Plastic Surgery
Dr. Geoffrey Blair, Director, Undergraduate Surgical Education, UBC
Dr. Sonia Butterworth, Assistant Dean, Postgraduate Medical Education, UBC
Dr. Sonia Butterworth, Chair, Publications Committee, Canadian Association of Pediatric Surgeons
Dr. Anthony Cooper, Chair, Canadian Pediatric Orthopedic Trauma Course
Mr. Damian Duffy, Cabinet Member, United Way of the Lower Mainland
Mr. Damian Duffy, Board Member, Health for Humanity
Dr. Jane Gardiner, Director of Undergraduate Medical Education, Dept of Ophthalmology and Vision Science, UBC Faculty of Medicine
Dr. Jane Gardiner, Examiner, Royal College of Physicians and Surgeons of Canada
Dr. Jane Gardiner, Member, Executive Committee, Royal College of Physicians and Surgeons of Canada
Dr. Debbie Giaschi, Coordinator, NSERC Undergraduate Student Research Awards, UBC Faculty of Medicine
Dr. Frederick Kozak, Past President, Canadian Society of Otolaryngology-Head and Neck Surgery
Dr. Andrew MacNeily, President, Canadian Urological Association
Dr. Andrew MacNeily, Chair, AFC Diploma Committee for Pediatric Urology, Royal College of Physicians and Surgeons of Canada
Dr. Andrew MacNeily, Vice Chair, Department of Urologic Sciences, UBC
Dr. Patrick McDonald, President, Canadian Neurosurgical Society
Dr. Patrick McDonald, Chair- Ethics Committee, Royal College of Physicians and Surgeons of Canada
Dr. Conor Mulholland, Chair, Professional Standards, the Canadian Orthoptic Council
Dr. Kishore Mulpuri, President, the Canadian Orthopaedic Association
Dr. Kishore Mulpuri, Head, Department of Orthopedics, University of British Columbia
Dr. Ash Singhal, Chair – Surgical Foundations Examination, Royal College of Physicians and Surgeons
Dr. Ash Singhal, Chair, (Canada) Communications Committee, International Society of Pediatric Neurosurgery
Dr. Erik Skarsgard, Past President, Canadian Association of Pediatric Surgeons (finishing 2020)
Dr. Erik Skarsgard, Chair, Advisory Board for the Institute of Human Development, Child and Youth Health, CIHR (2019)
Dr. Erik Skarsgard, Chair, Advisory Council for Pediatric Surgery (American College of Surgeons) (2018)
Dr. Erik Skarsgard, Governor of the American Pediatric Surgical Association (2018)
Dr. Paul Steinbok, Principal investigator, Multicenter Study of Calvarial Langerhans Cell Histiocytosis
Dr. Sonia Yeung, Director, Cornea Service, UBC Dept of Ophthalmology and Visual Sciences.
Dr. Sonia Yeung, Medical Director, Eyebank of BC
Dr. Sonia Yeung, Editor, Cornea Section, Canadian Journal of Ophthalmology
Dr. Vivian Yin, Vice Chair, Board of Directors SEVA 2017-2018, Acting Chair 2018-2019
Dr. Vivian Yin, Chair, Canadian Association for Public Health and Global Ophthalmology, Canadian Ophthalmology Society
Dr. Vivian Yin, Region 1 Representative, Specialty Committee in Ophthalmology, Royal College of Physician and Surgeons 2019 - present
Dr. Vivian Yin, Annual Meeting Planning Committee. Canadian Ophthalmology Society 2017-present
Dr. Vivian Yin, Board of Directors, Vancouver Physician Staff Association/VMDAS 2019 - present

BREAKDOWN OF DONATIONS

Amount Raised Per Year

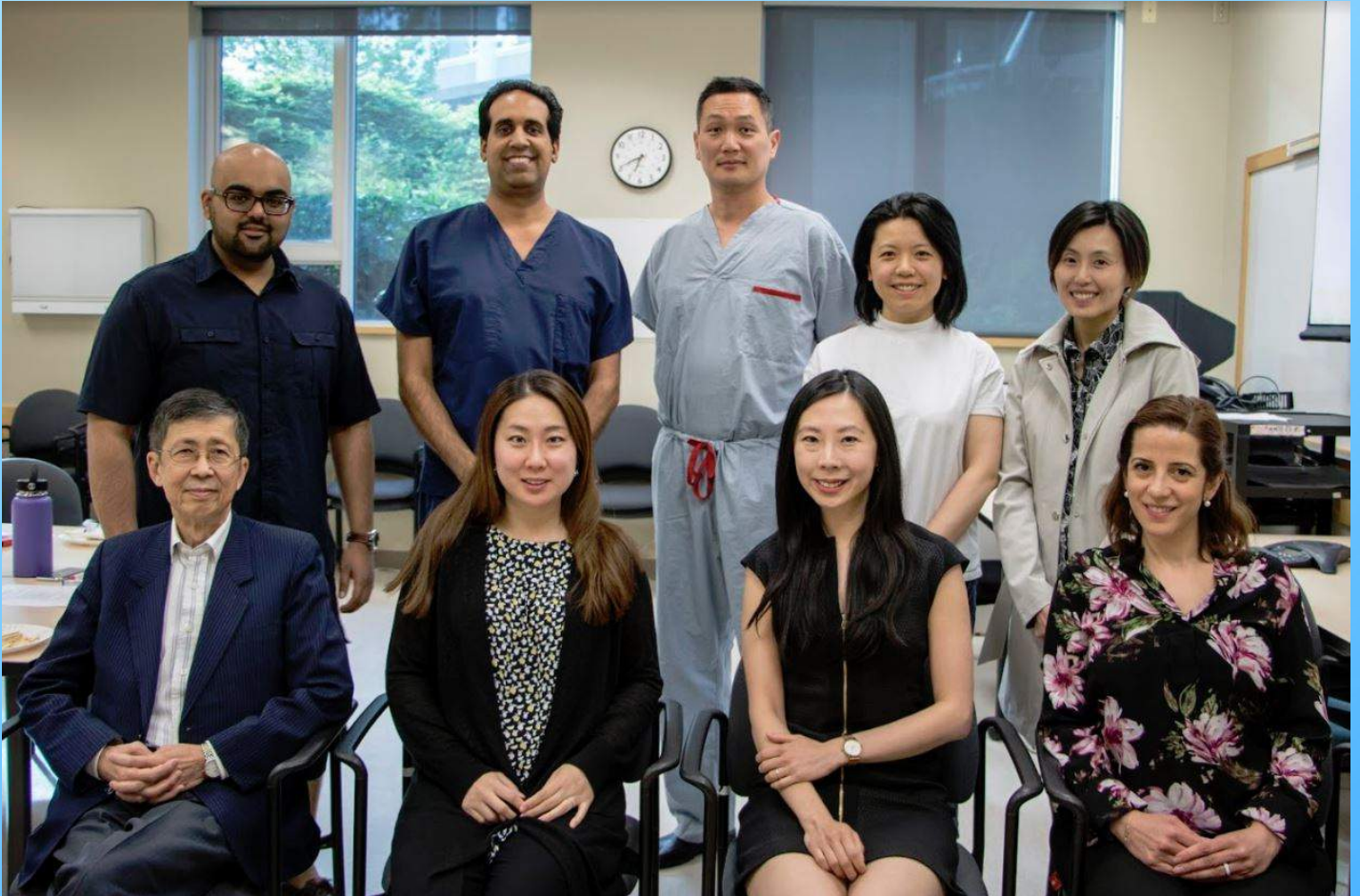


Cumulative Amount Raised Over Time

2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

DIVISION OF PEDIATRIC DENTISTRY

2018-2020



FACULTY MEMBERS

2018-2020

PEDIATRIC DENTISTS (CORE)



Dr. Jennifer Park
Dept. Head



Dr. Washam Cheung



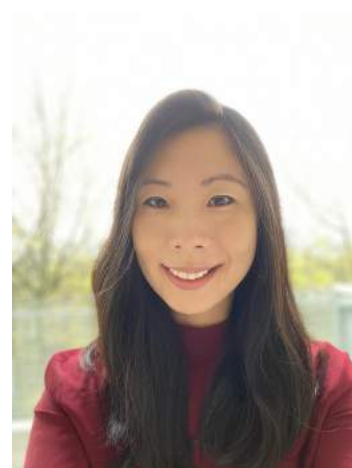
Dr. Joy Richman



Dr. Phoebe Tsang



Dr. Serena Kassam



Dr. Shan Sun

FACULTY MEMBERS

2018-2020

PEDIATRIC DENTISTS (CORE)



Dr. Fran Rhee



Dr. Winnie Zhao



Dr. Randa Soussou



Dr. Kunal Chander



Dr. Amy Bellamy

FACULTY MEMBERS

2018-2020

ORAL MAXILLOFACIAL SURGEONS



Dr. Raymon Grewal



Dr. Ben Kang



Dr. Jason Choi



Dr. Graham Grabowski

**Dr. Chris
Olynik**

FACULTY MEMBERS

2018-2020

CONSULTANTS

Dr. Mark Casafrancisco (pediatric dentist)

Dr. Peter Chan (pediatric dentist)

Dr. Elsa Hui-Derksen (pediatric dentist)

Dr. Jennifer Yee (pediatric dentist)

Dr. Jonathan Hung (pediatric dentist)

Dr. Anu Korada (pediatric dentist)

Dr. Angie Loo (orthodontist)

Dr. Travis Gibson (orthodontist)

Dr. Paul Pocock (orthodontist)

Dr. Paul Helpard (orthodontist)

Dr. Dorothy Sonya (orthodontist)

Dr. Nathan Cain (prosthodontist)

Dr. Priscilla Walsh (periodontist)

Dr. Ahmed Hieawy (endodontist)

Dr. David MacDonald (oral radiologist)

Dr. Rosamund Harrison (scientific & research)

Dr. Kavita Mathu-Muju (scientific & research)

STAFF MEMBERS

2018-2020

CERTIFIED DENTAL ASSISTANTS

Pat Coons (team lead)

Sherry Dexter

Cindy Singh

Benny Orilido-Acosta

Alice Mak

Pam Johal

Christy Lam

CLERICAL

Ella Wierzbicki

Gina Erwin

Ronnie Feng

PAST/CURRENT TRAINEES IN PEDIATRIC DENTISTRY

Class of 2018: Don He, Charis Luk, Randa Soussou, Al Abushanan

Class of 2019: Bryan Wong, Cara Yu, Mina Al-mosawi

Class of 2020: Carol Lui, Pauline Lee, Jassica Sarai, Zachary Wong

Class of 2021: Jessica Tam, Zahra Samji, Erika Ridgway, Jaspal Rajput (DSATP)

Class of 2022: Mandeep Gill, Michelle Li

TEACHING & ACHIEVEMENTS 2018-2020

DR. JENNIFER PARK

New Chief of Dentistry, June 2019

DR. JOY RICHMAN

Interim director of graduate program in pediatric dentistry 2018, Director of the grad program in 2019

Fellow, Royal College of Dentists Canada, 2019

Fellow, Canadian Academy of Health Sciences, 2020

CADR-ACFD National Dental Research Award for 2020

DR. WASHAM CHEUNG

Interim Chief of Dentistry, Sept 2018-2019

Promotion to Clinical Professor, UBC Dentistry

Graduate Student	Thesis Title for MSc in Craniofacial Science	Year	Supervisor(s) & Committee Members
Don He	<i>Craniofacial morphological changes in neonates using continuous and bilevel positive airway pressure</i>	2018	Ben Pliska (supervisor) Committee members: Fernanda Almeida, N. Chadha
Charis Luk	<i>Effect of preoperative intervention in reducing the parent and child's anxiety for oral sedation</i>	2018	Kavita Mathu-Muju (supervisor) Committee members: Rosamund Harrison, Shan Sun
Randa Soussou	<i>Waiting-room based dental health promotion for caregivers at UBC</i>	2018	Jolanta Aleksejuniene Committee members: Rosamund Harrison, Kavita Mathu-Muju
Cara Yu	<i>Positive secular changes in dental maturation over a 30-year period in British Columbian children</i>	2019	Joy Richman Committee members: Hugo Cardoso, David Kennedy
Bryan Wong	<i>Evaluating the success rate of Biodentin as a pulpotomy medicament</i>	2019	Kavita Mathu-Muju Committee members: Jeffery Coil, Mark Casafrancisco
Mina Al-Mosawi	<i>Authoritative parenting model for improving oral self-care skills in orthodontic patients</i>	2019	Jolanta Aleksejuniene Committee members: David Kennedy, Leeann Donnelly
Carol Lui	<i>Dental and craniofacial findings in prematurely born children with non-invasive ventilation: a pilot study</i>	2020	Ben Pliska Committee members: Neil Chadha, Fernanda Almeida
Zachary Wong	<i>Three-dimensional facial morphology and the use of non-invasive ventilation in infants</i>	2020	Ben Pliska Committee members: Neil Chadha, Siddarth Vora
Jessica Sarai	<i>Space maintenance treatment planning for pediatric patients</i>	2020	Jolanta Aleksejuniene Committee members: David Kennedy, Shan Sun
Pauline Lee	<i>A retrospective study of the population served by the Children's Dental Program at the UBC Faculty of Dentistry</i>	2020	Jolanta Aleksejuniene Committee members: Leeann Donnelly, Anu Korada
Kywana Bonaparte	<i>Dishevelled function during chondrocyte differentiation</i>	Since 2019	Joy Richman Committee members: Mark Cembrowski, Tim O'Conner

TEACHING ACTIVITIES

2018-2020

Graduate Student	Thesis Title for PhD	Year	Supervisor(s) & Committee Members
Sarah Gignac	<i>The role of non-canonical WNT signalling in limb development</i>	2019	Joy Richman Committee members: Michael Underhill, Janel Kopp, Tim O'Conner
Adrian Danescu	<i>Organized cell movement is a major mechanism underlying facial morphogenesis</i>	2019	Joy Richman Committee members: Calvin Roskelly, Pamela Hoodless, Clive Roberts
Joaquin Henriquez	<i>Timed tooth resorption during life-long tooth replacement in the gecko</i>	Since 2018	Joy Richman Committee members: Siddarth Vora, Tim O'Conner, Dieter Bromme
Shruti Tophkane	<i>Analysis of Frizzled 2 variants that cause Robinow Syndrome</i>	Since 2019	Joy Richman Committee members: Cathy Van Raamsdonk, Chris Loewen, Siddarth Vora
Isra Ibrahim	<i>Molecular mechanisms of lip fusion</i>	Since 2020	Joy Richman Committee members: Mary MacDougall, Siddarth Vora, Karla Williams

Other Students Supervised

Supervisor	Student Name/Type
Joy Richman	Rodolfo Martin del Campo, PDF since 2020
Joy Richman	Kirstin Brink, Killam and Banting PDF from 2015-2019

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2020

PRESENTATIONS

Richman, J.M., Vora, S. and Diewert, V.M.. Diving into the Marianas Trench of human craniofacial development: Using 3D imaging to explore growth of the head in the middle trimester. Presented at CEITEC, Brno, Czech Republic. February 20, 2018.

Richman, J.M.*, Grieco, T.M. and Brink, K. Rebooting the Zahnreihen: Analysis of the Jaw-wide Patterning cues in the Adult Gecko Dentition. American Association of Anatomists meeting San Diego, April 2018.

Richman, J.M., Danescu, A., Rens, E., Fu, K., Woo, J., Keshet, L. Cellular and Physiological Sciences Department Seminar, "Working at the interface of biology and mathematical modeling to understand cell behaviour in the face". October 18, 2018.

Dr. Randa Soussou - CAPD Annual Meeting – "Waiting room time: An opportunity for caregiver oral health education" (2018).

Dr. WS. Cheung - Keynote speaker for the Annual Pediatric Endowed Lecture at the University of Alberta – "Oral pathology in pediatric patients" (2018).

Dr. Graham Grabowski – Orthognathic Surgery & Alveolar Cleft Bone Grafting lectures to UBC grad orthodontic students (2018, 2020).

Dr. Graham Grabowski – Pre-prosthetic Surgery lecture to UBC undergraduate dentistry students (2018, 2019).

Dr. Graham Grabowski – Pacific Dental Conference – "Cannabis and Dentistry" (2018).

Dr. Jennifer Park – Behavior Guidance seminar series to UBC grad pediatric dentistry students (2018).

Dr. Jennifer Park – Pediatric Medicine and Hospital Dentistry seminar series to UBC grad pediatric dentistry students (2019).

Dr. Randa Soussou – Oral presentation: BCCH Dept. of Hematology/Oncology - "Dental Considerations for the Oncology patient" (2019).

Richman, J.M., Danescu, A., Rens, E., Woo, J., Keshet, L. Pacific Institute of Mathematical Sciences Seminar series. "Organized cell movement is a major mechanism underlying facial morphogenesis". February 6, 2019.

Richman, J.M., Gignac, S.J. and Verheyen, E. Meeting of the Mexican Division of the IADR, "Using chickens and flies to understand human gene mutations". May 27-29, 2019. Cancun Mexico

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

Richman, J.M., Gignac, S.J. and Verheyen, E. The wing(less) project – analysis of humanized chickens and flies expressing syndromic gene variants Atlantic Regional Developmental Biology meeting, Halifax, June 7, 2019.

Richman, J.M., Brink, K., Henriquez, J. and Grieco, T.M. “Natural Ankylosis is Compatible with Polyphyodonty in Reptiles”. Meeting of the International Association of Dental Research, June 19, Vancouver. Symposium organizer.

Richman, J.M., Brink, K., Henriquez, J. and Grieco, T.M. “Probing the secrets of polyphyodonty in adult geckos”. 13th Tooth Morphogenesis and Development meeting, September 1-6, 2019 Oxford.

Dr. Graham Grabowski; Dr. Angie Loo – Pacific Dental Conference – “A Cleft Patient’s Journey” (2020).

Dr. Serena Kassam – Behavior Guidance seminar series to UBC grad pediatric dentistry students (2020).

Dr. Serena Kassam – Pediatric Medicine and Hospital Dentistry seminar series to UBC grad pediatric dentistry students (2020).

Dr. Serena Kassam – New York University College of Dentistry Bi-monthly Cleft and Craniofacial lecture series to pediatric dentistry residents (2020).

Dr. Serena Kassam – 3rd International Comprehensive Cleft Care Workshop: Surgical, Dental, Speech, Pathology, Psychosocial, Global Smile Foundation - “Pediatric Dental Care in the Management of Patients with Cleft” & “NasoAlveolar (NAM) 8 year follow up in an Outreach Setting” (2020).

Dr. Serena Kassam – CSDH – Cleft Lip and Palate Management webinar (2020).

Dr. Serena Kassam – ACPA – World Cleft Coalition: Creating International Treatment Guidelines webinar (2020).

Dr. Serena Kassam – Oral presentation - American Academy of Developmental Medicine & Dentistry (AADMD) 2020 Virtual Conference *Implementation of a Didactic course and Clinic for Cleft and Craniofacial Conditions in NYUCD’s Advanced Education Program in Pediatric Dentistry*, Bieke L. Kreps DDS, Serena Kassam DMD, Linda Rosenberg DDS, Amr M Moursi, DDS, PhD, June 11, 2020.

Dr. Serena Kassam - International Association of Paediatric Dentistry 2020 Virtual Meeting, *Implementing a Course and Clinic for Cleft and Craniofacial Conditions in NYU College of Dentistry’s Advanced Education Program in Pediatric Dentistry*, Bieke L. Kreps DDS, Serena Kassam DMD, Linda Rosenberg DDS, Amr M Moursi, DDS, PhD. Sept 13-17, 2020 (Submitted).

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2020

Richman, J.M. Gignac, S.G., Verheyen, E. Triangulation of data from two model organisms explains the impact of human WNT pathway mutations on development". Society for Craniofacial Genetics & Developmental Biology, 43rd Annual Meeting, October 19-20th, 2020. Virtual Meeting.

FUNDING

GRANTING AGENCY	TITLE	\$ PER YEAR	YEAR	PRINCIPLE INVESTIGATOR & CO-INVESTIGATORS
National Institute of Health, NIDCR R21 Exploratory Grant Program	Development of the leopard gecko as a model to study in vivo tooth replacement	\$375,500/yr for 2 years	2017-2019 2 yr no cost extension to 2021	Joy Richman
Canadian Institutes of Health Research (CIHR)	Discovery of novel WNT signaling mechanisms from the study of human genetic disease in two animal models	\$163,900/yr for 5 years	2019-2024	Joy Richman Co I: Esther Verheyen
UBC Research Excellence Cluster	Harnessing the Social Exposome to Reduce Inequalities in Child Health and Development in Canada	\$200,000 over 2 years	2020-2022	Michael Kobor Co-Is: Dominique Weis Ben Pliska Kiran Soma Tao Huan Joy Richman

COMMITTEE PARTICIPATION

2018-2020

Name	Committee
Dr. Serena Kassam	ACPA Pediatric Dentistry Discipline Forum, Co-chair (2020)
Dr. Phoebe Tsang	BCDA "Save a Smile" Committee (2016-present)
Dr. Shan Sun	National Dental Examination Board - Written and OSCE Questionnaire Development Committee (2018-2020)
Dr. Joy Richman	International Association for Dental Research Board, Member (2017-2020) CIHR Developmental Biology, Panel Member (2020-2022) Associate Editor for Journal of Dental Research (Biological and Pediatric Dentistry papers) (2010-present)

PUBLICATION RECORDS

2018-2019

Soussou R, Cheung WS, Campbell, KM. Congenital Insensitivity to Pain with Anhidrosis: A Case with Self-Inflicted Oral Ulcerations. *J Dent Child* 2019; 86(2):109-112.

Luk CYK, Fu E, Mathu-Muju KR. The effect of an audiovisual preoperative intervention in reducing parental anxiety prior to a child's sedation appointment: A pilot study. *Pediatr Dent* 2019; 41(2):112-118.

Wong, BJW, Cheung WS, Campbell, KM. Congenital epulides --- Spontaneous regression. *J Pediatr* 2019; 205:287-287.e1.

Wong, BJW, Cheung WS, Campbell, KM. Aphthous stomatitis major in a 4-month-old infant. *J Emerg Med* 2018; 55(6):e157-e158.

Serena N. Kassam DMD, Jamie Perry PhD, Gareth Davies BA, Nan Hudson, Erin Steiber, Ruben Ayala MD, Usama S Hamdan MD, FICS. "World Cleft Coalition International Treatment Standards." *Cleft Palate Craniofacial Journal*. 2020 Oct; 57 (10): 1171-1181 Epub 2020 June 23.

Grieco, T. and Richman, J.M. (2018). Coordination of bilateral tooth replacement in the juvenile gecko is continuous with in ovo patterning. *Evolution and Development*. 20(2):51-64.

Richman, J. M., 2019. Shedding new light on the mysteries of tooth eruption. *Proc Natl Acad Sci U S A*. 116, 353-355. Commentary

Richman, J. M., 2019. Shedding new light on the mysteries of tooth eruption. *Proc Natl Acad Sci U S A*. 116, 353-355. Commentary

Fons JM, Gaete M, Zahradnicek O, Landova M, Bandali H, Khan Noon ER, Richman JM, Buchtova M, Tucker AS, 2019. Getting out of an egg: Merging of tooth germs to create an egg tooth in the snake. *Dev. Dyn*. DOI:10.1002/dvdy.120

Brink, K. S., Chuong, C. M., Wu, P. and Richman, J. (2020). Effects of Premature Tooth Extraction on Tooth Replacement Rates in *Iguana iguana*. *Integrative and Comparative Biology* 60, E24-E24.

Danescu, A., Rens, L., Rekhi, J., Woo, J., Akazawa, T., Fu, K., Edelstein-Keshet, L. and Richman, J. M. (2020). Symmetry and coordination of cell movements in neural crest-derived facial mesenchyme. *Development Under revision*.

Brink, K. S., Grieco, T. M., Henriquez, J., Martin del Campo, J. R., Fu, K. and Richman, J. M. (2020). Tooth removal in the leopard gecko and the de novo formation of replacement teeth. *Frontiers in Physiology Under revision*.

Dr. Graham Grabowski – Publication of Textbook Chapters: Aesthetic Orthognathic Surgery and Rhinoplasty - May 21, 2019.

-Chapter 1 Introduction to Aesthetic Orthognathic Surgery and Rhinoplasty

-Chapter 2 Assessment and Evaluation in the Aesthetic Orthognathic Patient

DIVISION OF PEDIATRIC OPHTHALMOLOGY

2018-2019



FACULTY MEMBERS ON-SITE

2018-2019



Dr. Maryam
Aroichane



Dr. Conor
Mulholland



Dr. Jane
Gardiner -
Interim
Department
Head



Dr. Christopher
Lyons

FACULTY MEMBERS OFF-SITE

2018-2019

- Dr. David Albiani
- Dr Roy Cline
- Dr. T. Alan Demco
- Dr. Peter Dolman (Oculoplastics)
- Dr Ross Kennedy
- Dr. Ashley Ko

- Dr. Patrick Ma (Retina)
- Dr. Andrew Merkur (Retina)
- Dr. Katherine Paton (Ocular Oncology)
- Dr. Megan Rees
- Dr. David Rossman (Oculoplastics)
- Dr. Vivian Yin

RESEARCH DEPARTMENT

2018-2019

-
- Dr. Deborah Giaschi

STAFF MEMBERS

2018-2019

Orthoptic Staff

- Christy Giligson
- Grace Harradine
- Andrea Quan
- Vaishali Mehta
- Debbie Zylich

Electrophysiology Staff

- Linn Moore

Visual Impairment Program

- Dr. Carey Matsuba

Administrative Staff

- Joan Baldos
- Karen Chen
- Chloe Gregg
- Brenda Jew
- Mitra Mayer
- Sabrina Ramlogan
- Natalie Wong

HIGHLIGHTS & ACHIEVEMENTS 2018-2019

We were happy to welcome Dr Conor Mulholland to our department in early 2019. He has joined Dr Maryam Aroichane, Dr Jane Gardiner and Dr Christopher Lyons with an onsite presence in BC Children's Outpatient Ophthalmology Clinic. We continue to be the second busiest clinic in the hospital, seeing approximately 15,000 patients visits in 2018/19 and 16,500 in 2019/20. We offer comprehensive pediatric ophthalmology care with our team of orthoptists, electrophysiology and low vision staff. In 2019 we expanded the testing we can offer onsite. With the generous support of the BC Children's Hospital Foundation, we acquired an Ocular Coherence Tomography machine. This provides vital testing to assist in the management of patients with optic nerve and retinal disease.

We continue to contribute to UBC's teaching mandate on all levels. We have an Orthoptics Training Program - one of only 3 in the country. Two orthoptists graduated from the 2 year program in June 2019 and another student began in July 2019. We participate actively in undergraduate teaching - ranging from teaching ophthalmology clinical skills to first year medical students, to teaching 3rd year clinical clerks and 4th year elective students. Dr Jane Gardiner continues in her role as UBC Department of Ophthalmology and Vision Science Undergraduate Director and she also works on the Faculty of Medicine Undergraduate Executive Committee. We always have an ophthalmology resident rotating through our department. In addition, there is regular interest from the pediatric residents for electives in our department - a relationship we are happy to support and foster. We continue to train two fellows in Pediatric Ophthalmology. These fellows are supported by two endowments. Our first world fellow is supported by Dr Andrew McCormick endowment and our developing world fellow is supported by the Dr John Pratt Johnson endowment. Both endowments are augmented by the generous support from the BCCH foundation.

Dr Debbie Giaschi supports graduate students in her lab, with a focus on human motion perception and amblyopia. Dr Giaschi was acknowledged by the University for her excellence in teaching with the 2018 UBC Killam Teaching Prize.

Many members of our department are involved in further teaching through continuing medical education programs. Most notably, our department plans and delivers the Biennial Pediatric Ophthalmology and Strabismus meeting. Under the guidance of Dr Christopher Lyons, in September 2019, we had a very successful meeting with local, national and international speakers and attendees. Many of our faculty are involved in other local, national and international teaching.

Over the years we have continued to build up our capacity to provide services to areas of British Columbia which are underserved by Pediatric Ophthalmology; Dr Ko has provided regular outreach services in Fort St John, Dr Gardiner and Dr Aroichane visit Prince George five times a year and Dr Lyons has continued to travel to Nelson and Bella Coola. Dr Gardiner also works in Whitehorse two weeks a year. Our department continues their work at the Downtown Eastside Eye Clinic, collaborating with the pediatricians in the RICHER Program. We are able to provide excellent care to some of Vancouver's most marginalized children. Several members of our department volunteer their skills in developing countries teaching and surgical programs.

HIGHLIGHTS & ACHIEVEMENTS 2018-2019

Our staff are actively involved in clinical research and publishing. In 2018, Dr Christopher Lyons was recognized for his ongoing contributions with the UBC Department of Ophthalmology and Vision Science Clinical Research award. Dr Lyons is also in the process of editing the 6th edition of the well-known Pediatric ophthalmology text, Taylor and Hoyt's Pediatric Ophthalmology and Strabismus. Dr Jane Gardiner had had the privilege of assisting in the development of national, evidence based Guidelines for Pediatric Eye Exams 2019), age 0-5 and for Management of Uveitis in Juvenile Idiopathic Arthritis. (2020).

We look forward to the coming years, with expansion of what we can offer in our department, with the hiring of new staff, acquisition of new equipment and continued active involvement in training programs.

OUTREACH

Ophthalmology Department members continue to participate in regular outreach clinics in remote areas of British Columbia. Drs. Aroichane and Gardiner provide regular clinics to Prince George, where they are accompanied by an orthoptist. Dr. Ashley Ko goes to the UBC Resident clinic in Fort St John where she also does surgery. Dr. Lyons travels to provide clinics in Bella Coola and Nelson, where he also does surgery and is accompanied by a Fellow.

TEACHING ACTIVITIES

2018-2019

Medical Student Teaching

Dr. Jane Gardiner is Director of the Undergraduate Training Program for the UBC Department of Ophthalmology and Visual Sciences. BC Children's Department of Ophthalmology is regularly involved in teaching 3rd year clinical clerkship UBC medical students. As part of the clerkship, medical students rotate through ophthalmology for one week. During that week, they spend one half to one day in pediatric ophthalmology. We also teach 4th year elective students. All our staff, both onsite and in the community, regularly work as preceptors to the UBC medical students.

Residents

Residents in ophthalmology rotate through our department on a regular basis. The Ophthalmology residency program admits 3 residents per year. The residents spend 8 weeks in their 3rd year and another 8 weeks in their 4th year, in our department. The first rotation is slanted towards clinic-based learning whereas the second has a heavier surgical emphasis. They gain exposure to the world of pediatric ophthalmology and become proficient in the diagnosis and management of common pediatric ophthalmology problems, both from a medical and surgical standpoint.

Residents on the neuro-ophthalmology rotation and residents from pediatric neurology also attend Dr. Maryan Aroichane's clinic.

TEACHING ACTIVITIES

2018-2019

Fellowship Training Program

Under the leadership of Dr. Christopher Lyons, the BC Children's Department of Ophthalmology offers two, one-year fellowship positions. The Fellowship experience is inclined towards clinic-based decision-making, since each patient seen by the Fellow is subsequently reviewed by Staff. Over the course of their year in Vancouver, each Fellow could expect to assess at least 2500 children with pediatric ophthalmology or strabismus problems. The fellows also gain ample surgical exposure at BCCH. The fellows are actively involved in teaching both within our department and to other residents at BC Children's - most notably emergency and pediatric residents. The fellows are involved in research and outreach clinics. The program has been well reviewed by current and past fellows.

FELLOWS SUPERVISED

Pediatric Ophthalmology

Sharon Armarnik
Stephen Farell
Manisha Shrestha
Carolina Torres

Neuro Ophthalmology

Rana Al-Senawa
Magdalena Wirth
Xiu Ling Tan

Ophthalmology Research

Arijit Chakraborty

Oculoplastics

Tsong Qiang Kwong
Manar Alwohaib
Namrate Adulkar
Nik Koutromani
Qiang Kwong

Retina

James Luz
Aaron Joe
Khoi Tran
Gregory Stein
Nakhoul Nakhoul
Daniel Cherfan

TEACHING ACTIVITIES

2018-2019

RESIDENTS SUPERVISED

Kailun Jiang
Tom Liu
Gelareh Nouredin
Salina Teja
Kathryn Clapson
Gavin Docherty
Myra Butler
Mitchell Browne

Rosanna Martens
Colten Wendel
Geoffrey law
Wendy Ming
Grace Qiao
Henry Chen
Lauren Sawatzky
Carol Tadrous

STUDENTS SUPERVISED

Research Students

Kimberly Meier (PhD student)

Undergraduate Research Students

Laveniya Kugathasan
Kevin Chang
Yousef Shahin
Farnaz Javadian
Ingrid Yuen

Orthoptics Students

Alecia Lukash
Belva See
Lauren Bland

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

Name

Lectures/Presentations

Dr Dolman

Asia Pacific Assocn Ophthalmol, Internatl Convenor, Session Chair, Hong Kong CHINA Apr 2018

Saudi Ophthalmology 2018, Invited Speaker, Riyadh, SAUDI ARABIA Apr 2018

Chilean Society of Oculoplastics Surgeons, Santiago, CHILE May 2018

Orbit Society, Participating speaker, West Virginia, USA, May 2018

British Oculoplastics Society Keynote invited speaker, Dublin, IRELAND May 2018

Cambridge University Ophthalmic Society, Invited speaker, Cambridge ENGLAND Jul 2018

Nepalese Society of Oculoplastics, Invited speaker, Kathmandu, NEPAL Oct 2018

Tongren Hospital Invited speaker, Beijing, CHINA Nov 2018

Xi'an Ophthalmic Invited speaker, Xi-an, CHINA, Nov 2018

Philippine Academy of Ophthalmology, Manila, PHILIPPINES Dec 2018

International Thyroid Eye Disease international symposium, invited speaker, Singapore Hong Leong Scholarship SINGAPORE, Feb 2019

Asia Pacific Academy of Ophthalmology International convenor for oculoplastics, Bangkok, THAILAND Mar 2019

Dr Deborah Giaschi

Keynote speaker: Patching-resistant deficits in amblyopia. Clinical and Translational Forum for Visual Development and Therapy, Wenzhou, China

Dr. Jane Gardiner

UBC Sponsored: BCCH, SCN Clinical Assistant Training (ROP) November 29, 2018

BCCH, Special Care Nursery (ROP) March 2018

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

Name

Lectures/Presentations

Dr C.J Lyons

UBC Pediatrics Grand Rounds, BC Children's Hospital, October 2018

Sunny Hill Hospital Grand Rounds, November 2018

Nelson BC: Kootenay Lake Hospital Grand Rounds: Strabismus for family physicians. September 2018

Invited Lecturer, Saudi Ophthalmology society/Red Sea ophthalmology symposium. Jan. 2018

Invited Lecturer. Auckland University Department of Ophthalmology March 2018

Invited Lecturer, Melbourne Royal Eye and Ear Hospital, April 2018

Invited Lecturer, Grand Rounds Stanford University, May 2018

Invited Lecturer, UCLA Jules Stein Institute, June 2018

Invited Lecturer, King Saud University Pediatric Ophthalmology Symposium November 2018

Invited Lecturer, Moorfields Eye Hospital, London England July 2018

Dr. Patrick Ma

Allergan Meeting – DME case studies - Winnipeg, MB May 24, 2018 Allergan Meeting – DME case studies-Toronto, ON Apr 21, 2018

Dr. Conor Mulholland

UBC Department of Ophthalmology Academic Half Day Feb 2019 Vertical Strabismus and Pattern Strabismus

Dr. Megan Rees

2018 – Speaker at BC Rural Health Conference in Nanaimo “What Not to Miss in Pediatric Ophthalmology” 2018- Speaker at 64th Annual St. Paul’s Hospital CME Conference for Primary Care Physicians “ What To Do When You Think A Child Has Strabismus”

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

Name

Lectures/Presentations

Dr Vivian Yin

2nd Annual Meeting, North American Society of Academic Orbital Surgeons. April 4-9, 2019, Orlando, FL.

- a. Panelist, Advances in Targeted Therapy
- b. Mutational Landscape of Conjunctival Melanoma

The 34th Asia-Pacific Academy of Ophthalmology Congress, Bangkok, Thailand. March 6-9, 2019

- c. Recent advances in targeted therapy for periocular malignancies
- d. Lentigo maligna with spread to conjunctival MIS.

Evidence-based management of lacrimal gland tumors. CyberSight, Orbis International, New York. Feb 1, 2019.

Combined reconstruction of face and lid: An oculoplastic surgeon's perspective. 5th Biennial Orbital Oncology and Oculofacial Plastic Surgery Symposium. UT MD Anderson Cancer Center, Houston, TX. Jan 25-26, 2019.

Course Faculty and Moderator. Contemporary management of complex skin cancers. Memorial Sloan Kettering Cancer Center, New York, NY. Nov 2-3, 2018.

- a. Periocular malignancies: special considerations.
- b. Techniques for eyelid reconstructions

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
NSERC	Brain Mechanisms underlying human motion perception	C	\$39 000	2017-2022	Giaschi	

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
BC Children's Hospital Foundation (Whitearn Foundation)	Amblyopia treatment using iPads	C	\$5,000	2017-2018	Giaschi	
National Eye Institute R01	Accommodation and defocus in the infant visual system	C	\$368,596	2017-2022	T.R. Candy	A. Chen, A. Bradley, D. Lyon, K. Huang, L. Wilcox, L. Cormack, D. Giaschi
BCCHRI	Visuomotor coordination in amblyopia	NC	\$15,000	2018-2019	Giaschi	
National Eye Institute R01	Intravitreal Anti-VEGF Treatment for Prevention of Vision Threatening Diabetic Retinopathy in Eyes at High Risk	NC	\$5,000	2016-2021	E. Navajas	P. Ma D. Maberley D. Albani A. Kiker A. Merkur

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
Gilead Sciences	A Phase 2, Randomized, Placebo-Controlled Trial Evaluating the Efficacy and Safety of Filgotinib in Subjects with Active Non-Infectious Uveitis	NC	\$75,000	2017-2019	P. Ma	D. Maberley Z. Mammo
BCCHRI	A Phase III Multicenter, Randomized, Double-masked, Active comparator-Controlled study to evaluate the efficacy and safety of Fabricimab in patients with Neovascular Age-related Macular Degeneration (Tenaya)	NC	\$173,451			
Hoffmann-La Roche Ltd. (Canada)	GR40398 "A phase III, multicenter, randomized, double-masked, active comparator-controlled study to evaluate the efficacy and safety of RO6867461 in patients with Diabetic Macular Edema"	NC				

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
IVERIC bio, Inc.	A Phase 3 multicenter, Randomized, Double-masked, Shamcontrolled clinical trial to assess the safety and efficacy of Intravitreal administration of Zimura (complement C5 inhibitor) in patients with geographic atrophy secondary to dry age-related macular degeneration	NC	\$106,289			

COMMITTEE PARTICIPATION**2018-2019**

Name	Committee
Dr. Peter Dolman	VGH Advisory Committee
	UBC Dept of Ophthalmology Advisory Committee
	UBC Residency Training Committee
	ECC OR Committee
Dr. Jane Gardiner	BC Society of Eye Physicians and Surgeons, Economics Committee 2020
	UBC Faculty of Medicine, Undergraduate Medical Executive Committee, June 2018-present
	BCCH Department of Ophthalmology, Interim Head, July 2016-Present
	UBC Ophthalmology and Vision Science, Executive Committee 2016-Present
	UBC Ophthalmology and Vision Science, Residency Training Committee Member 2014-Present
	UBC Faculty of Medicine, Undergraduate Director for Ophthalmology and Vision Science, 2010-Present
	Resident Selection Committee, UBC Dept Ophthalmology and Vision Science, 2018

COMMITTEE PARTICIPATION**2018-2019**

Name	Committee
Dr. Jane Gardiner	<p>UBC Ophthalmology and Vision Science Continuing Education Committee, 2008-present</p> <p>Royal College of Physicians and Surgeons of Canada Fellowship examiner 2007-Present</p>
Dr. Deborah Giaschi	<p>BC Children's Hospital MRI Research Facility, Director of Operations</p> <p>NSERC Undergraduate Student Research Awards, UBC Faculty of Medicine coordinator</p> <p>UBC High Field MRI Centre Protocol Review committee, member</p> <p>BC Children's Hospital MRI Research Facility Protocol Review committee, member</p> <p>Ophthalmology Executive Advisory Committee, member</p> <p>Residency Training Committee, Ophthalmology, member</p> <p>Summative Peer Review of Teaching, UBC Faculty of Medicine, Departmental rep</p> <p>Ophthalmology Head Review Committee, member</p>

COMMITTEE PARTICIPATION**2018-2019****Name****Committee****Dr. Conor Mulholland**

Chair of the Professional Standards Committee of the Canadian Orthoptic Council

Dr. David Rossman

Canadian Society of Oculoplastic & Reconstructive Surgery 2007-Present

Diplomat of the American Board of Ophthalmology 2005-Present

Fellow of the Royal College of Physicians and Surgeons of Canada 2004-Present

Dr. Vivian Yin

Chair. Canadian Association for Public Health and Global Ophthalmology, Canadian Ophthalmology Society

Global Education and Outreach Committee, American Academy of Ophthalmology

Vice Chair, Board of Directors SEVA 2017-2018 (acting chair 2018-2019)

Annual Meeting Planning Committee. Canadian Ophthalmology Society 2017-Present

PUBLICATION RECORDS

2018-2019

Name	Publication Citation
Dr. Peter Dolman	<ol style="list-style-type: none"> 1. Tinker D, Pollock C, Mendelsohn D, Dolman PJ. A lance through the orbit, Can J Ophthalmol. 2018 2. Dolman PJ. Grading severity and activity in Thyroid Eye Disease. Ophthalmic Plast Reconstr Surg. 3. Mawn LA, Dolman PJ, Kazim M, Strianese D, Genol I, Chong KKL, Sullivan TJ, Korn BS, Naik M, Dutton J, Velasco E Cruz A, Li C. Soft tissue metrics in Thyroid eye disease: an international thyroid eye disease society reliability study. Ophthalmic Plast Reconstr Surg. 2018 Feb
Dr. Jane Gardiner	<ol style="list-style-type: none"> 1. Joint Clinical Practice Guideline Expert Committee of the Canadian Association of Optometrists and Canadian ophthalmological Society, Delpero WT, Robinson BE, Gardiner JA, Nasmith L, Rowan-Legg A, Tousignant B. Evidence-based clinical practice guidelines for the periodic eye examination in children aged 0-5 years in Canada. Canadian Journal of Optometry, 2019, Vol 81(4), 9-28. 2. Joint Clinical Practice Guideline Expert Committee of the Canadian Association of Optometrists and Canadian Ophthalmological Society, Delpero WT, Robinson BE, Gardiner JA, Nasmith L, Rowan-Legg A, Tousignant B. Evidence-based clinical practice guidelines for the periodic eye examination in children aged 0-5 years in Canada. Can J Ophthalmol. 2019 Dec;54(6):751-759

PUBLICATION RECORDS

2018-2019

Name	Publication Citation
Dr. Jane Gardiner	3. Nathoo N, Nazarali S, Gardiner JA , Maberley D. Evaluation of ophthalmology clerkships across teaching sites at the University of British Columbia, Canadian Journal of Ophthalmology, 2019 April;54(2):150-154.
Dr. Deborah Giaschi	<ol style="list-style-type: none"> 1. Meier K, Giaschi D. (2019) The effect of stimulus area on global motion thresholds in children and adults. <i>Vision</i> 3(10):1-11 2. Patanen M, Siegel L, Giaschi D. (2019) Longitudinal outcomes of an individualized and intensive reading intervention for third grade students. <i>Dyslexia</i> 25:227-245 3. Kugathasan L, Partanen M, Chu V, Lyons C, Giaschi D. (2019) Reading ability of children treated for amblyopia. <i>Vision Research</i> 156:28-38 4. Partanen M, Siegel L, Giaschi D. (2019) Effect of reading intervention and task difficulty on orthographic and phonological reading systems in the brain. <i>Neuropsychologia</i> 130:13-25 5. Meier K, Partanen M, Giaschi D. (2018) Dichoptic attentive motion tracking is biased toward the nonamblyopic eye in strabismic amblyopia. <i>Investigative Ophthalmology & Visual Science</i> 59(11):4572-4580

PUBLICATION RECORDS

2018-2019

Name	Publication Citation
Dr. C.J. Lyons	<ol style="list-style-type: none"> 1. Correlation of novel PAX-6 gene abnormalities in aniridia and clinical presentation. Sannan NS, Gregory-Evans CY, Lyons CJ, Lehman AM, Langlois S, Warner SJ, Zakrewsky H, Gregory-Evans K. Can J Ophthalmol 2017;52:570-577 2. Correlating the Expression and Functional Activity of ABCA4 Disease Variants with the Phenotype of Patients with Stargardts Disease Garces F, Jiang K, Molday LL, Stohr H, Weber BH, Lyons CJ, Maberley D, Molday RS Invest Ophthalmol Vis Sci 2018;59:2305-2315 3. Reading ability of children treated for amblyopia. Kugathasan L, Partanen M, Chu V, Lyons C, Giaschi D Vision Research 2019
Dr. Patrick Ma	<ol style="list-style-type: none"> 1. Ozurdex for macular Edema Secondary to Diabetic Macular Edema, Retinal Vein Occlusion, and Non-infectious Uveitis. Salina Teja, MDA; Lauren Sawatzky, MDA; Theresa Wiens, MSC, CCRPA; David Maberley, MD, FRCSCA; Patrick Ma, MD, FRCSCA Department of Ophthalmology & Visual Sciences, University of Biritsh Columbia, Vancouver, British Columbia - May 29, 2018 2. Featuring the Nd:YAG laser capsulotomy in the operating room. Promelle V, Armanik S, Lyons CJ. Int J Ophthalmol. 2020 Mar 18;13(3):523-524. doi:10.18240/ijo.2020.03.25

PUBLICATION RECORDS

2018-2019

Name	Publication Citation
Dr. Vivian Yin	<ol style="list-style-type: none"> 1. Liu RT, Henkleman E, Popescu O, Yin VT. Nodular fascitis: A rapidly enlarging destructive periorbital mass in an infant. <i>Am J Ophthalmic Case Reports</i> 2018 Apr 19 https://doi.org/10.1016/k.ajoc.2018.04.019 2. Chen LYC, Qi R, Park S, Irvine R, Sideman M, Kelsall JY, Collins D, Yin VT, Slack G, Mattman A, Carruthers MN. Utility of serym IgG4 levels in multiethnic population. <i>AM J Med Sci</i> 2018;355(1):61-66. PMID: 29289265

INITIATIVES IN PROGRESS

2018-2019

Dr. Deborah Giaschi	<ol style="list-style-type: none"> 1. Meier, Sperling, Giaschi. Fixational stability during motion tasks in amblyopia. 2. Tardif J, Watson M, Giaschi D, Gosselin F. Development of the contrast sensitivity function. 3. Meier K, Candy R, Seemiller E, Wilcox L, Giaschi D. Vergence eye movements driven by fine and coarse stereo stimuli in young children. 4. Giaschi D, Birch E. The effect of binocular amblyopia treatment on motion-defined form perception deficits.
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INITIATIVES IN PROGRESS

2018-2019

Dr. Deborah Giaschi

5. Meier K, Wilcox L, Giaschi D. The development of coarse and fine stereopsis in children with amblyopia or strabismus.
6. Watson M, Stockler S, Giaschi D. Assessment of contrast sensitivity in children with phenylketonuria.
7. Giaschi, Niechwiej-Szwedo. Typical and atypical development of hand-eye coordination and motion perception.
8. Giaschi D, Synnes, A, Grunau R. Effect of preterm birth on motion perception.
9. Ho C, Shahin Y, Reis H, Grenier S, Giaschi D. Binocular treatment for amblyopia in adults and children with low-pass filtering when occlusion therapy fails.
11. Javadian F, Chakrabarty A, Wilcox L, Giaschi D. Evidence from amblyopia for shared processing of motion perception and stereopsis.

AWARDS

2018-2019

Dr. Peter Dolman

VGH Hospital Bobby Miller Award for excellence in teaching 2018

Ophthalmology department resident's teaching award for best surgical teacher 2018

Dr. Deborah Giaschi

Killam Teaching Prize, UBC Faculty of Medicine 2017/2018

Dr. Christopher J. Lyons

UBC Department of Ophthalmology Clinical Research Award 2018

Dr. Vivian Yin

Canadian Women Leaders in Global Health Canadian Society of International Health 2018

DIVISION OF PEDIATRIC OPHTHALMOLOGY

2019-2020



FACULTY MEMBERS ON-SITE

2019-2020



Dr. Maryam
Aroichane



Dr. Conor
Mulholland



Dr. Jane
Gardiner -
Interim
Department
Head



Dr. Christopher
Lyons

FACULTY MEMBERS OFF-SITE

2018-2019

- Dr. David Albiani
- Dr. T. Alan Demco
- Dr. Peter Dolman (Oculoplastics)
- Dr. Ross Kennedy
- Dr. Ashley Ko

- Dr. Patrick Ma (Retina)
- Dr. Andrew Merkur (Retina)
- Dr. Katherine Paton (Ocular Oncology)
- Dr. Megan Rees
- Dr. David Rossman (Oculoplastics)
- Dr. Vivian Yin

RESEARCH DEPARTMENT

2019-2020

- Dr. Deborah Giaschi

STAFF MEMBERS

2019-2020

Orthoptic Staff

- Christy Giligson
- Grace Harradine
- Andrea Quan
- Vaishali Mehta
- Debbie Zylich

Electrophysiology Staff

- Linn Moore

Visual Impairment Program

- Dr. Carey Matsuba

Administrative Staff

- Inder Akali
- Joan Baldos
- Latifah Elananza
- Chloe Gregg
- Brenda Jew
- Jassirat Kaur
- Jasmine Lee
- Ivania Ramirez
- Sabrina Ramlogan
- Natalie Wong

TEACHING ACTIVITIES

2019-2020

Medical Student Teaching

Dr. Jane Gardiner is Director of the Undergraduate Training Program for the UBC Department of Ophthalmology and Visual Sciences. BC Children's Department of Ophthalmology is regularly involved in teaching 3rd year clinical clerkship UBC medical students. As part of the clerkship, medical students rotate through ophthalmology for one week. During that week, they spend one half to one day in pediatric ophthalmology. We also teach 4th year elective students. All our staff, both onsite and in the community, regularly work as preceptors to the UBC medical students.

Residents

Residents in ophthalmology rotate through our department on a regular basis. The Ophthalmology residency program admits 3 residents per year. The residents spend 8 weeks in their 3rd year and another 8 weeks in their 4th year, in our department. The first rotation is slanted towards clinic-based learning whereas the second has a heavier surgical emphasis. They gain exposure to the world of pediatric ophthalmology and become proficient in the diagnosis and management of common pediatric ophthalmology problems, both from a medical and surgical standpoint.

Residents on the neuro-ophthalmology rotation and residents from pediatric neurology also attend Dr. Maryan Aroichane's clinic.

TEACHING ACTIVITIES

2019-2020

Fellowship Training Program

Under the leadership of Dr. Christopher Lyons, the BC Children's Department of Ophthalmology offers two, one-year fellowship positions. The Fellowship experience is inclined towards clinic-based decision-making, since each patient seen by the Fellow is subsequently reviewed by Staff. Over the course of their year in Vancouver, each Fellow could expect to assess at least 2500 children with pediatric ophthalmology or strabismus problems. The fellows also gain ample surgical exposure at BCCH. The fellows are actively involved in teaching both within our department and to other residents at BC Children's - most notably emergency and pediatric residents. The fellows are involved in research and outreach clinics. The program has been well reviewed by current and past fellows.

FELLOWS SUPERVISED

Pediatric Ophthalmology

Oded Rock
Veronique Promelle
Fabiola Jerez Carvajal
Aaron Winter

Oculoplastics

Lily Zhao
Magdalena Wirth

Neuro Ophthalmology

Jiemen Zhou
Yasmine Rabia
Oded Rock
Michael Thorne

Retina

Travers Weaver
Munir Iqbal
Dvir Koenigstein
Maria Sainz Ugarte
Kunny Dans

TEACHING ACTIVITIES

2019-2020

RESIDENTS SUPERVISED

Gelareh Nouredin
Salina Teja
Kathryn Clapson
Gavin Docherty
Myra Butler
Mitchell Browne
Rosanna Martens
Colten Wendel
Geoffrey Law

Wendy Ming
Grace Qiao
Henry Chen
Lauren Sawatzky
Carol Tadrous
Maryam Eslami
Rob Pintwala
Amanda Schlenker

STUDENTS SUPERVISED

Undergraduate Research Students

Laveniya Kugathasan
Kevin Chang
Ingrid Yuen
Yu Yan Zhang
Nolan Chem
Paige Graffos
Sabrina Hou

Orthoptics Students

Lauren Bland

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

Name

Lectures/Presentations

Dr Peter Dolman

Invited lectures / visiting professor: Singapore Nat'l Univ, Hong Leong International Scholarship, SINGAPORE May 019

Orbit Society, SPAIN June 2019

LV Prasad Visiting Professor Scholarship, Bhubaneshwar, INDIA June 2019

Argentinian Oculoplastics Society, Invited speaker, Cordoba, ARGENTINA Jun 2019

EUGOGO Invited Keynote speaker, Pisa ITALY Nov 2019

ASOPRS Spring Meeting Invited Speaker. USA Zoom conference April 2020

Dr Deborah Giaschi

Patching-resistant deficits in amblyopia. Canadian Amblyopia network meeting. Vancouver, BC

A vision science perspective on amblyopia and its treatment. BCCH summer student program

Chakraborty A, Javadian F, Wilcox L, Giaschi D. (2019) Evidence from amblyopia for shared processing of motion perception and stereopsis. Journal of Vision 19:166d. poster presentation

Meier K, Spering M, Giaschi D. (2019) Fixation stability is not related to global motion deficits in amblyopia. IOVS 60:1026. oral presentation

Shahin Y, Meier K, Giaschi D. (2019) The effect of visual field location and speed on global motion perception in children and adults. IOVS 60:4375. poster presentation

Ho C, Shahin Y, Reis H, Grenier S, Giaschi D. (2019) Binocular treatment for amblyopia in adults and children with low-pass filtering when occlusion therapy fails. IOVS 60:218. poster presentation

Javadian F, Chakraborty A, Giaschi D (2019) Do motion perception and binocular function share common processing mechanisms? Journal of Investigative Medicine 67:227. oral presentation

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

Name

Lectures/Presentations

Dr. Jane Gardiner

Surgical Suites Rounds, "Equity, Diversity and Inclusion Strategy In Surgical Suites: Taking Social Determinants 'Vital Signs' To Address Adversity and Disparities", with Dr Christine Look, November 17, 2020

BC Dept of Ophthalmology Grand Rounds (Update on the Undergraduate Curriculum) Jan 18, 2019

Parent Education Meeting for JIA,, Cassie and Friends, Invited Speaker, Oct 26, 2019

Canadian Rheumatology Association, Annual Meeting, Victoria BC, Invited Speaker, "Uveitis in Pediatric Rheumatologic Disease - A collaborative approach", with Dr Andrea Human, February 27, 2020 and Meet the Expert Session.

Vancouver Pediatric Ophthalmology Meeting Sept 2019; Invited Speaker, "Misadventures with Adenovirus"

Dr. Ashley Ko

Ko A and Paton K. Just a Cataract? 11th Biennial Pediatric Ophthalmology and Strabismus Conference. Vancouver, BC. September 2019. (By invitation).

Dr. C.J. Lyons

CHAIR, BIENNIAL VANCOUVER PEDIATRIC OPHTHALMOLOGY AND STRABISMUS CONFERENCE, SEPTEMBER 2019

PRESENTER BIENNIAL VANCOUVER PEDIATRIC OPHTHALMOLOGY AND STRABISMUS CONFERENCE, SEPTEMBER 2019: 'MY CHILD CAN'T SEE!'

CHAIR, UBC OPHTHALMOLOGY ROUNDS NOVEMBER 8 2019: PROFESSOR GRAHAM HOLDER. 'NOW THAT RETINAL IMAGING IS SO GOOD, WHY DO WE STILL NEED ELECTROPHYSIOLOGY?'

COURSE ORGANIZER, NOVEMBER 8 0930-1700; PROFESSOR GRAHAM HOLDER: RETINAL ELECTROPHYSIOLOGY

Invited

Professor Fundacion Santa Fe de Bogota University Hospital Universidad de los Andes School of Medicine, Colombia May 2019:

- 1: Ocular manifestations of Systemic Disease in childhood
- 2: Goniotomy: current indications
- 3: Fetal experience and its implications for the child and the adult

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

Name

Lectures/Presentations

Dr. C.J. Lyons

ASSOCIATION FOR RESEARCH IN VISION AND OPHTHALMOLOGY (ARVO) MAY 2019:

1: RESTRAINING THE OVER ACHIEVER: A NEW ALGORITHM FOR INCOMITANT STRABISMUS. Armarnik S, Lyons CJ

2: WHY GONIOTOMY? ASSESSING OUTCOME AFTER GONIOTOMY FOR THE SPECTRUM OF PEDIATRIC GLAUCOMAS. Armarnik S, Farrell, S, Lyons CJ

CANADIAN OPHTHALMOLOGY SOCIETY (COS) JUNE 2019:

1: COMPLICATED STRABISMUS. (PANEL MEMBER AT PEDIATRIC OPHTHALMOLOGY SECTION WORKSHOP)

2: SCOTT RESECT-RECESS PROCEDURE FOR INCOMITANT STRABISMUS

3: GONIOTOMY OUTCOMES FOR THE SPECTRUM OF PEDIATRIC GLAUCOMAS

Invited Professor, Stanford University, Palo Alto California, United States of America, May 2018

Invited Guest Lecturer, Jules Stein Institute, University of California Los Angeles, June 2018

Invited Guest lecturer, Moorfields Eye Hospital, London England July 2018

Invited Professor, King Saud University Hospital Riyadh Saudi Arabia November 2018

Invited Guest Lecturer, Cali Hospital Department of Ophthalmology, Cali Colombia May 2019

Dr. Patrick Ma

COIS Meeting Toronto May 10-11, 2019 Brolucizumab for Neovascular Age-Related Macular Degeneration

Dr. Conor Mulholland

UBC Dept of Ophthalmology Grand Rounds Presentation on Pediatric Orbital Rhabdomyosarcoma

UBC Dept of Ophthalmology Pediatric Journal Club April 24th 2019

11th Biennial Pediatric Ophthalmology and Strabismus Conference Vancouver Sept 2019 Sight-threatening Strabismus Complications

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

Name

Lectures/Presentations

Dr. Megan Rees

2019 Speaker at BC Rural Health Conference (Pediatric Ophthalmology What Not to Miss), May 24-26, Nanaimo

Dr Vivian Yin

Lumps and bumps for general ophthalmologist. PHC Winter Clinical Day, Feb 22, 2020

2019 American Academy of Ophthalmology Annual Meeting. Oct 12-15, 2019. San Francisco, USA.

- a. Conceptual Approach: Orbital lymphoproliferative disease
- b. Radiology of orbital tumors
- c. Case: Optic nerve sheath meningioma
- d. Case: Recurrent lacrimal gland adenoid cystic carcinoma
- e. Gender and Blindness: Initiative to produce equity

Current Status: Targeted therapy for locally advanced periocular malignancies. CyberSight, Orbis International, New York. July 17, 2019.

Nepal Ophthalmic Society Annual Conference 2019, Sept 27-28, 2019. Lumbini, Nepal

- f. Tips on creating an aesthetic reconstruction with Hughes Flap after cancer resection
- g. Leadership and Gender

7th Annual COECSA Congress, Aug 21-23, 2019. Kigali, Rwanda.

- h. Toxicity of cancer treatment for ophthalmologist
- i. Pediatric orbital tumors
- j. Update on targeted therapy for locally advanced periocular and orbital malignancies
- k. Tips on aesthetic cancer reconstruction

Invited Lecturer. Rwanda International Institute of Ophthalmology, Aug 20, 2019.

- l. Approach to management of orbital mass Oculoplastic & orbit basics

Global Ophthalmology Beyond Vision 2020.

Grand Rounds, UBC Department of Ophthalmology & Visual Sciences, May 24, 2019.

Recognition and management of cosmetic filler complications. Annual Congress of the European Society of Ophthalmic Plastic and Reconstructive Surgery. Bucharest, Romania, Sept 13-15, 2018.

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

Name

Lectures/Presentations

Dr Vivian Yin

Invited Speaker. XXXVIII

National and International Congress of the Sociedad Columbiana de Oftalmologia. Cartagena de Indias, Colombia. July 25-28, 2018.

a. Current update and controversies of hedgehog pathway blockage

b. Addressing complex orbital vascular malformation with multidisciplinary approach

c. Evidence for best management of lacrimal gland tumors

d. Periocular side effects from targeted therapy and cancer management

e. Working with complex facial flaps after cancer resection

Visiting Speaker. Combined University of Missouri Columbia-Kansas City Symposium. April 20-21, 2018. Columbia, MO.

a. Toxicity of cancer treatment for the general ophthalmologist

b. What is the current landscape of global ophthalmology?

GRANTING AGENCY

TITLE

COMP

\$/YEAR

YEAR

PI

CO-PI

NSERC

Brain Mechanisms underlying human motion perception

C

\$39 000

2017-2022

Giaschi

National Eye Institute R01

Accommodation and defocus in the infant visual system

C

\$368,596

2017-2022

T.R. Candy

A. Chen, A. Bradley, D. Lyon, K. Huang, L. Wilcox, L. Cormack, D. Giaschi

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
Canada First Research Excellence Fund	The role of coarse stereopsis in amblyopia treatment outcomes	C	\$25,000	2019-2020	L. Wilcox	
National Eye Institute through DRCR.net	Intravitreal Anti-VEGF Treatment for Prevention of Vision Threatening Diabetic Retinopathy in Eyes at High Risk	NC	\$5,000	2016-2021	E. Navajas	P. Ma D. Maberley D. Albiani A. Kiker A. Merkur
Gilead Sciences	A Phase 2, Randomized, Placebo-Controlled Trial Evaluating the Efficacy and Safety of Filgotinib in Subjects with Active Non-Infectious Uveitis	NC	\$75,000	2017-2019	P. Ma	D. Maberley Z. Mammo

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
Hoffman-La Roche Ltd. (Canada)	A Phase III Multicenter, Randomized, Double-masked, Active comparator-Controlled study to evaluate the efficacy and safety of Fabricimab in patients with Neovascular Age-related Macular Degeneration (Tenaya)	NC	\$173,451	2019-2021	D. Maberley	P. Ma D. Mammo D. Albiani A. Kiker A. Merkur
Hoffmann-La Roche Ltd. (Canada)	GR40398 "A phase III, multicenter, randomized, double-masked, active comparator-controlled study to evaluate the efficacy and safety of RO6867461 in patients with Diabetic Macular Edema"	NC	\$173,451	2019-2021	P. Ma	D. Maberley D. Mammo D. Albiani A. Kiker A. Merkur

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
IVERIC bio, Inc.	A Phase 3 multicenter, Randomized, Double-masked, Shamcontrolled clinical trial to assess the safety and efficacy of Intravitreal administration of Zimura (complement C5 inhibitor) in patients with geographic atrophy secondary to dry age-related macular degeneration	NC	\$106,289	2020-2023	A. Merkur	P. Ma D. Maberley Z. Mammo D. Albiani A. Kiker

COMMITTEE PARTICIPATION**2019-2020**

Name	Committee
Dr. Peter Dolman	VGH Advisory Committee
	UVC Dept of Ophthalmology Advisory Committee
	UBC Residency Training Committee
	ECC OR Committee
Dr. Jane Gardiner	BC Society of Eye Physicians and Surgeons, Economics Committee 2020
	UBC Faculty of Medicine, Undergraduate Medical Executive Committee, June 2018-present
	BCCH Department of Ophthalmology, Interim Head, July 2016-Present
	UBC Ophthalmology and Vision Science, Executive Committee 2016-Present
	UBC Ophthalmology and Vision Science, Residency Training Committee Member 2014-Present
	UBC Faculty of Medicine, Undergraduate Director for Ophthalmology and Vision Science, 2010-Present
	UBC Ophthalmology and Vision Science Continuing Education Committee, 2008-Present
	Royal College of Physicians and Surgeons of Canada Fellowship examiner 2007-Present

COMMITTEE PARTICIPATION**2019-2020**

Name	Committee
Dr. Patrick Ma	VGH Credentials Committee
Dr. Vivian Yin	<p>Chair, Board of Directors SEVA Canada 2019-present</p> <p>International Council of Ophthalmology Representative, COS 2020-Present</p> <p>Board of Directors, Vancouver Physician Staff Association/VDMA 2019-Present</p> <p>Region 1 Representative, Specialty Committee in Ophthalmology, Royal College of Physician and Surgeons 2019-Present</p> <p>Annual Meeting Planning Committee. Canadian Ophthalmology Society 2017-Present</p>
Dr. Deborah Giaschi	<p>Faculty Appointments, Re-appointments, Promotion, Tenure Committee, UBC Faculty of Medicine, member</p> <p>NSERC Undergraduate Student Research Awards, UBC Faculty of Medicine, coordinator</p> <p>UBC High Field MRI Centre Protocol Review committee, member</p> <p>BC Children's Hospital MRI Research Facility Protocol Review committee, member</p> <p>Ophthalmology Executive Advisory Committee, member</p> <p>Residency Training Committee, Ophthalmology, member</p>

COMMITTEE PARTICIPATION

2019-2020

Name

Committee

Dr. Conor Mulholland

Chair of the Professional Standards Committee of the Canadian Orthoptic Council

PUBLICATION RECORDS

2019-2020

Name

Publication Citation

Dr. Jane Gardiner

1. Joint Clinical Practice Guideline Expert Committee of the Canadian Association of Optometrists and Canadian Ophthalmological Society, Delpero WT, Robinson BE, Gardiner JA, Nasmith L, Rowan-Legg A, Tousignant B
2. **Evidence-based clinical practice** guidelines for the periodic eye examination in children aged 0-5 years in Canada. Canadian Journal of Optometry, 2019, Vol 81(4), 9-28.
3. Joint Clinical Practice Guideline Expert Committee of the Canadian Association of Optometrists and Canadian Ophthalmological Society, Delpero WT, Robinson BE, Gardiner JA, Nasmith L, Rowan-Legg A, Tousignant B.
4. Evidence-based clinical practice guidelines for the periodic eye examination in children aged 0-5 years in Canada. Can J Ophthalmol. 2019 Dec;54(6):751-759.
5. Nathoo N, Nazarali S, Gardiner JA, Maberley D. Evaluation of ophthalmology clerkships across teaching sites at the University of British Columbia, Canadian Journal of Ophthalmology, 2019 April;54(2):150-154

PUBLICATION RECORDS

2019-2020

Name	Publication Citation
Dr. Peter Dolman	<ol style="list-style-type: none"> 1. Bahrami B, Curragh D, McNab AA, Davis G, Dolman PJ, Selva D. Primary Nasocutaneous Fistulae in Granulomatosis With Polyangiitis: A Case Series and Literature Review. Ophthalmic Plast Reconstr Surg. 2020 Apr 9. doi: 10.109 2. Curragh DS, Kamalarajah S, Lacey B, White ST, McNab AA, Kalantzis G, Dolman PJ, Selva D, Rajak SN. Primary replacement for the management of exposed orbital implant. Orbit. 2019 June 1:11 3. Adulkar N, Cheng C, Lee L, Rasmussen S, Dolman PJ, Yin VT. An In Vitro Model Assessing the Penetration of Hyaluronidase through Optic Nerve Dura for Management of Hyaluronic Acid Facial Filler Embolism. Plast Reconstr Surg. 2019 Jul;144(1):43e-47e <p>Chapters:</p> <ol style="list-style-type: none"> 1. Dolman PJ 00 Surgical Management of Compressive Optic Neuropathy in Active TED in Rath S and Naik M. "Surgery in Thyroid Eye Disease: a conceptual approach" Springer, 2020 2. Dolman PJ Orbital Floor Decompression. In Rath S and Naik M "Surgery in Thyroid Eye Disease: a conceptual approach" Springer, 2020 3. Dolman PJ Clinical Evaluation and Medical Management of TED, American Academy and ASOPRS On-line Teaching Modules, 2019
Dr. Christopher J. Lyons	<ol style="list-style-type: none"> 1. Accepted: The management of limbal dermoids by simple excision in young children authors are Promelle V and Lyons CJ

PUBLICATION RECORDS

2019-2020

Name	Publication Citation
Dr. Conor Mulholland	<p>1. Congenital Cranial Dysinnervation Disorder: An Unusual Phenotype With Multiple Cranial Neuropathies and Novel Neuroimaging Findings. Salman MS, Mulholland C, Wrogemann J, Marin SE. Congenital Cranial Dysinnervation Disorder: An Unusual Phenotype With Multiple Cranial Neuropathies and Novel Neuroimaging Findings. J Neuroophthalmol. 2019Sep;39(3):348-351</p>
Dr. Deborah Giaschi	<p>1. Shahin Y, Meier K, Giaschi D. (2020) The effect of visual field location on global motion perception: A developmental study. Perception 49(7): 733-748</p> <p>2. Niechwiej-Szwedo E, Meier K, Christian L, Nouredanesh M, Tung J, Bryden P, Giaschi D. (2020) Concurrent maturation of visuomotor skills and motion perception in typically-developing children and adolescents. Developmental Psychobiology 62:353-367.</p> <p>3. Birch E, Jost R, Wang Y-Z, Kelly K, Giaschi D. (2019) Impaired fellow eye motion perception and abnormal binocular function in amblyopia. Investigative Ophthalmology & Visual Science 60:3374-3380</p> <p>4. Birch E, Kelly K, Giaschi D. (2019) Fellow eye deficits in amblyopia. Journal of Binocular Vision and Ocular Motility 69:116-25</p>

PUBLICATION RECORDS

2019-2020

Name	Publication Citation
Dr. Vivian Yin	<ol style="list-style-type: none"> 1. Teja S, Mann C, Hooper P, Buys Y, Yin VT. The Canadian Ophthalmology Society's adaptation of the medically necessary time sensitive surgical procedures triage and prioritization tool. Can J Surgery (In Press) 2. Yin VT, Barker CA, Francis J, Jaben K. Ocular anterior segment ischemia from internal eye shield during radiotherapy. (In Press) 3. Daigle P, Leung V, Yin V, Kalin-Hajdu E, Nijhawan N. Personal protective equipment (PPE) during the COVID-19 pandemic for oculofacial plastic and orbital surgery. Orbit. DOI:10.1080/01676830.2020.1781200 4. Hussain A, Tucker N, DeAngelis DD, Yin VT, Ing E, Arthurs B, Gill HS, Hardy I, Hurwitz J, Kratky V, Maleki B, Nijhawan N, Oestreicher J, Zafar A. Guidelines for vismodegib in the management of periocular basal cell carcinoma. Can J Ophthalmol 2019 Dec 31 [Epub ahead of print] PMID: 31901307 5. Adulkar N, Cheng C, Lee L, Rasmussen S, Yin VT. Permeability of optic nerve by high concentration of hyaluronidase for management of hyaluronic acid facial filler embolism. Plastic Reconstr Surg 2019 Jul; 144(1):43e-48e. PMID: 31246809 6. Francis JH, Barker CA, Yin VT, Carvajal RD, Chapman P, Abramson DH, Gobin YP. Chemoreduction of orbital recurrence of uveal melanoma by intraarterial melphalan. Ocular Oncol Pathol 2019 Apr; 5(3):186-189. PMID: 31049326

PUBLICATION RECORDS

2019-2020

<i>Name</i>	<i>Publication Citation</i>
Dr. Vivian Yin	<p>7. Oded S, Bell D, Su S, Wester ST, Jiang K, Yin VT, Shinder R, Hayek B, Kim HJ, Tetzlaff MT, Esmaeli B. Pathological features and clinical course in patients with recurrent or malignant orbital solitary fibrous tumor/hemangiopericytoma. Ophthalmic Plastic Reconstr Surg (In Press)</p> <p>8. Mori S, Navarrete-Dechent C, Petukhova TA, Lee EH, Rossi AM, Posthof MA, Dunn LA, Roman BR, Yin VT, Coit DG, Hollman TJ, Busam KJ, Nehal KS, Barker CA. Tumor board conferences for multidisciplinary skin cancer management: A survey of US cancer centers. JNCCN (In Press)</p> <p>ABSTRACTS</p> <p>1. Yin VT. Efficacy and challenges of hedgehog inhibition for LaBCC prior to surgery. 2019 Canadian Ophthalmology Society Annual Meeting. Jun 13-16, 2019. Quebec City, Quebec</p>

INITIATIVES IN PROGRESS

2019-2020

Dr. Maryam Aroichane

Clinical and Magnetic Resonance Imaging findings in optic nerve aplasia. Fabiola Jerez, Veronique Promelle, Mark Halverson, Maryam Aroichane. Submitted to JAAPOS, Fall 2020

Dr. Deborah Giaschi

Meier, Sperling, Giaschi. Fixational stability during motion tasks in amblyopia.

Tardif J, Watson M, Giaschi D, Gosselin F. Development of the contrast sensitivity function.

Meier K, Candy R, Seemiller E, Wilcox L, Giaschi D. Vergence eye movements driven by fine and coarse stereo stimuli in young children.

Giaschi D, Birch E. The effect of binocular amblyopia treatment on motion-defined form perception deficits.

Giaschi D, Synnes, A, Grunau R. Effect of preterm birth on motion perception.

Ho C, Shahin Y, Giaschi D. Binocular treatment for amblyopia in adults and children with low-pass filtering when occlusion therapy fails.

INITIATIVES IN PROGRESS

2019-2020

Dr. Deborah Giaschi

Javadian F, Chakrabarty A, Wilcox L, Giaschi D. Evidence from amblyopia for shared processing of motion perception and stereopsis.

Christian L, Partanen M, Niechwiej-Szwedo E, Giaschi D. The importance of binocular vision to visuomotor control and reading.

Chang K, Shahin Y, Wilcox L, Giaschi D. The role of coarse stereopsis in amblyopia treatment outcomes.

Hou S, Zhang Y, Shahin Y, Niechwiej-Szwedo E, Giaschi D. Visuomotor control in children with amblyopia.

Chang K, Meier K, Wilcox L, Giaschi D. Coarse stereopsis and eye alignment in strabismus.

Chang K, Shahin Y, Watson M, Stockler S, Giaschi D. Assessment of contrast sensitivity in children with phenylketonuria

Dr. Deborah Giaschi

Ko, A, Pfeifer WL, Longmuir SQ, Scott WE. Comparison of prescribing patterns of eye care professionals to published guidelines for children. JPOS. Pending submission.

INITIATIVES IN PROGRESS

2019-2020

Dr. Ashley Ko

2015 – Present Rapid Access to Consultative Expertise (RACE)
Provide telephone consultation services to family physicians and nurse practitioners across British Columbia and Yukon

Dr. Patrick Ma

Submitted to Publisher for review
Reference: JCJO 1921
Re: Exudative retinal detachment secondary to hypertensive crisis related to membranous nephropathy

Dr. Vivian Yin

Shan A, Ng T, Yin VT. Orbital Schwannoma with cystic degeneration in the medial rectus muscle. Ophthalmic Plastic Reconstr Surg (In submission)

Tai F, Rasmussen S, Yin VT. An Atypical Eyelid Steatocystoma Mimicking Melanoma in Gorlin Syndrome. British J ophthalmol (In submission)

Morin J, Rasmussen S, Yin VT. Diffuse large B-cell lymphoma mimicking subperiosteal orbital abscess. Ophthalmic Plastic Reconstr Surg (In submission)

INITIATIVES IN PROGRESS

2019-2020

Dr. Vivian Yin

Lacrimal gland epithelial carcinoma: Genetics screen for actionable mutations. Collaborators: Dr. Peter Dolman, Dr. Roman Shinder Memorial Sloan Kettering Cancer Center

Dose tolerance of the optic nerve to direct radiation for paranasal sinus or skull base malignancies. Collaborators: Dr. Eric Tran, Dr. Peter Dolman Department of Radiation Oncology, BC Cancer Agency

Thyroid Eye Disease: Epidemiology and prevalence of reactivation after orbital decompression. Collaborators: Drs. Peter Dolman, David Rossman, Tom Liu University of British Columbia, Vancouver, Canada

Dr. Vivian Yin

Taylor and Hoyt's Pediatric Ophthalmology and Strabismus, 6th Edition.

How effective is isolated Inferior Oblique Myectomy for ipsilateral Superior Oblique palsy? Sharon Armarnik (F), Sheetal Shirke (F), Elham Alqahtani (F), Christy Giligson, Vaishali Mehta, Christopher J Lyons. In progress Fall 2020

Goniotomy for the childhood glaucomas: Where is it most useful? Sharon Armarnik (F), Stephen Farrell (F), Christopher J Lyons. Submitted to JAAPOS 2020

DIVISION OF PEDIATRIC ORTHOPAEDIC SURGERY

2018-2019



FACULTY MEMBERS

2018-2019



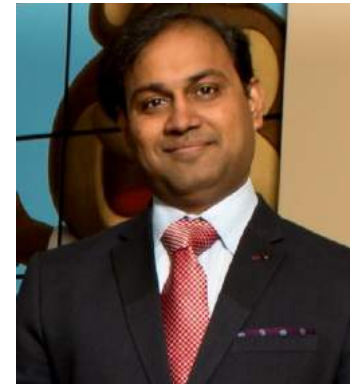
Dr. Christopher W. Reilly

Associate Professor,
Department Head



Dr. Christine M. Alvarez,

Clinical Associate
Professor



Dr. U.K. Kishore Mulpuri,

Associate Professor

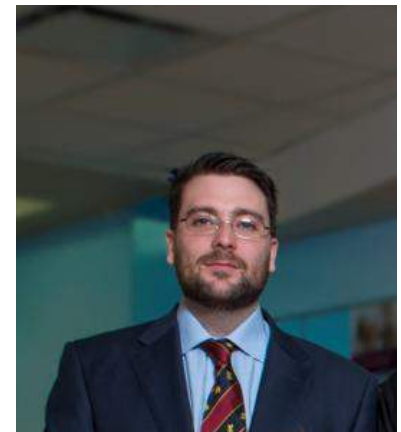


Dr. Firoz Miyanji

Clinical Assistant
Professor

Dr. Arvindera Ghag

Clinical
Instructor



Dr. Anthony Cooper

Clinical Assistant
Professor



Dr. Lise Leveille

Clinical Instructor

Dr. Shafique P. Pirani

Clinical
Professor

Alec Black
Clinical
Instructor

STAFF MEMBERS

2018-2019

- Kristen Adams, *Administrative Coordinator*
- Emily Schaeffer, *Research (for Drs. Reilly and Mulpuri)*
- Eva Habib, *Research (for Dr. Mulpuri)*
- Roya Yamini, *Research (for Dr. Mulpuri)*
- Harpreet Chhina, *Research (for Dr. Cooper)*
- Michele Stark, *MOA to Dr. C. Reilly*
- Marilynn Timbrell and Brenda Whitworth, *MOAs to Dr. C. Alvarez*
- Salima Damani *MOA to Dr. K. Mulpuri*
- Susan Ramiscal *MOA to Dr. A. Cooper*
- Valerie Walsh, *MOA to Dr. F. Miyanji and Dr. A. Ghag*
- Melissa Hart, *MOA to Dr. Leveille*
- Anna Stonehouse, *MOA to Dr. S. Pirani*
- Dolly Khanna, *Nurse Clinician*
- Dolly Khanna, *Nurse Clinician*
- Wendy Krishnaswamy *Nurse Clinician*
- Alyssa Robinson, *Clinic Nurse*
- Jennifer Dunlop, *Nurse Practitioner*
- Fidel Brooks, *Cast Technician*
- Ricardo Botia, *Cast Technician*
- Shelinah Kabani, *Orthopaedic Clinic*
- Manjit Bains, *Orthopaedic Clinic*
- Janis Bui, *Orthopaedic Clinic*
- Stacey Miller, *PT, CP Hip Surveillance*
- Nandy Farjardo, *PT, Ortho Clinic*
- Maria Juricic, *PT, Ortho Clinic*
- Daphne O'Young, *OT, Ortho Clinic*

HIGHLIGHTS & ACHIEVEMENTS **2018-2019**

Dr. Reilly

Stephen J Tredwell Visiting Professor Education Day. Dr. Haemish Crawford, Visiting Professor. BCCH Department of Orthopaedics, Vancouver, BC, November 9, 2018

Dr. Mulpuri

Qualis Health Award of Excellence in Healthcare Quality Recipient; St. Luke's Boise Medical Center collaboration for the DDH CareMap, 2018

Dr. Miyanji

1. Candidate Hibbs Best Clinical Paper Award – A prospective multicenter analysis of the efficacy of Anterior Vertebral Body Tethering in the treatment of Idiopathic Scoliosis. Scoliosis Research Society Annual Meeting; Bologna, Italy, Oct 2018
2. Vertebral Body Tethering – First Global Case of FDA approved device done Dec 2018

TEACHING ACTIVITIES

2018-2019

FELLOWS SUPERVISED	Dr. Christopher Chapman (Canada) Dr. Felix Brassard (Canada) Dr. Kyle Stampe (Canada) Dr. Ramez Ailabouni (New Zealand) Dr. Jonathan Lau (Canada) Dr. Nikki Hooper (New Zealand) Dr. Liam Johnson (Australia)	August 1, 2017 - July 31, 2019 August 1, 2017 - July 31, 2018 August 1, 2017 - July 31, 2018 August 1, 2017 - July 31, 2018 August 1, 2018 - July 31, 2019 August 1, 2018 - July 31, 2019 August 1, 2018 - July 31, 2019
FELLOW ELECTIVES	Abdullah Hammad (Pediatric Emergency Fellow, UBC)	August 27 - September 23, 2018
RESIDENTS SUPERVISED	Jennifer Hunter, PGY 2 Ian Wilson, PGY 5 Aresh Sepehri, PGY 2 Jennifer Nevin, PGY 4 Ian Wilson, PGY 5 Sebastian Ko, PGY 5 Alex Hoffer, PGY 2 Michael Neufeld, PGY 5 Hannah Nazeroff, PGY 2 Jennifer Nevin, PGY 5 Michael Nitikman, PGY 2 Michael Bond, PGY 5	February 26 - May 4, 2018 March 12 - April 6, 2018 March 12 - June 1, 2018 May 14 - June 29, 2018 June 18 - June 29, 2018 July 1 - August 26, 2018 July 1 - September 23, 2018 August 27 - October 21, 2018 September 24 - December 16, 2018 October 22, 2018 - January 13, 2019 December 17, 2018 - March 10, 2019 January 14 - March 10, 2019
RESIDENT ELECTIVES	Jennifer Cutting (UBC) Ana Sofia Lopez (UBC) Sarah Riedlinger (UBC) Shay Seth (Ottawa) Jordan Farag (Ped Rehab UBC)	March 29 - April 8, 2018 April 23 - May 6, 2018 July 12 - 27, 2018 January 14 - February 8, 2019 July 30 - October 21, 2018
STUDENTS SUPERVISED	Medical Students - 28 BCIT Prosthetic & Orthotics Shadowing Students - 12	

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

Dr. Reilly

“ACL Management in Pediatric Patients”, Orthopaedic Update, Vancouver, May 2018-12-09

“Update on Pediatric MSK Infection”, Orthopaedic Update, Vancouver, May 2018

“Asymmetric Vestibular Function in Adolescents with Idiopathic Scoliosis” (Abstract), Poster presentation, CAN Meeting, Vancouver, British Columbia, May 13-16, 2018, Woo E, Reilly C

Dr. Mulpuri

Slipped Capital Femoral Epiphysis – Old and New. University of Saskatchewan Grand Rounds, Saskatoon, SK, May 18, 2018.

Visiting Professor: Randomized Controlled Trials in Pediatric Orthopaedics. University of Saskatchewan Grand Rounds, Saskatoon, SK, May 18, 2018.

Visiting Professor: Decision making in Perthes: What do we know in 2017. University of Saskatchewan Grand Rounds, Saskatoon, SK, May 18, 2018.

Visiting Professor: Management of the Hip in Cerebral Palsy. University of Saskatchewan Grand Rounds, Saskatoon, SK, May 18, 2018.

Visiting Professor: Hip Surveillance: Creation and Application in British Columbia. University of Saskatchewan Grand Rounds, Saskatoon, SK, May 18, 2018.

Visiting Professor: Building Teams in Surgery: The Dolphin Way. University of Saskatchewan Grand Rounds, Saskatoon, SK, May 18, 2018.

Visiting Professor: Building Teams in Surgery: The Dolphin Way. Manitoba Orthopaedic Society Meeting, MB, October 18, 2018.

Visiting Professor: Treatment Management of Supracondylar Fractures of the Humerus. Manitoba Orthopaedic Society Meeting, MB, October 18, 2018.

Visiting Professor: Developmental Dysplasia of the Hip Lessons: Learned from a Multicenter Prospective Study. Manitoba Orthopaedic Society Meeting, MB, October 18, 2018.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Mulpuri

Visiting Professor: Building Teams in Surgery: The Dolphin Way. CHU Sainte-Justine Hospital Grand Rounds, Montreal, QC, November 14, 2018.

Visiting Professor: Need for non-inferiority trials in surgery. CHU Sainte-Justine Hospital Grand Rounds, Montreal, QC, November 14, 2018.

Visiting Professor: Prospective study groups and registries in surgery. CHU Sainte-Justine Hospital Grand Rounds, Montreal, QC, November 14, 2018.

Visiting Professor: Developmental Dysplasia of the Hip. 39th Annual Orthopaedic Symposium, Loma Linda University, California, US, March 3, 2019.

Chair, POSNA: Pediatric Hip Session. Pediatric Orthopaedic Society of North America Annual Meeting, Austin, TX, May 9-12, 2018.

Chair, IPOS: Neuromuscular Session. International Pediatric Orthopaedic Symposium Annual Meeting, Orlando, FL, Nov 27 - Dec 1, 2018.

Chair, Pediatric Orthopaedic Society of India Conference (POSICON) Instructional Course Lecture (ICL): Detection and Early Management of DDH. Screening Practices in DDH. Paediatric Orthopaedic Society of India Conference. Jan 3-6, 2019. Mumbai, India.

Chair, Pediatric Orthopaedic Society of India Conference (POSICON) Instructional Course Lecture (ICL): Research in Orthopaedic Surgery. Study Designs in Surgical Research. Paediatric Orthopaedic Society of India Conference. Jan 3-6, 2019. Mumbai, India.

Schaeffer EK, Clarke N, Kelley S, Williams N, Mulpuri K, IHDI Study Group. Femoral Nerve Palsy in Brace Treatment for Developmental Dysplasia of the Hip: Incidence and Outcomes in a Prospective International Cohort. Pediatric Orthopaedic Society of North America Annual Meeting, Austin Texas, May 9-12, 2018. Senior Author

Schaeffer EK, Sankar WN, Kim HKW, Kelley S, Cundy P, Price CT, Clarke N, Wedge JH, Mulpuri K, IHDI Study Group. Inter- and Intraobserver Reliability of the Radiographic Diagnosis of AVN of the Femoral Head in Developmental Dysplasia of the Hip. Pediatric Orthopaedic Society of North America Annual Meeting, Austin Texas, May 9-12, 2018. Senior Author

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Mulpuri

Quader N, Schaeffer EK, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R. 3D Ultrasound in the Management of Developmental Dysplasia of the Hip. Pediatric Orthopaedic Society of North America Annual Meeting, Austin Texas, May 9-12, 2018. Contributing Author

Schaeffer EK, Juricic M, Miller S, Wu J, Mulpuri K. Differences in Caregiver Perspective on Quality of Life of Children with Cerebral Palsy. Pediatric Orthopaedic Society of North America Annual Meeting, Austin Texas, May 9-12, 2018. Senior Author

Khlera K, Schaeffer EK, Kodali N, Mulpuri K. Publication Outcomes of POSNA Abstracts: A Comparison of Awarded and Non-awarded Submissions. Pediatric Orthopaedic Society of North America Annual Meeting, Austin Texas, May 9-12, 2018. Senior Author

Quader N, Hodgson A, Mulpuri K, Cooper A, Schaeffer EK, Abugharbieh R. Using 3D Ultrasound to Improve Reliability in Assessing Developmental Dysplasia of the Hip. The 2018 International Meeting of Computer Assisted Orthopedic Surgery Society (CAOS), Beijing-China, June 6-9, 2018. Contributing Author.

Quader N, Hodgson A, Mulpuri K, Cooper A, Schaeffer EK, Abugharbieh R. Improving 3D Ultrasound Scan Adequacy Classification Using a Three-Slice Convolutional Neural Network Architecture. The 2018 International Meeting of Computer Assisted Orthopedic Surgery Society (CAOS), Beijing-China, June 6-9, 2018. Contributing Author

Reilly C, Habib E, Teo T, Schaeffer EK, Carsen S, Mulpuri K. Non-operative Management of Type II Supracondylar Humerus Fractures in Children: A Prospective Comparative Study. Poster. Canadian Orthopaedic Association Annual Meeting, Victoria British Columbia, June 20-23, 2018. Senior Author

Herrera Soto JA, Schaeffer EK, Mulpuri K, Sankar WN, Williams N, Matheney TH, Upasani VV, IHDI Study Group. The fate of the stubborn hip in bilateral cases where one hip reduces on initial treatment: How many and what to do? Podium. Canadian Orthopaedic Association Annual Meeting, Victoria British Columbia, June 20-23, 2018. Contributing Author

Jones CE, Mulpuri K, Teo T, Wilson D, d'Entremont AG. Hip Cartilage Disease in Adolescents with Healed Legg Calvé Perthes Disease. Poster. Canadian Orthopaedic Association Annual Meeting, Victoria, British Columbia, June 20-23, 2018. Senior Author

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Mulpuri

Schaeffer EK, Sankar WN, Mulpuri K, IHDI Study Group. Development of a standardized classification system for the diagnosis of Developmental Dysplasia of the Hip in Infants. Poster. Canadian Orthopaedic Association Annual Meeting, Victoria British Columbia, June 20-23, 2018. Senior Author

Miller S, O'Donnell M, Mulpuri K. The First North American Hip Surveillance Program: Strategies for Successful Enrollment. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Cincinnati, Ohio, Oct 9-13, 2018. Senior Author

Miller S, O'Donnell M, Mulpuri K. Evaluation of Therapists Acceptance and Knowledge of a Provincial Hip Surveillance Program: Pre and Post Implementation Results. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Cincinnati, Ohio, Oct 9-13, 2018. Senior Author

Miller S, Juricic M, Schaeffer EK, Mulpuri K. The Effect of Selective Dorsal Rhizotomy on Hip Displacement in Children with Cerebral Palsy: A Long Term Follow Up Study. American Academy for Cerebral Palsy and Developmental Medicine Annual

Meeting, Cincinnati, Ohio, Oct 9-13, 2018. Senior Author Miller S, Habib E, Schaeffer EK, Yang B, Shore B, Mulpuri K. Inter-rater Reliability of the Identification of a 'Gothic Arch' in the Acetabulum of Children with Cerebral Palsy. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Cincinnati, Ohio, Oct 9-13, 2018. Senior Author

Schaeffer EK, Juricic M, Miller S, Wu J, Mulpuri K. Differences in Caregiver Perspective on Quality of Life of Children with Cerebral Palsy. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Cincinnati, Ohio, Oct 9-13, 2018. Senior Author

Juricic M, Schaeffer EK, Mulpuri K, Bainbridge L. Parents of Children with Cerebral Palsy: Experiences through Orthopaedic Surgery. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting, Cincinnati, Ohio, Oct 9-13, 2018. Senior Author

Schaeffer E, Habib E, Teo T, Carsen S, Mulpuri K, Reilly C. Non-operative Management of Type II Supracondylar Humerus Fractures in Children: A Prospective Comparative Study. . Société Internationale de Chirurgie Orthopédique et de Traumatologie Orthopaedic World Congress, Montreal, Quebec, Oct 10-13, 2018. Senior Author

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Mulpuri

Schaeffer E, Sankar W, IHDI Group, Mulpuri K. Development of a standardized classification system for the diagnosis of developmental dysplasia of the hip. Société Internationale de Chirurgie Orthopédique et de Traumatologie Orthopaedic World Congress, Montreal, Quebec, Oct 10-13, 2018. SA.

Shea K, Burlile J, Taylor I, Mulpuri K, Geng X, Schaeffer E, Habib E, Vagelakos L, Price C. Developmental Dysplasia of the Hip: Care Practices of Orthopaedic Surgeons in North America. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada, Mar 12-16, 2019. Contributing Author

Dr. Miyanji

Miyanji F, Nasto L, Bastrom T, Sponseller, P, Shah S, Samdani A, Shufflebarger H, Lonner B, Newton P. Assessing Health Related Quality of Life (HRQoL) in Cerebral Palsy (CP) Following Scoliosis Surgery: Is the CPCHILD Measuring what we want? Pediatric Orthopaedic Society of North America Annual Meeting, Austin, USA, May 2018.

Miyanji F, Nasto L, Habib E, Simmonds A. Anterior Vertebral Body Tethering for the Treatment of Idiopathic Scoliosis: Feasibility, Outcomes, and Complications. Pediatric Orthopaedic Society of North America Annual Meeting, Austin, USA, May 2018.

Bodendorfer BM; Shah SA; Bastrom TP; Lonner BS; Yaszay B; Samdani AF; Miyanji F; Cahill PJ; Sponseller; Betz RR; Clements DH; Lenke LG; Shufflebarger HL; Newton PO, MD. Restoration of Thoracic Kyphosis in Adolescent Idiopathic Scoliosis over a Twenty-Year Period: Are We Getting Better? International Meeting on Advanced Spine Techniques, Los Angeles USA, July 2018.

De Bodman C, Miyanji F, Dayer R. Posterior Minimally Invasive Surgery for Adolescent Idiopathic Scoliosis: Results and Complications in 68 Patients with Minimum 2-year Follow-up. International Meeting on Advanced Spine Techniques, Los Angeles USA, July 2018.

James Bennett, MD; Amer F. Samdani, MD; Joshua M. Pahys, MD; Baron S. Lonner, MD; Peter O. Newton, MD; Firoz Miyanji, MD, FRCS(C); Suken A. Shah, MD; Burt Yaszay, MD; Paul D. Sponseller, MD; Patrick J. Cahill, MD. Reoperation in Patients with Cerebral Palsy After Spinal Fusion: Incidence, Reasons, and Impact on HRQoL. Scoliosis Research Society, Bologna Italy, Oct 2018

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Miyanji

Miyanji F, Nasto L, Bastrom T, Sponseller, P, Shah S, Samdani A, Shufflebarger H, Lonner B, Newton P. Assessing Health Related Quality of Life (HRQoL) in Cerebral Palsy (CP) Following Scoliosis Surgery: Is the CPCHILD Measuring what we want? Scoliosis Research Society, Bologna Italy, Oct 2018.

Miyanji F, Pawelek J, Nasto LA, Parent S. A Prospective, Multicenter Analysis of the Efficacy of Anterior Vertebral Body Tethering (AVBT) in the Treatment of Idiopathic Scoliosis – Hibbs Best Clinical Paper Nominee. . Scoliosis Research Society, Bologna Italy, Oct 2018.

Miyanji F, Pawelek J, Nasto LA, Parent S. A Prospective, Multicenter Analysis of the Efficacy of Anterior Vertebral Body Tethering (AVBT) in the Treatment of Idiopathic Scoliosis . Canadian Spine Society, Toronto, Canada, Feb 2019

Miyanji F, Nasto L, Sponseller P, Marks M, Samdani A, Clements D, Narayanan U, Newton PO. Health-state utility values in cerebral palsy patients following deformity surgery: Are we now ready for cost-utility analysis in this patient population? Canadian Spine Society, Toronto, Canada, Feb 2019.

Miyanji F, Nasto L, , Sponseller, P, Bastrom T, Shah S, Samdani A, Marks M, Yaszay B, Narayanan U, Newton P. Minimal Clinically Important Difference (MCID) for CPCHILD Questionnaire following Scoliosis Surgery in Cerebral Palsy (CP). Pediatric Orthopaedic Society of North America Annual Meeting, Austin, USA, May 2018.

Miyanji F, Reilly C, Shah S, Clements D, Samdani A, Desai S, Lonner B, Shufflebarger H, Betz R, Newton P. The rate and risk of curve progression following skeletal maturity. Pediatric Orthopedic Society of North America Annual Meeting, Austin USA, May 2018.

Burt Yaszay, MD; Carrie Bartley, MA; Paul Sponseller, MD; Patrick Cahill, MD; Suken Shah, MD; Firoz Miyanji, MD, FRCSC; Amer Samdani, MD; Mark Abel, MD; Peter Newton, MD. Major Complications following Surgical Correction of Spine Deformity in 253 Patients with Cerebral Palsy Pediatric Orthopaedic Society of North America Annual Meeting, Austin, USA, May 2018.

Jaysson Brooks, MD; Burt Yaszay, MD; Tracey Bastrom, MA; Carrie Bartley, MA; Paul Sponseller, MD; Suken Shah, MD; Amer Samdani, MD; Patrick Cahill, MD; Firoz Miyanji, MD, FRCSC; Peter Newton, MD. Do all Patients with Cerebral Palsy Require Postoperative Intensive Care Admission After Posterior Spinal Fusion? Pediatric Orthopaedic Society of North America Annual Meeting, Austin, USA, May 2018.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Miyanji

Invited Faculty: 5th International Child's Spine Symposium, Orlando FL, Mar 2019
Presentation: Fixation techniques in Pediatric Subaxial Cervical Spine
Presentation: Debate: Pars Repair Best Option for L5 Spondylolysis
Hands-on Practical Lab Demonstrations

Hibbs Clinical Best Paper Session Moderator: Scoliosis Research Society Annual Meeting, Bologna, Italy Oct 2018

Invited Faculty: My Worst Complication in Pediatric, Growing Spine and Neuromuscular Surgery and How I treated It. IMAST Annual Meeting, Los Angeles USA, July, 2018

Invited Faculty: Sagittal Plane Disorders – Natural History in Pediatric Orthopedics: How Good is the Data we Base our Decisions?; POSNA Annual Meeting Pre-Course, Austin, USA, May 2018

Dr. Cooper

2018 Stephen J Tredwell Visiting Professor Education Day, November 9, 2018

Visiting Professor: Dr. Haemish Crawford
Lecture Title: Management of Limb Deformities
HA Coated Pins. Presenter at Vilex education: ORTHEx Hexapod course, St. Mary's Medical Center, November 16-17, 2018

Case presentation, Vilex education: ORTHEx hexapod course, November 2018

2018 POSNA Pain Management/Opioids Symposia Program. Prescription Opioids and Children: The Best Use to Prevent Misuse, While Bringing Pain to Truce. Austin, Texas. May 9-12, 2018

"Pearls and Pitfalls in Paediatric Orthopaedics", St Paul's Emergency Department Grand Rounds, February 14, 2018

Eugenio A, Chhina H, Cooper AP. Perceptions and attitudes towards children with orthopaedic devices. Pediatric Orthopaedic Society of North America (POSNA) Annual Symposium. Texas, USA, May 2018.

Multicentre Pin Site Infection Study Group, Cooper AP. Multicentre Pin-site study. Pediatric Orthopaedic Society of North America (POSNA) virtual Annual Meeting. 2018.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Cooper

Lohre R, Aarvold A, Chhina H, Eugenio A, Reilly C, Wilson D, Mulpuri K, Cooper AP. A pilot study to assess dynamic deformation of the femoral head during weight bearing in Perthes disease. Canadian Orthopaedic Association (COA) Annual Meeting, Victoria, Canada, June 2018. (Trainee Presentation)

Gerges M, Eng H, Chhina H, Cooper AP. Assessment of bone age in children – Comparison of three methods. Evidence to Innovation, Annual Trainee Day, BC Children's Hospital, Vancouver, Canada, November 2018

Chhina H, Klassen A, Kopec J, Aggarwal A, Oliffe J, Cooper AP. Impact of lower limb deformities on the health related quality of life of children in India. Evidence to Innovation, Annual Trainee Day, BC Children's Hospital, Vancouver, Canada, November 2018

Lohre R, Aarvold A, Chhina H, Eugenio A, Reilly C, Wilson D, Mulpuri K, Cooper AP. A pilot study to assess dynamic deformation of the femoral head during weight bearing in Perthes disease. Pediatric Orthopaedic Society of North America (POSNA) Annual Symposium. Texas, USA, May 2018. (Trainee Presentation).

Koo W, Chhina H, Cooper A. Intravenous lidocaine reduces post-operative pain and opiate requirements in patients undergoing external fixation. Canadian Orthopaedic Association (COA) Annual Meeting, Victoria, Canada, June 2018.

Eugenio A, Chhina H, Cooper A. Perceptions and attitudes towards children with orthopaedic devices. LLRS 27th Annual Scientific Meeting, California, USA, July 2018. Presenter: Anthony Cooper (Trainee Presentation)

Lohre R, Aarvold A, Chhina H, Eugenio A, Reilly C, Wilson D, Mulpuri K, Cooper AP. A pilot study to assess dynamic deformation of the femoral head during weight bearing in Perthes disease. LLRS 27th Annual Scientific Meeting, California, USA, July 2018. Presenter: Anthony Cooper (Trainee Presentation)

Sidhu P, Smith J, Chhina H, McMutcheon V, Pike I, Cooper A. Paediatric elbow fractures from a child's viewpoint: does public playground equipment meet the safety standard? Evidence to Innovation, Annual Trainee Day, BC Children's Hospital, Vancouver, Canada, November 2018. Presenter: Anthony Cooper. (Trainee Presentation)

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Dr. Leveille

Podium Presentation – Can pediatric tourniquet practice and guidelines be improved using personalized pressures?”, Canadian Orthopaedic Association Annual Meeting, June 2018

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
International Hip Dysplasia Institute (IHDI)	Prospective observational cohort study of children with hips dislocated at rest	C	\$300,000	2014-2019	K Mulpuri	J Purtzki
BCCH Research Institute Investigator Establishment Award	Pediatric orthopaedic hip research program	C	\$50,000	2015-2020	K Mulpuri	J Purtzki
Canadian Institute of Health Research	Advanced MR Imaging of Perthes Disease to Improve Treatment	C	\$450,000	2019-2023	K Mulpuri	D Wilson, A Cooper, D Rosenbaum, E Schaeffer
Pediatric Orthopaedic Society of North America	A prospective, international hip dysplasia registry with follow-up to skeletal maturity: An analysis of risk	C	\$150,000	2017-2019	K Mulpuri	E Schaeffer C Price T Matheney N Williams J Herrera-Soto W Sankar V Upasani S Kelley A Aarvold E Dodwell L Donnan A Aroojis
Clinical Research Capacity Building Award	Pediatric Orthopaedic Hip Research/Imaging Research Unit	C	\$125,000 (for five years)	2014-2019	K Mulpuri	CW Reilly, D Wilson, H MacDonald, A d'Entremont, A Cooper

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
BCCH Research Institute Investigator Establishment Award	Pediatric orthopaedic hip research program	C	\$250,000	2015-2020	K Mulpuri	
Child and Family Research Institute	Evidence to Innovation	NC	\$8400	2015-2018	K Mulpuri I Pike	
Pediatric Orthopaedic Society of North America	A prospective, international hip dysplasia registry with follow-up to skeletal maturity: An analysis of risk factors, screening practices and treatment outcomes	C	\$150,000	2017-2019	K Mulpuri	E Schaeffer C Price T Matheney N Williams J Herrera-Soto W Sankar V Upasani S Kelley A Aarvold E Dodwell L Donnan A Aroojis
Canadian Orthopaedic Foundation	A prospective, international hip dysplasia registry with follow-up to skeletal maturity: An analysis of risk factors, screening practices and treatment outcomes	C	\$30,000	2018	K Mulpuri	
Harms Study Group Foundation	Adolescent Idiopathic Scoliosis Database Registry	NC	\$35,000	2018	F Miyanji	CW Reilly

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
Harms Study Group Foundation	Prospective Study of Scoliosis in Children with Cerebral Palsy	NC	\$30,000	2018	F Miyanji	CW Reilly
CFRI IGAP	Pediatric Limb Reconstruction	C	\$54,000	2016-2021	A Cooper	
Canadian Orthopaedic Association: Canadian Orthopaedic Research Legacy	Development of a Patient Reported Quality of Life Questionnaire for Children with Lower Limb Deformities	C	\$20,000 (for two years)	2017 - 2019		Dr. Jacek Kopec, Dr. Anne Klassen
Rare Disease Foundation	Congenital Pseudarthrosis of Tibia – Exome Sequencing and Matching Model Organism	C	\$3500	2017 - 2018	A Cooper	C Van Karnebeek
Rare Disease Foundation	A Prospective Study To Assess Dynamic Deformation Of The Femoral Head During Weight Bearing In Perthes Disease	C	\$3500	2017 - 2018	A Cooper	K Mulpuri, D Wilson, CW Reilly
Rare Disease Foundation	Natural History of Morquio B disease – Planning Grant for protocol development for orthopaedic outcomes	C	\$3500	2017 - 2018	A Cooper	S Stockler
Vilex Research Grant	Limb Lengthening and Reconstruction Program	NC	\$50,000	2018-2019	A Cooper	
Evidence to Innovation Research Theme	A Pilot Study To Assess Dynamic Deformation Of The Femoral Head During Weight Bearing In Perthes Disease	C	\$8250	2018-2019	A Cooper	K Mulpuri, D Wilson, CW Reilly

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
POSNA Research Grant – St. Giles Young Investigator Award	PA Prospective Study To Assess Dynamic Deformation Of The Femoral Head During Weight Bearing In Perthes Disease	C	\$30,000	2018 -2019	A Cooper	K Mulpuri, D Wilson, CW Reilly, R Lohre
Rare Disease Foundation	International registry for congenital pseudarthrosis of the tibia	C	\$5, 000	2019-2020	A Cooper	B Joseph, H Shah, R Liu, C Iobst, D Podeszwa, T Nunn, R Hamdy, J Fernandes, J Flanagan, L Reid Nichols, M Thacker, W Mackenzie, S Sabharwal
BC Children's Hospital Foundation	Limb Lengthening Research Program	C	\$160, 000	2019-2022	A Cooper	
Rare Disease Foundation	Exome Sequencing in Congenital Pseudarthrosis of Tibia	C	\$5, 000	2019-2020	A Cooper	
BCCH Research Institute	Risk Factors and Characteristics Associated with Late-presenting Pediatric Anterior Cruciate Ligament Injuries	C	\$15,000 (over 3 years)	2018-2021	L Leveille	Chris Reilly
Canadian Institutes of Health Research (CIHR)	Simple Bone Cyst in Kids	C	\$1,000 (per subject) Total CIHR funding: \$968,081	2014 -2018	JG Wright	AS Doria, S Hopyan, J Stimec, P Babyn <i>Collaborator/Site PI: A Cooper</i>
Canadian Institutes of Health Research (CIHR)	Outcome of hip interventions for children with cerebral palsy – An international multi-center prospective comparative cohort study	C	\$520,000	2014-2019	U Narayanan	K Mulpuri P Selber R Hamdy

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
Canadian Institutes of Health Research (CIHR)	Outcome of hip interventions for children with cerebral palsy – An international multi-center prospective comparative cohort study	C	\$520,000	2014-2019	U Narayanan	K Mulpuri P Selber R Hamdy
The University of British Columbia, Faculty of Medicine Strategic Investment Fund (SIF)	Child-Sized Knowledge Translation	C	\$60,000	04/2018 to 04/2019	S Amed	I Pike K Mulpuri S Glegg J Robillard E Portales-Casamar L Masse M Brussoni J Mah J Jacob R Livingston J Morgan

COMMITTEE PARTICIPATION

2018-2019

Dr. Reilly

- BCCH Department of Paediatric Orthopaedic Surgery, Department Head
- UBC Department of Orthopaedics, Faculty Advisory Committee
- UBC Department of Orthopaedics, Orthopaedic Academic Council Committee
- UBC Department of Orthopaedics, MSc Thesis Committee
- UBC Department of Orthopaedics, Resident Program Committee
- UBC Department of Orthopaedics, Competency of Care Committee
- Chair Department of Orthopaedics Ad Hoc Department Head Selection Committee 2019- 2020
- Member, Faculty of Medicine, Orthopaedic Department Head
- Selection Committee 2020 BCCH Orthopaedic Re-design Committee
- Surgical Cabinet
- Surgical Services Advisory Committee (SSAC)
- The Department of Pediatric Surgery Surgical Cabinet
- Department Heads, Division Heads and Senior Medical Directors Committee
- CST Design Work for Ambulatory
- SSC Project TCON (Complex Orthopaedic) Committee
- Ambulatory Leadership Committee

COMMITTEE PARTICIPATION**2018-2019****Dr. Reilly**

- Physician Leadership Program
- Panel Member, Privileging Dictionary Refresh Program, Ortho Surgery
- Ortho Trauma VAT
- Pediatric Orthopaedic Society of North America
- Association of Surgical Educators
- American Academy of Orthopaedic Surgeons
- Canadian Orthopaedic Association
- Scoliosis Research Society
- International Pediatric Orthopaedic Think Tank
- British Columbia Medical Association
- Canadian Medical Association
- British Columbia Orthopaedic Association
- Journal of Pediatric Orthopaedics, Pediatric Society of North America, Reviewer
- Child and Family Research Institute, Member
- Centre for Hip Health, Member
- Merit & PSA Committee, UBC Department of Orthopaedics, Member
- Muscular Diseases Clinic, BCCH, Consultant

Dr. Alvarez

- Child and Family Health Research Institute, Senior Associate, Clinical Scientist
- Sunny Hill Gait Lab, Medical Co-Director
- Trauma Division Committee, Division of Paediatric Orthopaedics, UBC
- Multiple Hereditary Exostoses (MHE) Scientific Advisory Board, Member
- Anatomy Working Group, Canadian Botulinum Toxin Conference (CBTC), Member
- Steering Committee, Canadian Botulinum Toxin Conference (CBTC), Member
- Canadian Medical Association, Member
- Canadian Orthopaedic Association, Member
- Pediatric Orthopaedic Society of North America, Member
- BC College of Physicians and Surgeons, Member
- Society of Specialists, Member
- BC Orthopaedic Association, Member
- BC Medical Association, member
- Journal of Pediatric Orthopaedics, Reviewer

Dr. Mulpuri

- Research Director for International Hip Dysplasia Institute
- Coordinating Committee Member for the International Perthes Study Group
- Founding President of Canadian Pediatric Orthopaedic Group
- Project Chair for the Medical Allied Staff Engagement
- Theme Lead for Evidence to Innovation (E2i) of BC Children's Research Institute
- Secretary for the Canadian Orthopaedic Association
- Research Director for SCFE Longitudinal International Prospective (SLIP) Registry

COMMITTEE PARTICIPATION

2018-2019

Dr. Mulpuri

- Principal Coordinating Investigator of PedORTHO
- Research Committee on Child Restraint Seat Safety
- Medical Staff Association BC Children's Hospital Redevelopment Committee
- Member, BC Children's Hospital Research Institute Research Leadership Council
- Present Chair, Projects, Medical and Allied Staff Engagement Society (MASES)
- Theme Co-Lead, Evidence to Innovation, BC Children's Hospital Research Institute
- Member, Faculty Mentoring Program, BC Children's Hospital Research Institute
- Evidence Informed Care for Children with Cerebral Palsy in British Columbia Advisory Committee
- Global Surgery Outreach
- Medical Advisory Board Chair for I'm a HIPpy Foundation
- Scientific Coordinator for OncoCollect
- BCCH Foundation Honourary Physician Chair
- Co-Founder of I-CAN Autism Network
- Member, Karnataka Medical Council
- Member, Karnataka Orthopaedic Association
- Member, Indian Orthopaedic Association
- Member, Paediatric Orthopaedic Society of India
- Member, Asia Pacific Orthopaedic Association
- Member, Doctors of BC
- Member, Canadian Medical Association
- Member, Pediatric Orthopaedic Society of North America
- Member, Canadian Orthopaedic Association
- Member, American Association of Orthopaedic Surgeons
- Member, American Academy for Cerebral Palsy and Developmental Medicine
- Member, Centre for Hip Health and Mobility
- Medical Lead, BC Hip Surveillance Initiative, Improving Care for Children in British Columbia with Cerebral Palsy
- Research Director, International Hip Dysplasia Institute
- Member, International Perthes Study Group
- Member, British Columbia Hip Surveillance Program for Children with Cerebral Palsy, Child Health BC
- Past President/Active Member, Canadian Pediatric Orthopaedic Group
- Member, POSNA Research Committee
- Cerebral Palsy Association of British Columbia Advisory Committee
- Editor, Journal of Pediatric Orthopaedics Evidence-Based Medicine section
- Deputy Editor, Journal of the American Academy of Orthopaedic Surgeons Global Pediatric section
- Reviewer, Journal of Pediatric Orthopaedics
- Reviewer, Spine Journal
- Reviewer, Journal of Clinical Epidemiology
- Reviewer, Western Society for Pediatric Research, Regional Meeting
- Reviewer, Canadian Institutes of Health Research (National)
- Reviewer, Journal of Pediatrics (International)
- Reviewer, Journal of Children's Orthopaedics

COMMITTEE PARTICIPATION

2018-2019

Dr. Mulpuri

- Reviewer, Journal of Orthopaedic Surgery
- Reviewer, Journal of Pediatric Orthopaedics, Part B
- Reviewer, Clinical Orthopaedics and Related Research
- Reviewer, Journal of the American Academy of Orthopaedic Surgeons
- Reviewer, POSNA Grants
- Reviewer, Postgraduate Medicine
- Reviewer, Bone and Joint Journal
- Reviewer, BioMed Central Musculoskeletal Disorders
- Director for the Vancouver Area Telugu Association
- International Pediatric Orthopaedic Think Tank

Dr. Miyanji

- Sept 2018 Chair – Scoliosis Research Society Program Committee
- Scoliosis Research Society Program Committee
- Scoliosis Research Society World Wide Committee
- Reviewer: Journal of Pediatric Orthopedics
- Fellowship Director – Pediatric Spine Fellowship, UBC Department of Orthopedics
- QSVI Committee - POSNA
- Scoliosis Research Society Program Committee
- Core Member Growing Spine Study Group
- Scoliosis Research Society Awards and Scholarships Committee
- Collaborative Spine Research Forum Advisory Council Member
- Appointed Member POSNA Research Committee
- Core Member Harms Deformity Study Group
- Scoliosis Research Society – Active Fellow
- Canadian Paediatric Spinal Deformity Study Group
- Paediatric Orthopedic Society of North America – Active Member
- Canadian Spine Society

Dr. Ghag

- Canadian Orthopaedic Association
- American Academy of Orthopaedic Surgeons
- North American Spine Society
- Scoliosis Research Society
- Paediatric Orthopaedic Society of North America
- College of Physicians & Surgeons of British Columbia
- Royal College of Physicians and Surgeons of Canada
- Medical Council of Canada
- Canadian Medical Protective Association
- British Columbia Medical Association
- Scoliosis Research Society Safety & Value Committee
- Pediatric Orthopaedic Society of North America Quality, Safety & Value Initiative Trauma Committee
- Pediatric Orthopaedic Society of North America Quality, Safety & Value Initiative Research Committee and Evidence-based Practice Committee

Dr. Cooper

- BC Trauma Steering Committee, BC Children's Hospital
- Theme Co-Lead, Clinical Practice, Outcomes & Innovation, Evidence to Innovation (E2i), BC Children's Hospital Research Institute

COMMITTEE PARTICIPATION**2018-2019**

Dr. Cooper	<ul style="list-style-type: none"> • BC Children's Hospital BioBank Biospecimen Advisory Committee • BC Children's Hospital Medical Device Reprocessing Department Review (MDRD) • Scientific Review Board Member, Canadian Orthopaedic Association (COA) National • Canadian Paediatric Orthopaedic Group (CPOG) National, Treasurer • Pediatric Orthopaedic Society of North America (POSNA) International, Membership Committee, Member • Pediatric Orthopaedic Society of North America (POSNA) International • The Bone & Joint Journal – Reviewer • UBC Medical Journal, Reviewer
Dr. Leveille	<ul style="list-style-type: none"> • BCCW Redevelopment Project, Sunny Hill/BCCH Site Integration Working Group • BCCH Orthopaedic Clinic Optimization Working Group • BCCH Pain and Comfort Committee Member • Gait and Clinical Movement Analysis Society • Pediatric Research in Sports Medicine Society • Pediatric Orthopedic Society of North America • Canadian Orthopaedic Association • BC Medical Association • Canadian Medical Association • Uganda Sustainable Trauma Orthopaedic Program (USTOP) • PRISM Motion Analysis Research Interest Group • Director Medical Undergraduate Education, Department of Orthopaedics
Dr. Pirani	<ul style="list-style-type: none"> • College of Physicians & Surgeons of BC • British Columbia Medical Association • Canadian Orthopaedic Association • Canadian Pediatric Orthopaedic Group • American Board of Orthopaedic Surgery • American Academy of Orthopaedic Surgeons • Avicenna Physicians Society • Royal College of Physicians & Surgeons of Canada • ASAMI – North America (The Limb Lengthening and Reconstructive Society) • The American Orthopaedic Foot and Ankle Society • Pediatric Orthopaedic Society of North America • Ponseti International Association for the Treatment of Clubfoot, Chair Medical Advisory Board • Pediatric Orthopaedic Society of North America, Children's Orthopaedics in Underdeveloped Regions (COUR) Committee, Member • Global HELP International Board • The International Clubfoot Study Group, Member • The Rotary Club of Burnaby, Member • End Clubfoot Now RAG (Rotary Action Group), Member
Alec Black	<ul style="list-style-type: none"> • Gait and clinical Motion Analysis Society, Member

PUBLICATION RECORDS

2018-2019

Dr. Reilly

- “Nonoperative Treatment of Type IIA Supracondylar Humerus Fractures Comparing 2 Modalities”, Journal of Pediatric Orthopaedics: November/December 2018 - Volume 38 - Issue 10 - p 521-526, Roberts, Lauren, Strelzow, Jason, Schaeffer, Emily K., Reilly, Christopher W., Mulpuri, Kishore

Dr. Alvarez

- “Botulinum Toxin Type A Versus Placebo for Idiopathic Clubfoot – A Two-Center, Double-Blind, Randomized Controlled Trial” J Bone Joint Surg Am. 2018;100:1589-96 <http://dx.doi.org/10.2106/JBJS.17.01652>, Christine M. Alvarez, MD, FRCSC, MSc, James G Wright, MD, MPH, FRCSC, Harpreet Chhina, MSc, Alyssa Howren, BSc, and Peggy Law, MSc

Dr. Mulpuri

- Mulpuri K, Schaeffer EK, Graham K, Kocher MS, Sanders J, Zaltz I. Evidence-based recommendations for paediatric orthopaedic practice. J Pediatr Orthop. 2018 Apr;38(4): e225-e229. doi: 10.1097/BPO.0000000000000876. FA. Impact Factor 2.046
- Teo T, Schaeffer E, Cooper A, Mulpuri K. Do immediate postoperative radiographs change patient management after fracture fixation? A systematic review. J Orthop Trauma. 2018 May;32(5):211-215. doi: 10.1097/BOT.0000000000001152. SA. Impact Factor 1.777. Cited by 2.
- Quader N, Hodgson A, Mulpuri K, Cooper A, Schaeffer E, Abugharbieh R. Using 3D Ultrasound to Improve Reliability in Assessing Developmental Dysplasia of the Hip. EasyChair. 2018; 1: 175-178. CA (contributed data acquisition, data analysis, and manuscript preparation).
- Phillips L, Carsen S, Vasireddi A, Mulpuri K. Use of patient-reported outcome measures in pediatric orthopaedic literature. J Pediatr Orthop. 2018, Sept; 38(8): 393-397. DOI: 10.1097/BPO.0000000000000847. SA. Impact Factor 2.046. Cited by 12.
- Schaeffer EK, Mulpuri K. Developmental dysplasia of the hip: addressing evidence gaps with a multicentre prospective international study. The Medical Journal of Australia. 2018 May;208(8):359-64. SA. Impact Factor 5.332. Cited by 7.
- Quader N, Schaeffer EK, Hodgson AK, Abugharbieh R, Mulpuri K. A systematic review and meta-analysis on the reproducibility of ultrasound-based metrics for assessing developmental dysplasia of the hip. J Pediatr Orthop. 2018 Jul;38(6):e305-e311. SA. Impact Factor 2.046. Cited by 2.
- Teo TL, Schaeffer EK, Mulpuri K. Need for higher quality evidence to determine the utility of postoperative radiography. J Am Acad Orthop Surg Glob Res Rev. 2018 Aug;2(8): e026. doi:10.5435/JAAOSGlobal-D-18-00026. SA. Impact Factor 2.348
- Roberts LE, Strelzow J, Schaeffer EK, Reilly CW, Mulpuri K. Nonoperative Treatment of Type IIA Supracondylar Humerus Fractures: Comparing Two Modalities. J Pediatr Orthop. 2018 Nov/Dec;38(10):521-526. SA. Impact Factor 2.046. Cited by 2.

PUBLICATION RECORDS

2018-2019

Dr. Mulpuri

- Aarvold A, Schaeffer EK, Kelley S, Clarke NMP, Herrera-Soto JA, Price CT, Mulpuri K, IHDI Study Group. Management of irreducible hip dislocations in infants with developmental dysplasia of the hip diagnosed below 6 months of age. *J Pediatr Orthop*. 2018 Jan; 39(1): e39-e43. SA. Impact Factor 2.046. Cited by 1.
- Schaeffer EK, Lubicky J, Mulpuri K. AAOS Appropriate Use Criteria: The management of developmental dysplasia of the hip in infants up to 6 months of age: Intended for use by general pediatricians and referring physicians. *J Am Acad Orthop Surg*. 2018 Apr 15; 27(8): e365-e368. SA. Impact Factor 2.348
- Sankar WN, Gornitzky AL, Clarke NM, Herrera-Soto JA, Kelley SP, Matheney T, Mulpuri K, Schaeffer EK, Upasani VV, Williams N, Price CT. Closed reduction for developmental dysplasia of the hip: early-term results from a prospective, multicenter cohort. *J Pediatr Orthop*. 2019 Mar 1;39(3):111-8. CA. Impact Factor 2.046. Cited by 9.
- Miller SD, Mayson TA, Mulpuri K, O'Donnell ME. Developing a province-wide hip surveillance program for children with cerebral palsy: from evidence to consensus to program implementation: a mini-review. *J Pediatr Orthop*. 2019 Dec 9; CA. Impact Factor 2.046. [Epub ahead of print]

Dr. Miyanji

- Jackson, T, Yaszay, B., Sponseller, PD, Newton, PO., Shah, SA, Miyanji, F, Cahill PJ. Factors associated with surgical approach and outcomes in cerebral palsy scoliosis. *European Spine Journal* Aug 2018, 1-14;
- Brooks, J., Bastrom, T., Bartley, C., Lonner, B., Shah, S., Miyanji, F., Asghar, J., Newton, P. and Yaszay, B. In Search of the Ever-Elusive Postoperative Shoulder Balance: Is the T2 UIV the Key?*. *Spine Deformity* 2018, 6(6), pp.707-711.
- Jackson, T., Yaszay, B., Pahys, J., Singla, A., Miyanji, F., Shah, S., Sponseller, P., Newton, P., Flynn, J. and Cahill, P. Intraoperative Traction May Be a Viable Alternative to Anterior Surgery in Cerebral Palsy Scoliosis ≥ 100
- Degrees. *Journal of Pediatric Orthopaedics*, 2018; 38(5), pp.e278-e284.
- Miyanji, F., Nasto, L., Bastrom, T., Samdani, A., Yaszay, B., Clements, D., Shah, S., Lonner, B., Betz, R., Shufflebarger, H. and Newton, P. A Detailed Comparative Analysis of Anterior Versus Posterior Approach to
- Lenke 5C Curves. *Spine* 2018 43(5), pp.E285-E291.
- Miyanji F, Greer B, Desai S, Choi J, Mok J, Nitikman M, Morrison A. Improving quality and safety in pediatric spine surgery: the team approach. *The Bone and Joint Journal*. Apr 2018;100-B(4):493-498.
- Miyanji F, Nasto L, Sponseller P, Shah S, Samdani A, Lonner B, Yaszay B, Clements D, Narayanan U, Newton P. Assessing the risk/benefit ratio of surgery in CP: is surgery worth it? *J Bone Joint Surg Am*. Apr 2018;100(7):556-563
- Jackson T, Yaszay B, Sponseller PD, Newton PO, Shah SA, Miyanji F, Cahill PJ; Harms Study Group. Factors associated with surgical approach and outcomes in cerebral palsy scoliosis. *Eur Spine J*. 2019 Mar;28(3):567-580. doi: 10.1007/s00586-018-5745-3. Epub 2018 Aug 24.

PUBLICATION RECORDS

2018-2019

Dr. Miyanji

- Brooks JT, Bastrom TP, Bartley CE, Lonner BS, Shah SA, Miyanji F, Asghar J, Newton PO, Yaszay B; Harms Study Group. In Search of the Ever-Elusive Postoperative Shoulder Balance: Is the T2 UIV the Key? *Spine Deform.* 2018 Nov - Dec;6(6):707-711. doi: 10.1016/j.jspd.2018.03.010.
- Brooks JT, Yaszay B, Bartley CE, Bastrom TP, Sponseller PD, Shah SA, Samdani A, Cahill PJ, Miyanji F, Newton PO; Harms Study Group. Do All Patients With Cerebral Palsy Require Postoperative Intensive Care Admission After Spinal Fusion? *Spine Deform.* 2019 Jan;7(1):112-117. doi: 10.1016/j.jspd.2018.06.003.
- Lonner BS, Ren Y, Bess S, Kelly M, Kim HJ, Yaszay B, Lafage V, Marks M, Miyanji F, Shaffrey CI, Newton PO. Surgery for the Adolescent Idiopathic Scoliosis Patients After Skeletal Maturity: Early Versus Late Surgery. *Spine Deform.* 2019 Jan;7(1):84-92. doi: 10.1016/j.jspd.2018.05.012
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- Yaszay B, Jankowski PP, Bastrom TP, Lonner B, Betz R, Shah S, Asghar J, Miyanji F, Samdani A, Newton PO. Progressive decline in pulmonary function 5 years post-operatively in patients who underwent anterior instrumentation for surgical correction of adolescent idiopathic scoliosis. *Eur Spine J.* 2019 Feb 23. doi: 10.1007/s00586-019-05923-4. [Epub ahead of print]
- Talathi NS, Flynn JM, Pahys JM, Samdani AF, Yaszay B, Lonner BS, Miyanji F, Shah SA, Cahill PJ. The Effect of the Level of Training of the First Assistant on the Outcomes of Adolescent Idiopathic Scoliosis Surgery. *J Bone Joint Surg Am.* 2019 Mar 20;101(6):e23. doi: 10.2106/JBJS.18.00018.

Dr. Cooper

- Archer L, Dobbe A, Chhina H, García HV, Cooper AP. Inter- and intra-observer reliability of the pixel value ratio, Ru Li's and Donnan's classification of regenerate quality in pediatric limb lengthening. *J Limb Lengthening Reconstr.* 2018 May 3;4(1):26-33. (Trainee Publication)
- Teo T, Schaeffer E, Cooper AP, Mulpuri K. Do immediate postoperative radiographs change patient management after fracture fixation? A systematic review. *J Ortho Trauma.* 2018 May;32(5):211-15. PMID: 29521686 Impact Factor: 1.826
- Campbell T, Chen C, Chhina H, Chahal R, Cooper AP, Elliott A. Support, information and integration of genetics for children with congenital lower limb deficiencies in British Columbia, Canada. *Paediatrics & Child Health.* 2019 Feb 12;24(6):395-401. PMID: 31528111. Impact Factor 1.059
- Paserin O, Mulpuri K, Cooper AP, Hodgson AJ, Garbi R. Real time RNN based 3D ultrasound scan adequacy for developmental dysplasia of the hip. Granada, Spain. MICCAI 2018. September 16-20 2018. (Trainee Publication)

PUBLICATION RECORDS

2018-2019

Dr. Leveille	<ul style="list-style-type: none"> Davies K, Leveille L, Alvarez C. Instrumented Gait Analysis in Idiopathic Toe Walking. In: Müller B, Wolf S. Handbook of Human Motion, Springer International Publishing; 2018 Mendes Da Costa T, Leveille L, Rosenbaum D. "Quads or Quins? An unexpected cause of atraumatic restricted knee flexion in children." Pediatric Radiology. In Print.
Dr. Pirani	<ul style="list-style-type: none"> Ansar A, Rahman A, Romero L, Haider M, Rahman M, Moinuddin Md, Siddique Md, Mamun Md, Mazumder T, Pirani S, Mathias R, El Arifeen S, Hoque E. Systematic review and meta-analysis of global birth prevalence of clubfoot: a study protocol. BMJ Open. 2018;8:e019246.

INITIATIVES IN PROGRESS

2018-2019

Dr. Reilly	<ul style="list-style-type: none"> The Effect of Femoral Nerve Block on Opioid Requirements Following Anterior Cruciate Ligament Reconstruction in the Paediatric Population: A Double Blind, Prospective, Randomized Controlled Trial – data collection almost completed Mental Health Disturbance in Adolescents following Acute Knee Injury (J Douglas) – protocol development Harms Study Group - Scheuermann's Kyphosis – data collection ongoing Harms Study Group - AIS Database - data collection ongoing Harms Study Group - AIS 2 year post-operative motion - data collection ongoing Harms Study Group – Cerebral Palsy and Scoliosis – ethics approval received; contract negotiations underway with UBC and Harms Study Group Adductor Canal Block in ACL reconstruction Quadricep reconstruction in the management of habitual patellar instability Management of Type 2 supracondylar fractures.
Dr. Alvarez	<p><u>Clubfoot</u></p> <ul style="list-style-type: none"> Fourteen year clinical outcome of children with idiopathic clubfoot treated with manipulation, casting and adjuvant Botulinum A toxin. Proposed venue: Journal of Bone and Joint Surgery (90% completed, data collected and preparing the manuscript) Case Report: Peroneal Nerve Palsy In Clubfoot Population(Data collected and preparing manuscript) A Double-Blind, Randomized Control Trial Comparing Botulinum A Toxin and Placebo in the Treatment of Idiopathic Clubfoot (multicentre trial). Started in 2006, finished data collection February 2011. Waiting for second site to finish data collection.

INITIATIVES IN PROGRESS

2018-2019

Dr. Alvarez

- Genetic Studies of Clubfoot (CTEV) is a collaborative project with University of Houston Texas to explore the genetic causes of clubfoot which is in progress since 2005 (Ongoing data analysis).
- Pedobarographic (Tekscan) analysis of idiopathic clubfeet treated with manipulation, casting, and Botox. (Ongoing data analysis)
- Plantar pressure (EMED) of idiopathic clubfeet treated by the manipulation, casting and Botox (MCB) method. (data collected and analysed, manuscript preparation underway).

Hereditary Multiple Exostoses

- Disease specific questionnaire for Hereditary Multiple Exostoses (Ongoing Data collection)
- The First Clinical Instance of Hereditary Multiple Exostoses in Families (manuscript preparation underway).
- Development of a HME orthopedic severity score (manuscript being submitted).
- Intra-familial variability of Orthopaedic Severity in individuals with Multiple Hereditary Exostoses (ongoing data collection)

Gait

- Gait analysis of clubfoot patients treated with manipulations, casts and Botox (ongoing data collection/analysis)
- Crouch Gait in children with Cerebral Palsy (ongoing data collection)

Dr. Mulpuri

- Mulpuri K. The natural history of Perthes disease in British Columbia in comparison to India. Manuscript in preparation – to be submitted to Pediatric Orthopaedic Society of India.
- Mulpuri K, Devsi J, Doan Q. Caregiver perspective on the participation of their children in long-term clinical research for acute care patients. Manuscript in preparation/data analysis in progress.
- d'Entremont AG, Wilson DR, Mulpuri K. Accuracy of deformity measurement in slipped capital femoral epiphysis: a geometrical modeling study. Manuscript in preparation/data analysis in progress.
- Reilly CW, Ansermino M, Mulpuri K, Purdy FR, Tredwell SJ. The effect of femoral nerve block on opioid requirements following anterior cruciate ligament reconstruction in the paediatric population: A double blind, prospective, randomized controlled trial. Data analysis in progress
- d'Entremont AG, Cooper AP, Mulpuri K. The degree of deformity in slipped capital femoral epiphysis at which point the slip is too severe to pin: A computed tomography simulated model. Data analysis in progress.
- McKay HA, Boyd S, Mulpuri K, Naylor PJ, Khan K, Li L, Rhodes R, Macdonald H. An investigation into risk taking behaviour, bone microstructure, and fracture between the sexes: What underpins fracture in boys compared to girls during growth? Data collection/analysis in progress.
- Mulpuri K, Beauchamp R, Alvarez C. Functional outcomes following orthopaedic surgery based on gait laboratory versus observational gait analysis in ambulatory children with cerebral palsy: A multi-centre pilot randomized control trial. Data collection/analysis in progress.

INITIATIVES IN PROGRESS

2018-2019

Dr. Mulpuri

- d'Entremont AG, Wilson DR, Mulpuri K. CT measures of femoral head sphericity in healed Perthes patients using Statistical Shape Modelling and Sphericity Index. Data collection/analysis in progress.
- Chhina HK, Klassen AF, Kopec J, Mulpuri K, Cooper AP. Development of a quality of life instrument for children with lower limb deformities. Data collection in progress.
- Mulpuri K, Miller SD. Health related quality of life in children with cerebral palsy undergoing surgery for dislocating hips. Data collection in progress.
- Mulpuri K, Reilly C. Quality of referrals sent to pediatric orthopedic clinics. Data collection in progress.
- Miyanji F, Mulpuri K, Reilly C. The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study. Recruitment in progress.
- Miyanji F, Mulpuri K, Reilly C, Poskitt, K. Diffusion MRI as a prognostic tool in growth plate injuries: A pilot study to assess feasibility. Recruitment in progress.
- Mulpuri K, Reilly CW, Tredwell SJ. Management of displaced supracondylar fractures of the humerus using lateral versus crossed K wires: A prospective randomized clinical trial. Recruitment in progress.
- Reilly CW, Mulpuri K, Cooper A, Carsen S. Operative versus non-operative treatment of Gartland Type IIA supracondylar humeral fractures: A prospective study. Recruitment in progress.
- Mulpuri K, Miyanji F, Reilly C, Doan Q. Splinting versus above elbow casting for Type I supracondylar fractures of the humerus in children: A randomized controlled trial. Recruitment in progress.
- Mulpuri K, Davidson D. Validation and reliability testing of the Western Ontario and McMaster Osteoarthritis Scale (WOMAC) hip score in children and adolescents with Perthes disease. Recruitment in progress.
- Mulpuri K, Miyanji F, Reilly CW. A clinical prediction model for growth arrest in pediatric physeal fractures. Recruitment in progress.
- Mulpuri K, Mubarak S, Matheney T, Kelley S, Castaneda P, Foster B, Clarke N, Price C. Prospective observational cohort study of children with hips dislocated at rest. Recruitment in progress.
- Mulpuri K, Abugharbieh R, Hodgson AJ, Quader N. Automatic characterization of the neonatal hip using ultrasound imaging. Recruitment in progress.
- Narayanan U, Mulpuri K, Selber P, Hamdy R. Outcomes of hip interventions for children with cerebral palsy – An international multi-centre prospective comparative cohort study. Recruitment in progress.
- Skarsgard ED, Reilly C, Mulpuri K, Innis SM, Gandhi S. Nutritional status of pre-operative surgical patients: Prevalence of malnutrition and impact on surgical outcomes. Recruitment in progress.
- Cooper AP, Mulpuri K, Reilly CW. Simple bone cysts in kids (SBoCK). Recruitment in progress.
- Cooper AP, Mulpuri K, Reilly CW. Observational study of children with limb problems. Recruitment in progress.

INITIATIVES IN PROGRESS

2018-2019

Dr. Mulpuri

- d'Entremont AG, Wilson DR, Hargreaves B, Mulpuri K. MR measures of mechanical and cartilage health outcomes in Perthes disease – T1rho and morphology. Recruitment in progress.
- Mulpuri K, International Perthes Study Group. A prospective, multi-centre, surgeon controlled non-randomized study comparing 6 weeks vs 6 months of postoperative non-weight bearing (NWB) in patients treated with a surgical containment procedure with the onset of Legg-Calvé-Perthes disease between 8 and 11 years of age. Recruitment in progress.
- Juricic M, Mulpuri K, Bainbridge L. Children with CP across GMFCS levels requiring orthopaedic surgery: The lived experiences of parents. Recruitment in progress.
- Schaeffer EK, Pathy R, Mulpuri K. Do infants with risk factors for developmental dysplasia of the hip require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review. Data collection in progress.
- Ho Y, Schaeffer EK, Mulpuri K. Child reported versus parent reported in Activities Scale for Kids –Performance in pediatric orthopaedics. Recruitment in progress.
- Mammen C, Morrison A, Mulpuri K, Reilly C. Acute Kidney Injury in children following major orthopaedic surgery: A prospective cohort study. Recruitment in progress.
- Pathy R, Schaeffer EK, Mulpuri K. Prospective observational cohort study of children with a slipped capital femoral epiphysis. Recruitment in progress.
- Mulpuri K, Cashin MS, Cooper AP. Outcome analysis of comminuted vs. non-comminuted paediatric femur fractures treated with elastic intramedullary nail fixation. Protocol in development.

Dr. Miyanji

- A Prospective, Multi-center Database Registry of Scoliosis Outcomes in AIS (Op and Non-op)
- A Prospective, Multi-center Database Registry of Scoliosis Outcomes in Cerebral Palsy (Op and Non-op).
- Non-Fusion Spinal Deformity Correction in Idiopathic Scoliosis- A prospective, multi-center registry study of the Harms Study Group.
- Retrospective Multi-Center Study of the Outcomes of Anterior Vertebral Body Tethering for Spinal Deformity Correction in Idiopathic Scoliosis
- Anterior Vertebral Body Tethering Post-Op Motion (AVBT POM)
- FUTURE: Fusionless Treatment of Idiopathic Scoliosis with the Scoli-Tether System During the Growth Period.
- Serum Metal Ion Levels Post Multi-Level Spine Surgery.
- Pediatric Spine Registry (PSSG)
- Topical Tranexamic Acid in Major Pediatric Spine Deformity Surgery: A Randomized Controlled Trial.
- Motion Preservation Evaluation of the Spine in Idiopathic Scoliosis Following Anterior Vertebral Body Tethering.
- AIS Body Image and Psych Study (BI)
- Effect of an Accelerated Discharge Protocol following Posterior Spinal Fusion for AIS.

INITIATIVES IN PROGRESS

2018-2019

Dr. Ghag

- Intraoperative CT Guided Surgical Navigation in Pediatric Spinal Deformity Correction – a Quantification of Radiographic Dose IRB approval and subsequent data acquisition (25% complete)
- Effect of Baseline Blood Pressure on Intraoperative Neuromonitoring in Adolescent Idiopathic Scoliosis Correction Surgery - IRB approval and subsequent data acquisition (25% complete)

Dr. Cooper

- Development of a Quality of Life Instrument for Children with Lower Limb Deformities. Qualitative phase finished / ongoing cognitive debriefing interviews (70% complete).
- Observational Study of Children with Limb Problems (Limb Deformity Database). Recruitment in progress (296 patients recruited, recruitment ongoing, longitudinal study).
- Multicentre Pin Site Infection Study. Recruitment in progress at 12 centres / ethics applications in progress at 6 of the centres (150 patients recruited, 50% complete).
- Next Generation Sequencing in Rare Disorders: Congenital Pseudarthrosis of the Tibia. Recruitment in progress. (6 patients recruited).
- Simple Bone Cysts in Kids (SBoCK). Recruitment in progress (1 patient recruited).
- Evaluating the Accuracy of the Multiplier Method for Estimating the Difference in Leg Lengths in Children with Vascular Anomalies. Patient call-back in progress.
- Preventative Multimodal Analgesia for Children Undergoing Lower Limb Reconstruction with External Fixators: A Prospective Study of Postoperative Pain. Recruitment in progress (22 patients recruited, 73% complete).
- Paediatric Elbow Fractures from the Child's Viewpoint. Manuscript ready for submission.
- Weight-bearing MRI in Perthes. Pilot paper published, more data collection in progress (50% complete).
- Psychological Assessment in Mothers with DDH babies. Manuscript preparation in progress.
- International CPT Registry. Recruitment in progress (7 patients recruited at BCCH, ethics in progress at other sites, 10% complete)
- CHILD Network -Multicentre Limb Deformity Registry- Protocol in development
- Rabbit Femur Project - HA coated pins versus non-HA coated pins. Protocol in development
- Knee Range of Motion Study. Data analysis in progress.
- SCH Type 1 RCT. Protocol developed, ethics in progress.
- Natural History of Morquio B Study – Database undergoing testing
- HRQOL in Fibular Hemimelia – Data analysis and manuscript preparation in progress
- Functional outcomes in children undergoing external fixation - Data analysis in progress
- Design and Fabrication of Patient-Specific Shoe Insoles for Patients with Fibular-Hemimelia- Proposal in progress
- Gait Analysis in children with lower limb deformities- Proposal in progress
- Inter and intra rater reliability of Checketts Grading – Ethics approval in progress

INITIATIVES IN PROGRESS

2018-2019

Dr. Cooper

- Epidemiology of Limb reduction defects - Proposal in progress
- Efficacy and safety of "sleeper plate" in temporary hemi-epiphysiodesis and the observation of "tethering". - Data analysis and manuscript preparation in progress
- Clinical Outcomes in Pediatric Tibial Lengthening and Deformity Correction: A comparison of the Taylor Spatial Frame with the Orthex ring fixator- Manuscript under review
- Management of Genu Recurvatum (case series) - Manuscript under review

Dr. Leveille

- Delay in Diagnosis and Management of Adolescent Anterior Cruciate Ligament Injuries in a Publicly Funded Healthcare System. Manuscript preparation, pending submission to BCMJ.
- Quads or Quins? An unexpected cause of atraumatic restricted knee flexion in children. Accepted case report in Pediatric Radiology.
- Changes in Pedobarography, Fluidity of Movement and Range of Motion in Adolescent Patients Undergoing myoActivation for Chronic Pain related to Myofascial Dysfunction. Pilot project initiated and prospective protocol in development.
- Motion Preservation Evaluation of the Spine in Idiopathic Scoliosis Following Anterior Vertebral Body Tethering: two- and three-dimensional approaches. Protocol in development.
- Quadriceps realignment and rectus femoris re-routing: description of a novel procedure for proximal extensor mechanism realignment in skeletally immature patients. Data collection/analysis in progress.
- Split Tibialis Posterior Tendon Transfer (SPOTT) for Equinovarus Foot in Cerebral Palsy. Data collection/analysis in progress.
- Psychological Impact of Delayed ACL Reconstruction in Adolescents. Protocol in development.
- Differences in caregiver perspective on quality of life of children with cerebral palsy. Data collection/analysis in progress.
- Complications of bilateral, staged, and unilateral hip reconstruction surgery for children with CP. Data collection/analysis in progress.
- Adductor Canal Block in the Management of Post-op Pain in Pediatric ACL Reconstruction, Development of a Prospective Study. Retrospective review in progress and prospective protocol in development.
- Acute and Persistent Postoperative Developmental Decline in Patients with Cerebral Palsy. Data collection/analysis in progress.
- Gait analysis outcomes in patients having undergone selective percutaneous myofascial lengthening. Protocol in Development.
- Hip Displacement in Asymmetric Diplegia - Are all children at GMFCS II and III the same? Data collection/analysis in progress.

Dr. Pirani

- Uganda Sustainable Clubfoot Care Project (USCCP)
- Sustainable Clubfoot Care in Bangladesh (SCCB)

DIVISION OF PEDIATRIC ORTHOPAEDIC SURGERY

2019-2020



FACULTY MEMBERS

2019-2020



Dr. Christopher W. Reilly
Associate Professor,
Department Head



Dr. Christine M. Alvarez,
Clinical Associate
Professor

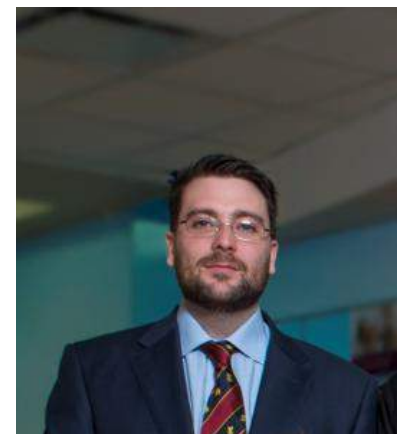


Dr. U.K. Kishore Mulpuri,
Associate Professor



Dr. Firoz Miyanji
Clinical Assistant
Professor

Dr. Arvinder Ghag
Clinical
Instructor



Dr. Anthony Cooper
Clinical Assistant
Professor



Dr. Lise Leveille
Clinical Instructor

Dr. Shafique P. Pirani
Clinical
Professor

Alec Black
Clinical
Instructor

STAFF MEMBERS

2019-2020

- | | |
|---|--|
| <ul style="list-style-type: none"> • Kristen Adams, <i>Administrative Coordinator</i> • Emily Schaeffer, <i>Research (for Drs. Reilly and Mulpuri)</i> • Eva Habib, <i>Research (for Dr. Mulpuri)</i> • Roya Yamini, <i>Research (for Dr. Mulpuri)</i> • Harpreet Chhina, <i>Research (for Dr. Cooper)</i> • Michele Stark, <i>MOA to Dr. C. Reilly</i> • Marilynn Timbrell and Brenda Whitworth, <i>MOAs to Dr. C. Alvarez</i> • Salima Damani <i>MOA to Dr. K. Mulpuri</i> • Susan Ramiscal <i>MOA to Dr. A. Cooper</i> • Valerie Walsh, <i>MOA to Dr. F. Miyanji and Dr. A. Ghag</i> • Melissa Hart, <i>MOA to Dr. Leveille</i> • Anna Stonehouse, <i>MOA to Dr. S. Pirani</i> • Dolly Khanna, <i>Nurse Clinician</i> | <ul style="list-style-type: none"> • Dolly Khanna, <i>Nurse Clinician</i> • Wendy Krishnaswamy <i>Nurse Clinician</i> • Alyssa Robinson, <i>Clinic Nurse</i> • Jennifer Dunlop, <i>Nurse Practitioner</i> • Fidel Brooks, <i>Cast Technician</i> • Ricardo Botia, <i>Cast Technician</i> • Shelinah Kabani, <i>Orthopaedic Clinic</i> • Manjit Bains, <i>Orthopaedic Clinic</i> • Janis Bui, <i>Orthopaedic Clinic</i> • Stacey Miller, <i>PT, CP Hip Surveillance</i> • Nandy Farjardo, <i>PT, Ortho Clinic</i> • Maria Juricic, <i>PT, Ortho Clinic</i> • Daphne O'Young, <i>OT, Ortho Clinic</i> |
|---|--|

HIGHLIGHTS & ACHIEVEMENTS 2019-2020

Dr. Reilly

Stephen J Tredwell Visiting Professor Education Day. Dr. Haemish Crawford, Visiting Professor. BCCH Department of Orthopaedics, Vancouver, BC, November 9, 2018

Dr. Miyanji

1. PHSA+ Award for the development and implementation of the Pediatric Spine Surgery Team at BCCH; PHSA Leadership Forum, Vancouver, BC
2. Maurice Duhaimes Visiting Professorship – St. Justine's Hospital, Montreal Canada

TEACHING ACTIVITIES 2019-2020

FELLOWS SUPERVISED

Dr. Christopher Chapman (Canada)	August 1, 2017 - July 31, 2019
Dr. Jonathan Lau (Canada)	August 1, 2018 – July 31, 2019
Dr. Nikki Hooper (New Zealand)	August 1, 2018 – July 31, 2019
Dr. Liam Johnson (Australia)	August 1, 2018 – July 31, 2019
Dr. Madhava Pai (India)	April 8 – October 31, 2019
Dr. Karthik Asthi (India)	August 1, 2019 – October 31, 2020
Dr. Sultan Aldebeyan (Saudi Arabia)	August 1, 2019 – July 31, 2020
Dr. Sarah Farrell (Australia)	August 1, 2019 – July 31, 2020
Dr. Paul Rushton (United Kingdom)	August 1, 2019 – July 31, 2020
Dr. Juergen Messner (United Kingdom)	August 1, 2019 – July 31, 2020
Dr. Jessica Page (Canada)	February 3 – March 31, 2020

TEACHING ACTIVITIES CON'T**2019-2020**

FELLOW ELECTIVES	Anas Manouzi (Pediatric Emergency Fellow, UBC)	July 1 - 28, 2019
	Kate Maki (Pediatric Emergency Fellow, UBC)	July 29 – August 25, 2019
	Steve Leung (Pediatric Emergency Fellow, UBC)	August 26 – September 22, 2019
RESIDENTS SUPERVISED	Stephen St. George, PGY2	April 8 – June 30, 2019
	Aly Alsaifan, PGY2	July 1 – September 22, 2019
	Lindsay Anderson, PGY5	July 1 – September 22, 2019
	Christopher Day, PGY5	September 23 – December 15, 2019
	Colby Finney, PGY2	September 23 – December 15, 2019
	Akshay Lobo, PGY2	October 21 – December 15, 2019
	Amar Cheema, PGY5	December 16, 2019 – March 8, 2020
RESIDENT ELECTIVES	John Steyn, PGY2	December 16, 2019 – March 8, 2020
	Kevin Morash (Dalhousie)	July 29 – August 23, 2019
	Alvin Ip (Pediatric Rehab Resident, UBC)	August 26 – November 4, 2019
STUDENTS SUPERVISED	Courtney Bull (MUN)	February 24 – March 27, 2020
	Medical Students – 10 BCIT Prosthetic & Orthotics Shadowing Students – 12 Other Shadowing students – 6	

**SCHOLARLY & PROFESSIONAL
ACTIVITIES****2019-2020**

Dr. Reilly	2019 Stephen J Tredwell Visiting Professor Education Day, October 25, 2019 Lecture Title: Anterior cruciate ligament reconstruction in young patients, what is our approach?
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SCHOLARLY & PROFESSIONAL ACTIVITIES CONT'D

2019-2020

Dr. Mulpuri

Child Health BC Hip Surveillance Program for Children with Cerebral Palsy: Update, Impact, and Next Steps. Child Health BC Steering Committee. Vancouver, Canada, April 26, 2019.

Case-based discussion of surgical management of pediatric cerebral palsy patients. Balaji Institute of Surgery, Research and Rehabilitation for Disabled (BIRRD), Tirupati, India, July 24, 2019.

Surgical Dislocation Approach for Management of Slipped Capital Femoral Epiphysis. Balaji Institute of Surgery, Research and Rehabilitation for Disabled (BIRRD), Tirupati, India, July 25, 2019.

Hip Surveillance Program for Children with Cerebral Palsy. Balaji Institute of Surgery, Research and Rehabilitation for Disabled (BIRRD), Tirupati, India, July 26, 2019.

Invited Lecturer, Femoral Neck Fractures and Hip Dislocations Around the Pediatric Hip. Vijayawada Orthopaedic Club, Vijayawada, India, August 16, 2019.

Femur Neck Fracture and Hip Dislocation in Children. International Fractures in Children Symposium. Jaipur, India, August 24, 2019.

Visiting Professor, Screening for Developmental Dysplasia of the Hip. 5th Jishuitan Hip Summit Forum 2019. Beijing, China, September 5, 2019.

Visiting Professor, Management of the Hip in Cerebral Palsy. 5th Jishuitan Hip Summit Forum 2019. Beijing, China, September 5, 2019.

Visiting Professor, Randomized Controlled Trials in Pediatric Orthopaedics. 5th Jishuitan Hip Summit Forum 2019. Beijing, China, September 6, 2019.

Updates on the International Hip Dysplasia Registry. 5th Jishuitan Hip Summit Forum 2019. Beijing, China, September 6, 2019.

Visiting Professor, Treatment of Residual Dysplasia of the Hip. 5th Jishuitan Hip Summit Forum 2019. Beijing, China, September 7, 2019.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Mulpuri

Visiting Professor, Screening for Developmental Dysplasia of the Hip and Early Treatment. Tianjin Children's Hospital, Tianjin, China, November 13, 2019.

Visiting Professor, Research Overview of BC Children's Hospital and Mulpuri Research Lab. Shanghai United Family Hospital, Shanghai, China, November 15, 2019.

Visiting Professor, International Hip Dysplasia Registry 2019 Update. Shanghai Children's Medical Center, Shanghai, China, November 15, 2019.

Visiting Professor, Child Health BC Hip Surveillance Program. Shanghai Children's Medical Center, Shanghai, China, November 15, 2019.

Visiting Professor, Research Overview of BC Children's Hospital and Mulpuri Research Lab. Shandong University Qilu Hospital, Shandong, China, November 18, 2019.

Visiting Professor, International Hip Dysplasia Registry 2019 Update. Shandong Provincial Hospital, Shandong, China, November 18, 2019.

Visiting Professor, Research Overview of BC Children's Hospital and Mulpuri Research Lab. Shandong Provincial Hospital, Shandong, China, November 18, 2019.

Visiting Professor, SCFE- Moderate to Severe Deformities: Standard of Care. Ganga Medical Center Hospital, Coimbatore, India, January 9-10, 2020.

Visiting Professor, Relative Neck Lengthening. Ganga Medical Center Hospital, Coimbatore, India, January 9-10, 2020.

Visiting Professor, Global Burden of Hip Dysplasia – Can We Predict a Trend? 26th Annual Conference of the Paediatric Orthopaedic Society of India, Coimbatore, India, January 11-12, 2020.

Moderator, Lower Limb Cases and Discussion. Canadian Paediatric Orthopaedic Trauma Course, Whistler, BC, Canada, January 23-25, 2020

Co-Chair, CANOSC: Research in Neuro-Orthopaedics for Spasticity. Assessment and Treatment. Canadian Advances in Neuro-Orthopaedics for Spasticity Congress. April 4-6, 2019. UBC, Vancouver, Canada.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Mulpuri

Co-Chair, CANOSC: Research in Neuro-Orthopaedics for Spasticity. Translation of Surgical Knowledge from Pediatric to Adult World: Management of Spasticity. Canadian Advances in Neuro-Orthopaedics for Spasticity Congress. April 4-6, 2019. UBC, Vancouver, Canada.

e-Moderator, POSNA: Hip Paper Presentation Session. Pediatric Orthopaedic Society of North America Annual Meeting, Charlotte, NC, May 15 - 18, 2019.

Chair, Neglected Trauma. Canadian Orthopaedic Association - Indian Orthopaedic Association Symposium, Kolkata, India, November 19-24, 2019

Child Health BC Hip Surveillance Program. International Pediatric Orthopaedic Think Tank, Quebec City, QC, September 26, 2019

Miller S, Juricic M, Schaeffer E, Steinbok P, Mulpuri K. The Effect of Selective Dorsal Rhizotomy on Hip Displacement in Children with Cerebral Palsy: A Long Term Follow Up Study. ePoster. Pediatric Orthopaedic Society of North America Meeting, Charlotte, North Carolina, May 15-18, 2019. Senior Author

Shea K, Burlile J, Taylor I, Mulpuri K, Geng X, Schaeffer E, Habib E, Vagelakos L, Price C. Developmental Dysplasia of the Hip: Care Practices of Orthopaedic Surgeons in North America. Poster. Pediatric Orthopaedic Society of North America Meeting, Charlotte, North Carolina, May 15-18, 2019. Contributing Author

Schaeffer E, Bone J, Sankar W, Matheney R, IHDI Study Group, Mulpuri K. Predictors of Avascular Necrosis of the Femoral Head Following Closed or Open Reduction in the Treatment of Developmental Dysplasia of the Hip. Podium.

Pediatric Orthopaedic Society of North America Meeting, Charlotte, North Carolina, May 15-18, 2019. Senior Author

Herrera-Soto J, Schaeffer E, Mulpuri K, Sankar W, Williams N, Matheney T, Upasani V, IHDI Study Group. The Fate of the Stubborn Hip in Bilateral Cases Where One Hip Reduces on Initial Treatment: How Many and What to Do? Poster.

Pediatric Orthopaedic Society of North America Meeting, Charlotte, North Carolina, May 15-18, 2019. Contributing Author

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Mulpuri

Pandey P, Quader N, Mulpuri K, Guy P, Garbi R, Hodgson A. Shadow Peak: Accurate Real-time Bone Segmentation for Ultrasound and Developmental Dysplasia of the Hip. 19th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, New York, New York, Jun 19-22, 2019. Contributing Author

Miller S, Habib E, Schaeffer E, Yang B, Shore B, Bone J, Mulpuri K. Inter and Intra-rater reliability of the Identification of a "Gothic Arch" in the Acetabulum of Children with Cerebral Palsy. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author *COA High Scoring Poster

Schaeffer E, Aroojis A, Shah H, Krishnamoorthy V, Patwardhan S, Sahu C, IHDI Study Group, Mulpuri K. The Importance of Globalization in Prospective Study Groups: Increasing the Relevance of Research on Developmental Dysplasia of the Hip to a Global Patient Population. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author *COA High Scoring Poster

Frysch C, Schaeffer E, Teo T, Bone J, Mulpuri K. Assessing the Needing for Orthopaedic Follow-Up in the Management of Pediatric Clavicle Fractures: A Retrospective Review. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Maleki A, Schaeffer E, Aliabouni R, Stampe K, Bone J, Mulpuri K. Validation and Reliability Testing of the Western Ontario and McMaster Osteoarthritis Scale Hip Score in Children and Adolescents with Legg-Calvé-Perthes Disease. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Habib E, Krishnaswamy W, Schaeffer E, Mulpuri K. Telehealth & Teleradiology Services at a Tertiary Care Centre. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Mulpuri

Zakani S, Chapman C, Saule A, Cooper A, Wilson D, Mulpuri K. Computer-Assisted Subcapital Correction Osteotomy in Slipped Capital Femoral Epiphysis Using Individualized Drill Templates. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Chapman C, Zakani S, Mulpuri K. Three-Dimensionally Printed Patient Specific Instrumentation in Corrective Osteotomy of the Femur and Pelvis: A Systematic Review. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Ghoto A, Ahmad D, Schaeffer E, Habib E, Mulpuri K. Quality Assessment of Systematic Reviews Conducted in Pediatric Orthopaedics. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Hooper N, Schaeffer E, Pathy R, Copper A, Reilly C, Mulpuri K. A Clinical Prediction Model for Growth Arrest in Pediatric Physeal Fractures. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Miller S, Juricic M, Schaeffer E, Steinbok P, Bone J, Mulpuri K. The Effect of Selective Dorsal Rhizotomy on Hip Displacement in Children with Cerebral Palsy: A Long Term Follow Up Study. Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Teo R, Schaeffer E, Cerukupalli A, Cooper A, Aroojis A, Sankar W, Upasani V, Carsen S, Mulpuri K, Bone J, Reilly C. Reliability of the Gartland Classification System for Extension-Type Supracondylar Humerus Fractures. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Paserin O, Garbi R, Hodgson A, Cooper A, Mulpuri K. Automatic Evaluation of 3D Femoral Head Coverage Variability for Dynamic Assessment of Hip Dysplasia. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Mulpuri

Schaeffer E, Bone J, Sankar W, Matheney T, IHDI Study Group, Mulpuri K. Predictors of Avascular Necrosis of the Femoral Head Following Closed or Open Reduction in the Treatment of Developmental Dysplasia of the Hip. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Sanatani G, Habib E, Schaeffer E, Bone J, Mulpuri K. Assessing the Need for Orthopaedic Follow-Up in the Management of Pediatric Femoral Fractures: A Retrospective Review. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Yamini R, Schaeffer E, Bajno L, Krishnaswamy W, Randhawa M, Mulpuri K. Multidisciplinary Clinic for Developmental Dysplasia of the Hip. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Annual Meeting, Montreal, Quebec, Jun 19-22, 2019. Senior Author

Miller S, Lau J, Juricic M, Jivraj B, Steinbok P, Miyanji F, Mulpuri K. The Effect of Selective Dorsal Rhizotomy on Spinal Deformities in Children with Cerebral Palsy: A Long Term Follow Up Study. American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. Senior Author

Couse M, Guimond C, Birch P, Lau E, Liang N, Horvath G, Mulpuri K, To S, van Karnveek C, Lehman A, Friedman J. Expanding the Genetic Spectrum of Cerebral Palsy: Trio Whole Genome Sequencing of 38 Families Identifies Genetic Causes in 18 Different Genes. American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. CA.

Miller S, Mulpuri K, O'Donnell M. Investigating Pediatricians' Knowledge and Learning Needs Related to Cerebral Palsy. Poster. American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. Senior Author

Sullivan E, Jones C, Miller S, Lee KM, Park MS, Wilson D, Mulpuri K, D'Entremont A. Effect of positioning error on the Hilgenreiner epiphyseal angle compared to the femoral neck-shaft angle in children with cerebral palsy. Poster. American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. Senior Author

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Mulpuri

Miller S, O'Donnell M, Mulpuri K. Impact of Hip Surveillance on Surgical Practice: What makes a difference? Poster. American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. Senior Author

Juricic M, Schaeffer E, Miller S, Shore B, Narayanan U, Mulpuri K. CHOP: Center Variability in Baseline Presentation and Management. Poster. . American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. Senior Author

Juricic M, Miller S, Salazar MG, Fajardo N, Leveille L, Mulpuri K. Unilateral Hip Reconstruction Surgery for Children with CP. Poster. American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. Senior Author

O'Young D, Magnuson S, Mulpuri K, Zwicker J. Positioning after Hip Containment Surgery: Are Hip Abduction Splints Effective in Maintaining Hip Position? Poster. American Academy of Cerebral Palsy and Developmental Medicine, Anaheim, California, Sep 17-21, 2019. Senior Author

Dr. Miyanji

Blake M Bodendorfer, MD; Suken A. Shah, MD; Tracey P. Bastrom, MA; Baron S. Lonner, MD; Burt Yaszay, MD; Amer F. Samdani, MD; Firoz Miyanji, MD, FRCS(C); Patrick J. Cahill, MD; Paul D. Sponseller, MD; Randal R. Betz, MD; David H. H Clements III, MD; Lawrence G. Lenke, MD; Harry L. Shufflebarger, MD; Peter O. Newton, MD. Restoration of Thoracic Kyphosis in Adolescent Idiopathic Scoliosis over a Twenty-Year Period: Are We Getting Better? Pediatric Orthopaedic Society of North America Annual Meeting, Charlotte, USA, May 2019.

Shah S, Hughes J, Yaszay B, Bastrom T, Bartley C, Sponseller P, Cahill P, Abel M, Miyanji F, Samdani A, Newton P. Curve Flexibility is a significant predictor of Surgical Morbidity for patients with Cerebral Palsy and Severe Scoliosis. Pediatric Orthopaedic Society of North America Annual Meeting, Charlotte, USA, May 2019.

Fletcher N, Murphy J, Harris H, Goldberg J, Austin T, Miyanji F. Accelerated Discharge Pathway resulted in 50% decrease in Length of Stay, Lower Pain at Discharge, and Earlier Return to School than a Traditional Pathway following Posterior Spinal Fusion for AIS: A Prospective Study. Pediatric Orthopaedic Society of North America Annual Meeting, Charlotte, USA, May 2019.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Miyanji

Miyanji F, Pawelek J, Nasto LA, Parent S. A Prospective, Multicenter Analysis of the Efficacy of Anterior Vertebral Body Tethering (AVBT) in the Treatment of Idiopathic Scoliosis . Pediatric Orthopaedic Society of North America Annual Meeting, Charlotte, USA, May 2019.

Miyanji F. Building OR Teams. Scoliosis Research Society Annual Meeting – Pre-meeting Course. Montreal, Canada, Sept 2019.

Miyanji F, Petcharaporn, Rushton P, Marks M. Vertebral Body Tethering: Truly Motion Preserving or Rather Motion Limiting? Canadian Spine Society, Toronto, Canada, Feb 2020.

Albedeyan S, Rushton P, Ghag R, Sponseller P, Samdani A, Yaszay B, Newton P, Miyanji F. Anterior Release for Idiopathic Scoliosis: is it Necessary for Curve Correction? Canadian Spine Society, Toronto, Canada, Feb 2020.

Rushton P, Albedeyan S, Ghag R, Sponseller P, Samdani A, Yaszay B, Newton P, Miyanji F. What is the effect of intraoperative halo-femoral traction on correction of adolescent idiopathic scoliosis (AIS)? Canadian Spine Society, Whistler, Canada, Feb 2020

Miyanji F, Nasto L, Sponseller P, Marks M, Samdani A, Clements D, Narayanan U, Newton PO. Health-state utility values in cerebral palsy patients following deformity surgery: Are we now ready for cost-utility analysis in this patient population? Pediatric Orthopaedic Society of North America Annual Meeting, Charlotte, USA, May 2019.

Rushton P, Albedeyan S, Ghag R, Sponseller P, Samdani A, Yaszay B, Newton P, Miyanji F. What is the effect of intraoperative halo-femoral traction on correction of adolescent idiopathic scoliosis (AIS)? International Meeting of Advanced Spinal Techniques, Athens, 2020.

Invited Faculty: The Canadian Course on Growth Modulation, McGill University, Montreal, QC, Sept 2019

Invited Faculty: ICL: Vertebral Body Tethering: Rationale, Results, and Revisions – State-of-the-Art and Future Directions in Fusionless Scoliosis Correction. AAOS, Orlando, FL Mar 2020.

Invited Faculty: Options of Sacral and Pelvic Fixation. Pediatric Spinal Deformity: A Contemporary and Comprehensive Review, Miami, Feb 2020

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Miyanji

Invited Faculty: VBT - Indications and Surgical Technique. Industry Spotlight. International Pediatric Orthopedic Society Meeting. Orlando FL, Dec 2019.

Invited Faculty: VBT - Indications and Surgical Technique. The Tether Day. Denver, CO Aug 2019.

Invited Faculty: VBT - Indications and Surgical Technique. The Tether Day. Denver, CO Nov 2019.

Invited Faculty: Building OR Teams. Pre-meeting Course. SRS Annual Meeting, Montreal, Canada, Sept 2019

AIS Session I Moderator: SRS Annual Meeting, Montreal, Canada, Sept 2019.

Invited Faculty: SRS Webinar: VBT - Indications and Surgical Technique. April 2019.

Invited Faculty: How I Do Research in a National Healthcare System. Research Symposium. POSNA Annual Meeting, Charlotte, USA, May 2019

Dr. Cooper

Institution of a Standardized Multimodal Pain Pathway Including Intravenous Lidocaine Reduces Post-Operative Pain and Opiate Requirements in Patients Undergoing Application of External Fixation for Limb Deformity Correction. Presenter at UBC Anaesthesia rounds, Vancouver, September 4, 2019

Evidence, Research, Results: A Paediatric Update. Panellist at COA Webinar, Nov 21, 2019

Sunnyhill Education Day, Limb Reconstruction Frame, January 2019
Canadian Pediatric Orthopaedic Trauma Course facilitator, January 2020

Organizer: Canadian Paediatric Orthopaedic Trauma Course, January 23-25, 2020

Sidhu P, Smith J, Chhina H, McCutcheon V, Pike I, Cooper AP. Paediatric elbow fractures from a child's viewpoint: does public playground equipment meet the safety standard? Canadian Orthopaedic Association (COA) Annual Meeting, Montreal, Canada, June 2019. (Trainee Presentation)

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Cooper

Chhina H, Klassen A, Kopec J, Oliffe J, Cooper AP. What matters to children with lower limb deformities; an international qualitative study informing the development of LIMB-Q Kids. Experimental Medicine Research EXPO, Faculty of Medicine, UBC, October 2019. (Trainee presentation).

Sidhu P, Smith P, Chhina H, Abad J, Lim B, Pike I, Cooper AP. Paediatric elbow fractures: Public playground equipment does not meet the safety standard. Evidence to Innovation, Annual Trainee Day, BC Children's Hospital, Vancouver, Canada, November 1, 2019. (Trainee Presentation).

Gerges M, Eng H, Chhina H, Cicero M, Bilbily A, Cooper AP. Modernization of bone age: Comparing the accuracy and reliability of artificial intelligence algorithm and short hand bone age to Greulich and Pyle. Evidence to Innovation, Annual Trainee Day, BC Children's Hospital, Vancouver, Canada, November 2019. (Trainee Presentation).

Peterson V, Sidhu P, Chhina H, Smith J, Pike, I, Cooper A. Risk-taking behaviours and context of paediatric elbow fractures – A pilot study. Canadian Orthopaedic Association (COA) Annual Meeting, Montreal, Canada, June 2019. Presenter: Anthony Cooper.

Cooper A. Intramedullary gradual lengthening and acute shortening – Where are we now?. Canadian Orthopaedic Association (COA) Paediatric Symposium: Update on deformity, Montreal, Canada, June 2019.

Chhina H, Klassen A, Kopec J, Oliffe J, Cooper A. What matters to children with lower limb deformities; an international qualitative study informing the development of LIMB-Q Kids. International Society of Quality of Life Research Annual Meeting, San Diego, October 2019. (Trainee presentation)

Chhina H, Klassen A, Kopec J, Oliffe J, Cooper A. What matters to children with lower limb deformities; an international qualitative study informing the development of LIMB-Q Kids. The Annual Stephen J. Tredwell Visiting Professor Education Day, Department of Orthopaedics, Faculty of Medicine, UBC, October 2019. (Trainee presentation)

Dr. Leveille

Poster Presentation – Delay in Diagnosis and Management of Adolescent Anterior Cruciate Ligament Injuries in a Publicly Funded Healthcare System”, Pediatric Research in Sports Medicine Annual Meeting, January 2020

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Dr. Leveille

Invited Presenter: "Lower Limb Spasticity Management: Gait Analysis and Novel Surgical Techniques" Canadian Advances in Neuro-Orthopedics for Spasticity Congress, Vancouver, BC, April 2019

2019 Stephen J Tredwell Visiting Professor Education Day, October 25, 2019

Lecture Title: Anterior cruciate ligament reconstruction in young patients, what is our approach?

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
International Hip Dysplasia Institute (IHDI)	Prospective observational cohort study of children with hips dislocated at rest	C	\$300,000	2014-2019	K Mulpuri	
BCCH Research Institute Investigator Establishment Award	Pediatric orthopaedic hip research program	C	\$50,000	2015-2020	K Mulpuri	
Canadian Institute of Health Research	Advanced MR Imaging of Perthes Disease to Improve Treatment	C	\$450,000	2019-2023	K Mulpuri	D Wilson, A Cooper, D Rosenbaum, E Schaeffer
Pediatric Orthopaedic Society of North America	A prospective, international hip dysplasia registry with follow-up to skeletal maturity: An analysis of risk factors, screening practices and treatment outcomes	C	\$150,000	2017-2019	K Mulpuri	E Schaeffer C Price T Matheney N Williams J Herrera-Soto W Sankar V Upasani S Kelley A Aarvold E Dodwell L Donnan A Aroojis
BCCH Clinical Research Capacity Building Award	Pediatric Orthopaedic Hip Research/Imaging Research Unit	C	\$125,000 (for five years)	2014-2019	K Mulpuri	CW Reilly, D Wilson, H MacDonald, A d'Entremont, A Cooper

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
BC Children's Hospital Research Institute Investigator Establishment Award	Pediatric orthopaedic hip research program	C	\$250,000	2015-2020	K Mulpuri	
Canadian Orthopaedic Foundation	A prospective, international hip dysplasia registry with follow-up to skeletal maturity: An analysis of risk factors, screening practices and treatment outcomes	C	\$30,000	01/2018 - present	K Mulpuri	
Centre for International Child Health	Centre for International Child Health: China Care Pathway Development and Knowledge Exchange	NC	\$40,000	2019-2021	K Mulpuri E Schaeffer	R Yamini
BC Children's Hospital Foundation	Digital Innovation Through mHealth	C	\$850,000	2019-present	M Ansermino G Durmont M Gorges K Mulpuri	
Centre for International Child Health	China Care Pathway Development and Knowledge Exchange Project	C	\$40,000	2019-present	K Mulpuri	E Schaeffer
Canadian Institutes of Health Research	Advanced MR Imaging of Perthes Disease to Improve Treatment	C	\$451,352	2019-2023	K Mulpuri D Wilson (Co-PI)	A Cooper D Rosenbaum E Schaeffer
AO Documentation and Publishing Foundation, Clinical Investigation and Documentation (AOCID)	PedORTHO: A prospective multicenter observational registry of orthopaedic trauma and health outcomes in skeletally immature children	C	\$1,360,000	2019-2025	K Mulpuri	E Schaeffer A Joeris

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
BC Children's Hospital Foundation	Peterson Fund for Global Hip Health	NC	\$500,000	2020 - 2023	K Mulpuri	E Schaeffer
British Columbia Orthopaedic Association	PedORTHO: A prospective multicenter observational registry of orthopaedic trauma and health outcomes in skeletally immature children	C	\$25,000	2020 - 2025	K Mulpuri	E Schaeffer A Joeris
BC Children's Hospital Research Institute	Evidence to Innovation	NC	\$250,000	2015 - 2020	K Mulpuri I Pike	BC Children's Hospital Research Institute
POSNA Clinical Research Award	Effect of Mix-Metal Instrumentation on Blood Metal Ion Levels in Scoliosis	C	\$30,000	2020	F Miyanji	P. Rasoulnejad
Harms Study Group Foundation	Adolescent Idiopathic Scoliosis Database Registry	NC	\$35,000	2019	F Miyanji	CW Reilly
Harms Study Group Foundation	Prospective Study of Scoliosis in Children with Cerebral Palsy	NC	\$30,000	2019	F Miyanji	CW Reilly
CFRI IGAP	Pediatric Limb Reconstruction	C	\$54,000	2016 - 2021	A Cooper	
Canadian Orthopaedic Association: Canadian Orthopaedic Research Legacy	Development of a Patient Reported Quality of Life Questionnaire for Children with Lower Limb Deformities	C	\$20,000 (for two years)	2017 - 2019	A Cooper	Dr. Jacek Kopec, Dr. Anne Klassen
Vilex Research Grant	Limb Lengthening and Reconstruction Program	NC	\$50,000	2018-2019	A Cooper	

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
Evidence to Innovation Research Theme	A Pilot Study To Assess Dynamic Deformation Of The Femoral Head During Weight Bearing In Perthes Disease	C	\$8,250	2018 -2019	A Cooper	K Mulpuri, D Wilson, CW Reilly
BC Children's Hospital Foundation	Limb Lengthening Research Program	C	\$160, 000	2019-2022	A Cooper	
Rare Disease Foundation	Exome Sequencing in Congenital Pseudarthrosis of Tibia	C	\$5, 000	2019-2020	A Cooper	
BCCH Research Institute	Risk Factors and Characteristics Associated with Late-presenting Pediatric Anterior Cruciate Ligament Injuries	C	\$15,000 (over 3 years)	2018-2021	L Leveille	Chris Reilly
Canadian Institutes of Health Research (CIHR)	Outcome of hip interventions for children with cerebral palsy – An international multi-center prospective comparative cohort study	C	\$520,000	2014-2019	U Narayanan	K Mulpuri P Selber R Hamdy
Canadian Institutes of Health Research	Long-Term Outcomes of Hip Interventions for Children with Cerebral Palsy - An International Multi-Centre Prospective Comparative Cohort Study (CHOP-II)	C	\$822,376	2019 -2025	U Narayanan	D Fehlings K Graham P Gross R Hamdy K Mulpuri M Park E Pullenayegum B Shore T Theologis

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
The University of British Columbia, Faculty of Medicine Strategic Investment Fund (SIF)	Child-Sized Knowledge Translation	C	\$60,000	04/2018 to 04/2019	S Amed	I Pike K Mulpuri S Glegg J Robillard E Portales-Casamar L Masse M Brussoni J Mah J Jacob R Livingston J Morgan

COMMITTEE PARTICIPATION

2019-2020

Dr. Reilly

- BCCH Department of Paediatric Orthopaedic Surgery, Department Head
- UBC Department of Orthopaedics, Faculty Advisory Committee
- UBC Department of Orthopaedics, Orthopaedic Academic Council Committee
- UBC Department of Orthopaedics, MSc Thesis Committee
- UBC Department of Orthopaedics, Resident Program Committee
- UBC Department of Orthopaedics, Competency of Care Committee
- Chair Department of Orthopaedics Ad Hoc Department Head Selection Committee 2019- 2020
- Member, Faculty of Medicine, Orthopaedic Department Head Selection Committee 2020 BCCH Orthopaedic Re-design Committee
- Surgical Cabinet
- Surgical Services Advisory Committee (SSAC)
- The Department of Pediatric Surgery Surgical Cabinet
- Department Heads, Division Heads and Senior Medical Directors Committee
- CST Design Work for Ambulatory
- SSC Project TCON (Complex Orthopaedic) Committee
- Ambulatory Leadership Committee
- Physician Leadership Program
- Panel Member, Privileging Dictionary Refresh Program, Ortho Surgery
- Ortho Trauma VAT
- Pediatric Orthopaedic Society of North America
- Association of Surgical Educators
- American Academy of Orthopaedic Surgeons
- Canadian Orthopaedic Association
- Scoliosis Research Society
- International Pediatric Orthopaedic Think Tank
- British Columbia Medical Association

COMMITTEE PARTICIPATION**2019-2020****Dr. Reilly**

- Canadian Medical Association
- British Columbia Orthopaedic Association
- Journal of Pediatric Orthopaedics, Pediatric Society of North America, Reviewer
- Child and Family Research Institute, Member
- Centre for Hip Health, Member
- Merit & PSA Committee, UBC Department of Orthopaedics, Member
- Muscular Diseases Clinic, BCCH, Consultant

Dr. Alvarez

- Child and Family Health Research Institute, Senior Associate, Clinical Scientist
- Sunny Hill Gait Lab, Medical Co-Director
- Trauma Division Committee, Division of Paediatric Orthopaedics, UBC
- Multiple Hereditary Exostoses (MHE) Scientific Advisory Board, Member
- Anatomy Working Group, Canadian Botulinum Toxin Conference (CBTC), Member
- Steering Committee, Canadian Botulinum Toxin Conference (CBTC), Member
- Canadian Medical Association, Member
- Canadian Orthopaedic Association, Member
- Pediatric Orthopaedic Society of North America, Member
- BC College of Physicians and Surgeons, Member
- Society of Specialists, Member
- BC Orthopaedic Association, Member
- BC Medical Association, member
- Journal of Pediatric Orthopaedics, Reviewer

Dr. Mulpuri

- Research Director for International Hip Dysplasia Institute
- Coordinating Committee Member for the International Perthes Study Group
- Founding President of Canadian Pediatric Orthopaedic Group
- Project Chair for the Medical Allied Staff Engagement
- Theme Lead for Evidence to Innovation (E2i) of BC Children's Research Institute
- Secretary for the Canadian Orthopaedic Association
- Research Director for SCFE Longitudinal International Prospective (SLIP) Registry
- Principal Coordinating Investigator of PedORTHO
- Research Committee on Child Restraint Seat Safety
- Medical Staff Association BC Children's Hospital Redevelopment Committee
- Member, BC Children's Hospital Research Institute Research Leadership Council
- Present Chair, Projects, Medical and Allied Staff Engagement Society (MASES)
- Theme Co-Lead, Evidence to Innovation, BC Children's Hospital Research Institute
- Member, Faculty Mentoring Program, BC Children's Hospital Research Institute

COMMITTEE PARTICIPATION

2019-2020

Dr. Mulpuri

- Evidence Informed Care for Children with Cerebral Palsy in British Columbia Advisory Committee
- Global Surgery Outreach
- Medical Advisory Board Chair for I'm a HIPpy Foundation
- Scientific Coordinator for OncoCollect
- BCCH Foundation Honourary Physician Chair
- Co-Founder of I-CAN Autism Network
- Member, Karnataka Medical Council
- Member, Karnataka Orthopaedic Association
- Member, Indian Orthopaedic Association
- Member, Paediatric Orthopaedic Society of India
- Member, Asia Pacific Orthopaedic Association
- Member, Doctors of BC
- Member, Canadian Medical Association
- Member, Pediatric Orthopaedic Society of North America
- Member, Canadian Orthopaedic Association
- Member, American Association of Orthopaedic Surgeons
- Member, American Academy for Cerebral Palsy and Developmental Medicine
- Member, Centre for Hip Health and Mobility
- Medical Lead, BC Hip Surveillance Initiative, Improving Care for Children in British Columbia with Cerebral Palsy
- Research Director, International Hip Dysplasia Institute
- Member, International Perthes Study Group
- Member, British Columbia Hip Surveillance Program for Children with Cerebral Palsy, Child Health BC
- Past President/Active Member, Canadian Pediatric Orthopaedic Group
- Member, POSNA Research Committee
- Cerebral Palsy Association of British Columbia Advisory Committee
- Editor, Journal of Pediatric Orthopaedics Evidence-Based Medicine section
- Deputy Editor, Journal of the American Academy of Orthopaedic Surgeons Global, Pediatric section
- Reviewer, Journal of Pediatric Orthopaedics
- Reviewer, Spine Journal
- Reviewer, Journal of Clinical Epidemiology
- Reviewer, Western Society for Pediatric Research, Regional Meeting
- Reviewer, Canadian Institutes of Health Research (National)
- Reviewer, Journal of Pediatrics (International)
- Reviewer, Journal of Children's Orthopaedics
- Reviewer, Journal of Orthopaedic Surgery
- Reviewer, Journal of Pediatric Orthopaedics, Part B
- Reviewer, Clinical Orthopaedics and Related Research
- Reviewer, Journal of the American Academy of Orthopaedic Surgeons
- Reviewer, POSNA Grants
- Reviewer, Postgraduate Medicine
- Reviewer, Bone and Joint Journal
- Reviewer, BioMed Central Musculoskeletal Disorders
- Director for the Vancouver Area Telugu Association
- International Pediatric Orthopaedic Think Tank

COMMITTEE PARTICIPATION**2019-2020****Dr. Miyanji**

- Board Member – Setting Scoliosis Straight Foundation (Harms Study Group)
- Reviewer – Spinal Deformity Journal
- AO TK Deformity, Tumour, Fracture Committee
- Board Member - POSNA
- Scoliosis Research Society Program Committee
- Scoliosis Research Society World Wide Committee
- Reviewer: Journal of Pediatric Orthopedics
- Fellowship Director – Pediatric Spine Fellowship, UBC Department of Orthopedics
- QSVI Committee - POSNA
- Scoliosis Research Society Program Committee
- Core Member Growing Spine Study Group
- Scoliosis Research Society Awards and Scholarships Committee
- Collaborative Spine Research Forum Advisory Council Member
- Appointed Member POSNA Research Committee
- Core Member Harms Deformity Study Group
- Scoliosis Research Society – Active Fellow
- Canadian Paediatric Spinal Deformity Study Group
- Paediatric Orthopedic Society of North America – Active Member
- Canadian Spine Society

Dr. Ghag

- Canadian Orthopaedic Association
- American Academy of Orthopaedic Surgeons
- North American Spine Society
- Scoliosis Research Society
- Paediatric Orthopaedic Society of North America
- College of Physicians & Surgeons of British Columbia
- Royal College of Physicians and Surgeons of Canada
- Medical Council of Canada
- Canadian Medical Protective Association
- British Columbia Medical Association
- Scoliosis Research Society Safety & Value Committee
- Scoliosis Research Society Education Committee
- Pediatric Orthopaedic Society of North America Quality, Safety & Value Initiative - Trauma Committee
- Pediatric Orthopaedic Society of North America Quality, Safety & Value Initiative - Research Committee and Evidence-based Practice Committee

Dr. Cooper

- BC Trauma Steering Committee, BC Children's Hospital
- Theme Co-Lead, Clinical Practice, Outcomes & Innovation,
- Evidence to Innovation (E2i), BC Children's Hospital Research Institute
- BC Children's Hospital BioBank Biospecimen Advisory Committee
- BC Children's Hospital Medical Device Reprocessing Department Review (MDRD)
- Core Curriculum Integration Committee, Leeds University Medical School Regional
- Scientific Review Board Member, Canadian Orthopaedic Association (COA) National
- Canadian Paediatric Orthopaedic Group (CPOG) National, Treasurer

COMMITTEE PARTICIPATION**2019-2020****Dr. Cooper**

- Pediatric Orthopaedic Society of North America (POSNA) International, Membership Committee, Member, Research Committee
- Pediatric Orthopaedic Society of North America (POSNA) International
- Canadian Paediatric Orthopaedic Group (CPOG) Research Committee National
- The Bone & Joint Journal, Reviewer
- BMJ Open, Reviewer
- UBC Medical Journal, Reviewer

Dr. Leveille

- BCCW Redevelopment Project, Sunny Hill/BCCH Site Integration Working Group
- BCCH Orthopaedic Clinic Optimization Working Group
- BCCH Pain and Comfort Committee Member
- Gait and Clinical Movement Analysis Society
- Pediatric Research in Sports Medicine Society
- Pediatric Orthopedic Society of North America
- Canadian Orthopaedic Association
- BC Medical Association
- Canadian Medical Association
- Uganda Sustainable Trauma Orthopaedic Program (USTOP)
- PRISM Motion Analysis Research Interest Group
- Director Medical Undergraduate Education, Department of Orthopaedics

Dr. Pirani

- College of Physicians & Surgeons of BC
- British Columbia Medical Association
- Canadian Orthopaedic Association
- Canadian Pediatric Orthopaedic Group
- American Board of Orthopaedic Surgery
- American Academy of Orthopaedic Surgeons
- Avicenna Physicians Society
- Royal College of Physicians & Surgeons of Canada
- ASAMI – North America (The Limb Lengthening and Reconstructive Society)
- The American Orthopaedic Foot and Ankle Society
- Pediatric Orthopaedic Society of North America
- Ponseti International Association for the Treatment of Clubfoot, Chair Medical Advisory Board
- Pediatric Orthopaedic Society of North America, Children's Orthopaedics in Underdeveloped Regions (COUR) Committee, Member
- Global HELP International Board
- The International Clubfoot Study Group, Member
- The Rotary Club of Burnaby, Member
- End Clubfoot Now RAG (Rotary Action Group), Member

Alec Black

- Gait and clinical Motion Analysis Society, Member

PUBLICATION RECORDS

2019-2020

Dr. Reilly

- "Asymmetric unilateral vestibular perception in adolescents with idiopathic scoliosis" Journal: Frontiers in Neurology, section Movement Disorders Article type: Original Research, Authors: Emma Jean Woo, Gunter P. Siegmund, Christopher W. Reilly, Jean-Sébastien Blouin, Frontiers of Neurology, Dec 2019
- "Assessing the reliability of the modified Gartland classification system for extension-type supracondylar humerus fractures", T. L. Teo, K. Schaeffer, E. Habib, A. Cherukupalli, A. P. Cooper, A. Aroojis, W. N. Sankar, V. V. Upasani, S. Carsen, K. Mulpuri, C. Reilly, J Child Orthop Nov 2019;13:1-11

Dr. Mulpuri

- Miller S, Shore B, Mulpuri K. Hip Surveillance is Important to Children with Cerebral Palsy: Stop Waiting, Start Now. J Am Acad Orthop Surg Glob Res Rev. 2019 Apr 10; 3(4). SA. Impact Factor 2.348
- Schaeffer EK, Lubicky J, Mulpuri K. AAOS Appropriate Use Criteria: The Management of Developmental Dysplasia of the Hip in Infants up to Six Months of Age: Intended for Use by Orthopaedic Specialists. J Am Acad Orthop Surg. 2019 Apr 15; 27(8): e369-e372. SA. Impact Factor 2.398
- Shore B, Martinkevich P, Riazi M, Baird E, Encisa C, Willoughby K, Narayanan U; *CHOP Investigative Team. Reliability of Radiographic Assessments of the Hip in Cerebral Palsy. J Pediatr Orthop. 2019 Aug; 39(7): e536-e541. CA (contributed methodology development) Impact Factor 2.046.
- Striano B, Schaeffer EK, Matheney TH, Upasani VV, Price CT, Mulpuri K, Sankar WN, International Hip Dysplasia Institute. Ultrasound Characteristics of Clinically Dislocated But Reducible Hips with DDH. J Pediatr Orthop. 2019 Oct; 39(9): 453-457. CA Impact Factor 2.046.
- Masud S, Greenman J, Mulpuri K, Hasan MR, Goldfarb DM, Tilley P, Gadkar VJ, Al-Rawahi GN. Asymptomatic Pharyngeal Carriage of Kingella kingae Among Young Children in Vancouver, British Columbia, Canada. Pediatr Infect Dis J. 2019 Oct; 38(10): 990-993. CA Impact Factor 2.723.
- Teo TL, Schaeffer EK, Habib E, Cherukupalli A, Cooper AP, Aroojis A, Sankar WN, Upasani VV, Carsen S, Mulpuri K, Reilly C. Assessing the reliability of the modified Gartland classification system for extension-type supracondylar humerus fractures. J Child Orthop. 2019 Dec;13(6):569-574. DOI:10.1302/1863-2548.13.190005. CA. Impact Factor 1.296.
- Schaeffer E, Mulpuri K. Anatomy and Physiology of the Pediatric Hip. In: The Paediatric and Adolescent Hip: Essentials and Evidence, 2019

Dr. Miyanji

- Phillips L, Yaszay B, Bastrom TP, Shah SA, Lonner BS, Miyanji F, Samdani AF, Parent S, Asghar J, Cahill PJ, Newton PO. L3 translation predicts when L3 is not distal enough for an "ideal" result in Lenke 5 curves. Eur Spine J. 2019 Apr 12. doi: 10.1007/s00586-019-05960-z
- Hollenbeck SM, Yaszay B, Sponseller PD, Bartley CE, Shah SA, Asghar J, Abel MF, Miyanji F, Newton PO. The Pros and Cons of Operating Early Versus Late in the Progression of Cerebral Palsy Scoliosis. Spine Deform. 2019 May;7(3):489-493. doi: 10.1016/j.jspd.2018.09.002

PUBLICATION RECORDS

2019-2020

Dr. Miyanji	<ul style="list-style-type: none"> Howard R, Sponseller P, Shah SA, Miyanji F, Samdani A, Newton P, Yaszay B. Is Performing a Definitive Fusion for Scoliosis in Juvenile Cerebral Palsy Patients a Good Long-term Surgical Option? <i>Spine Deform.</i> 2019 Nov;7(6):1029-1030. doi: 10.1016/j.jspd.2019.09.026. No abstract available. Bachmann KR, Lu E, Novicoff WM, Newton PO, Abel MF, Buckland A, Samdani A, Jain A, Lonner B, Yaszay B, Reilly C, Hedequist D, Clements D, Miyanji F, Shufflebarger H, Flynn J, Asghar J, Thiong JMM, Pahys J, Harms J, Bachmann K, Lenke L, Glotzbecker M, Kelly M, Vitale M, Marks M, Gupta M, Fletcher N, Cahill P, Sponseller P, Gabos P, Newton P, Betz R, Lehman R, George S, Hwang S, Shah S, Errico T, Upasani V; Harms Study Group; Harms Study Group Investigators. The Lumbosacral Takeoff Angle Can Be Used to Predict the Postoperative Lumbar Cobb Angle Following Selective Thoracic Fusion in Patients with Adolescent Idiopathic Scoliosis. <i>J Bone Joint Surg Am.</i> 2020 Jan 15;102(2):143-150. doi: 10.2106/JBJS.19.00287
Dr. Ghag	<ul style="list-style-type: none"> Halsey MF, Myung KS, Ghag A, Vitale MG, Newton PO, de Kleuver M. Neurophysiological monitoring of spinal cord function during spinal deformity surgery: 2020 SRS neuromonitoring information statement. <i>Spine Deform.</i> 2020 Aug;8(4):591-596. doi: 10.1007/s43390-020-00140-2. Epub 2020 May 25.
Dr. Cooper	<ul style="list-style-type: none"> Chhina H, Klassen A, Kopec J, Oliffe J, Cooper AP. International multiphase mixed methods study protocol to develop a patient-reported outcome instrument for children and adolescents with lower limb deformities <i>BMJ Open</i> 2019 May;9:e027079. PMID: 31061048. Impact Factor 2.376 (Trainee Publication) "Assessing the reliability of the modified Gartland classification system for extension-type supracondylar humerus fractures", T. L. Teo, K. Schaeffer, E. Habib, A. Cherukupalli, A. P. Cooper, A. Aroojis, W. N. Sankar, V. V. Upasani, S. Carsen, K. Mulpuri, C. Reilly, <i>J Child Orthop</i> Nov 2019;13:1-11 Chhina H, Klassen A, Kopec J, Oliffe J, Cooper A. What matters to children with lower limb deformities; an international qualitative study informing the development of LIMB-Q Kids. <i>Qual Life Res</i> (2019) 28(Suppl 1): 1. (Trainee Publication) Suzuki A, Cooper AP, Fernandes JA. Coxa Vara, In: Alshryda S, Howard J, Huntley J, editors. <i>Paediatric and Adolescent Hip: Essentials and Evidence.</i> Springer, USA: 2019. p. 193-206.
Dr. Pirani	<ul style="list-style-type: none"> Global Orthopaedics: Clubfoot Etiology, Pathoanatomy, Basic Ponseti Technique, and Ponseti in Older Patients. Springer, New York, NY, 2019. Print ISBN 978-1-4614-1577-0, Online ISBN 978-1-4614-1578-7

INITIATIVES IN PROGRESS

2019-2020

Dr. Reilly	<ul style="list-style-type: none"> • The Effect of Femoral Nerve Block on Opioid Requirements Following Anterior Cruciate Ligament Reconstruction in the Paediatric Population: A Double Blind, Prospective, Randomized Controlled Trial – data collection almost completed • Mental Health Disturbance in Adolescents following Acute Knee Injury (J Douglas) – protocol development • Harms Study Group - Scheuermann's Kyphosis – data collection ongoing • Harms Study Group - AIS Database - data collection ongoing • Harms Study Group - AIS 2 year post-operative motion - data collection ongoing • Harms Study Group – Cerebral Palsy and Scoliosis – ethics approval received; contract negotiations underway with UBC and Harms Study Group • Adductor Canal Block in ACL reconstruction • Quadriceps reconstruction in the management of habitual patellar instability • Management of Type 2 supracondylar fractures
Dr. Alvarez	<p><u>Clubfoot</u></p> <ul style="list-style-type: none"> • Fourteen year clinical outcome of children with idiopathic clubfoot treated with manipulation, casting and adjuvant Botulinum A toxin. Proposed venue: Journal of Bone and Joint Surgery (90% completed, data collected and preparing the manuscript) • Case Report: Peroneal Nerve Palsy In Clubfoot Population (Data collected and preparing manuscript) <p><u>Hereditary Multiple Exostoses</u></p> <ul style="list-style-type: none"> • Disease specific questionnaire for Hereditary Multiple Exostoses (Ongoing Data collection) • The First Clinical Instance of Hereditary Multiple Exostoses in Families (manuscript preparation underway). • Development of a HME orthopedic severity score (manuscript being submitted). • Intra-familial variability of Orthopaedic Severity in individuals with Multiple Hereditary Exostoses (ongoing data collection) <p><u>Gait</u></p> <ul style="list-style-type: none"> • Gait analysis of clubfoot patients treated with manipulations, casts and Botox (ongoing data collection/analysis)
Dr. Mulpuri	<ul style="list-style-type: none"> • Mulpuri K. The natural history of Perthes disease in British Columbia in comparison to India. Manuscript in preparation – to be submitted to Pediatric Orthopaedic Society of India. • Mulpuri K, Devsi J, Doan Q. Caregiver perspective on the participation of their children in long-term clinical research for acute care patients. Manuscript in preparation/data analysis in progress. • d'Entremont AG, Wilson DR, Mulpuri K. Accuracy of deformity measurement in slipped capital femoral epiphysis: a geometrical modeling study. Manuscript in preparation/data analysis in progress.

INITIATIVES IN PROGRESS

2019-2020

Dr. Mulpuri

- Reilly CW, Ansermino M, Mulpuri K, Purdy FR, Tredwell SJ. The effect of femoral nerve block on opioid requirements following anterior cruciate ligament reconstruction in the paediatric population: A double blind, prospective, randomized controlled trial. Data analysis in progress
- d'Entremont AG, Cooper AP, Mulpuri K. The degree of deformity in slipped capital femoral epiphysis at which point the slip is too severe to pin: A computed tomography simulated model. Data analysis in progress.
- McKay HA, Boyd S, Mulpuri K, Naylor PJ, Khan K, Li L, Rhodes R, Macdonald H. An investigation into risk taking behaviour, bone microstructure, and fracture between the sexes: What underpins fracture in boys compared to girls during growth? Data collection/analysis in progress.
- Mulpuri K, Beauchamp R, Alvarez C. Functional outcomes following orthopaedic surgery based on gait laboratory versus observational gait analysis in ambulatory children with cerebral palsy: A multi-centre pilot randomized control trial. Data collection/analysis in progress.
- d'Entremont AG, Wilson DR, Mulpuri K. CT measures of femoral head sphericity in healed Perthes patients using Statistical Shape Modelling and Sphericity Index. Data collection/analysis in progress.
- Chhina HK, Klassen AF, Kopec J, Mulpuri K, Cooper AP. Development of a quality of life instrument for children with lower limb deformities. Data collection in progress.
- Mulpuri K, Miller SD. Health related quality of life in children with cerebral palsy undergoing surgery for dislocating hips. Data collection in progress.
- Mulpuri K, Reilly C. Quality of referrals sent to pediatric orthopedic clinics. Data collection in progress.
- Miyanji F, Mulpuri K, Reilly C. The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study. Recruitment in progress.
- Miyanji F, Mulpuri K, Reilly C, Poskitt, K. Diffusion MRI as a prognostic tool in growth plate injuries: A pilot study to assess feasibility. Recruitment in progress.
- Mulpuri K, Reilly CW, Tredwell SJ. Management of displaced supracondylar fractures of the humerus using lateral versus crossed K wires: A prospective randomized clinical trial. Recruitment in progress.
- Reilly CW, Mulpuri K, Cooper A, Carsen S. Operative versus non-operative treatment of Gartland Type IIA supracondylar humeral fractures: A prospective study. Recruitment in progress.
- Mulpuri K, Miyanji F, Reilly C, Doan Q. Splinting versus above elbow casting for Type I supracondylar fractures of the humerus in children: A randomized controlled trial. Recruitment in progress
- Mulpuri K, Davidson D. Validation and reliability testing of the Western Ontario and McMaster Osteoarthritis Scale (WOMAC) hip score in children and adolescents with Perthes disease. Recruitment in progress.
- Mulpuri K, Miyanji F, Reilly CW. A clinical prediction model for growth arrest in pediatric physeal fractures. Recruitment in progress.

INITIATIVES IN PROGRESS

2019-2020

Dr. Mulpuri

- Mulpuri K, Mubarak S, Matheney T, Kelley S, Castaneda P, Foster B, Clarke N, Price C. Prospective observational cohort study of children with hips dislocated at rest. Recruitment in progress.
- Mulpuri K, Abugharbieh R, Hodgson AJ, Quader N. Automatic characterization of the neonatal hip using ultrasound imaging. Recruitment in progress.
- Narayanan U, Mulpuri K, Selber P, Hamdy R. Outcomes of hip interventions for children with cerebral palsy – An international multi-centre prospective comparative cohort study. Recruitment in progress.
- Skarsgard ED, Reilly C, Mulpuri K, Innis SM, Gandhi S. Nutritional status of pre-operative surgical patients: Prevalence of malnutrition and impact on surgical outcomes. Recruitment in progress.
- Cooper AP, Mulpuri K, Reilly CW. Simple bone cysts in kids (SBoCK). Recruitment in progress.
- Cooper AP, Mulpuri K, Reilly CW. Observational study of children with limb problems. Recruitment in progress.
- d'Entremont AG, Wilson DR, Hargreaves B, Mulpuri K. MR measures of mechanical and cartilage health outcomes in Perthes disease – T1rho and morphology. Recruitment in progress.
- Mulpuri K, International Perthes Study Group. A prospective, multi-centre, surgeon controlled non-randomized study comparing 6 weeks vs 6 months of postoperative non-weight bearing (NWB) in patients treated with a surgical containment procedure with the onset of Legg-Calvé-Perthes disease between 8 and 11 years of age. Recruitment in progress.
- Juricic M, Mulpuri K, Bainbridge L. Children with CP across GMFCS levels requiring orthopaedic surgery: The lived experiences of parents. Recruitment in progress.
- Schaeffer EK, Pathy R, Mulpuri K. Do infants with risk factors for developmental dysplasia of the hip require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review. Data collection in progress.
- Ho Y, Schaeffer EK, Mulpuri K. Child reported versus parent reported in Activities Scale for Kids –Performance in pediatric orthopaedics. Recruitment in progress.
- Mammen C, Morrison A, Mulpuri K, Reilly C. Acute Kidney Injury in children following major orthopaedic surgery: A prospective cohort study. Recruitment in progress.
- Pathy R, Schaeffer EK, Mulpuri K. Prospective observational cohort study of children with a slipped capital femoral epiphysis. Recruitment in progress.
- Mulpuri K, Cashin MS, Cooper AP. Outcome analysis of comminuted vs. non-comminuted paediatric femur fractures treated with elastic intramedullary nail fixation. Protocol in development.

Dr. Miyanji

- A Prospective, Multi-center Database Registry of Scoliosis Outcomes in AIS (Op and Non-op)
- A Prospective, Multi-center Database Registry of Scoliosis Outcomes in Cerebral Palsy (Op and Non-op).
- Non-Fusion Spinal Deformity Correction in Idiopathic Scoliosis– A prospective, multi-center registry study of the Harms Study Group.

INITIATIVES IN PROGRESS

2019-2020

Dr. Miyanji

- Retrospective Multi-Center Study of the Outcomes of Anterior Vertebral Body Tethering for Spinal Deformity Correction in Idiopathic Scoliosis
- Anterior Vertebral Body Tethering Post-Op Motion (AVBT POM)
- FUTURE: Fusionless Treatment of Idiopathic Scoliosis with the Scolio-Tether System During the Growth Period.
- Serum Metal Ion Levels Post Multi-Level Spine Surgery.
- Pediatric Spine Registry (PSSG)
- Topical Tranexamic Acid in Major Pediatric Spine Deformity Surgery: A Randomized Controlled Trial.
- Motion Preservation Evaluation of the Spine in Idiopathic Scoliosis Following Anterior Vertebral Body Tethering.
- AIS Body Image and Psych Study (BI)
- Effect of an Accelerated Discharge Protocol following Posterior Spinal Fusion for AIS.

Dr. Ghag

- Intraoperative CT Guided Surgical Navigation in Pediatric Spinal Deformity Correction - a Quantification of Radiographic Dose - IRB approval and subsequent data acquisition (25% complete)
- Effect of Baseline Blood Pressure on Intraoperative Neuromonitoring in Adolescent Idiopathic Scoliosis Correction Surgery - IRB approval and subsequent data acquisition (25% complete)

Dr. Cooper

- Development of a Quality of Life Instrument for Children with Lower Limb Deformities. Qualitative phase finished / ongoing cognitive debriefing interviews (70% complete).
- Observational Study of Children with Limb Problems (Limb Deformity Database). Recruitment in progress (296 patients recruited, recruitment ongoing, longitudinal study).
- Multicentre Pin Site Infection Study. Recruitment in progress at 12 centres / ethics applications in progress at 6 of the centres (150 patients recruited, 50% complete).
- Next Generation Sequencing in Rare Disorders: Congenital Pseudarthrosis of the Tibia. Recruitment in progress. (6 patients recruited).
- Simple Bone Cysts in Kids (SBoCK). Recruitment in progress (1 patient recruited).
- Evaluating the Accuracy of the Multiplier Method for Estimating the Difference in Leg Lengths in Children with Vascular Anomalies. Patient call-back in progress.
- Preventative Multimodal Analgesia for Children Undergoing Lower Limb Reconstruction with External Fixators: A Prospective Study of Postoperative Pain. Recruitment in progress (22 patients recruited, 73% complete).
- Paediatric Elbow Fractures from the Child's Viewpoint. Manuscript ready for submission.
- Weight-bearing MRI in Perthes. Pilot paper published, more data collection in progress (50% complete).
- Psychological Assessment in Mothers with DDH babies. Manuscript preparation in progress.

INITIATIVES IN PROGRESS

2019-2020

Dr. Cooper

- International CPT Registry. Recruitment in progress (7 patients recruited at BCCH, ethics in progress at other sites, 10% complete)
- CHILD Network - Multicentre Limb Deformity Registry- Protocol in development
- Rabbit Femur Project - HA coated pins versus non-HA coated pins. Protocol in development
- Knee Range of Motion Study. Data analysis in progress.
- SCH Type 1 RCT. Protocol developed, ethics in progress.
- Natural History of Morquio B Study - Database undergoing testing
- HRQOL in Fibular Hemimelia - Data analysis and manuscript preparation in progress
- Functional outcomes in children undergoing external fixation - Data analysis in progress
- Design and Fabrication of Patient-Specific Shoe Insoles for Patients with Fibular-Hemimelia- Proposal in progress
- Gait Analysis in children with lower limb deformities- Proposal in progress
- Inter and intra rater reliability of Checketts Grading - Ethics approval in progress
- Epidemiology of Limb reduction defects - Proposal in progress
- Efficacy and safety of "sleeper plate" in temporary hemi-epiphysiodesis and the observation of "tethering". - Data analysis and manuscript preparation in progress
- Clinical Outcomes in Pediatric Tibial Lengthening and Deformity Correction: A comparison of the Taylor Spatial Frame with the Orthex ring fixator- Manuscript under review
- Management of Genu Recurvatum (case series) - Manuscript under review

Dr. Leveille

- Delay in Diagnosis and Management of Adolescent Anterior Cruciate Ligament Injuries in a Publicly Funded Healthcare System. Manuscript preparation, pending submission to BCMJ.
- Quads or Quins? An unexpected cause of atraumatic restricted knee flexion in children. Accepted case report in Pediatric Radiology.
- Changes in Pedobarography, Fluidity of Movement and Range of Motion in Adolescent Patients Undergoing myoActivation for Chronic Pain related to Myofascial Dysfunction. Pilot project initiated and prospective protocol in development.
- Motion Preservation Evaluation of the Spine in Idiopathic Scoliosis Following Anterior Vertebral Body Tethering: two- and three-dimensional approaches. Protocol in development.
- Quadriceps realignment and rectus femoris re-routing: description of a novel procedure for proximal extensor mechanism realignment in skeletally immature patients. Data collection/analysis in progress.
- Split Tibialis Posterior Tendon Transfer (SPOTT) for Equinovarus Foot in Cerebral Palsy. Data collection/analysis in progress.
- Psychological Impact of Delayed ACL Reconstruction in Adolescents. Protocol in development.
- Differences in caregiver perspective on quality of life of children with cerebral palsy. Data collection/analysis in progress.
- Complications of bilateral, staged, and unilateral hip reconstruction surgery for children with CP. Data collection/analysis in progress.

INITIATIVES IN PROGRESS

2019-2020

Dr. Leveille

- Adductor Canal Block in the Management of Post-op Pain in Pediatric ACL Reconstruction, Development of a Prospective Study. Retrospective review in progress and prospective protocol in development.
- Acute and Persistent Postoperative Developmental Decline in Patients with Cerebral Palsy. Data collection/analysis in progress.
- Gait analysis outcomes in patients having undergone selective percutaneous myofascial lengthening. Protocol in Development.
- Hip Displacement in Asymmetric Diplegia - Are all children at GMFCS II and III the same? Data collection/analysis in progress.

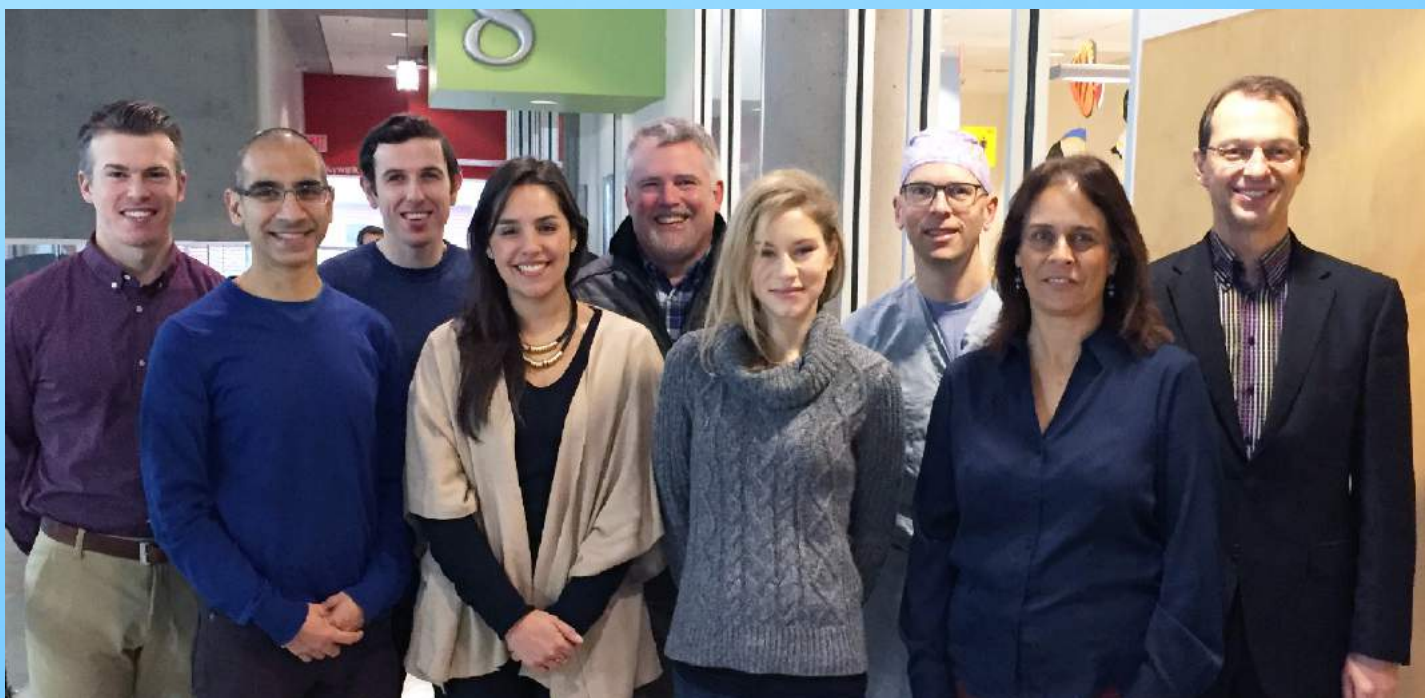
Dr. Pirani

- Uganda Sustainable Clubfoot Care Project (USCCP)
- Sustainable Clubfoot Care in Bangladesh (SCCB)



DIVISION OF PEDIATRIC OTOLARYNGOLOGY

2018-2019



FACULTY MEMBERS

2018-2019



Dr Neil K
Chadha
MBChB(Hons),
MPHe,
BSc(Hons),
FRCS,
(Division
Head)



Dr Jeffrey P
Ludemann
MD, FRCSC



Dr Frederick
K Kozak
MD, FRCSC



Dr J Paul
Moxham
MD, FRCSC

STAFF MEMBERS

2018-2019

- Marlina Anderson, MOA to Dr. Kozak
- Nancy Davies, MOA to Dr. Ludemann & Dr. Moxham
- Michelle Poulsen, MOA to Dr. Ludemann & Dr. Moxham
- Grace Soleta, MOA to Dr. Chadha
- Patsy Regan RN, Pediatric Otolaryngology Clinical Nurse
- Hope Moir RN, Pediatric Otolaryngology Clinical Nurse
- Cheryl Atkins-Labelle RN, Pediatric Otolaryngology Sedation Nurse

HIGHLIGHTS & ACHIEVEMENTS 2018-2019

Dr Neil K Chadha

Founder and Chair of the Complex Aerodigestive Disorders Team - Bi-monthly Multidisciplinary Educational Rounds including: Otolaryngology, Respiriology, General Surgery, Gastroenterology, Neonatal Intensive Care, Anesthesia, Intensive Care

TEACHING ACTIVITIES 2018-2019

FELLOWS SUPERVISED

Dr Rhodri Costello (Wales)
Dr Paula Tellez (Colombia)
Dr Carolina Grau (Chile)
Dr. Hasan Kular (Allergy & Immunology Fellow)

RESIDENTS SUPERVISED

Ameen Amanian	Saad Ansari
Emily Deane	Ethan Newton
Joel Howlett	Evie Landry
Karima Jiwa	Dianne Valenzuela
Kevin Zhao	Harman Parhar
Michael Yong	Alex Butskiy

STUDENTS SUPERVISED

Sajjael Tavassuly, Nathan Schuck, Michael Guo, Rakin Jamal, Naeya Shatani, Kia Dullemond, Nicole Hong, Camilla Hong, Gurjit Parmar, Arjun Sancha, Josh Foley, Palak Suryavarshi, Edward Sykes, Julie Wong, Justin Wong, Machkenzie Simpson, Cissy Yi, Chad Purcell, Emily Lostchuck, Jan Valle, Vanessa Montaglini, Mae Lumic, Zoe Friessen, Cynthia Min, Jason Wong, Michelle Ou

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

Name

Lectures/Presentations

**Dr Neil K Chadha
(Workshop)**

Alternatives in the management of the difficult airway in the pediatric patient. Annual Meeting of the Association of Colombian Otorhinolaryngology, Bogota, Colombia, March 2019.

**Dr Neil K Chadha
(Keynote Address)**

Modern approaches to laryngotracheal stenosis. Annual Meeting of the Association of Colombian Otorhinolaryngology, Bogota, Colombia, March 2019.

**Dr Neil K Chadha
(Keynote Address)**

Laryngomalacia 2019 - Evidence-based management. Annual Meeting of the Association of Colombian Otorhinolaryngology, Bogota, Colombia, March 2019.

**Dr Neil K Chadha
(Keynote Address)**

Endoscopic ear surgery: how to get started and eventually leave the microscope. Annual Meeting of the Association of Colombian Otorhinolaryngology, Bogota, Colombia, March 2019.

Dr Neil K Chadha

Luu K, Valenzuela D, Moxham JP, Chadha NK. A sternoclavicular anomaly: Case series and review of literature. Society for Ear Nose and Throat Diseases in Children Annual Meeting, Houston, December 2018.

Dr Neil K Chadha

Nguyen S, Chadha NK, Lachance S. Trends in Adenoid Surgery and Post-operative Antibioprophylaxis: Survey of the Canadian Society of Otolaryngology-Head and Neck Surgery. Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Québec City, June 2018.

**J. P. Ludemann
(Invited Panelist)**

"Foreign Bodies in Remote Hospitals – should they all be transferred?" 14th International Congress of the European Society of Pediatric Otolaryngology, Stockholm, June 5, 2018

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
UBC	Ainsley Memorial Grant	C	\$9 000	2019	Chadha/ Kozak	
Pacific Otolaryngology Society	Seed Grant	C	\$5 000	2018	Chadha/ Kozak	

COMMITTEE PARTICIPATION**2018-2019****Name****Dr Neil K
Chadha****Committee**American Society of Pediatric
Otolaryngology Research Committee

BC Children's Hospital Airway Committee

UBC Otolaryngology Resident Competency
CommitteeUBC Otolaryngology Residency Training
Committee

UBC Otolaryngology Executive Committee

UBC Otolaryngology Research Committee

UBC Otolaryngology Fellowship Committee

PUBLICATION RECORDS

2018-2019

Name	Publication Citation
Dr Neil K Chadha	<ol style="list-style-type: none"> <li data-bbox="525 383 1522 566">1. Chadha NK. Silent Aspiration in Laryngomalacia-Not a Hard Concept to Swallow. JAMA Otolaryngol Head Neck Surg. 2019 1;145(2):151-152. <li data-bbox="525 577 1469 808">2. Jin L, Téllez P, Chia R, Lu D, Chadha NK, Pauwels J, Dobson S, Al Eid H, Kozak FK. Improving vaccination uptake in pediatric Cochlear implant recipients. J Otolaryngol Head Neck Surg. 2018 17;47(1):56. <li data-bbox="525 819 1490 1050">3. Manji J, Thamboo A, Tacey M, Garnis C, Chadha NK. The presence of Interleukin-13 in nasal lavage may be a predictor of nasal polyposis in pediatric patients with cystic fibrosis. Rhinology. 56(3):261-267 <li data-bbox="525 1061 1522 1292">4. Lu DYD, Pauwels J, Jin L, Kozak FK, Chadha NK. Detection of abnormally shaped ears by a trained non- specialist allows for early non-surgical intervention. Int J Pediatr Otorhinolaryngol. 2018;110:22-26. <li data-bbox="525 1303 1522 1534">5. Luu K, Valenzuela D, Moxham JP, Chadha NK. A sternoclavicular anomaly: Case series and review of literature. Society for Ear Nose and Throat Diseases in Children Annual Meeting, Houston, December 2018. <li data-bbox="525 1545 1538 1827">6. Costello R, Chadha NK, Ludemann JP: Letter to the Editor: In response to article by Anfang, R.R., et al (re: esophageal disc battery secondary prevention measures), accepted Oct 19, 2018; published in Laryngoscope. 2019 May;129(5) <p data-bbox="493 1883 1522 2018">Book Chapter: Chadha NK. Impact on Quality of Life. In: Recurrent Respiratory Papillomatosis (Ed: P Campisi), 2018 ISBN 978-3-319-63823-2.</p>

PUBLICATION RECORDS

2018-2019

Name	Publication Citation
Dr Jeffrey P Ludemann	<ol style="list-style-type: none"> 1. Shaw R, Dias C, Ludemann J, Rupps R, Tsai V, Lehman A. Familial impairment of vocal cord mobility in childhood with clubfoot. Clinical Dysmorphology. Accepted May 14, 2018 Clin Dysmorphol. 2018 Jun 14. doi: 10.1097/MCD.0000000000000227. [Epub ahead of print] 2. Akbari A, Gurberg J, Strahlendorf C, Ludemann JP. Luc's Abscess: First Reported Case with Coexisting Intracranial Abscess and/or Venous Sinus Thrombosis. Surgical Case Reports. Published Sept 2018. doi: 10.31487/j.SCR.2018.03.005 3. Akbari A, Gurberg J, Strahlendorf C, Ludemann JP. Luc's Abscess: First Reported Case with Coexisting Intracranial Abscess and/or Venous Sinus Thrombosis. Surgical Case Reports. October 2018. DOI: 10.31487/j.SCR.2018.03.005 4. Costello R, Chadha N, Ludemann JP: Letter to the Editor: In response to article by Anfang, R.R., et al (re: esophageal disc battery secondary prevention measures), accepted Oct 19, 2018; published in Laryngoscope. 2019 May;129(5)
J P Moxham	<p>Terry J, Brown K, Hiebert J, Al-Rawahi GN, Moxham JP, Krajden M, Jassem AN, Tucker L. Measles Lymphadenopathy in a Child With PFAPA Syndrome. Pediatr Dev Pathol. 2018 Sep-Oct;21(5):497-501.</p>

INITIATIVES IN PROGRESS

2018-2019

February 22-28, 2019

4th Annual Global Choking Prevention Week, using social media platforms (Be Smart, Don't Choke on Facebook, Instagram and Twitter to educate the public about choking & caustic ingestion hazards, to prevent accidental injuries and deaths.
<http://dontchoke.ubc.ca>

DIVISION OF PEDIATRIC OTOLARYNGOLOGY

2019-2020



FACULTY MEMBERS

2019-2020



Dr Neil K Chadha
MBChB(Hons), MPHe,
BSc(Hons), FRCS,
(Division Head)



Dr Jeffrey P Ludemann
MD, FRCSC



Dr Frederick K Kozak
MD, FRCSC



Dr Mark Felton MBChB,
Msc, MD, FCRS



Dr J Paul Moxham
MD, FRCSC



Dr Ronak Rahmanian
MD, FRCSC

STAFF MEMBERS

2019-2020

- Aisa Danganan, MOA to Dr Chadha & Dr. Felton
- Nancy Davies, MOA to Dr. Ludemann & Dr. Moxham
- Philana Do, MOA to Dr. Kozak & Dr. Rahmanian
- Michelle Poulsen, MOA to Dr. Ludemann & Dr. Moxham
- Hope Moir RN, Pediatric Otolaryngology Clinical Nurse
- Patsy Regan RN, Pediatric Otolaryngology Clinical Nurse
- Cheryl Atkins-Labelle RN, Pediatric Otolaryngology Sedation Nurse

HIGHLIGHTS & ACHIEVEMENTS 2019-2020

Recruitment of 2 new faculty to join the BCCH Division of Pediatric Otolaryngology

From July 2019 - Dr. Ronak Rahmanian

Dr. Ronak Rahmanian completed her undergraduate education in Microbiology and immunology at the University of British Columbia, during which time she worked at the British Columbia Center for Disease Control as well as the Protiva Biotherapeutic Company performing basic science research. She then earned her medical degree and completed her residency at the University of British Columbia. She pursued a fellowship in Otology & Neurotology at the St. Paul's Hospital Rotary Hearing Clinic & Vancouver Hospital Neurotology Services. She completed a second fellowship in Pediatric Otolaryngology at Rady Children's Hospital and worked as an Assistant Clinical Professor at the University of California San Diego (UCSD) – Rady Children's Hospital as a full-time pediatric otolaryngologist prior to joining the pediatric otolaryngology team at BC Children's Hospital. Although she enjoys all aspects of clinical pediatric otolaryngology, she has a special interest in pediatric ear surgery and cochlear implants. Dr. Rahmanian was raised in Vancouver, Canada. During her spare time she enjoys the outdoors, playing tennis, skiing, learning to surf and spending time with her friends and family.

From November 2019 - Dr. Mark Felton

Originally from the UK, he studied at the University of Leeds in England, graduating with an Honours degree in Anatomy before completing his medical degree. Dr. Felton carried out his specialist ENT training at the University of Manchester. Following this, he undertook a subspecialist pediatric ENT fellowship in Vancouver at BC Children's Hospital in 2015/2016. After this he spent over 3 years at the Evelina London Children's Hospital, UK, as a consultant otolaryngologist with a subspecialist interest in children's ear disorders. He rejoined the Division of Pediatric Otolaryngology at BC Children's Hospital as a consultant in 2019. Dr Felton is active in medical teaching, having completed a Master's degree in Medical Education. He regularly enjoys teaching trainees, students and allied specialists. He is also active in research, having a postgraduate research degree, with numerous international presentations and peer reviewed publications. His research focuses on ear disorders and outcomes from implantable hearing aids.

TEACHING ACTIVITIES

2019-2020

FELLOWS SUPERVISED

Dr Katharina Leitmeyer (Switzerland)
Dr Carolina Grau (Chile)
Dr Rhodri Costello (Wales)

RESIDENTS SUPERVISED

Laura Allen	Saad Ansari
Graham McIntyre	Ethan Newton
Ameen Amanian	Michael Yong
Emily Deane	Evie Landry
Joel Howlett	Dianne Valenzuela
Kevin Zhao	
Sarah Riedlingar, Paediatrics Resident	
Carrie Smythies, Paediatrics Resident	

STUDENTS SUPERVISED

Saroop Dhatt, James Whale, David Jarrett,
Nathan Hatchman, Kevin Li, Jasmin Cheng,
Tony Fang, Surpreet Sekhon, Ryan Instrum,
Gia Gill, Andrew Chan, Kendell Pon, Vincent
Suen, Jonathan Rubenstein, William Mak, Ali
Jamal, Jason Wong

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

Name

Lectures/Presentations

**Dr Neil K Chadha
(Invited)**

The COVID-19 Surgery Box. OPSEI Academic Rounds, May 2020, Vancouver.

**Dr Neil K Chadha
(Keynote Address)**

Pediatric airway problems. Confederation of European ORL-HNS Annual Meeting, Brussels, Belgium June 2019.

**Dr Neil K Chadha
(Keynote Address)**

Modern approaches to laryngotracheal stenosis. Confederation of European ORL-HNS Annual Meeting, Brussels, Belgium June 2019.

**Dr Neil K Chadha
(Invited)**

Should we be using ultrasound in the clinic? Dialogues in Pediatric Otolaryngology, Paris, France, May 2019.

**Dr Neil K Chadha
(Invited)**

Tracheostomy problems we never discuss. EndoDays International Meeting, San Diego, December 2019.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Name

**Dr Neil K
Chadha**

Lectures/Presentations

Grau C, Pauwels J, Leitmeyer K, Bergstrom, R, **Chadha NK**. Compliance and QOL in children with unilateral aural atresia receiving a transcutaneous bone conduction hearing implant. Society of Ear Nose & Throat Disorders in Children, San Diego, December 2019.

Chhabra A, Napoleone N, Mainra N, Garde A, Hooopenbrouwer X, Dunsmuir D, Lee J, **Chadha NK**, Wensley D, Ansermino M. Monitoring at Home Before and After Tonsillectomy: A Feasibility Study. World Sleep Congress, Vancouver, September 2019.

Liu A, Pliska B, Wu, F, Pauwels J, Amenyogbe A, Kozak, F, **Chadha NK**. Facial morphology in pediatric patients: A comparison of patients at risk for sleep- related breathing disorders utilizing 3D imaging. Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Edmonton, June 2019.

Grau C, Costello R, Pauwels J, Kozak F, Atkins-Labelle C, **Chadha NK**. Intranasal Dexmedetomidine: A new tool for sedation in children with autism undergoing Audiometry Brainstem Response. Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Edmonton, June 2019.

Luu K, Tellez P, **Chadha NK**. Effectiveness of adjunctive Mitomycin in Otolaryngologic procedures: a systematic review. Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Edmonton, June 2019.

Liu A, Pliska B, Wu, F, Pauwels J, Amenyogbe A, Kozak, F, **Chadha NK**. Facial morphology in pediatric patients: A comparison of patients at risk for sleep-related breathing disorders utilizing 3D imaging. American Society of Pediatric Otolaryngology Annual Meeting, Austin, May 2019.

Grau C, Costello R, Pauwels J, Kozak F, Atkins-Labelle C, **Chadha NK**. Intranasal Dexmedetomidine: A new tool for sedation in children with autism undergoing Audiometry Brainstem Response. American Society of Pediatric Otolaryngology Annual Meeting, Austin, May 2019.

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Name**Lectures/Presentations**

**Dr Ronak
Rahmanian**

Trends of Pediatric Cochlear Implantation: Inpatient vs. Outpatient. American Society of Pediatric Otolaryngology (May 2019)

Hearing Loss in Infants and Children.
Practical Pediatric CME course

Topics in Pediatric Otolaryngology: Pediatric Vertigo and Eustachian tube Balloon Dilation. Visiting Professor's rounds

Current Interests in Pediatric Otolaryngology and Future Goals. BC Children's Hospital Surgical Rounds

**J. Paul
Moxham, MD,
FRCSC**

Sternoclavicular sinus: Case series and literature review of a rare head and neck lesion. Luu K, Valenzuela D, Chadha NK, Moxham P. Presented as a poster.

**GRANTING
AGENCY****TITLE****COMP****\$/YEAR****YEAR****PI****CO-PI**

E2i

Innovation
Grant
Rare Diseases

C

\$10 000

2020

Chadha

Rare Diseases
Foundation

Foundation
Micro-grant

C

\$5 000

2020

Chadha

UBC

Strategic
Investment
Fund

C

\$988 000

2019

Wensley

Chadha

COMMITTEE PARTICIPATION**2019-2020****Name****Committee****Dr Neil K
Chadha**American Society of Pediatric
Otolaryngology Research CommitteeDirector of BC Children's Complex
Aerodigestive Team

BC Children's Surgical Cabinet

Competency Committee UBC
Otolaryngology Residency Training
Committee

UBC Otolaryngology Executive Committee

UBC Otolaryngology Research Committee

UBC Otolaryngology Fellowship Committee

**Dr Ronak
Rahmanian**Otolaryngology Residency Training
Committee**J. Paul
Moxham, MD,
FRCSC**UBC Otolaryngology Undergraduate
Education Committee

PUBLICATION RECORDS

2019-2020

Name	Publication Citation
Dr Neil K Chadha	<ol style="list-style-type: none"> 1. Yong M, Pauwels J, Kozak FK, Chadha NK. Application of augmented reality to surgical practice: A pilot study using the ODG R7 Smartglasses. Clin Otolaryngol. 2020;45(1):130-134. 2. Moxham LMR, Chadha NK, Courtemanche DJ. Is there a role for computed tomography scanning in microtia with complete aural atresia to rule out cholesteatoma?. Int J Pediatr Otorhinolaryngol. 2019;126:109. 3. Luu K, Valenzuela D, Chadha NK, Moxham P. Sternoclavicular sinus: Case series and literature review of a rare head and neck lesion. Int J Pediatr Otorhinolaryngol. 2019;125:175-181. 4. Costello R, Ludemann JP, Chadha NK. In reference to pH-neutralizing esophageal irrigations as a novel mitigation strategy for button battery injury. Laryngoscope. 2019 May;129(5):E162. 5. Landry EC, Yong M, Pauwels J, Chadha NK. The use of video glasses improved learning of tonsillectomy and adenoidectomy surgery: A randomized controlled trial. Int J Pediatr Otorhinolaryngol. 2019;117:12-16.
Dr Neil K Chadha, Dr M Felton	<p>Book Chapter: Chadha NK, Felton M, Arneja J. Pediatric Neck Masses. In: Operative Techniques in Plastic Surgery (Ed: K Chung), 2019 978-1496339508.</p>

PUBLICATION RECORDS

2019-2020

Name	Publication Citation
Dr Ronak Rahmanian	<ol style="list-style-type: none"> 1. Liou Friesen T, Zamora SM, Rahmanian R, Bundogji N, Brigger MT. Predictors of pediatric tracheostomy outcomes in the United States. Otolaryngol Head Neck Surg. 2020, DOI: 10.1177/0194599820917620 2. Oleksandr B, Rahmanian R, MacNeil SD, Anderson DW. Pharyngeoesophageal reconstruction with the gastric pull up: functional outcome in cohort of 49 patients. Clin Otolaryngol. 2019, DOI: 10.1111/coa.13503
Dr Jeffrey P Ludemann MD, FRCSC	Propst E, Ludemann JP , et al. Competency-based assessment tool for pediatric tracheotomy: International modified Delphi consensus. Early view published 2019 Dec 10. Laryngoscope. DOI: 10.1002/lary.28461
Dr J. Paul Moxham, MD, FRCSC	Sternoclavicular sinus: Case series and literature review of a rare head and neck lesion. Luu K, Valenzuela D, Chadha NK, Moxham P . Int J Pediatr Otorhinolaryngol. 2019 Oct;125:175-181.

INITIATIVES IN PROGRESS

2019-2020

February 22-29, 2020

5th Annual Global Choking Prevention Week, using social media platforms (Be Smart, Don't Choke on Facebook, Instagram and Twitter, to educate the public about choking & caustic ingestion hazards, to prevent accidental injuries and deaths).
<http://dontchoke.ubc.ca>

March 2020

STAYING SAFE AT HOME during the COVID-19 Pandemic (original title: Critical Education of Families on Choking Prevention; UBC Project given expedited approval & UBC Medical Student recruitment started March 28, 2020. Main contributors from UBC Medical School: Shailee Siddhpuria and Jennifer Ham; then transformed into International Project; major collaboration with Dr. Evan Propst (University of Toronto) and Dr. Reza Rahbar (Harvard University; Chair of the International Pediatric Otolaryngology Group).
This initiative reached > 5 million people globally, late March – mid April, 2020.

DIVISION OF PEDIATRIC PLASTIC SURGERY

2018-2020



FACULTY MEMBERS

2018-2020



Dr. Cynthia
Verchere,
Division
Head



Dr. Jugpal
Arneja



Dr. Sean
Bristol



Dr. Douglas J
Courtemanche



Dr. Erika
Henkelman



Dr. Sally Hynes



Dr. Ashley
Tregaskiss



Dr. Nancy Van
Laeken

STAFF MEMBERS

2018-2020

Nursing Staff:

- Wendy Moss, RN

Research Staff:

- Dr. Marija Bucevska, Research Coordinator
- Ms. Rebecca Courtemanche, Research Coordinator

Administrative Staff:

- Ms. Norine Mayede, Division Administrative Assistant & Medical Office Assistant to Dr. Verchere
- Ms. Audrey Potkonjak, Office Assistant to Dr. Verchere
- Ms. Anastasia Mitzel, Medical Office Assistant to Dr. Arneja
- Ms. Rupinder Parhar, Medical Office Assistant to Dr. Courtemanche
- Ms. Inder Akali, Medical Office Assistant to Dr. Henkelman
- Ms. Sandeep Nahal, Medical Office Assistant to Dr. Hynes

HIGHLIGHTS & ACHIEVEMENTS 2018-2019

**Dr. Douglas
Courtemanche**

Medical Staff Association of
Children's and Women's Hospital
Awards 2018: Patient Champion



HIGHLIGHTS & ACHIEVEMENTS 2019-2020

Brachial Plexus Team led by Dr. Cynthia Verchere

BCCH Excellence for Interprofessional Collaborative Practice - Honorable Mention

Dr. Douglas Courtemanche

Medical Staff Association of Children's and Women's Hospital Awards 2019: Patient Champion

Dr. Marija Bucevska

UBC Department of Surgery: 2019 Nicky Dorken Award for Excellence in Service

TEACHING ACTIVITIES 2019-2020

FELLOWS SUPERVISED

Dr. Sarah Gardiner

RESIDENTS SUPERVISED

R3 – Zach Zhang	R4 – Janine Roller
R3 (CIP) – Peter Mankowski	R4 – Diana Forbes
R4 – Nawaf Al Muqaimi	R5 – Sofie Schlagintweit
R4 – Jacques Zhang	

STUDENTS SUPERVISED

Gina Peck	Inayah Manji
Aida Rahavi	Sheikh Nafeel Ahmed
Amanat Purewal	

TEACHING ACTIVITIES

2018-2019

FELLOWS SUPERVISED	<p>Dr. Jasmine Tang Dr. Arlene Nakanwagi</p>
RESIDENTS SUPERVISED	<p>R3 - Nawaf Al Muqaimi R3 - Jacques Zhang R3 - Janine Roller R3 (CIP) - Peter Mankowski R3 (CIP) - Diana Forbes R4 (CIP) - Daniel Demsey R4 - Sophie Schlagintweit R5 - Aaron Van Slyke R5 - Stahs Pripotnev</p>
STUDENTS SUPERVISED	<p>Meghan Boersma Matthew Boroditsky Michael Carr Nancy Duan Jovi Sidhu Michaela Skarlicki Soroush Rokui Leo Yefet</p>

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

GRANTING AGENCY	TITLE	\$ PER YEAR	YEAR	PRINCIPLE INVESTIGATOR & CO-INVESTIGATORS
UBC Plastic Surgery Academic Grant	<i>Using Colors, Icons and Interactive Sliders in the Design of a Questionnaire</i>	\$4,848.54	2019	D. Courtemanche Co I: Tyler Omeis
University of Manitoba (CIHR)	<i>Creation of an advancement in burn care in Canada network (extension)</i>	\$4,000.00	2019	C. Verchere Co I: Sarvesh Logsetti
BCCH Foundation	<i>Identification of rejection-resistant fibroblasts for the improvement of transplantation outcomes and wound healing</i>	\$722.00	2019	G. Reid Co I: Dr. Ali Farrokhi, Dr. Sally Hynes, Dr. Cynthia Verchere
E2i Seed Grant 2018-2019	<i>Does Timing Matter? Early vs. Late Tympanostomy Tubes Placement in Infants with Cleft Lip and Palate: A Pilot Study</i>	\$5,000.00	2019	J. Arneja Co I: N. Chadha, S. Palm, Christina Bingham
E2i Seed Grant 2018-2019	<i>Opioid Prescribing Patterns for Children in British Columbia</i>	\$10,000.00	2019	D. Courtemanche Co I: G. Lauder
E2i Seed Grant 2018-2019	<i>A quantitative evaluation of the impact of presurgical orthopaedics with taping on facial morphology in the cleft lip and palate population</i>	\$5,650.00	2019	C. Verchere Co I: A. Loo, S. Vora
Rare Disease Foundation	<i>Long-term outcomes of patients with unresectable arteriovenous malformations: A 25-year chart review</i>	\$5,000.00	2018	D. Courtemanche Co I: J. Arneja
Rare Disease Foundation	<i>Describing the Population of Patients with 22q11.2DS in British Columbia and Characterizing their Care Needs</i>	\$5,000.00	2018	C. Loock Co I: D. Courtemanche, Patrice Eyedoux, Anna Lehman, Matthew Boroditsky

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

GRANTING AGENCY	TITLE	\$ PER YEAR	YEAR	PRINCIPLE INVESTIGATOR & CO-INVESTIGATORS
University of Manitoba (CIHR)	<i>Creation of an advancement in burn care in Canada network (extension)</i>	\$4,000.00	2018	C. Verchere Co I: Sarvesh Logsetti
Rare Disease Foundation	<i>Surgical Correction of Velopharyngeal Dysfunction in Children with 22q11.2 Deletion Syndrome</i>	\$3,450.00	2018	D. Courtemanche Co I: Sheryl Palm, C. Loock, Meghan Boresma
OPSEI	<i>Improving the practice of referrals for a multidisciplinary vascular anomalies clinic</i>	\$1,600.00	2018	D. Courtemanche
McMaster University (CIHR)	<i>CLEFT-Q Phase III</i>	\$3,250.00	2018	D. Courtemanche A. Klassen (Lead PI)
MASES	<i>Benchmarking MRI wait times to enhance service delivery to pediatric patients in British Columbia and the Yukon</i>	\$29,426.00	2018	John Mawson Co I: J. Arneja, J. Potts, M. Sargent, C. Strahlendorf
UBC	<i>Long-term outcomes of patients with unresectable arteriovenous malformations: A 25-year chart review</i>	\$3,200.00	2018	D. Courtemanche Co I: J. Arneja
OPSEI	<i>Outcomes of Pharyngeal Flap Surgery in Patients with Velopharyngeal Insufficiency</i>	\$3,200.00	2018	J. Arneja Sheryl Palm
UBC	<i>Head or Tails: What is the Best Split Thickness Skin Graft Donor Site?</i>	\$3,200.00	2018	S. Hynes
UBC	<i>Successes and Challenges of Transition from Pediatric to Adult Care for Individuals with 22q11.2DS</i>	\$3,200.00	2018	C. Loock

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2019

GRANTING AGENCY	TITLE	\$ PER YEAR	YEAR	PRINCIPLE INVESTIGATOR & CO-INVESTIGATORS
UBC	<i>Evaluation of Internal Rotation and Elbow Function Following the Sup-ER Protocol in Children with Birth Related Brachial Plexus Injuries</i>	\$3,200.00	2018	C. Verchere
BC Children's Hospital Research Institute	<i>"Surgical Correction of Velopharyngeal Dysfunction in Children with 22q11.2 Deletion Syndrome"</i>	\$4,725.00	2018	C. Verchere

DR. JUGPAL ARNEJA

Vascular Anomalies (Invited Presenter)

The American Society of Maxillofacial Surgeons (Webinar, April 2018)

SCHOLARLY & PROFESSIONAL ACTIVITIES

2019-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
E2i	Fetal Cleft Study	C	\$5 000	2020	E. Henkelman	D. Pugash, S. Nikkel, K. Sangha
E2i	Identification of rejection-resistant fibroblasts for the improvement of transplantation outcomes and wound healing: Phase 2. Early wound healing experiments	C	\$5 000	2020	S. Hynes	G. Reid, A. Farrokhi, C. Verchere, D. Courtemanche, J. Arneja, E. Henkelman, J. Terry
Rare Disease Foundation	Identification of Rejection-Resistant Fibroblasts for use in Bio-Engineered Skin Substitutes	C	\$5 000	2019	S. Hynes	Ali Farrokhi, Gregor Reid
OPSEI	Ear Molding	NC	\$1 181.25	2019	C. Verchere	K. Durlacher

COMMITTEE PARTICIPATION**2018-2019****Dr. Cynthia Verchere**

- VGH/BCCH Burn Program ad hoc Committee (Chair)
- UBC Plastic Surgery Resident Program Committee
- UBC Plastic Surgery CaRMS Selection Committee
- BCCH Surgical Cabinet Committee member
- BCCH Surgical Services Advisory Committee member
- BCCH Burn Resource Committee member
- BCCH Burn Collaborative Leadership Committee
- BCCH Ambulatory Project Steering Committee member
- BCCH Ambulatory Leadership Committee member
- Editorial Board member, British Columbia Medical Association Journal

Dr. Jugpal Arneja

- Treasurer:
 - Executive Committee, American Association of Pediatric Plastic Surgeons (AAPPS)
 - Executive Committee, American Association of Pediatrics, Section on Plastic Surgery (AAP SOPS)
- Abstract Review Committee Member: Canadian Society of Plastic Surgeons - 2018 Annual Meeting
- Communications/Newsletter Committee (chair): Division of Plastic Surgery, UBC
- Academic Surgery Fund (chair): Division of Plastic Surgery, UBC
- Medical Advisory Committee (MAC) Member
- Negotiations Committee/Representative, Clinical Services Contract, Department of Surgery

COMMITTEE PARTICIPATION

2018-2019

Dr. Douglas J. Courtemanche

- Cleft Palate Programme Review Committee (member): BC Children's Hospital
- C&W Clinical Informatics Advisory Committee (chair)
- C&W Clinical Informatics Executive Group (member)
- PHSA Biohazard Exposure Control Exception Review Committee (member)
- PHSA IMITS Policy & Planning Committee (member)
- UBC Plastic Surgery Resident Program Committee
- UBC Plastic Surgery CaRMS Selection Committee
- Doctors of BC FEI Evaluation Committee



COMMITTEE PARTICIPATION**2019-2020****Name****Committee****Dr. Cynthia Verchere**

VGH/BCCH Burn Program ad hoc Committee (Chair)

UBC – Plastic Surgery – Residency Program Committee

UBC – Plastic Surgery – CaRMS Selection Committee

BCCH Surgical Cabinet Committee member

BCCH Surgical Services Advisory Committee member

BCCH Burn Resource Committee member

BCCH Burn Collaborative Leadership Committee

BCCH Ambulatory Project Steering Committee member

BCCH Ambulatory Leadership Committee member

Editorial Board member, British Columbia Medical Association Journal

Dr. Sally Hynes

VGH/BCCH Burn Program ad hoc Committee (member)

BCCH Burn Resource Committee member

BCCH Burn Collaborative Leadership Committee

COMMITTEE PARTICIPATION**2019-2020****Name****Committee****Dr. Jugpal
Arneja**

Treasurer:

- Executive Committee, American Association of Pediatric Plastic Surgeons (AAPPS)
- Executive Committee, American Association of Pediatrics, Section on Plastic Surgery (AAP SOPS)

Communications/Newsletter Committee (chair):
Division of Plastic Surgery, UBC

Academic Surgery Fund (chair): Division of Plastic
Surgery, UBC

Medical Advisory Committee (MAC) Member

Negotiations Committee/Representative, Clinical
Services Contract, Department of Surgery

Anastasia Global Care Fund Deliberations Committee
(chair), BCCH

**Dr. Douglas J.
Courtemanche**

Cleft Palate Programme Review Committee
(member): BC Children's Hospital

C&W Clinical Informatics Advisory Committee (chair)

C&W Clinical Informatics Executive Group (member)

PHSA Biohazard Exposure Control Exception Review
Committee (member)

PHSA IMITS Policy & Planning Committee (member)

UBC – Plastic Surgery – Residency Program
Committee

UBC – Plastic Surgery – CaRMS Selection Committee

Doctors of BC – FEI Evaluation Committee

PUBLICATION RECORDS

2018-2019

Dr. Cynthia Verchere	<ul style="list-style-type: none"> Bjornson, L, Bucevska, M, Tilley, P, & Verchere, C. <i>Is it safe to re-access sodium bicarbonate bottles for use in minor surgery?</i> Journal of Pediatric Surgery. 2018;53(11), 2290–2293. http://doi.org/10.1016/j.jpedsurg.2018.04.005
Dr. Jugpal Arneja	<ul style="list-style-type: none"> Malhotra AK, Amed S, Bucevska M, Bush KL, Arneja JS. <i>Do Adolescents with Gynecomastia Require Routine Evaluation by Endocrinology?</i> Plast Reconstr Surg. 2018;142(1):9e-16e. Plastic and Reconstructive Surgery: July 2018 - Volume 142 - Issue 1 - p 9e-16e doi: 10.1097/PRS.00000000000004465 Tang, J, & Arneja, J. S. <i>Are Dog Bites a Problem of Nature or Nurture?</i> Plastic Surgery, 2018;26(4), 297–298. https://doi.org/10.1177/2292550318800326
Dr. Douglas J. Courtemanche	<ul style="list-style-type: none"> Klassen, A. F, Riff, K. W. W, Longmire, N. M, Albert, A, Allen, G. C, Aydin, M. A, et al. (2018). <i>Psychometric findings and normative values for the CLEFT-Q based on 2434 children and young adult patients with cleft lip and/or palate from 12 countries.</i> CMAJ: Canadian Medical Association Journal = Journal De l'Association Medicale Canadienne, 190(15), E455–E462. http://doi.org/10.1503/cmaj.170289 Gorman J, Zbarsky SJ, Courtemanche RJM, Arneja JS, Heran MKS, Courtemanche DJ. <i>Image guided sclerotherapy for the treatment of venous malformations.</i> CVIR Endovascular. 2018;1(1):2. http://doi.org/10.1186/s42155-018-0009-1 Roller, J. M, Courtemanche, R. J. M, & Courtemanche, D. J. <i>A Review of Validated QOL PROMs in Pediatric Plastic Surgery.</i> Plast Reconstr Surg. 2018;142(5), 694e–707e. http://doi.org/10.1097/PRS.00000000000004841 Shih, J. G, Knox, A. D. C, Zhygan, N, Courtemanche, D. J, Fish, J. S, & Brown, M. H. <i>Towards the Assessment of Core Procedural Competencies amongst Canadian Plastic Surgery Residents.</i> Plast Reconstr Surg. 2018;142(6):958e–967. http://doi.org/10.1097/PRS.00000000000005062
Dr. Erika Henkelman	<ul style="list-style-type: none"> Tom Liu, R, Henkelman, E, Popescu, O, & Yin, V. T. (2019). <i>Nodular fasciitis: A rapidly enlarging destructive periorbital mass in an infant.</i> American Journal of Ophthalmology Case Reports. 2019;13, 119–121. http://doi.org/10.1016/j.ajoc.2018.04.019

PUBLICATION RECORDS

2019-2020

Name	Publication Citation
Dr. C. Verchere	<ol style="list-style-type: none"> 1. Bjornson, L. A, Bucevska, M, & Verchere, C. Tissue expansion in pediatric patients: a 10-year review. Journal of Pediatric Surgery. Journal of Pediatric Surgery. 2019;54(7), 1471-1476 http://doi.org/10.1016/j.jpedsurg.2018.09.002 2. Yen P, Verchere C. Donor Site Calcification and Deformation Following Microtia Repair in a Pediatric Patient With Mosaic Trisomy 22. Plast Surg Case Stud. 2019 Jan 1;5:2513826X19831721. https://doi.org/10.1177/2513826X19831721 3. Chan, R, Van Slyke, A. C, Bucevska, M, & Verchere, C. A 3-Year Review of an Outpatient Burn Sedation Program in a Tertiary Burn Care Centre: Is It Safe and Does It Work? Plastic Surgery. 2019; 27(4) 305-310. https://journals.sagepub.com/doi/full/10.1177/2292550319876663
Drs. C. Verchere and J. Arneja	<ol style="list-style-type: none"> 1. Zhang ZZ, Haddock C, Verchere C, Arneja JS, Skarsgard ED. Management of narrow stalked giant omphalocele using tissue expansion, staged closure, and amnion preservation technique. Journal of Pediatric Surgery Case Reports. 2019 Dec 1;51:101311. https://doi.org/10.1016/j.epsc.2019.101311
Dr. S. Hynes	<ol style="list-style-type: none"> 1. Meuli, M, Hartmann-Fritsch, F, Hüging, M, Marino, D, Saglini, M, Hynes, S, et al. (2019). A Cultured Autologous Dermo-epidermal Skin Substitute for Full-Thickness Skin Defects: A Phase I, Open, Prospective Clinical Trial in Children. Plastic and Reconstructive Surgery, 144(1), 188-198. http://doi.org/10.1097/PRS.00000000000005746

PUBLICATION RECORDS

2019-2020

Name	Publication Citation
Dr. J. Arneja	<p>1. Wan M, Zhang JX, Ding Y, Jin Y, Bedford J, Nagarajan M, Bucevska M, Courtemanche DJ, Arneja JS. High-Risk Plastic Surgery: An Analysis of 108,303 Cases From the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP). Plastic Surgery. Plastic Surgery. 2020; 28(1), 57-66. (Online first Oct, 30, 2019) https://doi.org/10.1177/2292550319880921</p>
Dr. D. J. Courtemanche	<p>1. Moxham LMR, Chadha NK, Courtemanche DJ. Is there a role for computed tomography scanning in microtia with complete aural atresia to rule out cholesteatoma? Int J Pediatr Otorhinolaryngol. 2019 Nov;126:109610. https://doi.org/10.1016/j.ijporl.2019.109610</p> <p>2. Leung, L. T. F, Loock, C. A, Courtemanche, R, & Courtemanche, D. J. (2019). A Cross-Sectional Analysis of the BC Children's Hospital Cleft Palate Program Waitlist. Plastic Surgery, 98(7), 1-8. http://doi.org/10.1177/2292550319876664</p> <p>3. Wong Riff K W Y, Tsangaris E, Forrest CR, Goodacre T, Longmire NM, Allen G, et al (Courtemanche DJ). CLEFT-Q: Detecting Differences in Outcomes among 2434 Patients with Varying Cleft Types. Plast Reconstr Surg. 2019;144(1):78e-88e. doi: 10.1097/PRS.00000000000005723.</p> <p>4. Boroditsky M, Courtemanche R, Courtemanche D, Robertson S, Loock C. Taking Steps to Improve Care and Planning for Patients in British Columbia with 22q11.2. BCMJ. 62(2):54-60, March 2020.</p>

INITIATIVES IN PROGRESS

2018-2020

All of the investigators have multiple research projects in progress.



DIVISION OF PEDIATRIC SURGERY

2018-2020



FACULTY MEMBERS

2018-2020



Dr. Robert Baird



Dr. Geoffrey K. Blair
*(retired from clinical practice
June 2018)*



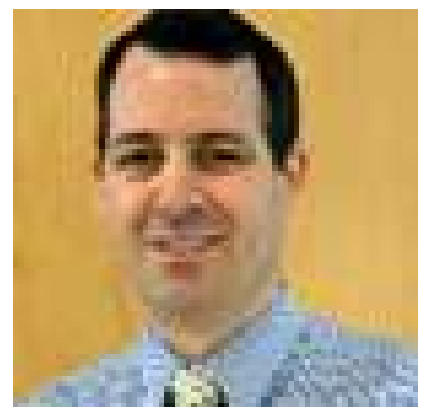
**Dr. Sonia A.
Butterworth**



Dr. Hannah G. Piper



Dr. Erik D. Skarsgard
Surgeon-in-Chief



Dr. Eric M. Webber
Division Head

STAFF MEMBERS

Ms. Christine Adamson
Ms. Amie Nowak
Mr. Thomas Coules
Ms. Bindy Sahota
Ms. Michelle Wojcik
Ms. Robyn Walker
Ms. Jill Haynes
Ms. Susan Myhre



TEACHING ACTIVITIES

2018-2019

FELLOWS SUPERVISED

AlGhalya AlMaawali
Candace Haddock
Arlene Nakanwagi
Arash Safavi
Anne Shikanda

RESIDENTS SUPERVISED

GENERAL SURGERY

Quinn Gentles
Annie Lalande
Emily McKay
Quinn Parker
Martha Talbot
Annie Wang
Ted Wu

PEDIATRICS

Katrina Assen
Elise Van Brummelen
Mitchell Canes
Audrea Chen
Alyssa De Luca
Carson Gill
Alexandra Gustafson
Katherine Johnson
Angela Maccan
Dalal Mohammad
Rose Shumiatcher
James Toft

TEACHING ACTIVITIES

2018-2019

RESIDENTS SUPERVISED (cont'd)

PLASTIC SURGERY

Rihab Al-Lawati
Annie Wang
Zach Zang

STUDENTS SUPERVISED

Sophie Carr, FLEX Student
Damon Dhillon, FLEX Student
Katie LaRusso, PhD Candidate
Francesca Peters, FLEX Student
August Pierik, FLEX Student & Summer Studentship
Researcher
Jessica Que, FLEX Student & BCCHRI Summer Researcher
Michaela Skarlicki, Dietetics Student
Etienne St. Louis, PhD Candidate
Tongtong Zhai, Undergraduate Co-op Student



TEACHING ACTIVITIES

2018-2019

Lectures/Presentations

Erik Skarsgard

1. Keynote Address: The Value of Patient Registries in Advancing Care for Surgical Birth Defects. 10th Annual Children's Hospital Neonatal Consortium Annual Symposium. Columbus, OH. October 22, 2018.
2. Presidential Address: Now comfortably seated with the adults. 50th Annual Meeting of the Canadian Association of Pediatric Surgeons, Toronto, ON, Canada. September 25, 2018.
3. Invited panelist: Giant Omphaloceles: Overview, Physiological Sequelae and the Dilemma of Surgical Management. The Hendren Project International Webinar. June 29, 2018.

Hannah Piper

- 18/Apr Pediatrics academic half day – Hirschsprung disease
- 18/May Pediatric surgery academic half day – miscellaneous endocrine tumors
- 18/Jun Pediatric surgery oral exam session – critical care/ECMO
- 18/Jul Summer student research program – how to write an abstract
- 18/Sep Pediatric surgery academic half day – central venous catheters
- 18/Oct Pediatric surgery academic half day – intestinal atresia
- 18/Nov Pediatric surgery academic half day – intestinal failure
- 18/Nov Clinical Associate education day – necrotizing enterocolitis
- 19/Jan Pediatric surgery academic half day – choledochal cyst and gallbladder disease
- 19/Jan Nursing academic day – abdominal pain
- 19/Apr Pediatric surgery academic half day – gastroesophageal reflux disease

TEACHING ACTIVITIES

2018-2019

Lectures/Presentations

Hannah Piper

Also, twice monthly teaching session about various pediatric surgery topics for third year medical students

Sonia Butterworth

1. Advanced Technical Skills Lab. Foundations. April 11, 2018
2. Pediatric Trauma. Foundations. May 16, 2018
3. Head & Neck, Tumors. Senior AHD. Foundations. June 21, 2018
4. Mini CRASH. Foundations. July 11, 18, 25, 2018
5. Pediatric Surgery. General Surgery Half Day. GI Bleeding (Meckels/duplication). September 18, 2018
6. CRASH orientation. Foundations. September 24, 2018
7. Trauma lab, CRASH, October 3, 2018
8. Advanced Technical Skills lab. CRASH, October 4, 2018
9. Leadership in the OR & Surgical Safety. CRASH, October 9, 2018
10. Bedside teaching. CRASH, October 9, 2018
11. POEM. CRASH, October 11, 2018
12. POEM. CRASH, October 12, 2018
13. Topic: Death Disclosure. Foundations. October 24, 2018
14. Pediatric Surgery. General Surgery Half Day, Meconium Disease, October 9, 2018
15. Pediatric GI Academic Rounds. EA/TEF. November 20, 2018
16. Pediatric Surgery. General Surgery Half Day. Intussusception. December 20, 2018
17. Pediatric Surgery. General Surgery Half Day. Biliary Atresia, March 5, 2019
18. ATLS Course Director 2018

TEACHING ACTIVITIES

2019-2020

FELLOWS SUPERVISED

AlGhalya AlMaawali
Candace Haddock
Arlene Nakanwagi
Arash Safavi
Anne Shikanda

RESIDENTS SUPERVISED

GENERAL SURGERY

Karan D'Souza
Caroline Huynh
Nicolle Kloos
Annie Lalande
Azalea Lehndorff
Jessica Lie
Daphne Lu
Martina Parapini
Martha Talbot
Katelyn Tang
Kadhim Taqu

PLASTIC SURGERY

Ahmed Al-Hosni
Mike Carr
Paige Knight

TEACHING ACTIVITIES

2019-2020

RESIDENTS SUPERVISED (cont'd)

PEDIATRICS

Brittany Boorman
Jeff Chen
Riley Chen-Mack
Erin Coates
Megan Cox
Basil Kadoura
Ariane L'Ecuyer
Nolan Lee
Caitlin Marchak
Frances Morin
Kaie Rosborough
Sarah Silverberg
Matthew Smith

STUDENTS SUPERVISED

Sophie Carr, FLEX Student
Damon Dhillon, FLEX Student
Katie LaRusso, PhD Candidate
Francesca Peters, FLEX Student
August Pierik, FLEX Student & Summer Studentship
Researcher
Jessica Que, FLEX Student & BCCHRI Summer Researcher
Michaela Skarlicki, Dietetics Student
Etienne St. Louis, PhD Candidate
Tongtong Zhai, Undergraduate Co-op Student

TEACHING ACTIVITIES

2019-2020

Lectures/Presentations

Erik Skarsgard	1. Invited panelist: PS127: <u>Current Trends in Treatment of Congenital Diaphragmatic Hernia (CDH)</u> . American College of Surgeons Clinical Congress. San Francisco, CA. October 28, 2019.
Hannah Piper	<p>19/May Pediatric surgery academic half day – liver tumors</p> <p>19/July BC Children's Hospital Research Institute Summer Student Program – strategies for a career in translational research</p> <p>19/Aug Pediatric surgery academic half day – nutrition for pediatric surgical patients</p> <p>19/Oct Pediatric surgery academic half day – small intestinal atresia</p> <p>19/Nov Pediatric surgery academic half day -intestinal rehabilitation</p> <p>20/Jan Pediatric surgery academic half day – anorectal malformations</p> <p>20/Mar Pediatric surgery academic half day - hepatoblastoma</p> <p>Also, twice monthly teaching session about various pediatric surgery topics for third year medical students</p>
Sonia Butterworth	<p>1. Pediatric Surgery. General Surgery Half Day. Renal Masses. April 9, 2019</p> <p>2. Thoracic Surgery Academic Rounds. EA/TEF. May 17, 2019</p> <p>3. Surgical Foundations. Safety and Conduct of a Procedure. February 20, 2019</p> <p>4. Pediatric Surgery. General Surgery Half Day. Testicular Malposition , June 11, 2019</p> <p>5. CBD: Why, What and How. UBC Geriatric Medicine. April 23, 2019</p> <p>6. CBME at UBC: Updates, changes & Resources for Faculty and Residents. CBME PGME Retreat April 23, 2019</p>

TEACHING ACTIVITIES

2019-2020

Lectures/Presentations

Sonia Butterworth

1. Accreditation at UBC. Program Director's Workshop. May 15, 2019
2. Butterworth. Improving Emergency OR Access: Update and Next Steps. Surgical Suites Grand Grounds. Vancouver, BC. April 16, 2019
3. Butterworth. Introduction to Surgical Subspecialties (Pediatric Surgery). Vancouver Summer Program. June 25, 2019. Vancouver, BC
4. Butterworth. MedSchool 101. St George's School. August 8, 2019
5. Pediatric Surgery. Testicular Malposition, June 2019
6. ATLS Course Director , September 2019
7. Pediatric Surgery. GI Bleed. September 2019
8. Pediatric Surgery. Intussusception. December 2019
9. Congenital Cystic Lung Lesions. Pediatric Surgery Fellow's session. Feb 11, 2020



SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

GRANTING AGENCY	TITLE	\$ PER YEAR	YEAR	PI	CO-PI
Evidence to innovation E2i microgrant	<i>A prospective evaluation of non-operative treatments for gastrocutaneous fistulate in children</i>	\$3,000	x1	Baird	None
Evidence to innovation E2i microgrant	<i>Advancing Surgical Care of the Neonate with Sacrococcygeal Teratoma: Evidence, Action, Advocacy</i>	\$3,500	x1	Baird	Duffy
Canadian Association of Pediatric Surgeons	<i>The relationship between the intestinal microbiota and absorption after small bowel resection</i>	\$10,000	2018-2020	Piper	Silverman
ASPEN Rhoads Foundation Grant	<i>Targeted probiotic therapy to improve the gut microbiota and growth in children with short bowel syndrome</i>	\$25,000	2017-2019	Piper	Koh

All of the above grants were obtained competitively as opposed to non-competitively



SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Robert Baird

- The Hendren Project - Gastroschisis

Hannah Piper

- Grand Rounds, Department of Pediatrics, UBC,
- Pediatric Intestinal Rehabilitation: What's New?
- OPSEI Rounds, BC Children's Hospital, The role of the gut microbiota in short bowel syndrome
- Grand Rounds, Department of Surgery, UBC,
- Intestinal Rehabilitation : What Surgeons Need to Know
- Grant Reviewer, Faculty of Medicine, UBC, Summer Student Research Program
- Grant Reviewer, Canadian Association of Pediatric Surgeons
- Grant Reviewer, American Society for Parenteral and Enteral Nutrition, Rhoads Research Foundation
- Grant Reviewer, Faculty of Medicine Early Career Grants, UBC
- Manuscript review: Journal of Pediatric Surgery, Journal of Parenteral and Enteral Nutrition, Journal of Surgical Research, Journal of Pediatric Gastroenterology and Nutrition
- Clinical guidelines for optimizing intestinal adaptation, American Society for Parenteral and Enteral Nutrition, invited author
- Moderator, Pediatric/Neonatal Session: American Society for Parenteral and Enteral Nutrition, Nutrition Science & Practice Conference
- Moderator, Scientific Session: Quality and Outcomes, Canadian Association of Pediatric Surgeons
- Expert Panel Discussant: Central Venous Catheter Management, Pediatric Intestinal Failure and Rehabilitation Symposium

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Hannah Piper

- McLaughlin C*, Gonzalez-Hernandez J, Bennett M, **Piper HG**. Academic Surgical Congress. *Pediatric breast masses: should they be excised?* Oral presentation (2018)
- Casson C, Nguyen V, Nayak P, Channabasappa N, Berris K, Panczuk J, Bhiladvala C, Dasgupta T, **Piper HG**. Pediatric Intestinal Failure and Rehabilitation Symposium. *A comparison of Smoflipid and Intralipid in the early management of infants with intestinal failure*. Oral presentation (2018)
- **Piper HG**, Nguyen V, Channabasappa N, Coughlin L, Koh AY. Pediatric Intestinal Failure and Rehabilitation Symposium. *Intestinal microbial dysbiosis characterized by decreased bile acid transforming bacteria in infants with short bowel syndrome and hepatic cholestasis*. Poster presentation (2018)
- **Piper HG**, Nguyen V, Channabasappa N, Koh AY. W.B & M.H. Chung Research Day. *Gut microbial dysbiosis characterized by decreased bile acid transforming bacteria in infants with short bowel syndrome and hepatic cholestasis*. Oral presentation (2018)

Sonia Butterworth

1. Book Chapter:
 - a. P Hamilton, **S Butterworth**, P D'Alessandro, G Frager, S Lena, J Rezmovitz, A Skorzevska, LJ Nelles. "The use of theatre with medical residents" in The Health Humanities in Post-Graduate Medical Education- A Source Book. Allan Peterkin & Anna Skorzevska, Editors. Oxford University
2. Canadian Association of Pediatric Surgeons, Publication committee, Chair,
3. Canadian Association of Pediatric Surgeons, Council member
4. Royal College of Physicians and Surgeons of Canada, Specialty Committee, Surgical Foundations
5. Royal College of Physicians and Surgeons of Canada, ePortfolio Super user Group. CBD Leads Group

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2018-2019

Sonia Butterworth

Invited:

1. National Defense, Canadian Forces Trauma Training Centre (West), Pediatric Trauma –June 13, 2018
2. National Defense, Canadian Forces Trauma Training Centre (West), Pediatric Trauma –September 25, 2018
3. CBME Implementation in Surgery: Updates and Town Hall. Department of Surgery Grans Rounds. January 9, 2019
4. CBD: Why, What and How. UBC Radiology. January 16, 2019



SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Robert Baird

- The Hendren Project - Gastroschisis

Hannah Piper

- Grand Rounds, Department of Pediatrics, UBC,
- Pediatric Intestinal Rehabilitation: What's New?
- OPSEI Rounds, BC Children's Hospital, The role of the gut microbiota in short bowel syndrome
- Grand Rounds, Department of Surgery, UBC,
- Intestinal Rehabilitation : What Surgeons Need to Know
- Grant Reviewer, Faculty of Medicine, UBC, Summer Student Research Program
- Grant Reviewer, Canadian Association of Pediatric Surgeons
- Grant Reviewer, American Society for Parenteral and Enteral Nutrition, Rhoads Research Foundation
- Grant Reviewer, Faculty of Medicine Early Career Grants, UBC
- Manuscript review: Journal of Pediatric Surgery, Journal of Parenteral and Enteral Nutrition, Journal of Surgical Research, Journal of Pediatric Gastroenterology and Nutrition
- Clinical guidelines for optimizing intestinal adaptation, American Society for Parenteral and Enteral Nutrition, invited author
- Moderator, Pediatric/Neonatal Session: American Society for Parenteral and Enteral Nutrition, Nutrition Science & Practice Conference
- Moderator, Scientific Session: Quality and Outcomes, Canadian Association of Pediatric Surgeons
- Expert Panel Discussant: Central Venous Catheter Management, Pediatric Intestinal Failure and Rehabilitation Symposium

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Hannah Piper

- Pierik A* and **Piper HG**. Office of Pediatric Surgical Evaluation and Innovation (OPSEI) Research Rounds. *Instructional Videos and Central Line Complications*. Oral presentation (2019)
- **Piper HG**, Coughlin L, Channabasappa N, Koh AY. ASPEN Nutrition Science & Practice Conference. *Oral probiotics do not predictably change the intestinal microbiota in children with short bowel syndrome*. Oral presentation (2019)
- Casson C*, Nguyen V, Nayak P, Channabasappa N, Berris K, Panczuk J, Bhiladvala C, Dasgupta T, **Piper HG**. American Pediatric Surgical Association. *A Comparison of Smoflipid and Intralipid in the early management of infants with intestinal failure*. Oral presentation (2019)
- **Piper HG**, Coughlin LA, Nguyen V, Channabasappa N, Koh AY. Canadian Association of Pediatric Surgeons. *Stool samples can be used to characterize the microbiota of the more proximal small bowel in infants with short bowel syndrome*. Oral presentation (2019)
- Que J*, Panczuk J, **Piper HG**. Office of Pediatric Surgical Evaluation and Innovation (OPSEI) Research Rounds. *The impact of daily probiotics on necrotizing enterocolitis in very low birth weight infants*. Oral presentation (2019)

Sonia Butterworth

1. Canadian Association of Pediatric Surgeons, publication committee, Chair,
 2. Canadian Association of Pediatric Surgeons, Council member
- Invited:
1. CBD: Why, What and How. UBC Geriatric Medicine. April 23, 2019
 2. CBME at UBC: Updates, changes & Resources for Faculty and Residents. CBME PGME Retreat April 23, 2019
 3. Accreditation at UBC. Program Director's Workshop. May 15, 2019

SCHOLARLY & PROFESSIONAL ACTIVITIES CON'T

2019-2020

Sonia Butterworth

4. Butterworth. Improving Emergency OR Access: Update and Next Steps. Surgical Suites Grand Grounds. Vancouver , BC. April 16, 2019
5. Butterworth. Introduction to Surgical Subspecialties (Pediatric Surgery). Vancouver Summer Program. June 25, 2019. Vancouver, BC
6. Butterworth. MedSchool 101. St George's School. August 8, 2019
7. Butterworth. University of Saskatchewan, Department of Surgery Annual Awards. Competency by Design: Myths, Challenges & Opportunities. September 2019
8. CASEY LINDA, DHALI WAL KEERAT, ALBERSHEIM SUSAN, BUTTERWORTH SONIA, PIPER HANNAH. NeoCHIRP: Intestinal Rehabilitation in the NICU Pediatric Intestinal Failure and Rehabilitation Symposium (Virtual conference).
9. National Defense, Canadian Forces Trauma Training Centre (West), Pediatric Trauma –June 2019
10. National Defense, Canadian Forces Trauma Training Centre (West), Pediatric Trauma –September 2019



PUBLICATION RECORDS

2018-2019

Robert Baird

Development and validation of a new pediatric resuscitation and trauma outcome (PRESTO) model using the US National Trauma Data Bank. E St-Louis, D Bracco, J Hanley, T Razek, **R Baird**. Journal of pediatric surgery 53 (1), 136-140 2018

Diagnosis and management of congenital diaphragmatic hernia: a clinical practice guideline. PS Puligandla, ED Skarsgard, M Offringa, I Adatia, **R Baird**, JAM Bailey, ... CMAJ 190 (4), E103-E112 2018

Radiation exposure and attributable cancer risk in patients with esophageal atresia. Y Yousef, **R Baird**. Journal of pediatric gastroenterology and nutrition 66 (2), 234-238 2018

Risk stratification in pediatric perforated appendicitis: Prospective correlation with outcomes and resource utilization. Y Yousef, F Youssef, T Dinh, K Pandya, H Stagg, M Homsy, **R Baird**, ... Journal of pediatric surgery 53 (2), 250-255 2018

Time to appendectomy for acute appendicitis: A systematic review. DB Cameron, R Williams, Y Geng, A Gosain, MA Arnold, YS Guner, Baird R, et al. Journal of pediatric surgery 53 (3), 396-405 2018

Enrollment and reporting practices in pediatric general surgical randomized clinical trials: A systematic review and observational analysis. E St-Louis, M Oosenbrug, T Landry, **R Baird** Journal of pediatric surgery 53 (5), 879-884 2018

Gastrocutaneous fistulae in children—A systematic review and meta-analysis of epidemiology and treatment options. E St-Louis, N Safa, E Guadagno, **R Baird** Journal of pediatric surgery 53 (5), 946-958 2018

Experience with peritoneal thermal injury during subcutaneous endoscopically assisted ligation for pediatric inguinal hernia. E St-Louis, A Chabot, H Stagg, **R Baird** Journal of pediatric surgery 53 (5), 968-972 2018

Appropriate use of total parenteral nutrition in children with perforated appendicitis. Y Yousef, F Youssef, M Homsy, T Dinh, H Stagg, R Petroze, **R Baird**, ... Journal of Pediatric Surgery 53 (5), 991-995 2018

PUBLICATION RECORDS

2018-2019

Robert Baird

Intrathyroidal thymic tissue in children: Avoiding unnecessary surgery. E Kay-Rivest, MA Mascarella, P Puligandla, S Emil, C Saint-Martin, **R Baird** Journal of pediatric surgery 53 (5), 1010-1013 2018

Regarding global pediatric surgery training opportunities. **R Baird**, K Pandya, DR Lal, CM Calkins, KT Oldham, A Tsai, ... Journal of pediatric surgery 53 (6), 1256-1258 2018

Ovarian torsion in pediatric and adolescent patients: A systematic review. R Dasgupta, E Renaud, AB Goldin, **R Baird**, DB Cameron, MA Arnold, ... Journal of pediatric surgery 53 (7), 1387-1391 2018

The utility of magnetic resonance imaging in the diagnosis and management of pediatric benign ovarian lesions. S Emil, F Youssef, G Arbash, **R Baird**, JM Laberge, P Puligandla, ... Journal of pediatric surgery 53 (10), 2013-2018 2018

Can the Pediatric Resuscitation and Trauma Outcomes Be Used to Predict In-Hospital Mortality in Injured Rwandese Children? E St-Louis, RT Petroze, **R Baird**, T Razek, D Poenaru, JF Calland, ... Journal of the American College of Surgeons 227 (4), S127-S128 2018

Systematic reviews and meta-analytic techniques. **R Baird** Seminars in Pediatric Surgery 27 (6), 338-344 2018

Eric M. Webber

Lai M, Coakley BA, **Webber EM**, Goldman RD. *Intussusception with cecal cyst as lead point in a child.* Pediatr Emerg Care, 2018 Jul;34(7):e134-e135

Erik Skarsgard

Conservative Therapy for Appendicitis in Children. Yamanaka S, **Skarsgard ED**, Goldman RD. Can Fam Physician 2018Aug;64(8):574-576.

A New Anthropometric Classification Scheme of Preoperative Nutritional Status in Children; A Retrospective Observational Cohort Study. Stey A, Ricks-Oddie J, Innis S, Rangel S, Moss RL, Hall BL, Dibbins A, **Skarsgard ED.** BMJ Paediatr Open 2018 Oct12;2(1). e000303.

PUBLICATION RECORDS

2018-2019

Erik Skarsgard

Creation of An Enhanced Recovery After Surgery (ERAS) Guideline for Neonatal Abdominal Surgery Patients: a knowledge synthesis and consensus generation approach and protocol study. Gibb ACN, Crosby MA, McDiarmid C, Urban D, Lam JYK, Wales, PW, Brockel M, Raval M, Offringa M, **Skarsgard ED**, Wester T, Wong K, De Beer D, Nelson G, Brindle ME. *BMJ Open* 2018 Dec 9;8(12):e023651.

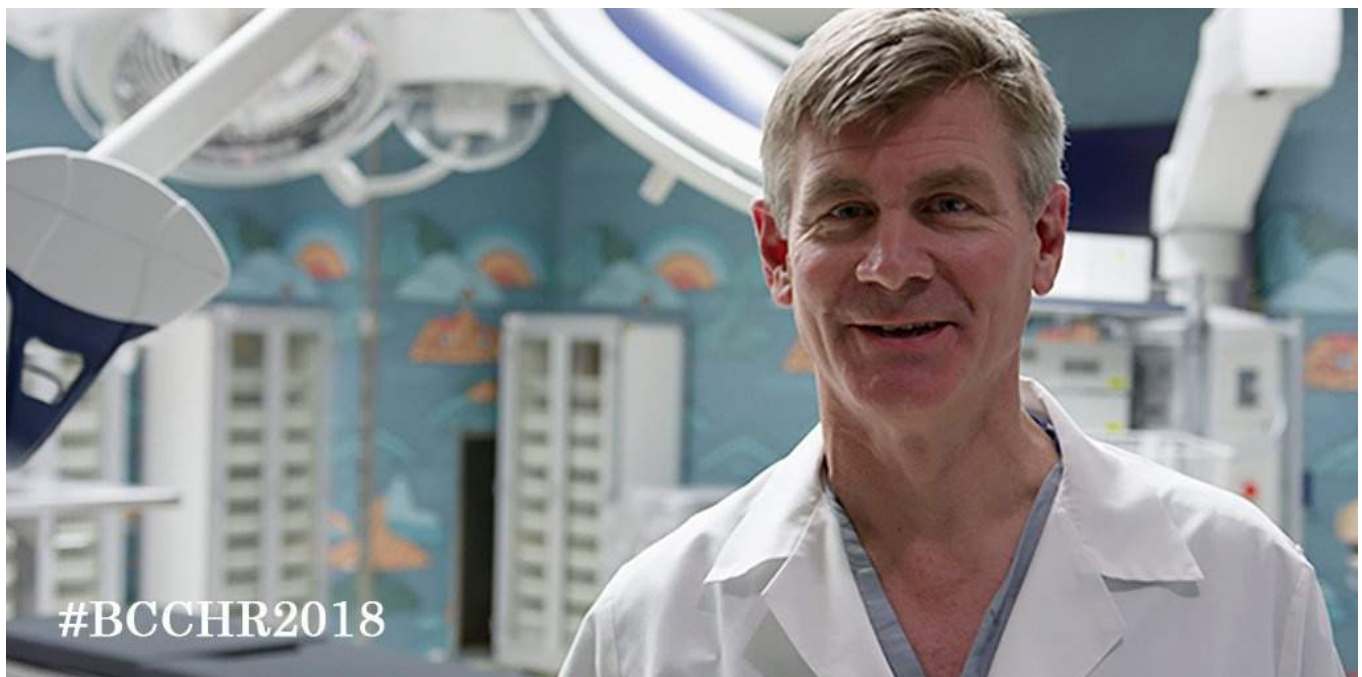
Hannah Piper

McLaughlin CM*, Bennett M, Channabasappa N, Journeycake J, **Piper HG**. *Anticoagulation results in increased line salvage for children with intestinal failure and central venous thrombosis.* *Journal of Pediatric Surgery*, 2018; May 53(5): 1052-1055.

Itum DS*, Oltmann SC, Choti MA, **Piper HG**. *Access to paid parental leave for academic surgeons.* *Journal of Surgical Research*; 2019; Jan 233: 144-148.

McLaughlin CM*, Gonzalez-Hernandez J, Bennett M, **Piper HG**. *Pediatric breast masses: an argument for observation.* *J Surg Res*; 2018; Aug 228: 247-252.

Piper HG. *Intestinal microbiota in short bowel syndrome.* *Semin Pediatr Surg*. 2018; Aug 27: 223-228.



PUBLICATION RECORDS

2019-2020

Robert Baird

Vacuum bell treatment of pectus excavatum: an early North American experience. E St-Louis, J Miao, S Emil, **R Baird**, M Bettolli, K Montpetit, J Goyette, ... Journal of pediatric surgery 54 (1), 194-199 2019

Nebulized analgesia during laparoscopic appendectomy (NALA): A randomized triple-blind placebo controlled trial. **R Baird**, P Ingelmo, A Wei, Y Meghani, EV Perez, H Pelletier, G Auer, ... Journal of Pediatric Surgery 54 (1), 33-38 2019

Ovarian masses in the child and adolescent: an American pediatric surgical association outcomes and evidence-based practice committee systematic review. EJ Renaud, S Sømme, S Islam, DB Cameron, RL Gates, RF Williams, **R Baird**... Journal of pediatric surgery 54 (3), 369-377 2019

A systematic review of capacity assessment tools in pediatric surgery: Global Assessment in Pediatric Surgery (GAPS) Phase I. Y Yousef, E St-Louis, **R Baird**, ER Smith, E Guadagno, D St-Vil, ... Journal of Pediatric Surgery 54 (4), 831-837 2019

Management of long gap esophageal atresia: a systematic review and evidence-based guidelines from the APSA Outcomes and Evidence Based Practice Committee. **R Baird**, DR Lal, RL Ricca, KA Diefenbach, CD Downard, J Shelton, ... Journal of pediatric surgery 54 (4), 675-687 2019

Incidence and prevalence of congenital anomalies in low-and middle-income countries: A systematic review. A Toobaie, Y Yousef, S Balvardi, E St-Louis, **R Baird**, E Guadagno, ... Journal of pediatric surgery 54 (5), 1089-1093 2019

Sclerotherapy for rectal prolapse in children: A systematic review and meta-analysis. GC Hintz, VZ Zou, **R Baird** Journal of pediatric surgery 54 (5), 1083-1088 2019

Unifying children's surgery and anesthesia stakeholders across institutions and clinical disciplines: challenges and solutions from Uganda. P Kisa, DF Grabski, D Ozgediz, M Ajiko, R Aspide, **R Baird**, G Barker, ... World Journal of Surgery 43 (6), 1435-1449 2019

PUBLICATION RECORDS

2019-2020

Robert Baird	<p><i>Non-operative management of solid organ injuries in children: An American Pediatric Surgical Association Outcomes and Evidence Based Practice Committee systematic review.</i> RL Gates, M Price, DB Cameron, S Somme, R Ricca, TA Oyetunji, R Baird, ... Journal of pediatric surgery 54 (8), 1519-1526 2019</p> <p><i>The management of pilonidal disease: A systematic review.</i> J Grabowski, TA Oyetunji, AB Goldin, R Baird, A Gosain, DR Lal, ... Journal of pediatric surgery 54 (11), 2210-2221 2019</p> <p><i>Pediatric burn contractures in low-and lower middle-income countries: A systematic review of causes and factors affecting outcome.</i> F Meng, KJ Zuo, A Amar-Zifkin, R Baird, S Cugno, D Poenaru Burns Aug;46(5):993-1004. 2019</p>
Eric Webber	<p>Acosta-Gualandri A, Kao KT, Wong T, Webber E, Armstrong L, Panagiotopoulos C. <i>Perioperative Hypotensive Crisis in an Adolescent with a Pancreatic VIPoma and MEN1-Gene Variant.</i> Horm Res Paediatr, 2019;91(4):285-289.</p>
Erik Skarsgard	<p>CAPS at 50. Skarsgard ED. Now comfortably seated with the grownups. J Pediatr Surg 2019 May;54(5):875-880.</p> <p><i>Immediate versus staged repair of omphaloceles.</i> Skarsgard ED. Semin Pediatr Surg 2019 Apr;28(2):89-94.</p> <p><i>Establishing a core outcome set for treatment of uncomplicated appendicitis in children: study protocol for an international Delphi survey.</i> Knaapen M, Hall NJ, van der Lee JH, Butcher NJ, Offringa M, Van Heurn EWE, Bakx R, Gorter RR; Paediatric Appendicitis COS development group. BMJ Open 2019 May 22;9(5):e028861.</p> <p><i>Abdominal Tuberculosis in an Infant Presenting with a Small Bowel Obstruction.</i> Matettore A, Rajaprakash M, Bennett M, Skarsgard ED, Goldman RD. Pediatr Emerg Care 2019 Jul 5. doi: 10.1097/PEC.0000000000001872.</p> <p><i>Improving Value and Access to Specialty Medical Care for Families: The Pediatric Surgery Telehealth Program.</i> Dean P, O'Donnell M, Zhou L, Skarsgard ED. Can J Surg. 2019;62(6):436-441.</p> <p><i>Management of narrow stalked giant omphalocele using tissue expansion, staged closure, and amnion preservation technique.</i> Zhang Z, Haddock C, Verchere C, Arneja J, Skarsgard ED. J Pediatr Surg Case Rep 2019;51:101311</p>

PUBLICATION RECORDS

2019-2020

Robert Baird	<p><i>Non-operative management of solid organ injuries in children: An American Pediatric Surgical Association Outcomes and Evidence Based Practice Committee systematic review.</i> RL Gates, M Price, DB Cameron, S Somme, R Ricca, TA Oyetunji, R Baird, ... Journal of pediatric surgery 54 (8), 1519-1526 2019</p> <p><i>The management of pilonidal disease: A systematic review.</i> J Grabowski, TA Oyetunji, AB Goldin, R Baird, A Gosain, DR Lal, ... Journal of pediatric surgery 54 (11), 2210-2221 2019</p> <p><i>Pediatric burn contractures in low-and lower middle-income countries: A systematic review of causes and factors affecting outcome.</i> F Meng, KJ Zuo, A Amar-Zifkin, R Baird, S Cugno, D Poenaru Burns Aug;46(5):993-1004. 2019</p>
Eric Webber	<p>Acosta-Gualandri A, Kao KT, Wong T, Webber E, Armstrong L, Panagiotopoulos C. <i>Perioperative Hypotensive Crisis in an Adolescent with a Pancreatic VIPoma and MEN1-Gene Variant.</i> Horm Res Paediatr, 2019;91(4):285-289.</p>
Erik Skarsgard	<p>CAPS at 50. Skarsgard ED. Now comfortably seated with the grownups. J Pediatr Surg 2019 May;54(5):875-880.</p> <p><i>Immediate versus staged repair of omphaloceles.</i> Skarsgard ED. Semin Pediatr Surg 2019 Apr;28(2):89-94.</p> <p><i>Establishing a core outcome set for treatment of uncomplicated appendicitis in children: study protocol for an international Delphi survey.</i> Knaapen M, Hall NJ, van der Lee JH, Butcher NJ, Offringa M, Van Heurn EWE, Bakx R, Gorter RR; Paediatric Appendicitis COS development group. BMJ Open 2019 May 22;9(5):e028861.</p> <p><i>Abdominal Tuberculosis in an Infant Presenting with a Small Bowel Obstruction.</i> Matettore A, Rajaprakash M, Bennett M, Skarsgard ED, Goldman RD. Pediatr Emerg Care 2019 Jul 5. doi: 10.1097/PEC.0000000000001872.</p> <p><i>Improving Value and Access to Specialty Medical Care for Families: The Pediatric Surgery Telehealth Program.</i> Dean P, O'Donnell M, Zhou L, Skarsgard ED. Can J Surg. 2019;62(6):436-441.</p> <p><i>Management of narrow stalked giant omphalocele using tissue expansion, staged closure, and amnion preservation technique.</i> Zhang Z, Haddock C, Verchere C, Arneja J, Skarsgard ED. J Pediatr Surg Case Rep 2019;51:101311</p>

PUBLICATION RECORDS

2019-2020

Hannah Piper

Casson C*, Nguyen V, Nayak P, Channabasappa N, Berris K, Panczuk J, Bhiladvala C, Dasgupta T, **Piper HG**. *A comparison of Smoflipid and Intralipid in the early management of infants with intestinal failure*. Journal of Pediatric Surgery. 2020; Jan 55: 153-157.

Piper HG, Coughlin LA, Hussain S, Nguyen V, Channabasappa N, Koh AY. *The impact of Lactobacillus probiotics on the gut microbiota in children with short bowel syndrome*. Journal of Surgical Research. 2020; Mar 25: 112-118.

HIGHLIGHTS & ACHIEVEMENTS 2019-2020

Robert Baird

Program Director - Full accreditation; 2020
CAPS (Canadian Association of Pediatric
Surgery)



COMMITTEE PARTICIPATION

2018-2020

NAME	COMMITTEE
Robert Baird	<p>Trauma Steering Committee, BC Children's Hospital - co-chair</p> <p>Resident Education Committee, Pediatric Surgery, BC Children's Hospital - chair</p> <p>American Pediatric Surgical Association, Outcomes and Evidence Based Practice Committee - vice chair</p> <p>American Pediatric Surgical Association, Quality and Safety Committee - member</p>
Eric M. Webber	<p>Medical Advisory Committee, Children's and Women's Health Centre of BC</p> <p>Vascular Access Committee, Children's and Women's Health Centre of BC</p> <p>Patient Centred Care Experience Steering Committee, Children's and Women's Health Centre of BC</p> <p>Surgical Services Advisory Committee, BC Children's Hospital</p> <p>Royal College of Physicians and Surgeons of Canada, General Surgery Specialty Committee</p> <p>Royal College of Physicians and Surgeons of Canada, Specialty Standards Review Committee</p> <p>Royal College of Physicians and Surgeons of Canada, Surgical Foundations Advisory Committee</p> <p>Royal College of Physicians and Surgeons of Canada, General Surgery Examination Committee</p> <p>Royal College of Physicians and Surgeons of Canada, Pediatric Surgery Specialty Committee</p> <p>College of Family Physicians of Canada: Essential Surgical Skills Working Group</p> <p>Pacific Association of Pediatric Surgeons Board of Directors</p> <p>Pacific Association of Pediatric Surgeons Publications Committee</p>

COMMITTEE PARTICIPATION**2018-2020**

NAME	COMMITTEE
Erik Skarsgard	<p>Surgeon in Chief, BC Children's Hospital (2012-)</p> <p>Chair, Search Committee for Chief of Pediatric Dentistry (2018)</p> <p>Chief of Pediatric Anesthesia (2019)</p> <p>Board member, BC Children's Hospital Foundation (2012-)</p> <p>Member, Medical Advisory Committee, BC Children's Hospital (2006-)</p> <p>Member, Surgical Services Advisory Committee, BC Children's Hospital (2004-)</p> <p>Chair, Institute Advisory Board, Institute of Human Development, Child and Youth Health, Canadian Institutes of Health Research (2016-18)</p> <p>Member, American College of Surgeons Advisory Council on Pediatric Surgery (2012-2018)</p> <p>President, Canadian Association of Pediatric Surgeons (2016-18)</p> <p>Past-President, Canadian Association of Pediatric Surgeons (2016-18)</p> <p>Professional Development Committee, American Association of Pediatric Surgeons (2017-)</p> <p>Delivery of Surgical Care Committee, American Academy of Pediatrics (Surgical Section) (2018-)</p>
Hannah Piper	<p>Neonatal Intensive Care Unit Nutrition Committee, Children's and Women's Health Centre of BC</p> <p>Nutrition Committee, Children's and Women's Health Centre of BC</p> <p>Pharmacy, Therapeutics & Nutrition Committee, Children's and Women's Health Centre of BC</p> <p>Chair, Clinical Competency Committee, Division of Pediatric Surgery, UBC</p>

COMMITTEE PARTICIPATION

2018-2020

NAME

COMMITTEE

Hannah Piper

Education Committee, American Pediatric Surgical Association

Research Committee, Canadian Association of Pediatric Surgeons

Publication Committee, Canadian Association of Pediatric Surgeons

Canadian Consortium for Research in Pediatric Surgery, site co-director for BC Children's Hospital

Abstract Committee, American Society for Parenteral and Enteral Nutrition

Education and Professional Development Committee, American Society for Parenteral and Enteral Nutrition



INITIATIVES IN PROGRESS

2018-2020

ROBERT BAIRD

A Prospective evaluation of non-operative treatments for gastrocutaneous fistulae in children

HANNAH PIPER

Joint NICU initiative looking at the use of analgesia for babies with gastroschisis and standardization of care

Joint initiative with NICU looking at the use of GJ feeding tubes and standardization of care to minimize morbidity (abstract submitted)

Creation of teaching video series for ostomy care

Site lead for North American multi-site quality of life study in children with intestinal failure

Co-PI on research study looking at the microbiota in babies in the setting of enteral deprivation

Co-PI on research study looking at the immune system in the neonatal gut

Research study looking at timing of weaning from PN in babies with intestinal failure with and without colon in continuity (abstract submitted)

Research study looking at the use of probiotics in the NICU for prevention of necrotizing enterocolitis (manuscript submitted)

Research study looking at the use of instructional videos for reducing central-line associated complications in children on home parenteral nutrition (manuscript submitted)

Research study looking at a longitudinal assessment of the intestinal microbiota, nutrition and markers of inflammation in children with intestinal failure.

HIGHLIGHTS & ACHIEVEMENTS 2018-2020

Hannah Piper

- Awards:**
- Abstract with Distinction, ASPEN Nutrition Science and Practice Conference. The Use of Urine Sodium to Creatinine Ratio as a Measure of Sodium Deficiency in Children After Intestinal Resection
 - Abstract with Distinction, ASPEN Nutrition Science and Practice Conference. The Impact of Daily Probiotics Necrotizing Enterocolitis in Very Low Birth Weight Infants
 - Poster with Distinction, Pediatric Intestinal Failure and Rehabilitation Symposium. The Utility of an Instructional Video Series in Reducing Central Venous Catheter Complications in Children with Intestinal Failure
- Leadership Positions:**
- Surgical Director BC Children's Intestinal Rehabilitation Program
 - Co-Chair of Children's Intestinal Rehabilitation Program Network (includes programs from Vancouver, Edmonton, Calgary, Winnipeg and Saskatoon)
- CME:**
- Pediatric Colorectal and Pelvic Reconstruction Course, Nationwide Children's Hospital



OTHER ACHIEVEMENTS

2018-2020

Sonia Butterworth

1. Dr. Patricia Clugston Memorial Award for Excellence in Resident Teaching, Resident Doctors of BC
2. Promoted to Clinical Professor
3. Service to Hospital:
 - a. BC Children's Hospital Children's Intestinal Rehabilitation Program
 - i. BC Children's Hospital NICU Complex Nutrition Committee
4. Service to University:
 - a. Program Director, Surgical Foundations
 - b. Postgraduate Internal Review Subcommittee
 - c. Surgical Foundations Residency Education Committee
 - d. Pediatric General Surgery Residency Education Committee
 - e. Department of Surgery Clinical Appointment and Promotion Committee
 - f. Department of Surgery Executive Committee
 - g. Faculty Residency Committee
 - h. Faculty Residency Executive Committee
 - i. CESEI Steering Committee
 - j. CBME lead, PGME
5. YWCA Nominee, Women of Distinction, Education and Leadership. 2019
6. Service to Hospital:
 - a. BC Children's Hospital Children's Intestinal Rehabilitation Program
 - b. NICU Complex Nutrition team
7. Service to University:
 - a. Assistant Dean, PGME
 - b. Postgraduate Internal Review Subcommittee
 - c. Pediatric General Surgery Residency Education Committee
 - d. Faculty Residency Committee
 - e. Faculty Residency Executive Committee



DIVISION OF PEDIATRIC UROLOGY

2018-2020



FACULTY MEMBERS

2018-2020



Dr. Andrew E MacNeily,
Division Head



Dr. Kourosh
Afshar



Dr. John ST
Masterson

Dr. Soojin Kim

STAFF MEMBERS

2018-2020

- Ms. Heidi Scott, Pediatric Urology Nurse Clinician
- Dr. Maryam Noaparast, Pediatric Urology Research Associate
- Ms. Danielle Baghii, Administrative Assistant
- Ms. Maria Chaperon, Administrative Assistant

HIGHLIGHTS & ACHIEVEMENTS 2018-2020

As the only pediatric urology service in British Columbia, the Division of Pediatric Urology at BC Children's performed more than 1600 surgical procedures and cared for over 10,000 children in our ambulatory clinic during the period of this report. The 2 years realized many successes for our team, which are detailed in this report.

Some notable highlights include the following: We successfully recruited a fourth faculty member in August 2019. Dr Soojin Kim was recruited following a two year Pediatric Urology Fellowship at Lurie Children's Hospital, Northwestern University. She is currently completing a Master's Degree in Health Services Research. Dr. Afshar continues in his position of Associate Chief of Surgery - Quality and Safety, an important administrative position in our organization. He also continues in his role as BCCH Surgeon Champion for National Surgical Quality Improvement Program (NSQIP). Dr. MacNeilly recently completed his six-year tenure as Chair of the Royal College Specialty committee in Urology, and continues on as the 2020-22 Royal College Chair: AFC diploma Committee in Pediatric Urology. He continues as Vice Chair Education and Clinical Affairs for the Department of Urologic Sciences, as well as a member of the executive and President of the Canadian Urological Association.

Awards

Dr. Kourosh Afshar

- Department of Urologic Sciences Undergraduate Teacher of the Year (2018-19)
- BC Children's and Women's Hospital Medical Staff Award for Championship in Safety, Quality of care and Value (June 2018)

TEACHING ACTIVITIES

2018-2020

FELLOWS
SUPERVISED

Phllis Kisa

RESIDENTS
SUPERVISED

Colin Lundeen

Miles Mannis

Connor Forbes

Sam Ghavimi

Lisa Ho

Drew Philips

Matt Ho

Khat Aminoltejari

Dave Hogarth

Samir Bidner

Cyrus Cheroudi

Mark Dawidek

Davide Cina

Anthony Emmott

Drew Phillips

Robin Mawson

STUDENTS
SUPERVISED

*indicates visiting
students from non-UBC
medical schools

2018 April - 2018 Dec

Zerr, Kelly

Dahiya, Anita

Van Ommen, Clara

*Ng, Jonathan

*McLellan, Jeffrey

Liao, Meng Wen (Donna)

Li, Cheng (Kim)

Yen, Paul Pui-Hsin

Xu, Hong

Zhao, Eric

*Bein, Magnus

Chiu, Clare

Norman, Stephanie

Laura

Wong, Julie

*Wang, Betty

Rosenkrantz, Maya

Shankar, Radhika

*Coyette, Brina

*Courage, Emily

*Runalls, Shonah

*Tsang, Brian

*Kim, Jin Kyu (Justin)

*Forster, Adam

*Elliott, Katie

*Kent, Sarah

*Jayalath, Viranda

*Wong, Carmen

*Mawson Katherine

2019 Jan - 2019 Dec

Thejoe, Maichael

Kalkat, Simaran

Wang, Mannan

Mitchell, Devon

Dahiya, MonicaK

ANDIAH, Joshua

SAGORIN, Zach

LU-CLEARY, Destiny

AMIRIE, Muhamed

LUAN, Yi Lei (Eva)

PENTY, Nora

KRAMER, Adam

HUNT, Giselle

FOWLER, Claire

SMYTHIES, Carrie

Wong, Julie

SPOONER, Jesse

Aalok VS_Shah

2019 Jan - 2020 March

PIERIK, August JAVADIAN,

Farnaz CLAYTON, Frances

ADL GOLCHIN, Hajir

DAYAN, Zev

PERRY, Taylor

HAMEL, Emily

PENNER, Carlie

RODIN, Isaac

CHEEMA, Bavenjit

LIM, Stellar

Smith, Haley

YEUNG, Phillip

CHAN, Justin

Black, Anna (2021)

SURESH, Shwetha

AZZOPARDI, Paul

BOHM, Alexandra

VONDERWALDE, Ilan (ilan)

CHAN, Gabriel

MANN, Gurkiran

GAERTNER, Tara

CHAN, Justin

Lauren Adye-White

Taryn Zabolotniuk

Lauren Adye-White

TEACHING ACTIVITIES

2018-2020

NON-CLINICAL STUDENT SUPERVISION

Aishwi Roshan: OPSEI summer student research project, QA review of Dorsal Lumbotomy partial nephrectomies at BCCH

Lindsay Kastelic: UBC Summer Student Research Program (SSRP) supervisor, UBC Flexible Enhanced Learning (FLEX) program supervisor

Amy Antonson: BCCH Summer Student Research Program supervisor, UBC Flexible Enhanced Learning (FLEX) program supervisor

Peter Chae: UBC Summer Work Learn program supervisor, UBC Directed Studies (ISCI 448) supervisor

Anna Tse: research project supervisor

Melody Tsai: research project supervisor

Justin Chan: research project supervisor

TEACHING ACTIVITIES

2018-2020

SUPERVISOR: Kourosh Afshar**UNDERGRADUATE**

STUDENT NAME	DEGREE	START	FINISH	SUPERVISORY ROLE	TOPIC
Alexander Danechi	BSc	July 2019	Sept 2019	Primary Supervisor	Predictors of complications in renal transplant
Fiona Majendie	BSc	May 2018	Sept 2019	Primary Supervisor	Development of online database for Spinal Cord Patients

MD UNDERGRADUATE

STUDENT NAME	DEGREE	START	FINISH	SUPERVISORY ROLE	TOPIC
Jagdeep Gill	MD	July 2019	Dec 2020	Primary Supervisor	Meta-analysis of NSAIDs effects in renal colic
Gina Peck	MD	July 2019	Mar 2020	Primary Supervisor	Effects of Standardized pathway in Urgent management of testicular torsion
Sophie Carr	MD	Nov 2018	Nov 2019	Primary Supervisor	Development of Evidence based neonatal operative guidelines
Andrew Amenyogbe	MD	Dec 2017	Dec 2018	Primary Supervisor	Use of Urodynamics in Prediction of clinical outcomes in children with Lipomenigocele
Mannan Wang	Flex Program	Oct 2017	Jun 2018	Primary Supervisor	Development of evidence based guidelines for management of bladder dysfunction in children
Julie Wong	Flex Program	Apr 2017	Apr 2018	Co-supervisor	Effect of Patient transfer on Surgical Site Infection

MASTERS STUDENT

STUDENT NAME	DEGREE	START	FINISH	SUPERVISORY ROLE	TOPIC
Baharak Tolouei	MS	July 2019	Dec 2020	Primary Supervisor	Masters in Surgery

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

**Dr Andrew
MacNeily**

Visiting Professor: Division of Urology Universite de Montreal, Montreal PQ April 19 2018. Presented 3 lectures, presided over academic half day.

The Prevalance of Neuropsychiatric Conditions in Patients presenting with Bowel and Bladder Dysfunction” Presented to the Pediatric Urologists of Canada Halifax Nova Scotia June 2018.

Grand Rounds: UBC Dept of PM&R: “Fancy operations with fancy complications” Feb 2019.

Victoria Distinguished Lecture Series : “Urology Residency Training in the era of Competency Based Medical Education.” Victoria BC May 2019.

BC Urological Society: “ CUA Presidential Update” Vancouver BC Oct 2019.

Indian Society for Pediatric Urology: Performed two live telecast surgeries, gave one lecture.”Fancy Operations with Fancy Complications” Delhi India Oct 2019.

Roshan A, MacNeily AE: Dorsal Lumbotomy for Pediatric Upper Pole Heminephrectomy: Back (door) to the Future? Northwest Urological Society. Vancouver BC Feb 2020.

Best Presentation – Pediatric Urologists of Canada Halifax Nova Scotia June 2018MacNeily AE, Afshar K, Stewart E: “The Prevalance of Neuropsychiatric Conditions in Pediatric Patients Presenting with Bowel and Bladder Dysfunction” Presented to the Pediatric Urologists of Canada Halifax Nova Scotia June 2018.

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

Dr Soojin Kim

Ridge Meadow Hospital Grand Round (Oct 13, 2020): The Great from the Mediocre: Not to Fail Less, but to Rescue More

BCCHR Summer Student Research Program (SSRP) Faculty Presenter (Jun 17, 2020), Global Health: "Think Globally, Act Locally"

NWUS Presentation (Feb 8, 2020), Global Health: "Think Globally, Act Locally"

OPSEI Grand Round (Dec 3, 2019), The Great from the Mediocre: Not to Fail Less, but to Rescue More

BCUS Presentation (Oct 19, 2019), The Great from the Mediocre: Not to Fail Less, but to Rescue More

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

Dr K Afshar

Visiting Lecturer

- Department of Psychiatry UBC/BC Children's Hospital Rounds: Neuropsychiatric Disorders and Bladder Dysfunction March 2020.
- Department of Pediatric Emergency Medicine, Academic day: Management of acute scrotum. Dec 2019.
- Department of Pediatric Surgery Academic Rounds: Bladder Exstrophy May 2019.
- BC Children's Hospital Surgical Grand Rounds: Perioperative Management of Renal Transplant in Children. April 2018.

Invited Presentations

- Department of Psychiatry BC Children's Hospital Rounds: Neuropsychiatric Disorders and Bladder Dysfunction March 2020.
- Department of Pediatric Surgery Academic Rounds: Bladder Exstrophy May 2019.
- Canadian Urological Association Annual Meeting June 2020, Victoria BC, Invited Speaker

Invited Participation

- Societe Internationale d'Urologie: Development of teaching module for evidence based Urology for SIU School 2020.

Conference Participation (Organizer, Keynote Speaker, etc.)

- Scientific Committee Member Canadian Urological Association 2019-2020 meeting
- Moderator Canadian Urological Association 2019-2020 meeting
- Moderator, American Urological Association (western Section) Annual Meeting, Hawaii 2018

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
CUA Educational Grant	National Implementation of T-Res for Canadian Urology Residents	C	\$50 000	2018-2022	A MacNeily K Rourke	J Purtzki
Spina Bifida Association of Canada	Anxiety and Depression in patients attending BCCH Spinal Cord Clinic	C	\$18 000	2019-2021	A MacNeily K Afshar S Kim	J Purtzki
British Columbia Children's Hospital Research Institute	Impact of surgery in children with congenital anomalies of the kidney and urinary tract	C	\$10 000	2020-2021	S Kim A MacNeily K Afshar J Masterson	D Matsell J Sutherland
Mohseni Foundation	Teaching Grant	NC	\$25 000	2019-2024	K Afshar	
Canadian Urological Association	Use of NIRS in diagnosis of Acute Scrotum	C	\$50 000	2017-2018	K Afhsar	Canadian Urological Association

COMMITTEE PARTICIPATION**2018-2020****Name****Dr Andrew
MacNeily****Committee**

2000-2020. Member, UBC Dept of Urological Sciences Post-graduate Training Committee.

2005-2020. Divisional Representative, BCCH Surgical Services Advisory Committee.

2008-2020. Member, Dept Urological Sciences Promotion and Tenure committee.

2009-2020. Member, Dept of Urological Sciences Executive Council
2011-2020. Vice-Chair, Education and Clinical Affairs
Dept of Urologic Sciences.

2011-2020. Section Editor (Training & Education), Canadian Urol Association Journal.

2018-19 President elect Canadian Urological Association.

2019-2020 President Canadian Urological Association.

Content Provider: Royal College International Urology Examinations 2018-19.

External Reviewer: Promotion and Tenure Committee
McMaster University Dept of Surgery July 2018.

External Reviewer: Promotion and Tenure Committee
Dalhousie University Dept of Urology Aug 2018.

External Reviewer: 5 yr leadership review Division of
Pediatric Urology Hospital for Sick Children Toronto Ontario
Nov 27-28 2018.

Vice Chair Royal College AFC Diploma Committee for
Pediatric Urology 2018-2019.

Chair Royal College AFC Committee for Pediatric Urology
2019-20.

External Reviewer: Promotion and Tenure committee
American University of Beirut Jan 2019.

External Reviewer: Promotion and Tenure committee
University of Wisconsin Dec 2019.

COMMITTEE PARTICIPATION

2018-2020

Name

Dr. Kourosh Afshar

Committee

Department

- Member UBC Department of Urologic Sciences Research Council: 2017-present
- Member UBC Department of Urologic Sciences Post-graduate Selection Committee: 2017-18
- Member UBC Department of Urologic Sciences Post-graduate training Committee Jan 2009-Present

Hospital : British Columbia Children's Hospital

- Director of Research Division of Pediatric Urology, BC Children's Hospital, July 2004-Present

BCCH April 2012-Present

- Associate Chief of Surgery
- Member Surgical Cabinet
- Co-Chair Surgical Suites Safety and Quality Committee
- Member OR data management committee
- Member Child Health Quality of Care Committee
- Member Surgical Advisory Committee
- Member Core Leadership Committee
- Surgeon Champion National Surgical Improvement Program

BCCH BC Children's Hospital Research Institute

- Member Child Health Integrative Partnership Strategy (CHIPS) Committee (2017- present)
- BCCHIR Co lead Clinical Practice, Outcome and Innovation. (2015-Present)

National

- Member Scientific Committee Canadian Urological Association (2019-2020)
- President Canadian Academy of Urological Surgeons (July 2019-Present)

Dr. John Masterson

Chair Resident Competency Committee – Dept of Urological Sciences

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
Dr Andrew MacNeily	<ol style="list-style-type: none"> 1. Touma NJ, Beiko DT, MacNeily AE, Leveridge MJ. Impact of a Training Program on the Performance of Graduating Canadian Residents on a National Urology Exam: Results of the Last 20 Years. <i>Can Urol Assoc J.</i> 2018 Jul 31. 2. MacNeily AE. Reflections on the CUA's many moving parts. <i>Can Urol Assoc J.</i> 2019 Aug; 13(8): 225. 3. MacNeily AE. Career Mentorship within the CUA. <i>Can Urol Assoc J.</i> 2019 Oct;13(10):296-297. 4. MacNeily AE. The CUA: A Microcosm of Canada <i>Can Urol Assoc J.</i> 2019 Dec;13(12):370-371. 5. MacNeily AE. Enhancing Diversity or Upping Uncertainty? <i>Can Urol Assoc J.</i> 2019 Dec;13(12):430. 6. MacNeily AE: The ABCs of AFCs. <i>Can Urol Assoc J.</i> 2020 Feb;14(2):8-9 7. MacNeily AE: What's past is prologue <i>Can Urol Assoc J.</i> 2020 Apr;14(4):81. 8. Roshan A, MacNeily AE: Dorsal Lumbotomy for Pediatric Upper Pole Heminephrectomy: Back (Door) to the Future? <i>J Pediatr Urol</i> 2020 Aug;16(4):480.e1-480.
Dr Soojin Kim	<ol style="list-style-type: none"> 1. Keefe, D., Rickard, M., Anderson, P., Bagli, D., Blais, A., Bolduc, S., Braga, L., Brownrigg, N., Chua, M., Dave, S., Dos Santos, J., Guerra, L., Hayashi, A., Keays, M., Kim, S., Koyle, M., Lee, L., Lorenzo, A., MacLellan, D., MacDonald, L., MacNeily, A., Metcalfe, P., Moore, K., Romao, R., and Wang, P. (2020). Prioritization and management recommendations of pediatric urology conditions during the COVID-19 pandemic. <i>Can Urol Assoc J</i>, 14(6):E237-250. 2. Kim, S., Balmert, L., Raval, M., Johnson, E., Abdullah, F., and Chu, D. (2019). Association of number and type of serious complications with failure to rescue in children undergoing surgery: A NSQIP-Pediatric analysis. <i>J Pediatr Surg</i>, S0022-2468(20)30266-9.

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
Dr. Kourosh Afshar	<ol style="list-style-type: none"> 1. Afshar K, Dos Santos J, Blais AS, Kiddoo D, Dharamsi N, Wang M, Noparast M: Canadian Urological Association guideline for the management of bladder and bowel dysfunction in children. Canadian Urological Association Journal, 15(2). https://doi.org/10.5489/cuaj.6975. design, data analysis and writing the manuscript 2. Robillard JM, Bourne SC, Tam MT, Page PM, Canadian Urological Association Journal, 15(2). https://doi.org/10.5489/cuaj.6975 Lamb EA, Gogal C, Skarsgard E, Afshar K Improving the paediatric surgery patient experience: an 8-year analysis of narrative quality data. BMJ Open Qual. 2020 May;9(2):e000924. doi: 10.1136/bmjopen-2020-000924 Co-design, data analysis and co-writing the manuscript 3. Fazeli MS, Pourrahmat MM, Collet JP, Afshar K. The effects of antimuscarinic agents on the activity of the cardiac autonomic nervous system in children with functional overactive bladder. J Pediatr Urol. 2019 Dec;15(6):642.e1-642.e6. doi: 10.1016/j.jpurol.2019.08.010. Epub 2019 Aug 22. PMID: 31526515 design, data analysis and co-writing the manuscript 4. M.Gorges, K.Afshar, N.West, S Pi, J. Bedford, S.Whyte: Integrating intraoperative physiology data into outcome analysis for the ACS Pediatric National Surgical Quality Improvement Program: Paediatr Anaesth. 2018 Oct 22. doi: 10.1111/pan.13531. [Epub ahead of print] PubMed PMID: 30347497. Co-design, data analysis and co-writing the manuscript 5. Alshehri A, Afshar K, Bedford J, Hintz G, Skarsgard ED. The relationship between preoperative nutritional state and adverse outcome following abdominal and thoracic surgery in children: Results from the NSQIP database. J Pediatr Surg. 2018 May;53(5):1046-105 Co-design, data analysis and co-writing the manuscript 6. Haddock C, Al Maawali AG, Ting J, Bedford J, Afshar K, Skarsgard ED. Impact of Multidisciplinary Standardization of Care for Gastroschisis: Treatment, Outcomes and Cost. J Pediatr Surg. 2018 May;53(5):892-897 Co-design, data analysis and co-writing the manuscript 7. Afshar K, Domes T. Varicocele. Can Urol Assoc J. 2018 Apr; 12(4 Suppl1):S34-S36. doi: 10.5489/cuaj.5231. Review. PubMed PMID: 29681272. Literature review, design and writing the manuscript

INITIATIVES IN PROGRESS

2018-2020

**S Kim, A MacNeily,
K Afshar**

Access to surgical care in high income countries – a scoping review

Association of socioeconomic deprivation with post op complications in a pediatric population: A NSQIP analysis

Impact of surgery in children with congenital anomalies of the kidney and urinary tract: a pilot study in BC

Establishing a longitudinal database for BCCH Spinal Cord Clinic encompassing patient reported outcomes

Quality improvement project: Pediatric Urology Outreach program

Anxiety and Depression in the Spina Bifida Population

Incidence of Neuropsychiatric disorders in patients presenting with bowel and bladder dysfunction

Incidence of bowel and bladder dysfunction in the diabetic population

Incidence of bowel and bladder dysfunction in the OCD population

Assessing the gap in global pediatric urological care

Use of Urodynamics in Prediction of clinical outcomes in children with Lipomenigocele

DIVISION OF PEDIATRIC NEUROSURGERY

2018-2020



FACULTY MEMBERS

2018-2020



Dr. Patrick McDonald,
Division Head



Dr. Mandeep Tamber



Dr. Ash Singhal



Dr. Paul Steinbok

STAFF MEMBERS

2018-2020

- Alexander Cheong - *Research Co-ordinator*
- Helen McGregor - *Administrative Assistant*

TEACHING ACTIVITIES

2018-2020

FELLOWS SUPERVISED

Yahya Khormi
Bassel Bali
Harrison Westwick

RESIDENTS SUPERVISED

Ronette Goodluck
Mostafa Fatehi
Charlotte Dandurand
Oliver Ayling
Michelle Lagace
Maxsim Parfyonov
Paul Webb
Ajmal Zemmer

STUDENTS SUPERVISED

Cristina Schaurich
Adrian Byram
Khashayar Hanjani
Hanna Parmar
Saman Fouladirad
Anahat Sahota
Alexander Cheong
Kheya McGill

OTHER

Surgical Foundations (2-4hr/year)
Neuroethics teaching neurology residents (2-4hr/year)
Med 3-outpatient clinics (5 hr/week)
UBC MEDD 419
UBC MED 431

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

**Dr. Patrick
McDonald**

Parental refusal of life-saving intervention- An alternate framework for management. OPSEI Rounds, March 5, 2019, Vancouver, BC. LOCAL

Medical Assistance in Dying: Is there a role in Children's Hospitals? Annual Meeting of the American Society of Pediatric Neurosurgeons Kauai, Hawaii, USA- February 1, 2019. INTERNATIONAL

Invasive neuromodulation in the pediatric population. Ethics of Invasive and Noninvasive Neuromodulation for Psychiatric Illness Symposium. Buenon Aires, Argentina, November 30, 2018. INTERNATIONAL

Genius or Charlatan? The Ethics of Neurosurgical Innovation and Evaluation Hot Topics in Neurosurgery- CNSF Annual Meeting, Halifax, NS, June 2018. NATIONAL

**Dr. Mandeep
Tamber**

An Overview of Epilepsy Surgery. 6th Annual BC Epilepsy Symposium, Vancouver, BC, October 13, 2018.

Surgical Decision Making in Pediatric Craniosynostosis. Advanced Practice Provider Seminar. 2018 Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Nashville, TN, December 6, 2018.

The Value of Registries in Pediatric Surgical Research. Office of Pediatric Surgical Evaluation and Innovation Rounds, BC Children's Hospital, July 3, 2018.

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

**Dr. Mandeep
Tamber**

Innovation in Surgery. Office of Pediatric Surgical Evaluation and Innovation Summer Student Seminar Series, BC Children's Hospital, July 4, 2018.

Pediatric Epilepsy Surgery. BC Children's Hospital Perioperative Nursing Education Series, BC Children's Hospital, September 19, 2018.

An Overview of Epilepsy Surgery. BC Children's Hospital Fall Surgical Nursing Education Day, Vancouver, BC, November 26, 2018.

Professor's Rounds – Malformations of Cortical Development. UBC Division of Neurosurgery Grand Rounds, Vancouver General Hospital, January 24, 2019.

Building a Career in Academic Pediatric (Neuro)Surgery. BC Children's Hospital Research Institute Summer Student Research Program Seminar Series, BC Children's Hospital, Vancouver, BC, June 6, 2019.

The Treatment of Pediatric Hydrocephalus – Shunts and Endoscopy. BC Children's Hospital Perioperative Nursing Education Series, BC Children's Hospital, June 12, 2019.

Professor's Rounds – An Approach to Pediatric Epilepsy Surgery. UBC Division of Neurosurgery Grand Rounds, Vancouver General Hospital, July 18, 2019.

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

Dr. Ash Singhal

Afifi J, Mitra S, McNeely D, Walling S, Singhal A, Devries, I (2018). Practice Variation in the Diagnosis and Management of Posthemorrhagic Ventricular Dilatation in Very Preterm Infants: A Comparative Study Between Canadian and European Neonatal Centres. Pediatric Academic Societies, Toronto, Canada. Panel presentation – May 2018

Dr. Paul Steinbok

Combined Neurosciences Grand Rounds- VGH – Epilepsy surgery at BCCH (with Dr. Connolly) 21-Mar-2018

Neurosurgery Grand Rounds – Eye Care Centre – Cerebellar mutism 28-Feb-2019

Invited faculty – Annual International Conference of Children's Cancer Hospital – 57357, Cairo :
Current advances in Pediatric neurosurgery. 1) Aplasia cutis of scalp 2) Carniosynostosis diagnosis and management. 3) Cerebellar astrocytoma 4) Craniopharyngioma long term outcomes February 21-23, 2018

Invited faculty – Federal Center of Neurosurgery, Tyumen, Siberia, Russia. International Education course: Important issues of pediatric neurosurgery. 1) Indications and techniques of rhizotomy for spastic CP 2) Intrathecal baclofen 3) Spectrum of spinal dysraphism April 5-6, 2018

Invited plenary lecturer – Meeting of Eastern Europe and Mediterranean Cerebral Palsy and Developmental Medicine. Tel Aviv, Israel: Patient selection for intrathecal baclofen and selective dorsal rhizotomy May 22-24 2018

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

**Dr. Paul
Steinbok**

Invited faculty – 2018 Annual Postgraduate Course of the European Society for Pediatric Neurosurgery (ESPN), Montegrotto Terme – Italy. 1) VP shunt implantation 2) Long term results of ETV 3) Cysts and surgical techniques 4) Posterior fossa tumors management options 5) Posterior fossa tumor approaches 6) Video session on posterior fossa tumor and head trauma June 11-16, 2018

Invited speaker - Neurosurgical treatment of spasticity: SDR and baclofen pumps ISPN pre congress course – Tel Aviv, Israel. October 7, 2018

Invited faculty – Comprehensive Clinical Neurosurgery Review . Krakow, Poland 1) Brain tumors in children 2) Chiari malformation 3) Spinal dysraphism 4) Craniosynostosis 5) Oral exams –sessions on 4 different topics – posterior fossa tumors, epilepsy surgery, spina cord tumors and skull lesions December 6, 2018

Invited faculty - ISPN course, Bandung, Indonesia, M: 1) Mild Head injury 2) Child abuse 3) Medulloblastoma 4) Limited dorsal myeloschisis 5) Split cord malformation 6) VP shunt insertion 6) Pineal tumours 7) Myelomeningocele closure 8) Chiari I malformation 9) Case presentations – suprasellar tumour, head injury, posterior fossa astrocytoma, ETV January 16-18, 2019

Invited visiting neurosurgeon to National Brain Center or Pusat Otak Nasional (PON), Jakarta, Indonesia. Performed surgeries for pineal tumor and posterior fossa tumor. Talk on Development of Pediatric Neurosurgery at PON. January 19-23, 2019

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

Name

Lectures/Presentations

**Dr. Paul
Steinbok**

Invited faculty – 2019 Annual Postgraduate Course of the European Society for Pediatric Neurosurgery (ESPN), Harrogate, UK. 1) Neuroblastoma 2) Long term management of MMC 3) Video sessions – midline brain tumors, spine and spinal cord tumors, spinal malformations May 20-24, 2019

Invited guest speaker – The 3rd Arab Pediatric and 8th Magrebian Neurosurgery Joint Conference, Tangier, Morocco . 1) Mild head injury in children 2) Patient selection for SDR and ITB 3) Spectrum of spinal dysraphism June 19-22, 2019

Sadashiva N, Mortenson P, Tamber M, Steinbok P: Upper Extremity Performance Changes in Children with Spastic Cerebral Palsy following Lumbo-sacral Selective Dorsal Rhizotomy. Annual ISPN meeting, Birmingham, UK, Oct 22, 2019

Khormi Y, Chiu M , Goodluck Tyndall R , Mortenson P, Smith D , Steinbok P: Safety and efficacy of independent allied healthcare professionals in the assessment and management of plagiocephaly patients. Annual ISPN meeting, Birmingham, UK, Oct 22, 2019

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
National Institutes of Health (US)	Informing choice for neurotechnological innovation in pediatric epilepsy surgery	C	\$250,000	2018-2021	Patrick McDonald Judy Illes	Mary Connolly
Sunnybrook Hospital Foundation	Pan-Canadian Neurotechnology Ethics Collaborative	NC	\$75,000	2018-2020	Patrick McDonald Judy Illes Nir Lipsman	
MASES Engagement Fund (PHSA)	Development of a peer and family support network in pediatric neurosurgery	C	\$5000	2018-2019	Patrick McDonald Ashutosh Singhal	
Technical Safety BC	Ensuring safety at the cutting edge of neurotechnology	NC	\$42,000	2018-2020	Patrick McDonald Judy Illes	
National Institutes of Health (US)	Targetting the CSF microbiota to optimize CSF shunt infection treatment	C	\$540,000	2016-2020	Tamara Simon (University of Washington)	Patrick McDonald

SCHOLARLY & PROFESSIONAL ACTIVITIES

2018-2020

GRANTING AGENCY	TITLE	COMP	\$/YEAR	YEAR	PI	CO-PI
Patient-Centered Outcomes Research Institute	A randomized controlled trial of anterior versus posterior entry site for cerebrospinal fluid shunt insertion	C	\$848,000	2015-2018	William Whitehead (Baylor University)	Patrick McDonald
BC Children's Hospital Research Institute (BCCHRI)	PG#20R02576: Assessing the Quality of Meta-Analyses and Systematic Reviews in the Pediatric Neurosurgical Literature	C	\$5045 CAD	2019-2020	Mandeep Tamber	
National Institutes of Health (NIH) / National Institute of Neurological Disorders and Stroke (NINDS)	NIH U01NS107486-01A1: Endoscopic versus Shunt Treatment of Hydrocephalus in Infants (ESTHI)	C	\$1.35M USD	2019-2026	J Kestle (University of Utah) A Kulkarni (University of Toronto) D Limbrick (Washington University at St. Louis)	Mandeep Tamber Patrick McDonald

COMMITTEE PARTICIPATION

2018-2020

Name	Committee
Dr. Patrick McDonald	<p>Board of Examiners for Neurosurgery- Kuwaiti Institute of Medical Specialties- 2017-present</p> <p>Ethics Committee- Royal College of Physicians and Surgeons of Canada</p> <p>Neurosurgery Written Examination Committee- Royal College of Physicians and Surgeons of Canada- 2015-present</p> <p>Neurosurgery Specialty Committee- Royal College of Physicians and Surgeons of Canada- 2005- present</p> <p>Surgical Services Advisory Committee- BC Children's Hospital- 2016- present</p> <p>Surgical Cabinet- BC Children's Hospital- 2016- present</p>
Dr. Ash Singhal	<p>Chief Examiner- Surgical Foundations Exam, Royal College of Physicians and Surgeons of Canada</p> <p>Communications Co-Chair- International Society for Pediatric Neurosurgery</p>
Dr. Mandeep Tamber	<p>Mortality Review Committee, BC Children's Hospital, 2018-2019.</p> <p>Pediatric Spina Bifida Evidence Review Taskforce of the AANS/CNS Joint Guidelines Committee (JGC) 2015-2018</p>

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
Dr. Patrick McDonald	<ul style="list-style-type: none"> • Mutch WA, Ellis MJ, Ryner LN, McDonald PJ, Morissette MP, Pries P, Essig M, Mikulis DJ, Duffin J, Arnold Fisher J: Patient-specific alterations in CO2 cerebrovascular responsiveness in sub-acute sports-related concussion. <i>Front Neurol</i> 9:23, Jan 24, 2018 doi: 10.3389/fneur.2018.00023 • Makarenko S, Singh N, McDonald PJ: Nonsurgical transient cerebellar mutism- Case report and systematic review. <i>Childs Nerv Syst</i> 34(3):535-540, 2018. • Ellis MJ, Barnes J, Cordingly DM, Bunge M, McDonald PJ, Ritchie L: Management of an athlete with sports-related concussion and intraparenchymal hemorrhage. <i>Curr Sports Med Rep</i> 17(1):7-9, 2018. • Singh N, McDonald PJ: Transitioning in hydrocephalus: Current practices in Canadian Pediatric Neurosurgery centres. <i>Paediatr Child Health</i> 23(7):e150-e155, 2018. • de Lotbiniere-Basset M, McDonald PJ: Industry Financial Relationships in Neurosurgery in 2015: Analysis of the Sunshine Act Open Payments Database <i>World Neurosurgery</i> 114:e920-e925, 2018 • de Lotbiniere-Basset M, Riva-Cambrin J, McDonald PJ: Conflict of Interest Policies and disclosure requirements in Neurosurgical Journals <i>J Neurosurg</i> 2018 Aug 17:1-7 (epub ahead of print) • Ellis MJ, McDonald PJ, Olsen A, Koenig J, Russell K: Cervical spine dysfunction following pediatric sports-related head trauma. <i>J Head Trauma Rehabil</i> 34(2):103-110, 2019. • Illes JA, Antle A, Lou H, Longstaff H, Rahimzadeh V, McDonald PJ, Van der Loos HFM: Involving children with neurodevelopmental disorders in biomedical research. <i>Lancet Child Adolesc Health</i> 3(3):143-144, 2019. • Radic JA, Illes J, McDonald PJ: Fetal repair of open neural tube defects: Ethical, legal and social issues. <i>Camb Q Healthc Ethics</i> 28(3):476-487, 2019. • Phillips D, Stevens D, Kulkarni AV, McDonald PJ, Riva-Cambrin J, Mehta V: Interhypothalamic adhesions in endoscopic third ventriculostomy. <i>Childs Nerv Syst</i> 35(9):1565-1570, 2019.

PUBLICATION RECORDS

2018-2020

Name**Publication Citation**

Dr. Patrick McDonald and Dr. Mandeep Tamber

- Greenberg JK, Jeffe D, Carpenter CR, Yan Y, Paneda JA, Lumba-Brown A, Keller MS, Berger D, Bollo RJ, Ravindra V, Naftel RP, Dewan M, Shah MN, Burns EC, O'Neill BR, Hankinson TC, Whitehead WE, Adelson PD, Tamber MS, McDonald PJ, Ahn ES, Titsworth W, West AN, Brownson RC, Limbrick DD: North American survey on the post-neuroimaging management of children with mild head injuries. *J Neurosurg Pediatr* 23(2):227-235, 2018.
- Pindrik J, Riva-Cambrin J, Kulkarni AV, Alvey J, Reeder R, Pollack IF, Jackson E, Rozzelle C, Whitehead W, Limbrick D, Wellons III J, Naftel R, Shannon C, McDonald P, Tamber MS, Hankinson TC, Hauptman J, Simon T, Krieger M, Holubkov R, Kestle J for the Hydrocephalus Clinical Research Network. Surgical Resource Utilization after Initial Treatment of Infant Hydrocephalus: Comparing Endoscopic Third Ventriculostomy (ETV), Early Experience of ETV with Choroid Plexus Cauterization, and Shunt Insertion in the Hydrocephalus Clinical Research Network. *Journal of Neurosurgery: Pediatrics*, 2019
- Hauptman JS, Kestle J, Riva-Cambrin J, Kulkarni A, Browd S, Rozzelle C, Whitehead W, Naftel R, Pindrik J, Limbrick D, Drake J, Wellons J, Tamber MS, Shannon C, Simon T, Pollack I, McDonald P, Krieger M, Hankinson TC, Jackson E, Alvey J, Reeder R, Holubkov R, Langley M for the Hydrocephalus Clinical Research Network. Predictors of Fast and Ultrafast Shunt Failure in Pediatric Hydrocephalus: A Hydrocephalus Clinical Research Network (HCRN) study. *Journal of Neurosurgery: Pediatrics*, 2019

Dr. Mandeep Tamber

- Utz M, Tamber MS, Mason GE, Pollack IF, Panigrahy A, Zuccoli G. Contrast-Enhanced 3-Dimensional Fluid Attenuated Inversion Recovery Sequences Have Greater Sensitivity for Detection of Leptomeningeal Metastases in Pediatric Brain Tumors Compared to Conventional Spoiled Gradient Echo Sequences. *J. Pediatr. Hematol. Oncol.*, 40:316-319, 2018.

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
Dr. Mandeep Tamber	<ul style="list-style-type: none"> • Kulkarni AV, Riva-Cambrin J, Rozzelle CJ, Naftel RP, Alvey JS, Reeder RW, Holubkov R, Browd SR, Cochrane DD, Limbrick DD Jr, Simon TD, Tamber MS, Wellons JC 3rd, Whitehead WE, Kestle JRW. Endoscopic Third Ventriculostomy and Choroid Plexus Cauterization in Infant Hydrocephalus: A Prospective Study by the Hydrocephalus Clinical Research Network. <i>Journal of Neurosurgery: Pediatrics</i>, 21:214-223, 2018. • Haredy M, Zuccoli G, Tamber MS, Davis A, Nischal K, Goldstein JA. Use of Neuroimaging Measurements of Optic Nerve Sheath Diameter to Assess Intracranial Pressure in Craniosynostosis. <i>Childs Nerv. Syst.</i>, 34:939-946, 2018. • Simon T, Kronman M, Whitlock K, Gove N, Hamblett N, Browd S, Cochrane D, Holubkov R, Kulkarni A, Langley M, Limbrick D, Luerssen T, Oakes J, Riva-Cambrin J, Rozzelle C, Shannon C, Tamber MS, Wellons J, Whitehead W, Kestle J. Reinfection after treatment of first cerebrospinal fluid (CSF) shunt infection: a prospective observational cohort study. <i>Journal of Neurosurgery: Pediatrics</i>, 21:346-358, 2018. • Simon TD, Kronman MP, Whitlock KB, Browd SR, Holubkov R, Kestle JRW, Kulkarni AV, Langley M, Limbrick DD, Luerssen TG, Oakes J, Riva-Cambrin J, Rozzelle C, Shannon CN, Tamber MS, Wellons JC, Whitehead WE, Mayer-Hamblett N. Patient and Treatment Characteristics by Infecting Organism in Cerebrospinal Fluid (CSF) Shunt Infection. <i>J. Pediatric Infect. Dis. Soc.</i>, 2018. • Kestle JRW, Lee A, Anderson RCE, Gociman B, Patel KB, Smyth MD, Birgfield C, Pollack IF, Goldstein J, Tamber MS, Imahiyerobo T, Siddiqi F for the Synostosis Research Group. Variation in the Management of Isolated Craniosynostosis: A survey of the Synostosis Research Group (SynRG). <i>Journal of Neurosurgery: Pediatrics</i>, 22:627-631, 2018. • Honey CM, Malhotra AK, Tamber MS, Prud'homme M, Mendez I, Honey CR. Canadian Assessment of Deep Brain Stimulation Access: the CANADA Study. <i>Can J Neurol Sci</i>, 45:553-558, 2018.

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
Dr. Mandeep Tamber	<ul style="list-style-type: none"> • Mazzola CA, Tyagi R, Assassi N, Baird LC, Bauer DF, Beier AD, Blount J, Bodach M, Durham SR, Flannery AM, Klimo Jr P, McClung-Smith C, Nikas DC, Rehring P, Tamber MS. Congress of Neurological Surgeons Systematic Review and Evidence Based Guideline on the Incidence of Tethered Cord Syndrome in Infants with Myelomeningocele with Prenatal Versus Postnatal Repair. <i>Neurosurgery</i>, 85(3):E417-E419, 2019. • Blount J, Durham SR, Klimo Jr P, Assassi N, Baird LC, Bauer DF, Beier AD, Bodach M, Flannery AM, McClung-Smith C, Nikas DC, Rehring P, Tamber MS, Tyagi R, Mazzola CA. Congress of Neurological Surgeons Systematic Review and Evidence Based Guideline on the Management of Patients With Myelomeningocele: Whether Persistent Ventriculomegaly Adversely Impacts Neurocognitive Development. <i>Neurosurgery</i>, 85(3):E414-E416, 2019 • Beier AD, Nikas DC, Assassi N, Baird LC, Bauer DF, Blount J, Bodach M, Durham SR, Flannery AM, Klimo Jr P, McClung-Smith C, Rehring P, Tamber MS, Tyagi R, Mazzola CA. Congress of Neurological Surgeons Systematic Review and Evidence Based Guideline on Closure of Myelomeningocele within 48 Hours to Decrease Infection Risk. <i>Neurosurgery</i>, 85(3):E412-E413, 2019 • Bauer DF, Baird LC, Assassi N, Beier AS, Blount J, Bodach M, Durham SR, Flannery AM, Klimo Jr P, McClung-Smith, C, Nikas DC, Rehring P, Tamber MS, Tyagi R, Mazzola CA. Congress of Neurological Surgeons Systematic Review and Evidence Based Guideline on the Management of Patients with Myelomeningocele: Whether Prenatal or Postnatal Closure Affects Future Ambulatory Status. <i>Neurosurgery</i>, 85(3):E409-E411, 2019 • Tamber MS, Flannery AM, McClung-Smith C, Assassi N, Baird LC, Bauer DF, Beier AD, Blount J, Bodach M, Durham SR, Klimo Jr P, Nikas DC, Rehring P, Tyagi R, Mazzola CA. Congress of Neurological Surgeons Systematic Review and Evidence Based Guideline on the Incidence of Shunt-Dependent Hydrocephalus in Infants with Myelomeningocele After Prenatal Versus Postnatal Repair. <i>Neurosurgery</i>, 85(3):E405-E408, 2019. •

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
Dr. Mandeep Tamber	<ul style="list-style-type: none"> • Mazzola CA, Assassi N, Baird LC, Bauer DF, Beier AD, Blount JP, Durham SR, Flannery AM, Klimo P, McClung-Smith C, Nikas DC, Rehring P, Tamber MS, Tyagi R. Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for Pediatric Myelomeningocele: Executive Summary. <i>Neurosurgery</i>, 85(3):299-301, 2019 • Davis AA, Zuccoli G, Haredy M, Runkel L, Losee J, Tamber MS, Pollack IF, Tyler-Kabara E, Goldstein J, Nischal KK. The Incidence of Chiari Malformations in Patients with Isolated Sagittal Synostosis. <i>Plastic and Reconstructive Surgery Global Open</i>, 2019. • Davis AA, Zuccoli G, Losee J, Haredy M, Tamber MS, Pollack IF, Goldstein J, Nischal KK. Syndromic and Systemic Diagnoses Associated with Isolated Sagittal Synostosis: A Retrospective Analysis. <i>Plastic and Reconstructive Surgery Global Open</i>, 2019 • Riva-Cambrin J, Kestle JRW, Rozzelle CJ, Naftel RP, Alvey J, Reeder RW, Holubkov R, Browd SR, Cochrane DD, Limbrick DD, Shannon CS, Simon TD, Tamber MS, Wellons J, Whitehead WE, Kulkarni AV for the Hydrocephalus Clinical Research Network. Predictors of Endoscopic Third Ventriculostomy + Choroid Plexus Coagulation Success in a North American Setting: A Hydrocephalus Clinical Research Network (HCRN) Study. <i>Journal of Neurosurgery: Pediatrics</i>, 2018 • Strahle JM, Taiwo R, Averill C, Torner J, Shannon CS, Bonfield CM, Tuite GF, Brockmeyer DL, Wellons J, Leonard JR, Mangano F, Johnston JM, Shah MN, Iskandar BJ, Tyler-Kabara EC, Daniels DJ, Jackson EM, Grant GA, Couture DE, Adelson PD, Alden T, Aldana PR, Anderson RCE, Selden NR, Baird LC, Bierbrauer K, Chern JJ, Whitehead WE, Dauser RC, Ellenbogen RG, Fuchs HE, Guillaume DJ, Hankinson TC, Iantosca M, Oakes J, Keating RF, Khan NR, Muhlbauer MS, McComb JG, Menezes AH, Ragheb J, Smith JL, Maher CO, Greene S, Narayan P, Kelly M, O'Neill BR, Krieger M, Tamber MS, Durham SR, Olavarria G, Stone S, Kaufman BA, Heuer G, Bauer DF, Albert G, Greenfield JP, Wait SD, van Poppel M, Eskandari R, Mapstone T, Shimony JS, Smyth MD, Dacey Jr RG, Park TS, Limbrick DD. Radiological and Clinical Predictors of Scoliosis in Patients with Chiari Malformation Type I and Spinal Cord Syrinx from the Park Reeves Syringomyelia Research Consortium. <i>Journal of Neurosurgery: Pediatrics</i>, 2019

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
Dr. Mandeep Tamber	<ul style="list-style-type: none"> • Madsen JR, Hameed MQ, Boyle TP, Neuman MI, Park E-H, Tamber MS, Hickey RW, Heuer GG, Zorc J, Leonard JR, Leonard JC, Keating R, Chamberlain J, Frim DM, Zakrzewski P, Klinge P, Merck LH, Piatt JH, Bennett JE, Sandberg DI, Boop FA. Non-invasive Thermal Flow Evaluation of Ventriculoperitoneal Shunt Flow Improves Diagnostic Accuracy of Shunt Malfunction: A Prospective, Multi-Site Operator-Blinded Study. <i>Neurosurgery</i> 2018 • Simon TD, Kronman M, Whitlock K, Browd S, Holubkov R, Kestle J, Kulkarni A, Langley M, Limbrick D, Luerrson T, Oakes J, Riva-Cambrin J, Rozzelle C, Tamber MS, Shannon C, Wellons J, Whitehead W, Hamblett N. Reinfection Rates Following Adherence to Infectious Diseases Society of America (IDSA) Guideline Recommendations in First Cerebrospinal Fluid (CSF) Shunt Infection Treatment. <i>Journal of Neurosurgery: Pediatrics</i>, 2018 • Strahle JM, Taiwo R, Averill C, Torner J, Shannon CN, Wellons JC, Bonfield C, Tuite GF, Bether-Anderson T, Rutlin J, Brockmeyer DL, Leonard JR, Mangano FT, Bierbrauer K, Johnston JM, Oakes J, Shah MN, Iskandar BJ, Ahmed R, Greene S, Daniels DJ, Jackson EM, Grant GA, Couture DE, Adelson PD, Alden TD, Aldana PR, Anderson RCE, Selden NR, Baird LC, Chern JJ, Whitehead WE, Dauser RC, Ellenbogen RC, Fuchs HE, Guillaume DJ, O'Neill B, Hankinson TC, Iantosca MR, Keating RF, Khan NR, Muhlbauer M, McComb JG, Krieger M, Menezes AH, Durham JR, Olavarria G, Stone S, Heuer G, Bauer DF, Albert G, Greenfield JP, Wait SD, van Poppel M, Eskandari R, Mapstone T, George TM, Tamber MS, McKinstry RC, Shimony JS, Dacey Jr RC, Smyth MD, Park TS, Limbrick DD. Radiologic and Clinical Associations with Scoliosis Outcomes After Posterior Fossa Decompression in Patients With Chiari and Syringomyelia from the Park-Reeves Syringomyelia Research Consortium. <i>Journal of Neurosurgery: Pediatrics</i>, 2018 • Pfeiffauf KD, Naidoo SD, Skolnick GB, Kestle JRW, Lee A, Birgfeld G, Anderson RCE, Gociman B, Siddiqi FA, Pollack IF, Goldstein JA, Tamber MS, Imahiyerobo T, Smyth MD, Patel KB for the Synostosis Research Group. Evaluation of the Patient-Practitioner Consultation on Surgical Treatment Options for Patients with Craniosynostosis. <i>Journal of Craniofacial Surgery</i>, 2019

PUBLICATION RECORDS

2018-2020

Name	Publication Citation
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INITIATIVES IN PROGRESS

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Dr. Mandeep Tamber and Dr. Patrick McDonald

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