



ANNUAL ACHIEVEMENTS REPORT 2020-2022

Office of Pediatric Surgical Evaluation and Innovation



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Welcome Message

Dear Colleagues:

We are very pleased to share with you the OPSEI Annual Achievements Report for the time period 2020 to 2022. In this report, you will see the achievements of our surgical team featured by division and department in Pediatric Surgery, which celebrate contributions to teaching, research, leadership, and patient advocacy.

We recognize that the accomplishments in this report occurred during the COVID-19 global pandemic, and we would like to especially thank our faculty and staff for their continued commitment to excellence in academic surgery, and appreciating that these achievements were particularly hard won during this challenging time. Please accept our heartfelt gratitude.

While our academic work is highly subspecialized across the department, our pediatric surgical team shares a common goal in advancing the care of patients and families through research and new knowledge. In reading this report, we hope that you will be inspired by our academic teamwork and hope that you join us in collaboration and partnership in the coming year.

We would like to warmly honour our students, residents, and clinical fellows who are the heart of our work as a teaching hospital. Our science coop students demonstrated great creativity and ingenuity through the pandemic and pivoted effortlessly to different modes of learning. These students conducted research which was crucially relevant on initiatives such as evaluating the social determinants of health of families, community food security and innovative food rescue programs, hand hygiene health promotion, and contributing to establishing efficient pathways for processing some 20,000 surgical instruments needed to support timely patient care.

We would also like to give special recognition to our team of surgical clinical fellows within the Department of Pediatric Surgery. Many of our clinical fellows have travelled from countries across the globe to receive advanced subspecialty training in Pediatric Surgery. We would like to express our gratitude to our fellows who bring to our hospital fresh ideas, new perspectives and boundless enthusiasm in patient care, clinical research and teaching in our department. When our fellows graduate, we do not view this as the closing of a chapter – it's the beginning of a membership in a lifelong global community of pediatric surgical alumni connected through our teaching hospital.

The developments in this report would not be possible without our longstanding collaboration with BC Children's Hospital Foundation, who work tirelessly to fundraise to support our mission. We hope that this report will be helpful in communicating our sincerest thanks and appreciation to our generous donors for their continued support.

The future is very bright for Pediatric Surgery at BC Children's Hospital with the recruitment of many talented faculty, staff, and trainees who will help us journey forward in our commitment to advancing high-quality surgical care to children and families.

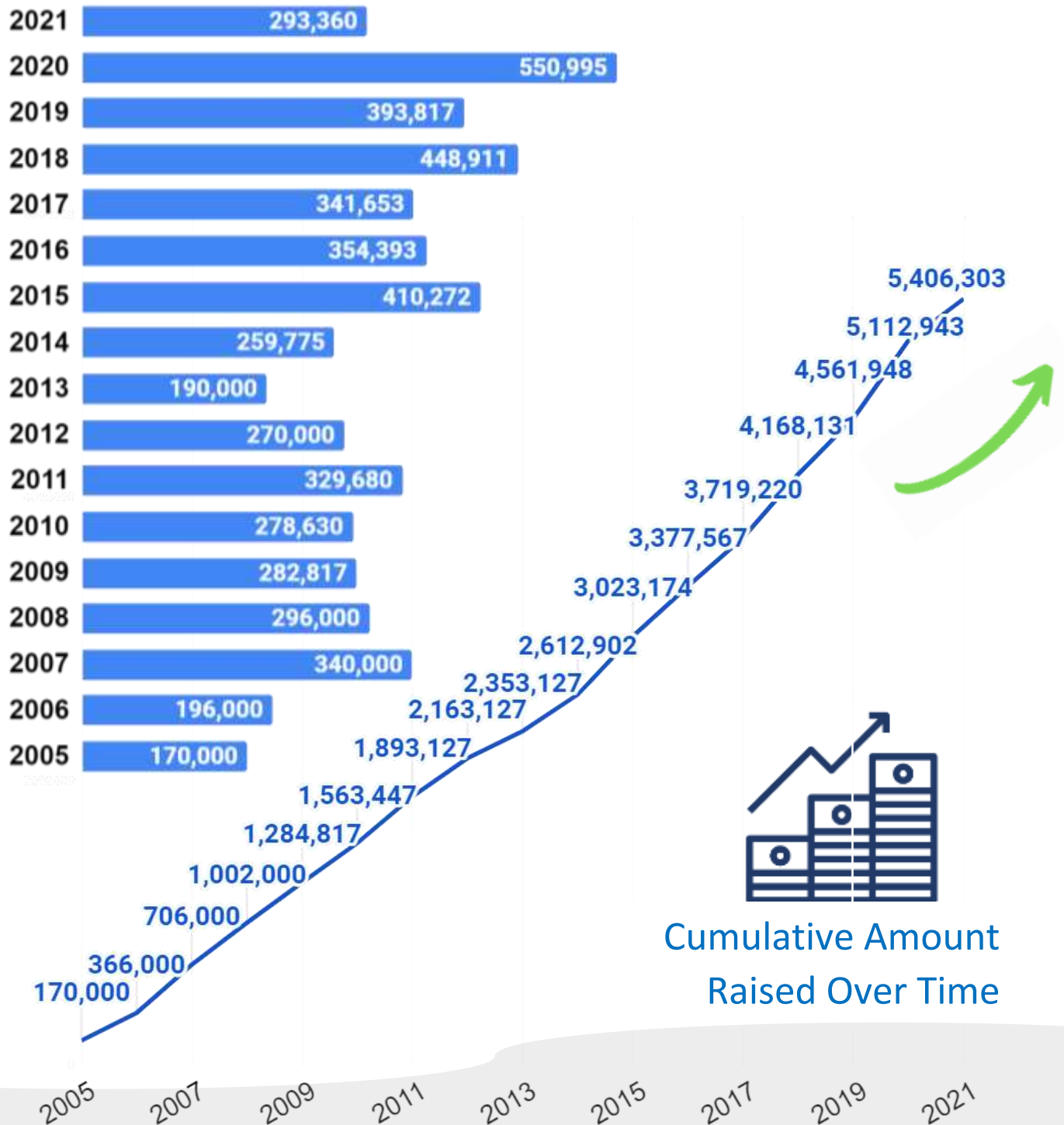
Yours sincerely,

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

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

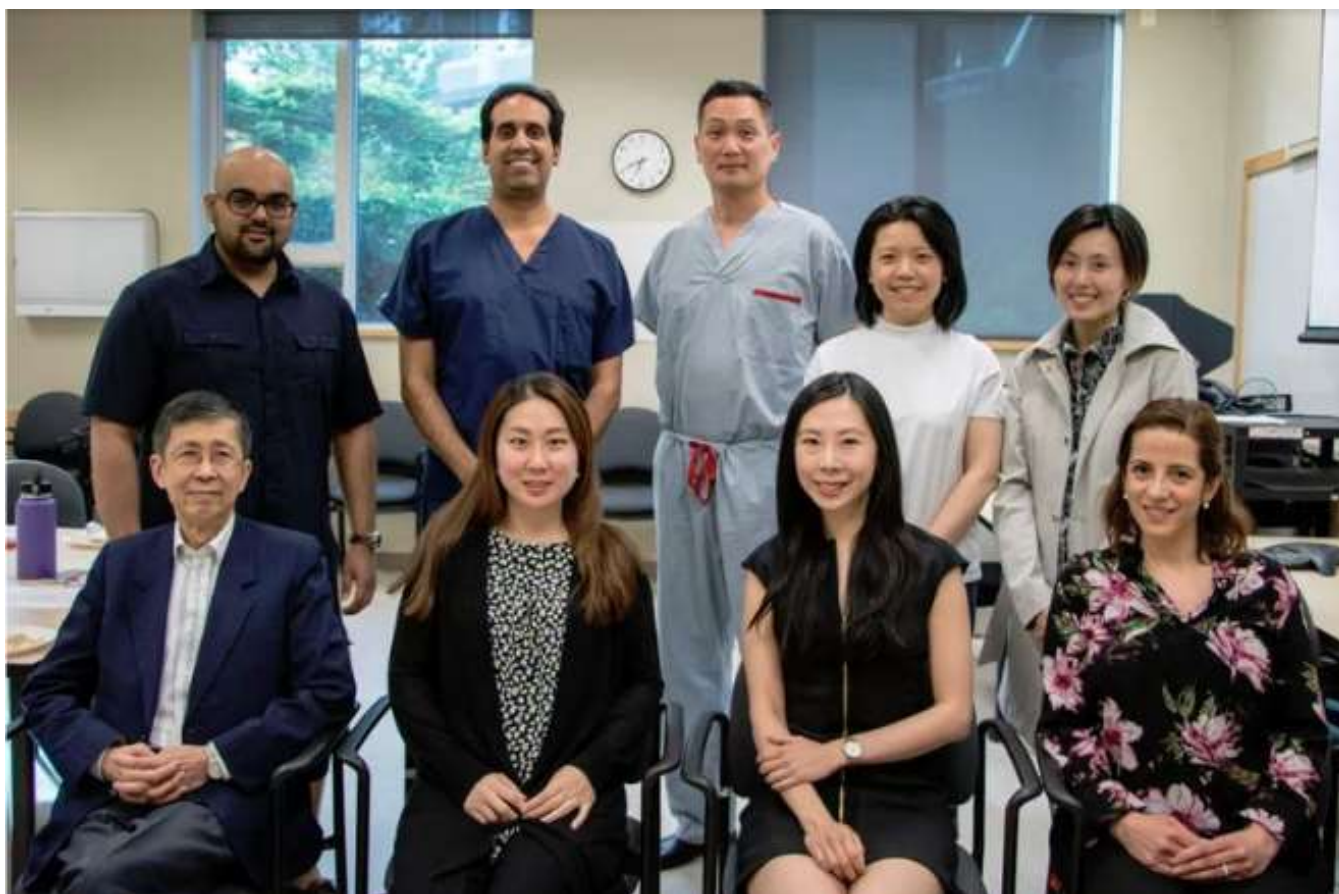
BREAKDOWN OF DONATIONS

Amount Raised Per Year



DIVISION OF PEDIATRIC DENTISTRY

2020-2022



FACULTY: PEDIATRIC DENTISTS



Dr. Jennifer Park
Department Head
Clinical Assistant Professor, UBC



Dr. Washum Cheung
Clinical Professor, UBC



Dr. Joy Richman
Clinical Professor, UBC



Dr. Pheobe Tsang
Clinical Assistant Professor, UBC



Dr. Serena Kassam
Clinical Assistant Professor, UBC



Dr. Shan Sun
Clinical Assistant Professor, UBC



Dr. Fran Rhee
Clinical Assistant Professor, UBC



Dr. Winnie Zhao
Clinical Assistant Professor, UBC



Dr. Randa Soussou
Clinical Assistant Professor, UBC



Dr. Kunal Chander
Clinical Assistant Professor, UBC



Dr. Amy Bellamy
Clinical Assistant Professor, UBC



Dr. Amanda Suh
Clinical Assistant Professor, UBC

FACULTY: ORAL MAXILLOFACIAL SURGEONS



Dr. Raymond Grewal



Dr. Ben Kang



Dr. Jason Choi



Dr. Graham Grabowski

Dr. Chris Olynik

Faculty: 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

Certified Dental Assistants

Pat Coons (team lead)

Cindy Singh

Benny Orilido-Acosta

Alice Mak

Christy Lam

Nilda Jose

Rechilda Cochrane

Clerical

Gina Erwin

Aline Carreiro

Leah Wilson

Ancuta Barbu

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, Ava Vali Sichani (DSATP)

Highlights and Achievements

Dr. Washam Cheung **UBC Graduate Program
Teaching Award**

Dr. Serena Kassam **Woman of
Distinction
Award – Health
and Wellness**

Teaching Activities

Fellows Supervised

Name	Country of Origin	Dates Supervised
Pauline Lee	Singapore	April 2020 to Aug 2020
Carol Lui	Canada	April 2020 to Aug 2020
Jassica Sarai	Canada	April 2020 to Aug 2020
Zachary Wong	Canada	April 2020 to Aug 2020
Erika Ridgway	Canada	April 2020 to Mar 2021
Zahra Samji	Canada	April 2020 to Mar 2021
Jessica Tam	Canada	April 2020 to Mar 2021
Mandeep Gill	Canada	June 2020 to Mar 2021
Michelle Li	Canada	June 2020 to Mar 2021
Jaspal Rajput	India	June 2020 to Mar 2021
Erika Ridgway	Canada	Apr 2021 to Aug 2021
Jessica Tam	Canada	Apr 2021 to Aug 2021
Zahra Samji	Canada	Apr 2021 to Aug 2021
Jaspal Rajput	Canada	Apr 2021 to Jun 2021
Mandeep Gill	Canada	Apr 2021 to Mar 2022
Michelle Li	Canada	Apr 2021 to Mar 2022
Neeraja Ramadurai	Canada	Jun 2021 to Mar 2022
Ava Vali Sichani	Canada	Jun 2021 to Mar 2022

Residents Supervised

Name	Year	Dates Supervised
Grace Bellerose	GPR	Feb/March 2021
Dyar Bikey	GPR	March/April 2021
Nick Thomas	GPR	April/May 2021
Gregory Allan	GPR	Feb-Apr2022
Ryan Booth	GPR	Apr/May 2022
Taylor Ruether	GPR	May/June 2022

Scholarly & Professional Activities

Presentations/Lectures

Dr. Jennifer Park	"Dental and Oral Issues in GI Disease" "Emergencies in Pediatric Dentistry"
Dr. Washum Cheung	"Oral Pathology" "A referral from the ER"
Dr. Phoebe Tsang	UBC Dental CE University of Fraser Valley – CDA program Kamloops & District Dental Society – CE
Dr. Serena Kassam	Global Smile Foundation ACPA Pediatric Dentistry Discipline Forum CSDH webinar Plastic Surgery Research Council Annual Meeting
Dr. Jennifer Park & Dr. Serena Kassam	"Management of Tongue Ties" "Oral anomalies in Infants"

Committee Participation

Dr. Phoebe Tsang	Save A Smile Charity Committee CDA Program Advisory Committee (University of the Fraser Valley)
Dr. Jennifer Park	Severe Oligodontia Funding Initiative (SOFI) Committee Community Dental Partners Program (CDPP) Committee
Dr. Serena Kassam	World Cleft Coalition Canadian Society for Disability and Oral Health (CSDH) Global Smile Foundation

Publication Records

Dr. Serena Kassam	<p><i>Interdisciplinary Cleft Care: Global Perspectives</i> (Plural publishing, Editors: Hamdan, Rogers-Vizena, Vyas, Sommerlad, and Low. In review)</p> <p>Chapters:</p> <ul style="list-style-type: none"> Barry H. Grayson, DDS, Mohammad M. Ahmed, DDS, MS, Serena N. Kassam DMD. <i>"Pre-Surgical Dentofacial Treatment: Nasoalveolar Molding (NAM)."</i> Serena N. Kassam DMD, Mohammad M. Ahmed, DDS, MS, Amr M Moursi, DDS, PhD. <i>"Oral Health and Pediatric Dentistry in the Setting of Cleft Lip/Palate."</i>
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Dr. Serena Kassam

Gareth Davies BA, Ruben Ayala MD, Pameela Sheeran BA, Erin Steiber, Jamie Perry PhD, Serena N. Kassam DMD, Usama Hamdan MD, FICS *"Psychosocial considerations for outreach settings: Patient and Family Community Resources."*

Cleft and Craniofacial Orthodontics (Wiley publishing, Editors: Shetye and Gibson. In review)

Chapters:

- Serena N. Kassam DMD., Mohammad M Ahmed, DDS, MS, Linda Rosenberg DDS. *"Pediatric Dentistry in Patients with Cleft."*

Elsa M. Chahine, MD, Rami S. Kantar, MD, MPH, Serena Kassam, DMD, Raj Vyas MD, Anthony Haddad MD, Usama Hamdan, MD, FICS. *"Sustainable Cleft Care: A Comprehensive Model Based On The Global Smile Foundation Experience"* *Cleft Palate Craniofacial Journal*. May 2021 (Accepted for print), Sept 2020(online)

Initiatives in Progress

**Dr. Jennifer Park
&
Dr. Joy Richman**

**QI/QA: Virtual Health
Consultations in Dentistry**

Dr. Jennifer Park

**QI/QA: Oral Care
Procedures at BCCH**

DIVISION OF PEDIATRIC OPHTHALMOLOGY

2020-2022



FACULTY MEMBERS (ON-SITE)



Dr. Maryam Aroichane
Clinical Associate Professor



Dr. Jane Gardiner
Interim Department Head
Clinical Professor



Dr. Christopher Lyons
Professor



Dr. Conor Mulholland
Clinical Associate Professor

Faculty Members (Off-site)

David Albiani	Clinical Assistant Professor, Division Head Retina
T. A. Demco	Clinical Associate Professor
Peter Dolman	Clinical Professor & Division Head Oculoplastics & Orbit
Deborah Giaschi	Professor, Scientific and Research
Harald Gjerde	Clinical Instructor
Alfonso Iovieno	Clinical Associate Professor, Consulting
Ross Kennedy	Clinical Assistant Professor
Femida Kherani	Clinical Assistant Professor
Andrew Kirker	Clinical Assistant Professor, Consulting
Ashley Ko	Clinical Instructor
Patrick Ma	Clinical Assistant Professor
David Maberley	Professor
Paul Mackenzie	Clinical Associate Professor, Consulting
Zaid Mammo	Clinical Assistant Professor
Andrew Merkur	Clinical Assistant Professor, Consulting
Eduardo Navajas	Clinical Assistant Professor, Consulting
Hugh Parsons	Clinical Professor, Consulting
Katherine Paton	Clinical Professor
Megan Rees	Clinical Associate Professor
David Rossman	Clinical Assistant Professor
Aron Tischler	Clinical Assistant Professor
Sonia Yeung	Assistant Professor, Consulting
Vivian Yin	Clinical Associate Professor

Staff

Christy Giligson	Senior Teaching Orthoptist
Vaishali Mehta	Orthoptist
Grace Harradine	Orthoptist
Linn Moore	Electroretinophysiology Technician
Vaishali Mehta	Orthoptist
Andrea Quan	Orthoptist
Debbie Zylich	Orthoptist
Joan Baldos	Registration & Scheduling Clerk
Chloe Gregg	Administrative Coordinator
Brenda Jew	Registration Clerk
Natalie Wong	Orthoptic & ERG Scheduling Clerk



Highlights and Achievements

Name	Highlights/Achievements	Date
Deborah Giaschi	Basic Science Research Award, Department of Ophthalmology, UBC	June 2021
Deborah Giaschi	Helen Keller Award for Vision Research, Department of Ophthalmology, University of Washington	October 2021

Teaching Activities

Fellows Supervised

Name	Country of Origin	Dates Supervised
Veronique Promelle	France	April 2019-June 2020
Fabiola Jerez Carvajal	Honduras	March 2020-May 2021
Aaron Winter	Canada	July 2020-June 2021
Abdul-Raheem Abu Shanab	Palestine	June 25, 2021- June 22, 2022
Treasa Murphy	Ireland	July 1, 2021- June 30, 2022

Residents Supervised

Name	Dates Supervised
Steven Bae	July 1, 2020 - June 30, 2022
Mahadev Bhalla	July 1, 2021 – June 30, 2022
Heidi Britton	July 1, 2021 – June 30, 2022
Myra Butler	July 1, 2019 - June 30, 2021
Mitch Browne	July 1, 2019 - June 30, 2020
Henry Chen	July 1, 2019 - June 30, 2022
Maryam Eslami	July 1, 2019 - June 30, 2022
Anastasia Faggioni	July 1, 2021 – June 30, 2022
Lauren Hughes	July 1, 2021 – June 30, 2022
Geoff Law	July 1, 2019 - June 30, 2021
Dongho Lee	July 1, 2020 - June 30, 2022
Carter Lim	July 1, 2021 – June 30, 2022
Jennifer Ling	July 1, 2021 – June 30, 2022
Rosanna Martens	July 1, 2019 - June 30, 2020
Wendy Ming	July 1, 2019 - June 30, 2021
Cameron Oliver	July 1, 2020 - June 30, 2022
Rob Pintwala	July 1, 2019 - June 30, 2022
Lauren Sawatzky	July 1, 2019 - June 30, 2022
Grace Qiao	July 1, 2019 - June 30, 2022
Amanda Schlenker	July 1, 2019 - June 30, 2022
Carol Tadrus	July 1, 2019 - June 30, 2022
Colten Wendel	July 1, 2019 - June 30, 2020

Students Supervised

Name	Student Type	Dates Supervised
Farnaz Javadian	MD	Pediatric Ophthalmology Elective Sept 14-27, 2020
Cody Lo	MD	Pediatric Ophthalmology Elective Oct 12-25, 2020
Po Hsiang (Shawn) Yuan	MD	Pediatric Ophthalmology Elective Sept 6-19, 2021
Iulia Dascalu	MD	Pediatric Ophthalmology Elective Oct 18-31, 2021
Rem (Reem) Aziz	MD	Pediatric Ophthalmology Elective Nov 15-28, 2021

Scholarly & Professional Activities

Dr. T. Alan Demco

2020 November 9. Preparation of Journal article for presentation: Relation between surgeon age and postoperative outcomes: a population-based cohort study. Vol 190 Issue 15 April 14 2020 E385-E392.

2020 November 18. University of British Columbia Red Cross Speaker Series: Medical Edition. Speakers: Maggie Wong R.N., T. Alan Demco M.D., Duncan Browman Ph.D.

2021 May 31. Mount St. Joseph Hospital Mobility and Mortality Rounds. Presentation to Physician and Surgeon Medical Staff.

2021 November 4. Free Reign Associates MOA College. Director Ahana. Presentation on the practice of Ophthalmology for Medical Office Assistant Program with virtual tour of suite.

December 2, 2021. University of British Columbia Department of Ophthalmology. Wet lab Surgery Instructor. University of British Columbia/Vancouver General Hospital Eye Care Centre Microsurgical Laboratory. 2550 Willow Street, Vancouver, British Columbia.

Dr. Peter Dolman

Hong Leong Visiting Professor Scholarship for Singapore National University 6 weekly visits over 2 years – 2019 and 2020

LV Prasad Visiting Professor Scholarship – weekly teaching in Bhubaneswar 2020

Jules Stein Anatomy Course, invited instructor, Los Angeles, **USA** Mar 2020

ASOPRS Spring Clinical Course Invited Zoom Conference Instructor, **USA** June 2020

LV Prasad Invited Virtual Speaker, Bhubaneswar, **INDIA** Jan 2021

Columbia University Basic Science Course in Ophthalmology, New York, **USA** Jan 2021

Asia Pacific ITEDS Visiting Zoom Lecturer, **SINGAPORE**, Jan 2021

Management of Dysthyroid Optic Neuropathy\ Invited Panelist, Am Soc of Oculoplastic and Reconstructive Surgeons, Spring Meeting, ZOOM virtual meeting, **USA** June 2020

Breakfast with the Experts: Tear drainage strategies. Walter Wright invited professor, University of Toronto Dept of Ophth, **CANADA** Dec 2021

Saudi Arabian Ophthalmology Virtual Conference, Visiting Lecturer, **SAUDI ARABIA**, Dec 2021

Recent advances in Medical Management of Thyroid Orbitopathy EOC21 Saudi Arabian Ministry of Health congress, **SAUDI ARABIA**, Dec 2021

APITEDS Meeting Keynote speaker: Role of radiotherapy in Thyroid orbitopathy.

SINGAPORE, Zoom Virtual Meeting Jan 2021 (11,000 audience members)

New Medical Management in Thyroid Eye Disease. Invited speaker: Columbia University Course in Ophthalmology NYC, **USA** Jan 2021

University of Calgary Departmental Research Day Visiting Judge, **CANADA** May 2021

Guest Professor, University of Calgary Research Day, **CANADA** May 2021

Shanghai Thyroid Orbitopathy Conference, Visiting Virtual lecturer, **CHINA**, Apr 2021

Radiotherapy in Thyroid Eye Disease

Virtual Guest speaker, Shanghai Hospital, **CHINA** June 2021

University of Santiago Visiting Professor, **CHILE** July 2021

Anophthalmic Socket Reconstruction University of Santiago, **CHILE**, July 2021

Korean Ophthalmologic Society Visiting Lecturer, **KOREA** Oct 2021

Middle East Ophthal Conference, Visiting Zoom Lecturer, **UNITED ARAB EMIRATES** Sep 2021

Expert Tips In Lacrimal Surgery

Middle East Ophthalmic Conference, **UNITED ARAB EMIRATES**, Sept 2021

Dr. Jane Gardiner

Royal College of Physicians and Surgeons, Examiner for Ophthalmology, member of the Executive Committee

Undergraduate Director for Ophthalmology and Vision Science, Faculty of Medicine

Pediatric Ophthalmology Downtown Eastside Outreach Clinic, 2017-present Co-Medical Director

Pediatric Ophthalmology Outreach Clinic in Prince George 3 times annually, 2013-present

Pediatric Ophthalmology Outreach Clinic to Whitehorse, 2 weeks annually

Lecture 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

Peer Reviewer for Canadian Journal of Ophthalmology 2020

Royal College of Physicians and Surgeons, Examiner for Ophthalmology, member of the Executive Committee

Undergraduate Director for Ophthalmology and Vision Science, Faculty of Medicine

Vancouver Coastal Health Covid 19 Physician Immunizer, April 2021-Feb 2022

Pediatric Ophthalmology Downtown Eastside Outreach Clinic, 2017-present Co-Medical Director

Pediatric Ophthalmology Outreach Clinic in Prince George 3 times annually, 2013-present

Pediatric Ophthalmology Outreach Clinic to Whitehorse, 2 weeks annually

Dr. Deborah Giaschi

Invited talks:

Visuomotor skills and reading in amblyopia. Smith-Kettlewell Eye Research Institute Colloquium, San Francisco, CA, Zoom, April 2021

The fellow eye in amblyopia is not “normal”. Gained in Translation Symposium, University of Washington, University of British Columbia, Oregon Health Science University, Zoom, October 2021

Conference presentations:

Mestre C, Neupane S, Giaschi D, Wilcox LM, Candy TR (2021) The impact of spherical defocus on diplopia and vergence. *Journal of Vision* 21(9):2802. *Vision Sciences Society poster presentation*

Hou S, Zhang Y, Christian L, Niechwiej-Szwedo E, Giaschi D. (2021) Evaluating visuomotor coordination in children with amblyopia. *Journal of Vision* 21(9):1999. *Vision Sciences Society poster presentation*

Shahin Y, Chang EC, Watson M, Yuskiv N, Stockler S, Giaschi D. (2021) Assessment of contrast sensitivity in children with phenylketonuria. *Journal of Vision* 21(9):2776. *Vision Sciences Society poster presentation*

Mestre C, Neupane S, Giaschi D, Wilcox LM, Candy TR (2021) The effect of spherical defocus on vergence and diplopia in adults and children. *Optical Society Fall Vision meeting oral presentation*

Mestre C, Neupane S, Bonnen K, Giaschi D, Wilcox LM, Candy TR. (2022) The effect of anisometropia on reflex vergence movement. *Association for Research in Vision and Ophthalmology poster presentation*.

Asare A, Meier K, Chang EC, Mulholland C, Lyons C, Wilcox L, Giaschi D. (2022) Coarse stereopsis prior to strabismus surgery is associated with post-surgical ocular alignment in children. *Association for Research in Vision and Ophthalmology poster presentation*.

Dr. Christopher Lyons

Chair, organizing committee, Session chair X2. Vancouver Pediatric Ophthalmology and Strabismus Conference September 10 2021. ‘Around the World in 8 hours’. Lyons CJ, Mulholland C, Mehta V.

American Association for Pediatric Ophthalmology and Strabismus 2021 (Virtual). Presentation in Panel Discussion: Diagnosis you don't want to miss: Hypopyon in infancy and childhood. Lyons CJ

American Association for Pediatric Ophthalmology and Strabismus 2022. Scottsdale Arizona USA. Outcomes of glaucoma valve implantation with Mitomycin C after failure of a first glaucoma valve in pediatric glaucoma. Promelle V, Lyons CJ

Entretiens Ophthalmologiques de l'Universite de Montreal 2022.

- How to deal with overaction in incomitant strabismus. Lyons CJ, Murphy T.
- Sudden bilateral visual loss in childhood. Lyons CJ
- Acute Acquired Comitant Esotropia revisited. Lyons C, Murphy T

Grants/Funding Received

Granting Agency	Title	COMP	\$ Per Year	Year	Principle Investigator	Co-Investigator(s)
NSERC	Brain mechanisms underlying human motion perception	C	\$39,000	2017-2023	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
Canada First Research Excellence Fund	The role of coarse stereopsis in amblyopia treatment outcomes	C	\$25,000	2019-2023	L. Wilcox	Giaschi
Brain, Behavior & Development (BB&D) Catalyst grant (BCCHR)	Visuomotor learning in children with amblyopia: Brain dynamics in action and at rest	C	\$20,000	2022-2023	H. Y. Im	Giaschi
BB&D Trainee Boost Award (BCCHR)	Visual processing, memory and reasoning in children with dyslexia	C	\$5,000	2022-2023	Giaschi	H. Y. Im Z. Kheradmandsaadi
BB&D Trainee Boost Award (BCCHR)	Neural correlates of motion perception deficits in children with amblyopia	C	\$5,000	2022-2023	Giaschi	H. Y. Im A. Asare

Committee Participation

Dr. Peter Dolman

Interim Department Head, Dept of Ophthalmology and Visual Sciences, Vancouver Acute, 2021-22
Division Head of Oculoplastics, Dept of Ophthalmology, University of British Columbia, 2009- present

Dr. Jane Gardiner

UBC Faculty of Medicine, Undergraduate Medical Executive Committee, June 2018-present
UBC Ophthalmology and Vision Science, Executive Committee 2016-present
UBC Ophthalmology and Vision Science, Residency Training Committee Member 2014 – present
UBC Ophthalmology and Vision Science Continuing Education Committee, 2008 -present
BC Society of Eye Physicians and Surgeons, Economics Committee 2020-present

Dr. Deborah Giaschi

Faculty Appointments, Re-appointments, Promotion, Tenure committee, UBC Faculty of Medicine, *member*
NSERC Undergraduate Student Research Awards, UBC Faculty of Medicine, *coordinator*
UBC High Field MRI Centre Protocol Review committee, *member*
BC Children's Hospital MRI Research Facility Protocol Review committee, *member*
Ophthalmology Executive Advisory Committee, *member*
Residency Training Committee, Ophthalmology, *member*
Resident Competence Committee, Ophthalmology, *member*
Faculty Recognition Committee, Psychology, *member*
Awards committee, Geoffrey L Hammond Lectureship, BCCH Research Institute, *member*
COVID-19 BCCHRI Return to Onsite Research Group, *member*
Vision Sciences Society – Young Investigator's Award committee, *chair*

Dr. Patrick Ma

UBC Credentials committee – 2010 to present
BC Society of Eye Physicians, President 2000 – present
BCSEPS, Optometric Scope of Practice July 95 - present

Dr. Christopher Lyons

April 1, 2021- present: Interim Chairman, UBC Department of Ophthalmology
Organizer-The 13th Biennial Vancouver Pediatric Ophthalmology and Strabismus Meeting

Dr. Conor Mulholland

Respectful Workplace committee at UBC Department of Ophthalmology and Visual Sciences.
Organizer-The 13th Biennial Vancouver Pediatric Ophthalmology and Strabismus Meeting

Publication Records

Dr. Peter Dolman

1. Reynolds RR, Davies MJ, Buffam FV, Dolman PJ, White VA. Differences in 7th and 8th edition American Joint Committee on Cancer staging for periocular sebaceous carcinoma. *Canadian Journal of Ophthalmology* 2021; 56 (1), 31-36
2. Chen H, Chen Schlenker AC, Dolman PJ, Wong VA. Two cases of bilateral blindness from *Klebsiella pneumoniae* endogenous endophthalmitis. *Canadian Journal of Ophthalmology* 2021; 56 (5), e155-e157
3. Wirth MA, Dolman PJ. Surgical Technique to Retrieve a Migrated Lester Jones Lacrimal Tube. *Ophthalmic Plastic & Reconstructive Surgery* 2021; 37 (5), 496-498
4. Dolman PJ, Wirth MA. Glucocorticoids for Thyroid Eye Disease. *International Ophthalmology Clinics* 2021; 61 (2), 63-78
5. Dolman PJ. Orbital Floor Decompression for Thyroid Eye Disease in *Surgery in Thyroid Eye Disease*, 2020; 137-147
6. Dolman PJ. Surgical Management of Compressive Optic Neuropathy in Active Thyroid Eye Disease in "Surgery in Thyroid Eye Disease" 2020; , 81-94
7. Dolman PJ. Dysthyroid optic neuropathy: evaluation and management. *J Endocrinol Invest* 2020; 10:107
8. Fay A, Nallasamy N, Allen RC, Bernardini FP, Bilyk JR, Cockerham K, Cruz AA, Devoto M, Dolman PJ et al. Perioperative Prophylactic Antibiotics in 1,250 Orbital Surgeries. *Ophthalmic Plast Reconstr Surg*. 2020 Jul/Aug;36(4):385-389
9. 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
10. HM Khan, M Wirth, PJ Dolman, S Yeung, A Iovieno. Long-term Outcomes of Rehabilitative Surgery in Ocular Cicatricial Pemphigoid and Drug-induced Pseudo-Pemphigoid. *Investigative Ophthalmology & Visual Science* 2022; 63 (7), 3989–A0269–3989–A0269
11. Nair AA, Ediriwickrema LS, Dolman PJ, Law G, AR Harrison et al. Predictive Modeling of New-Onset Postoperative Diplopia Following Orbital Decompression for Thyroid Eye Disease. *Ophthalmic Plastic & Reconstructive Surgery* 2022; 10.1097
12. Ming WH, Terry J, Zhao L, Dolman PJ. Orbital Teratoma: Case Report and Management Review. *Ophthalmic Plastic and Reconstructive Surgery* 2022
13. D'Alessandro, PR \ Lo AC, Spencer MH, Farinha P, Dolman PJ, Armstrong L et al. Primary cutaneous follicle center lymphoma of the medial canthus of the eye in an 11-year old. *Pediatric Blood & Cancer*, 2022; e29630-e29630
14. D'Alessandro P, Lo A, Spencer M, Farinha P, Armstrong L, Dolman PJ. Comment on: Primary Cutaneous Lymphomas in Children and Adolescents Primary cutaneous follicle center lymphoma of the medial canthus of the eye in an eleven year old. *Authorea Preprints* 2022
15. Dolman PJ, Chung YHW. Pediatric Neurogenic Tumors Taylor and Hoyt's *Pediatric Ophthalmology and Strabismus*, E-Book, 252 2022

Dr. Jane Gardiner

1. "Canadian Rheumatology Association Recommendations for the Screening, Monitoring, and Treatment of Juvenile Idiopathic Arthritis–Associated Uveitis" (Manuscript No. 2022-0261), submitted to the Canadian Journals of Rheumatology and Ophthalmology

Dr. Deborah Giaschi

1. Partanen M, DHC Kim, Rauscher A, Siegel LS, Giaschi DE (2021). White matter but not grey matter predicts change in reading skills after intervention. *Dyslexia* 27(2):224-244.
2. Meier K, Sell D, Seemiller E, Giaschi D, Wilcox L, Candy R. (2021) The relationship between reflex eye realignment and the percept of single vision in young children. *Scientific Reports* 11:375.
3. Tardif J, Watson M, Giaschi D, Gosselin F. (2021) The curve visible on the Campbell-Robson chart is not the contrast sensitivity function. *Frontiers in Neuroscience*.
4. Chakraborty A, Tran T, Silva A, Giaschi D, Thompson B. (2021) Continuous theta burst TMS of area MT+ impairs attentive motion tracking. *European Journal of Neuroscience* 54(9):7289-7300.
5. Ye XC, Roslin N, Paterson AD, Care4Rare Canada, Lyons C, Pegado V, Richmond P, Shyr C, Fornes O, Han X, Higginson M, Ross CJ, Giaschi D, Gregory-Evans CY, Patel MS, Wasserman WW. (2022) Linkage analysis identifies an isolated strabismus locus at 14q12 overlapping with FOXP1 syndrome region. *Journal of Medical Genetics* 59(1):46-55.
6. Manning C, Meier K, Giaschi D. (2022) The reverse motion illusion in random dot motion displays and implications for understanding development. *Journal of Illusion* 3: 1-13.
7. Hou S, Zhang Y, Christian L, Niechwiej-Szwedo E, Giaschi D. (2022) Visuomotor control in children with amblyopia. *Developmental Psychobiology* 64:1-14.

Dr. Christopher Lyons

1. Vitreous Changes in Gaucher Disease Type 3 Promelle V (F), Salvarinova R, Lyons CJ. *Ophthalmology* 2020;127:813
2. Featuring the Nd:YAG laser capsulotomy in the operating room Promelle V (F), Armarnik S (F), Lyons CJ. *Int J Ophthalmol* 2020;18:523-524
3. Intracameral endo-illumination-assisted cataract surgery in a child with an opaque cornea Tagle AC (F), Armarnik S (F), Jiang K, Lyons CJ. *Can J Ophthalmol* 2020;55:e146-e148
4. Keratoplasty in Infancy: How early is early?. Lyons CJ *JAAPOS* 2020;24: 129-130
5. Taylor and Hoyt Pediatric Ophthalmology and Strabismus 6th Ed. Lyons CJ, Lambert S. Elsevier, London, New York
6. Clinical Evidence for an accessible modification to the Scott Resect-Recess procedure using a matching duction technique. Armarnik S(F), AlQahtani E(F), Lyons CJ. *JAAPOS* 2021 Apr;25(2):70.e1-70.e6e publication ahead of print April 2021
7. The management of limbal dermoids by simple excision in young children. J Pediatr Ophthalmol Strabismus. Promelle V(F), Lyons CJ *Pediatr Ophthalmol* 2021 PMID: 34039158
8. Long Term Results of Ahmed Valve Implantation with Mitomycin C in Pediatric Glaucoma. Promelle V(F), Lyons CJ. *J Glaucoma*. 2021;30:596-605 PMID 33979112
9. Why goniotomy? The indications and outcomes of goniotomy for the spectrum of childhood glaucomas . Armarnik S (F), Farrell S (F), Lyons CJ. *Can J Ophthalmol* (Submitted)
10. Perforation of papillary gliosis resulting in an optic pit in a child. Winter A(F), Lyons CJ. *JAMA Ophthalmology* 2021(Apr). PMID 33881497
11. Complete resolution of iris Juvenile xanthogranuloma with topical corticosteroid only. Winter A(F), Lyons CJ. *Can J Ophthalmol* 2021 PMID 34077746
12. Linkage Analysis identifies an isolated strabismus locus at 14q12 overlapping with FOXP1 syndrome region. Ye XC, Roslin NM, Paterson AD, Lyons CJ, Pegado V, Ross, Giaschi D, Gregory Evans C, Wasserman W. *J Med Genet* 2022;59:46-55

Dr. Patrick Ma

1. Far, P.M., Yeung, S.C., Ma, P.E., Hurley, B., Kertes, P., You, Y., Yan, P., 2021. The effect of internal limiting membrane peel for idiopathic epiretinal membrane surgery: a systematic review of randomized controlled trials. American Journal of Ophthalmology. DOI:10.1016/J.AJO.2021.04.028

Awards

Dr Peter Dolman, VGH Dept of Ophthalmology Clinical Research Award, 2022

Remarks

2020-21

While this was the first year of the Covid 19 pandemic, our department remained very busy and managed to see 15,781 patients over the year. There was some limited use of virtual health, but unlike many other disciplines, ophthalmology does not easily lend itself to this modality of care. Our dedicated team of ophthalmologists, orthoptists, electrophysiology and low vision staff worked diligently to provide a safe environment for our patients and continued our high level of excellent care.

We continue to contribute to UBC's teaching mandate on all levels. We have an orthoptics student coming to the end of her 2-year program. We are one of only 3 such training programs in the country. We participate in undergraduate teaching and while this was on hold for a short time at the start of the pandemic, we became even busier than usual when the teaching restarted, as many private offices stopped their teaching and hospital clinics filled the gap. We also offered new electives to 4th year students, as there was no travel allowed for medical student electives and more opportunities were created locally. Dr Jane Gardiner continues to work in her role as Director of Undergraduate Ophthalmology and Vision Science. We always have an ophthalmology resident rotating through our department. There is often interest from other specialties at BCCH for ophthalmology experiences; in particular from pediatrics, neurology and emergency medicine. We are particularly proud of our fellowship training program, under the leadership of Dr Chris Lyons. We train 2 fellows a year, with one coming from the developing world and the other from the developed world. These are generously supported by the John Pratt Johnson and Andrew McCormick endowments and the BCCH Foundation.

Dt Debbie Giaschi supports graduate students in her lab, with her ongoing researching motion perception and amblyopia. While she was physically not in her lab space for much of the year, she managed to be very productive.

Our staff are actively involved in further teaching, through continuing medical education programs. This shifted to the virtual format, but we adapted, and in some cases, it improved our reach.

Some of our outreach services were put on hold during the first year of the pandemic, but many visits continued; Dr Ko to Ft St John, Dr Lyons to Bella Coola and Nelson, Dr Gardiner to Whitehorse. We have continued our work at the Downtown Eastside Eye Clinic after a short pause. This is in collaboration with the RICHER Program. In fact, we also helped with RICHER Program's school readiness assessments. The usual vision screeners were seconded to Covid-19 tracing and we filled in the vision screening role.

Our staff are actively involved in clinical research and publishing. A notable achievement is Dr Lyons' editing of the 6th edition of Taylor and Hoyt's Pediatric Ophthalmology and Strabismus. Dr Gardiner was involved nationally in the creating the Canadian Guidelines for Management of Uveitis in Juvenile Idiopathic Arthritis. Our subspecialty colleagues have also been very busy.

2021-22

As the Covid-19 pandemic persisted, we learned how to safely increase our patient volumes, seeing 15,364 patients over the year. We were sad to say goodbye to Dr Roy Cline this year, after a long and dedicated career of excellent teaching and service to our patients. We now welcome Dr Harald Gjerde to our department as our newest pediatric ophthalmology colleague.

We continue to contribute to UBC's teaching mandate on all levels. One orthoptic student successfully completed her training and another has started her first year of a 2-year program. We are one of only 3 such training programs in the country. We participate in undergraduate teaching, and we are even busier than usual, as many private offices have slowed their teaching and hospital clinics filled the gap. We continue to offer new electives to 4th year students, as there was still no travel allowed for medical student electives and more opportunities were created locally. Dr Jane Gardiner actively works in her role as Director of Undergraduate Ophthalmology and Vision Science. We always have an ophthalmology resident rotating through our department. There is regular interest from other specialties at BCCH for ophthalmology experiences, from pediatrics, neurology and emergency medicine. We are particularly proud of our fellowship training program, under the leadership of Dr Chris Lyons. We train 2 fellows a year, with one coming from the developing world and the other from the developed world. These are generously supported by the John Pratt Johnson and Andrew McCormick endowments and the BCCH Foundation.

Dt Debbie Giaschi supports graduate students in her lab, with her ongoing researching motion perception and amblyopia. She has been happy to physically return to her lab space, adjacent to our clinic.

Our staff are actively involved in further teaching, through continuing medical education programs. Under the guidance of Drs Lyons and Mulholland, we had a very successful Biennial Pediatric Ophthalmology and Strabismus meeting in September 2021. This shifted to the virtual format, with speakers and attendees from literally around the world! Many of our faculty are involved in other local, national, and international teaching, which has been made more accessible with the universally accepted virtual format.

Our outreach services have largely resumed, despite the pandemic, Dr Ko to Ft St John, Dr Lyons to Bella Coola and Nelson, Dr Gardiner to Whitehorse. We have continued our work at the Downtown Eastside Eye Clinic. This is in collaboration with the RICHER Program. We also helped with RICHER Program's school readiness assessments, for the second year. The usual vision screeners were seconded to Covid-19 tracing and we filled in the vision screening role.

Our staff are actively involved in clinical research and publishing. Dr Lyons has worked with the fellows on several publications. Dr Gardiner has continued her involvement nationally in contributing to the formulation of the Canadian Guidelines for Management of Uveitis in Juvenile Idiopathic Arthritis. These will soon be in publication. Our subspecialty colleagues have also been busy.

DIVISION OF PEDIATRIC ORTHOPAEDIC SURGERY

2020-2022



FACULTY MEMBERS



Dr. Christopher W. Reilly
Department Head
Associate Professor



Dr. Christine M. Alvarez
Clinical Associate Professor



Dr. Kishore Mulpuri
Professor



Dr. Firoz Miyanji
Clinical Professor



Dr. Anthony Cooper
Clinical Associate Professor



Dr. Arvindera Ghag
Clinical Assistant Professor

FACULTY MEMBERS



Dr. Lise Leveille
Clinical Assistant Professor



Dr. Jeff Pike
Clinical Professor



Dr. Andrea Simmonds
Clinical Instructor



Dr. Paul Clarkson
Clinical Professor



Dr. Emily Schaeffer
Research Director
Research Associate

Staff

Dr. Harpreet Chhina	Research Associate (Cooper)
Kristen Adams	Administrative Coordinator
Dr. Bryn Zomar	Postdoctoral Research Fellow, Hippy Lab
Ashley Munoz	Research Coordinator, Hippy Lab
David Stephen-Tammuz	Research Coordinator, Hippy Lab
Tamara Dudley	Global Hip Health Coordinator, Hippy Lab
Joel Sloan	Managing Director, Hippy Lab
Brittany Lim	Research Coordinator (Cooper)
Dhanashree Sangaokar	Research Coordinator (Cooper)
Michele Stark	MOA (Reilly)
Marilyn Timbrell	MOA (Alvarez)
Brenda Whitworth	MOA (Alvarez)
Salima Damani	MOA (Mulpuri)
Susan Ramsical	MOA (Cooper)
Valerie Walsh	MOA (Miyajiri/Ghag)
Nicole Lee	MOA (Leveille/Simmonds)
Melissa Hart	MOA (Leveille)
Dolly Khanna	Nurse Clinician
Nicole Osborne	Nurse Clinician, Spine
Wendy Krishnaswamy	Nurse Clinician
Alyssa Robinson	Clinic Nurse
Jennifer Dunlop	Nurse Practitioner
Fidel Brooks	Cast Technician

Ricardo Botia	Cast Technician
Shelina Kabani	Orthopaedic Clinic
Manjit Bains	Orthopaedic Clinic
Stacey Miller	PT, CP Hip Surveillance
Maria Juricic	PT, Orthopaedic Clinic
Nandy Fajardo	PT, Orthopaedic Clinic
Daphne O'Young	OT, Orthopaedic Clinic
Sarah Pesticelli	Nurse Clinician
Farzana Jiwani	Nurse Clinician
Marcella Paoletti	PT, Orthopaedic Clinic
Jennifer Farr	Hip Surveillance
Amber Kanerva	Nurse Clinician
Megan Baxter	PT, Orthopaedic Clinic
Jennifer Farr	Hip Surveillance
Caitlyn Dunphy	Spine PT
Catherine Jones	Clinical Dietician
David Park	Nurse Practitioner
Iris Tung	OT, Orthopaedic Clinic
Emma Patina	Registration Clerk
Edgardo Jorales	Nursing Station
Mykola Nosa	Cast Tech
Shir Hazhir	Cast Tech
Theresa Longpre	Ortho Reception
Alec Black	Technical Director, The Motion Lab
Dr. Tim Bhatnagar	Engineer, The Motion Lab

Karen Davies

PT, The Motion Lab

Diane Wickenheiser

PT, The Motion Lab

Highlights and Achievements

Name	Highlights/Achievements
Dr. Kishore Mulpuri	Named Head of the Department of Orthopaedics, UBC (January 2021)
Dr. Kishore Mulpuri	Promoted to Professor, UBC (2020)
Dr. Kishore Mulpuri	Inducted as President of the Canadian Orthopaedic Association (June 2021)
Dr. Lise Leveille	Named Director, Undergraduate Medical Education, Department of Orthopaedics (2020)
Dr. Firoz Miyanji	Recipient of Hibb's Best Clinical Paper Award for "Complications Following Posterior Surgical Treatments of Adolescent Idiopathic Scoliosis: Prospective 10-Year Follow-Up Study" at the Scoliosis Research Society Annual Meeting, Sept 2020
Dr. Firoz Miyanji	Recipient of the Whitecloud Best Clinical Paper Award for "The Harms Study Group Retrospective Comparison study on Anterior Vertebral Body Tethering (AVBT) versus Posterior Spinal Fusion (PSF) for Primary Thoracic Curves" at the International Meeting of Advanced Spinal Techniques, Virtual Meeting, April 2021
Dr. Anthony Cooper	Recipient of a CICH seed grant to establish a Global Health Fellowship in Pediatric Orthopaedics; a joint initiative between UBC and the University of Rwanda

Dr. Anthony Cooper	Named Vice President of the Canadian Pediatric Orthopaedic Group (June 2021)
Dr. Anthony Cooper	Recipient of the POSNA Registry Grant for the International Limb Differences Registry
Dr. Harpreet Chhina	Successfully defended her PhD thesis on the development and cross-validation of a patient-reported outcome questionnaire for children with limb differences

Teaching Activities

Fellows Supervised

Name	Country of Origin	Dates Supervised
Jessica Page	Canada	February 3 – April 1, 2020
Njalalle Baraza	Kenya	August 1, 2020 – July 31, 2021
Supriya Singh	Canada	August 1, 2020 – July 31, 2021
Mashaël Muwanis	Saudi Arabia	August 1, 2020 – July 31, 2022
Sean Kelly	United States	August 13, 2020 – July 31, 2021
Ali Bakkai	South Africa	September 10, 2020 – July 31, 2022
Mashaël Muwanis	Saudi Arabia	August 1, 2020 – July 31, 2022
Ali Bakkai	South Africa	September 20, 2020 – July 31, 2022
Judith Nassaazi	Uganda	March 1, 2021 – July 31, 2022
Ali Eren	Turkey	August 1, 2021 – July 31, 2022
Otis Shirley	New Zealand	August 1, 2021 – July 31, 2022
Courtney Bull	Canada	August 1, 2021 – July 31, 2022

Residents Supervised

Name

Dates Supervised

Kellen Walsh	February 10 – May 3, 2020
Mikaela Peters	April 6 - June 30, 2020
Mary Sun	July 1 - September 20, 2020
Daniella Crocker	August 23 - November 15, 2020
Abdalmohsen Almeshari	October 19 - December 13, 2020
Alia Albaghdadi	December 14 - March 7, 2021
Oren Zarnett	December 14 - March 7, 2021
Tanya MacDonell	February 8-May 2, 2021
Adam McIntyre	March 8-May 5, 2021
David Stockton	March 8-April 5, 2021
Abdalmohsen Almeshari	April 6-May 2, 2021
Alex Hoffer	July 1 – August 29, 2021
	March 14 – May 8, 2022
Stefan St George	July 1 – September 26, 2021
Helen Crofts	July 1 – September 26, 2021
Akshay Lobo	August 3 – October 24, 2021
Hanyi Chen	August 30 – November 21, 2021
Michael Nitikman	September 27 – December 19, 2021
John Steyn	October 25 – January 16, 2022

Mohamed Al-Amoodi	October 25 – January 16, 2022
Aresh Sepehri	December 20 – March 13, 2022
Hannah Nazaroff	December 20 – March 13, 2022
Eryck Moskven	December 20-March 13, 2022
Colby Finney	January 17-April 10, 2022

Students Supervised

Name	Student Type	Dates Supervised
Aidan Loh	BA	Summer 2021
Emily Dunnion	BASc	2020-2021
Alison Jung	BSc	Summer 2021-2022
Arjun Chehil	BSc	Summer 2021
Frances Scheepers	BSc	Summer 2020
Kathryn Reilly	BSc	Summer 2020
Kathryn Reilly	BSc	2021
Neha Kodali	BSc	Summers 2018-2021
Paige Campbell	BSc	2020
Rachel Phord-Toy	BSc	Summers 2021-2022
Ryan Lim	BSc	Summer 2020
Tesia Kelleway	BSc	2022
Varun Nair	BSc	Summer 2020
Will Palmer	BSc	Summer 2021
Caitlyn Siu	BSc Work Learn	2020-2022
Hari Arneja	BSc Work Learn	2021-2022
Jaimy Coates	BSc Work Learn	2020-2022
Luke Wu	BSc Work Learn	2021-2022
Ashleen Khatra	BSc, Co-op	2021-2022

Caitlyn Siu	BSc, Co-op	2019-2020
Cameron Leong	BSc, Co-op	2021-2022
Ceilidh Matthews	BSc, Co-op	2020-2021
Darryl Liu	BSc, Co-op	2021-2022
Duneesha DeSilva	BSc, Co-op	2021-2022
Garshana Rajkumar	BSc, Co-op	2020-2021
Gilbert Lee	BSc, Co-op	2020-2021
Jaimy Coates	BSc, Co-op	2019-2020
Jero Abad	BSc, Co-op	2019-2020
Judy So	BSc, Co-op	2019-2020
Judy Wu	BSc, Co-op	2016-2020
Kavi Grewal	BSc, Co-op	2020-2021
Kayla Kim	BSc, Co-op	2021-2022
Luke Wu	BSc, Co-op	2020-2021
Luke Wu	BSc, Co-op	2020-2021
Maitri Panchal	BSc, Co-op	2020-2021
Maple Lei	BSc, Co-op	2021-2022
Mina Han	BSc, Co-op	2021-2022
Sachini Jayasinghe	BSc, Co-op	2020-2021
Sophia Davidson	BSc, Co-op	2019-2020
Varun Nair	BSc, Co-op	2021-2022
YuChi Lin	BSc, Co-op	2021-2022
Brittany Lim	BSc, Directed Studies	2019-2020
Ammarah Kaderdina	MASc	2019-2022
Arun Kumar	MASc	2019-2022
Houssam El-Hariri	MASc	2018-2020
Renitha Reddibathuni	MB, BCh, BAO	2021-2022
Ajay Shanmugaraj	MD	2021-2022

Alice Wang	MD	Nov-20
Alissa Zhang	MD	2021
Anisha Johal	MD	Summer 2021
Anisha Vasireddi	MD	2020
Anjuli Chehil	MD	2019-2021
Bobak Rassouli	MD	2021-2022
Gabby Levesque	MD	2020-2022
Gabrielle Sanatani	MD	2018-2021
Jonathan Rubenstein	MD	Nov-20
Mansi Potluri	MD	2021-2022
Miles Jaques	MD	Summer 2020
Mina Gerges	MD	Nov-20
Natalie South	MD	2021-2022
Renitha Bathuni	MD	Summer 2021
Tara Gholamian	MD	Summer 2021
Vanessa Sidhu	MD	2020-2022
Yousif Murad	MD	2021-2022
Alice Wang	MD, FLEX	2020-2022
Andrew Pauls	MD, FLEX	2021-2022
Mariana Gutierrez	MD, FLEX	2020
Parnian Hosseini	MD, FLEX	2021-2022
Rosalind Groenewoud	MD, FLEX	2020-2022
Tessa Ladner	MD, FLEX	2020
Jacqueline Li	MPH	2019-2022
Brittany Lim	MSc	2022
Matthew Clarke	PGY3 Elective	Sept-21
Harpreet Chhina	PhD	2016-2021
Luke Johnson	PhD	2019-2022

Scholarly & Professional Activities

Presentations/Lectures

Dr. Kishore Mulpuri

Jivraj B, Schaeffer EK, Bone J, Stunden C, Habib E, Jacob J, **Mulpuri K**. Virtual Reality (VR) to Reduce Pain and Anxiety in the Pediatric Orthopaedic Outpatient Setting: A Randomized Controlled Trial. Podium. Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 13, 2020. **SA**.

Miller S, O'Donnell M, **Mulpuri K**. Impact of Hip Surveillance on Surgical Practice: What Makes a Difference?. Podium. Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 13, 2020. **SA**.

Miller S, O'Donnell M, **Mulpuri K**. Impact of Hip Surveillance on Surgical Practice: What makes a difference? Podium. **International** Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, Jun 19-20, 2020. **SA**.

Kannan A, Hodgson A, **Mulpuri K**, Garbi R. Uncertainty Estimation for Assessment of 3D US Scan Adequacy and DDH Metric Reliability. 23rd **International** Conference on Medical Image Computing & Computer Assisted Intervention. Oct 4-8, 2020. **CA**.

Mulpuri K. DDH Diagnosis, Screening and Safe Swaddling. 55th **International** Annual Conference of Bombay Orthopaedic Society. Mar 19-21, 2021. **PR**.

Mulpuri K. Understanding the role of hip surveillance in Cerebral Palsy. **International** Scientifica 2021. Mar 27-28, 2021. **PR**

Developmental Dysplasia of the Hip: Screening, diagnosis & management up to 3 years of age. Live Paediatric Orthopaedic Society of India Webinar, April 30th, 2020.

Recommendations for the care of Pediatric Orthopedic Patients During the COVID Pandemic. Canadian Paediatric Orthopaedic Group Webinar: The Impact of COVID-19 on Paediatric Orthopaedic Surgery in Canada, May 5th, 2020.

Development of Registry/Multicenter Research? How to Help Start a Research Program in Resource Limited Environments. Pediatric Orthopaedic Society of North America 2020 Annual Meeting Symposium Program, May 13th 2020.

Schaeffer E, Aroojis A, Shah H, Krishnamoorthy V, Patwardhan S, Sahu C, **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. e-Poster. **International** Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 12-15, 2021. **SA**.

Sullivan E, Jones C, Miller S, Lee K, Wilson D, **Mulpuri K**, Agnes D'Entremont. Effect of Positioning Error on the Hilgenreiner Epiphyseal Angle and Head-shaft Angle Compared to the Femoral Neck-shaft Angle in Children with Cerebral Palsy. **International** Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 12-15, 2021. **CA**.

Mulpuri K. A Prospective, International Hip Dysplasia Registry with Follow-up to Skeletal Maturity: An Analysis of Risk Factors, Screening Practices & Treatment Outcomes. Research Grant. **International** Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 12-15, 2021. **PR**.

So J, El-Hariri H, Sandhu A, Habib E, Schaeffer E, Hodgson A, Garbi R, **Mulpuri K**. Standard Clinical Ultrasound Machine vs. Wireless Clarius-brand Ultrasound Probe: Could Wireless Probes be an Accurate, More Affordable Alternative? e-Poster.

National Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021. SA

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. e-Poster. **National Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021. SA**

Matthews C, Vasireddi A, Pawliuk C, Schaeffer E, **Mulpuri K**. Quality Assessment of Surveys Administered to Pediatric Orthopaedic Surgeons

Gibbard M, Zivkovic I, Jivraj B, Schaeffer E, Robillard JM, **Mulpuri K**. International Hip Dysplasia Registry Knowledge Translation Advisory Board. A Global Survey of Patient and Caregiver Experiences Throughout Care for Developmental Dysplasia of the Hip. e-Poster. **National Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021. SA**

Stacey M, Coates J, **Mulpuri K**. A Review of Radiology Reports From Hip Surveillance X-Rays Completed in Community Hospitals. e-Poster. **National Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021. SA**

Grzybowski G, Bliven E, Casagrande Cesconetto A, Muncy C, Wu L, Krishnaswamy W, Schaeffer E, **Mulpuri K**. Caregiver Experience Using Nonsurgical Treatment Options for Developmental Dysplasia of the Hip in Children. e-Poster. **National Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021. SA**

Gibbard M, Ponton E, Sidhu V, Farrell SE, Bone J, Wu L, Schaeffer E, Cooper A, Aroojis A, Global Pediatric Orthopaedic Group, **Mulpuri K**. Impact of COVID-19 on Paediatric Orthopaedic Surgery Practice. e-Poster. **National Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021. SA**

Dr. Firoz Miyanji

Miyanji F, Rushton PR, Turgeon I, Nasto LA, Pawelek J, Parent S. **Anterior Vertebral Body Tethering in Idiopathic Scoliosis: A Prospective, Multicenter Analysis**. Scoliosis Research Society Annual Meeting, Sept 2020.

Miyanji F, Marks MC, Samdani AF, Shah SA, Petcharaporn M, Bastrom TP, Newton PO. **Comparative Analysis of Post-op Motion between Spinal Fusion and VBT**. Scoliosis Research Society Annual Meeting, Sept 2020.

Miyanji F, Vitale MG, El-Hawary R, Murphy JS, Fields M, Matsumoto H, Skaggs DL, Parent S. **Shoulder Balance in Lenke Type 1 and 2 Idiopathic Scoliosis Following Anterior Vertebral Body Tethering of the Spine**. Scoliosis Research Society Annual Meeting, Sept 2020.

Hariharan AR, Shah SA, Baldwin M, Petfield J, Yaszay B, Newton PO, Lonner B, **Miyanji F**, Sponseller PD, Samdani AF. **Complications Following Posterior Surgical Treatments of Adolescent Idiopathic Scoliosis: Prospective 10-Year Follow-Up Study**. Scoliosis Research Society Annual Meeting, Sept 2020.

Samdani AF, Pahys JM, Samuel S, Johnson E, Quinonez A, **Miyanji F**, Hwang SW. **Reoperations after Anterior Vertebral Body Tethering: Analysis of a Cohort of 218 Patients**. Scoliosis Research Society Annual Meeting, Sept 2020.

Miyanji F, Petcharaporn, Rushton P, Marks M. **Vertebral Body Tethering: Truly Motion Preserving or Rather Motion Limiting?** Pediatric Orthopaedic Society of North America Annual Meeting, San Diego, USA, May 2020.

Miyanji F, Petcharaporn, Rushton P, Marks M. **Vertebral Body Tethering: Truly Motion Preserving or Rather Motion Limiting?** International Meeting on Advanced Spine Techniques, Athens, April 2020

Invited Faculty: **SRS Practice Management and Managing Practice Pre-meeting Course: Organizing a Team – How it changed My Practice.** Scoliosis Research Society Meeting, Sept 2020.

Invited Faculty: **VBT: Basics of the Implants and Technical Considerations.** Scoliosis Research Society Meeting, Sept 2020.

Invited Faculty – Stryker Industry Workshop: **Complex Pediatric Deformities: How Have We Evolved in the Past Decade?** Scoliosis Research Society Meeting, Sept 2020.

Invited Faculty: **Complications of Vertebral Body Tethering,** International Meeting on Advanced Spinal Techniques; Athens, Apr 2020

Invited Faculty: **VBT: Mapping your First Case.** Digital Education Series; Apr 10, 2020.

Newton PO, **Miyanji F**, Alanay A, Hoernschemeyer D, Parent S, Lonner B, Neal KM, Blakemore LC, Bastrom TP, Harms Non-Fusion Study Group. **Retrospective Matched Comparison Study on Anterior Vertebral Body Tethering (ABVT) vs. Posterior Spinal Instrumentation and Fusion (PSF) for Primary Thoracic Curves.** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Kwan KY, Yuk Kwan Tang C, Parent S, El-Hawary R, **Miyanji F**, Cheung KMC. **Does LIV Selection Affect Radiographic Outcomes in Vertebral Body Tethering? Analysis of a Prospective Case Series of 102 Patients from the PSSG Database.** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Miyanji F, Newton PO, Lonner B, Alanay A, Hoernschemeyer D, Neal KM, Samdani AF, Bastrom TP, Harms Non-Fusion Study Group. **Predicting Overcorrection in AVBT: Can we Improve Patient Selection.** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Hoernschemeyer D, Boeyer M, Alanay A, Neal KM, Larson N, Groneck A, Parent S, Newton PO, **Miyanji F**, Haber L, Harms Non-Fusion Study Group. **Operative Differences for PSF After VBT: Are We Fusing More Levels in the End?** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Welborn MC, Blakemore LC, Hanford C, Rodgers F, **Miyanji F**, El-Hawary R, Pediatric Spine Study Group, Parent S. **Thoracolumbar Curve Behaviour after Selective Thoracic Anterior Vertebral Body Tethering in Lenke 1A vs. Lenke 1C Curve Patterns.** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Suresh KV, Sponseller PD, Suken SA, **Miyanji F**, Samdani AF, Yaszay B, Newton PO, Jain A, Harms Study Group. **Spinal Fusion Leads to Quality Adjusted Life Year Gains in Cerebral Palsy Patients Sustained up to 5 years after Surgery.** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Spießberger A, Newton PO, Mackenzie WG, Samdani AF, **Miyanji F**, Payhs JM, Shah SA, Sponseller PD, Abel M, Phillips J, Yaszay B. **Posterior Cervical Spinal Fusion in the Pediatric Population Using Modern Adult Instrumentation: Clinical Outcome and Safety.** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Singh S, Rajkumar G, Jayasinghe S, Ghag A, Glotzbecker MP, Lonner BS, Samdani AF, Newton PO, Harms Study Group, **Miyanji F.** **Does intraoperative Vancomycin Powder affect Postoperative Infections in Adolescent Idiopathic Scoliosis.** Scoliosis Research Society Annual Meeting, St. Louis USA; Sept 2021.

Miyanji F, Rushton P, Turgeon I, Nasto LA, Aldebeyan S, Parent S. **Anterior Vertebral Body Tethering in Idiopathic Scoliosis: A Prospective, Multicenter Analysis.** Pediatric Orthopaedic Society of North America Annual Meeting, Dallas USA, May 2021.

Cahill P, Narayanan U, **Miyanji F**, Yaszay B, Parent S. **Impact of Spinal Deformity and Surgery on Health-Related Quality of Life in Cerebral Palsy: A multicenter Prospective Controlled Trial.** Pediatric Orthopaedic Society of North America Annual Meeting, Dallas USA, May 2021.

Mindgren A, Bastrom T, Samdani A, Shah S, **Miyanji F**, Cahill P, Upasani V, Newton P, Yaszay B. **Predictors of Optimal Outcomes of Selective Thoracic Fusion at Five Years.** Pediatric Orthopaedic Society of North America Annual Meeting, Dallas USA, May 2021.

Hariharan A, Shah S, Baldwin M, Petfield J, Lonner B, **Miyanji F**, Newton P, Samdani A, Sponseller P, Yaszay B. **Complications Following Surgical Treatment of Adolescent Idiopathic Scoliosis: 10-year Prospective Follow-up Study.** Pediatric Orthopaedic Society of North America Annual Meeting, Dallas USA, May 2021.

Mishreky A, Parent S, **Miyanji F**, Murphy J, El-Hawary R. **Does Body Mass Index Affect Outcomes of Vertebral Body Tethering Surgery?** Pediatric Orthopaedic Society of North America Annual Meeting, Dallas USA, May 2021.

Miyanji F, Lonner B, Parent S, Alanay A, Hoernschemeyer D, Yaszay B, Shah SA, Blakemore LC, Larsen NA, Haber LL, Yilgor C, Neal KM, Newton PO; Harms Study Group. **A Multicenter Comparative Analysis of AVBT to PSF in the Treatment of Lenke 5 Curves.** International Meeting on Advanced Spine Techniques, Virtual Meeting, April 2021.

Lindgren A, Bastom TP, Bartley CE, Samdani AF, Shah SA, **Miyanji F**, Cahill PJ, Upasani VV, Newton PO, Yaszay B. **Predictors of Optimal Outcomes of Selective Thoracic Fusions at 5 Years.** International Meeting of Advanced Spinal Techniques, Virtual Meeting, April 2021.

Newton PO, Lonner B, Neal KM, Hoernschemyer D, **Miyanji F**, Bastrom TP; Harms Study Group. **Sanders 2 Skeletal Maturity Patients Have the Greatest rate and duration of Post Anterior Tether Scoliosis Correction.** International Meeting of Advanced Spinal Techniques, Virtual Meeting, April 2021.

Newton PO, Parent S, **Miyanji F**, Alanay A, Lonner B, Neal KM, Hoernschemyer D, Yaszay B, Blakemore LC, Shah SA, Harms Study Group. **The Harms Study Group Retrospective Comparison study on Anterior Vertebral Body Tethering (AVBT) versus Posterior Spinal Fusion (PSF) for Primary Thoracic Curves.** International Meeting of Advanced Spinal Techniques, Virtual Meeting, April 2021.

McDonald TC, Varghese JJ, Neal KM, Hoernschemeyer D, Lonner B, Larsen AN, Parent S, **Miyanji F**, Yaszay B, Newton PO, Harms Study Group, Shah SA. **Segmental Spinal Growth Modulation after Vertebral Body Tethering: Hope or Hype?** International Meeting of Advanced Spinal Techniques, Virtual Meeting, April 2021.

Invited Faculty: **ICL: State of the Art: Anterior Vertebral Body Tethering.** American Academy of Orthopedic Surgeons, Mar 2022.

Invited Faculty: **Lunch Time Symposium – Vertebral Body Tethering: Topics for Debate and Discussion; Technical Tips: Level Selection and Tensioning.** Scoliosis Research Society Meeting, Sept 2021.

Invited Faculty: **Facts Not Fiction: What we know and don't know about Tethering vs Fusion for AIS.** Scoliosis Research Society Meeting, Sept 2021.

Invited Faculty: **Thoracic Tethering: Pearls and Complications.** Scoliosis Research Society Meeting, Sept 2021.

Invited Faculty: **Pediatric Orthopedic Surgical Techniques Course (POST).** Memphis USA, Sept 2021.

- a. Presentation: **Femoral Fractures – Proximal and Shaft Fractures**
- b. Presentation: **Growth-friendly Techniques in Scoliosis**
- c. Presentation: **Pedicle Screw, Sacral, and Iliac Fixation**
- d. Hands-on Practical Lab Demonstrations

Invited Faculty: **Nspine Global Spine Meeting**; Portugal/France, Jul 2021.

- e. **Complex Cervicothoracic Deformity**
- f. **Early Fusion without Growth Modulation**
- g. **Thoracoscopic VBT – technique and limitations**
- h. **Update on VBT Outcomes**

Invited Faculty: **Pediatric Spine: Common Problems that Challenge Decision Making**, International Meeting on Advanced Spinal Techniques; Virtual Meeting, April 2021.

Dr. Anthony Cooper

Messner J, Abad J, Davidson S, **Cooper AP**. Orthex versus TSF hexapod frame: Comparing clinical and radiological outcomes in two paediatric cohorts undergoing tibial lengthening. LLRS Virtual meeting. July/August 2020.

Cooper AP, Multicentre Pin site study group. Updates in an International Multicentre Pin Site Infection Study. LLRS Virtual Meeting. July/August 2020.

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 the LIMB-Q Kids. Limb Lengthening and Reconstruction Society (LLRS 2020) Virtual Meeting. July 2020.

Sidhu P, Smith J, Chhina H, Lim B, Pike I, **Cooper AP**. Paediatric elbow fractures: Public playground equipment does not meet the safety standard. Canadian Orthopaedic Association (COA). Virtual Meeting. June 2020.

Gerges M, Eng H, Chhina H, **Cooper AP**. Modernization of bone age: Comparing the accuracy and reliability of artificial intelligence algorithm and short hand bone age to Greulich and Pyle. Canadian Orthopaedic Association (COA). Virtual Meeting. June 2020.

Messner J, Abad J, Chhina H, **Cooper AP**. Orthex versus TSF hexapod frame: Comparing clinical and radiological outcomes in two paediatric cohorts undergoing tibial lengthening. Canadian Orthopaedic Association (COA). Virtual Meeting. June 2020.

Chhina H, Klassen A, Kopec J, Oliffe JL, **Cooper AP**. What matters to children and adolescents with lower limb deformities: An international qualitative study informing the development of the LIMB-Q Kids. Canadian Orthopaedic Association (COA). Virtual Meeting. June 2020. (Trainee Presentation)

Gerges M, Eng H, Chhina H, **Cooper AP**. Modernization of bone age: Comparing the accuracy and reliability of artificial intelligence algorithm and short hand bone age to Greulich and Pyle. Limb Lengthening and Reconstruction Society (LLRS 2020) Virtual Meeting. July/August 2020.

A Pilot Study To Assess Dynamic Deformation Of The Femoral Head During Weight Bearing In Perthes Disease, E2i Fall 2020 Research Forum, Virtual Presentation, Nov. 27th, 2020

Gibbard M, Ponton E, Sidhu V, Farrell S, Bone J, Wu L, Schaeffer E, **Cooper AP**, Aroojis A, Global Pediatric Orthopaedic Group, Mulpuri K. Impact of COVID-19 on Paediatric Orthopaedic Surgery Practice. Canadian Orthopaedic Association (COA). Virtual Meeting. June 17th, 2021.

Chhina H, Klassen A, Kopec J, Oliffe JL, **Cooper AP**. Establishing the content validity of LIMB-Q Kids – A new patient reported outcome measure for children with lower limb deformities. Canadian Orthopaedic Association (COA). Virtual Meeting. June 17th, 2021.

Baraza N, Chhina H, Panchal M, **Cooper AP**. Health Related Quality of Life in Children with Fibular Hemimelia. Canadian Orthopaedic Association (COA). Virtual Meeting. June 17th, 2021.

Cooper AP. Planning and Technical Pearls for the Use of Magnetic Lengthening Nails in the Femur (Symposium). Canadian Orthopaedic Association (COA). Virtual Meeting. June 18th, 2021.

Wang A, Chhina H, Gillian L, **Cooper AP**. Preventative Multimodal Analgesia for Patients Undergoing Lower Limb Reconstruction with External Fixators; A Prospective Study of Postoperative Pain. Limb Lengthening and Reconstruction Society 2021, 30th Annual Scientific Meeting. July 16th, 2021. (Trainee Presentation).

Chhina H, Klassen A, Kopec J, Oliffe J, **Cooper AP**. Establishing the Content Validity of LIMB-Q Kids – A New Patient-Reported Outcome Measure for Children with Lower Limb Deformities. Limb Lengthening and Reconstruction Society 2021, 30th Annual Scientific Meeting. July 16th, 2021.

Baraza N, Chhina H, Panchal M, **Cooper AP**. Functional Outcomes in the Treatment of Fibula Hemimelia – the 5-year Experience of a Regional Children's Hospital. Limb Lengthening and Reconstruction Society 2021, 30th Annual Scientific Meeting. July 16th, 2021. (Trainee Presentation).

Chhina H, Klassen A, Kopec J, **Cooper AP**. What matters to children with lower limb differences: development of a new patient reported outcome measure. Putting Patients First 2022: Listening, Collaborating and Changing conference. Virtual Meeting. March, 2022.

Dunnion E, Frew M, Jacob J, Zakani S, O'Connor Keith, Bhatnagar T, Chhina H, **Cooper AP**. 3D-Printed foot prosthesis for children with fibular hemimelia. Evidence to Innovation Research Day 2022. February 22, 2022. E2i Best Rapid-Fire 1 Presentation Award. (Trainee Award).

APOS Instructional Course on the "Assessment of Limb Deformity"; Aug. 28, 2021.

Dr. Lise Leveille

"Delay in Diagnosis and Management of Adolescent Anterior Cruciate Ligament Injuries in a Publicly Funded Healthcare System", Canadian Academy of Sport and Exercise Medicine Annual Meeting, April 2020

R.W. McGraw Lectureship, Ortho Update, University of British Columbia, Vancouver, May 2021

"Podium Presentation - Split tendon transfer of the poster tibialis for spastic equinovarus foot deformity: does tendon routing impact post-operative ankle kinematics?" Canadian Orthopaedic Association Annual Meeting, May 2021

"Poster Presentation - Split tendon transfer of the poster tibialis for spastic equinovarus foot deformity: does tendon routing impact post-operative ankle kinematics?" GCMAS Annual Meeting, May 2021

Dr. Emily Schaeffer

"Recommendations for Care of Pediatric Orthopaedic Patients during COVID-19." BC Children's Hospital Research Institute COVID-19 Seminar. May 2020.

"Global Hip Health Surveillance Systems: BC and Beyond." Global Health Information Systems Lunch and Learn. September 2020.

“Observation vs Bracing in Developmental Dysplasia of the Hip: A non-inferiority RCT.” Evidence to Innovation Methodology Rounds. March 2021.

Jivraj B, **Schaeffer EK**, Bone J, Stunden C, Habib E, Jacob J, Mulpuri K. Virtual Reality (VR) to Reduce Pain and Anxiety in the Pediatric Orthopaedic Outpatient Setting: A Randomized Controlled Trial. Podium. Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 13, 2020.

Habib E, Krishnaswamy W, **Schaeffer EK**, Mulpuri K. Telehealth & Teleradiology Services at a Tertiary Care Centre. e-Poster. Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 13, 2020.

Juricic M, **Schaeffer EK**, Miller S, Bone J, Shore B, Narayanan U, Mulpuri K. Cerebral Palsy (CP) Hip Outcomes Project (CHOP): Centre Variability in Baseline Presentation and Management. e-Poster. Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 13, 2020.

Wu J, Randhawa M, Siu C, Arneja H, **Schaeffer EK**, Sarkisova N, Mulpuri K, Laine J, Goldstein R. Addressing the Gender Gap in Academic Pediatric Orthopaedics: An Analysis on Female Representation at the Pediatric Orthopaedic Society of North America (POSNA) Annual Meetings. e-Poster. Pediatric Orthopaedic Society of North America Virtual Annual Meeting, May 13, 2020.

So J, El-Hariri H, Sandhu A, Habib E, **Schaeffer EK**, Hodgson A, Garbi R, Mulpuri K. Standard Clinical Ultrasound Machine vs. Wireless Clarius-brand Ultrasound Probe: Could Wireless Probes be an Accurate, More Affordable Alternative? e-Poster. **International** Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, Jun 19-20, 2020.

Chehil A, Habib E, Munoz A, **Schaeffer EK**, Mulpuri K. The Use of Subjective Outcome Measures in the Orthopaedic Surgery Literature. e-Poster. **International** Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, Jun 19-20, 2020.

Juricic M, Miller S, Salazar MG, Fajardo N, **Schaeffer EK**, Farr J, Leveille L, Mulpuri K. Unilateral Hip Reconstruction Surgery for Children with CP. e-Poster. **International** Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, Jun 19-20, 2020.

Teo T, **Schaeffer EK**, Habib E, El-Hawary R, Larouche P, Shore BJ, Aarvold DA, Carsen S, Mulpuri K, Reilly CW. Is the Modified Gartland Classification System Important in Operative versus Nonoperative Decision- Making for Supracondylar Humerus Fractures. e-Poster. **International** Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, Jun 19-20, 2020.

Schaeffer EK, Aroojis A, Shah H, Krishnamoorthy V, Patwardhan S, Sahu C, 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. e-Poster. Pediatric Orthopaedic Society of North America Annual Meeting, Dallas, TX, May 12-15, 2021.

Matthews C, Vasireddi A, Pawliuk C, **Schaeffer EK**, Mulpuri K. Quality Assessment of Surveys Administered to Pediatric Orthopaedic Surgeons. e-Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

Gibbard M, Zivkovic I, Jivraj B, **Schaeffer EK**, Robillard J, IHDR KT Advisory Board Mulpuri K. A global survey of patient and caregiver experiences throughout care for developmental dysplasia of the hip. e-Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

Habib E, Sanatani G, Wu JK, **Schaeffer EK**, Fu Z, Mulpuri K, Hu K, Shea K, Yang J. Developmental dysplasia of the hip: care

practices of pediatric orthopaedic surgeons in China. e-Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

Siu C, **Schaeffer EK**, Bone JN, Sandhu A, Sachsaler P, Sabar S, Carsen S, Reilly CW. Inter-rater agreement levels of lateral humeral capitellar angle and Baumann's angle measurements for Type II supracondylar humerus fractures. e-Poster. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

Grzybowski G, Bliven E, Cesconetto AC, Mundy C, Wu L, Krishnaswamy W, **Schaeffer EK**, Mulpuri K. Caregiver experience using non-surgical treatment options for developmental dysplasia of the hip in children. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

Gibbard M, Ponton E, Sidhu V, Farrell SE, Bone JN, Wu L, **Schaeffer EK**, Cooper AP, Aroojis A, Global Pediatric Orthopaedic Group, Mulpuri K. Impact of COVID-19 on pediatric orthopaedic surgery practice. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

Juricic M, **Schaeffer EK**, Miller S, Shore BJ, Narayanan U, Mulpuri K. Cerebral Palsy (CP) Hip Outcomes Project (CHOP): Centre variability in baseline presentation and management. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

Carsen S, Siu C, **Schaeffer EK**, Mulpuri K, Canadian Pediatric Orthopaedic Elbow Study Group, Reilly CW. Variation in operative and non-operative treatment rates for pediatric Gartland Type II supracondylar humerus fractures across multiple Canadian centres. Podium. International Combined Orthopaedic Research Societies/Canadian Orthopaedic Association Virtual Annual Meeting, June 15-19, 2021.

"How to Write a Compelling Research Grant." Indian Orthopaedic Association Wadia Foundational Series. July 2021.

"How to get involved in international collaborations." Indian Orthopaedic Association Wadia Foundational Series. July 2021.

Grants/Funding Received

Granting Agency	Title	COMP	\$ Per Year	Year	Principle Investigator	Co-Investigator(s)
BC Children's Hospital Research Institute Investigator Establishment Award	Pediatric orthopaedic hip research program	C	\$250,000 Total	01/2015 to 12/2020	K Mulpuri	
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 USD Total	01/2017 to 12/2020	K Mulpuri E Schaeffer (Co-PI)	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 Total	01/2018 to Present	K Mulpuri	E Schaeffer
Centre for International Child Health	China Care Pathway Development and Knowledge Exchange Project	C	\$40,000 Total	08/2019 to Present	K Mulpuri	E Schaeffer (Co-PI)
Canadian Institutes of Health Research	Advanced MR Imaging of Perthes Disease to Improve Treatment	C	\$451, 352 Total	07/2019 to 07/2023	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 Total	11/2019 to 12/2025	K Mulpuri E Schaeffer (Co-PI)	A Joeris
Canadian Institutes of Health Research	Long-Term Outcomes of Hip Interventions for Children with	C	\$822,376 Total	07/2019 to 07/2025	U Narayanan	D Fehlings K Graham P Gross R Hamdy

	Cerebral Palsy - An International Multi-Centre Prospective Comparative Cohort Study (CHOP-II)					K Mulpuri M Park E Pullenayegum B Shore T Theologis
BC Children's Hospital Foundation	Peterson Fund for Global Hip Health	NC	\$500,000 Total	06/2020 to 06/2023	K Mulpuri	E Schaeffer (Co-PI)
British Columbia Orthopaedic Association	PedORTHO: A prospective multicenter observational registry of orthopaedic trauma and health outcomes in skeletally immature children	C	\$25,000 Total	10/2020 to 12/2025	K Mulpuri E Schaeffer (Co-PI)	A Joeris
BC Children's Hospital Research Institute	Evidence to Innovation	NC (team grant)	\$250,000 Total	01/2015 to 12/2020	K Mulpuri I Pike	
POSNA Clinical Trials Grant	Effect of Mix-Metal Instrumentation on Blood Metal Ion Levels in Scoliosis			2020	F Miyanji	
Rare Disease Foundation	International registry for congenital pseudarthrosis of the tibia	C	5,000 Total	03/2019-03/2020	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 Total	06/2019-06/2022	A Cooper	
Canadian Institute of Health Research	Advanced MR Imaging of Perthes Disease to Improve Treatment	C	450,000 Total	07/2019-07/2023	K Mulpuri	D Wilson, A Cooper , D Rosenbaum, E Schaeffer
Rare Disease Foundation	Exome Sequencing in Congenital Pseudarthrosis of Tibia	C	5,000 Total	09/2019-09/2020	A Cooper	
Pediatric Orthopaedic Society of North America	Observation vs Bracing in dysplastic stable hips in infants	C	\$30,000	06/2021	K Mulpuri	E Schaeffer
E2i Seed Grant	Design and Fabrication of Patient-Specific 3D printed foot	C	10,000	03/2021-03/2023	A Cooper	

	prosthesis for Patients with Fibular-Hemimelia - Pilot study					
BC Children's Hospital Foundation	Limb Lengthening Research Program	C	290,000	03/2021-03/2026	A Cooper	
BC Children's Hospital Foundation - CICH Global Health Seed Grant Award	"Global Health Fellowship- Pediatric Orthopaedic Surgery: A joint initiative of the University of British Columbia, the University of Rwanda, the Centre for International Child Health and the Arrowsmith Global Health Partnership"	C	40,000	2021-2022	A Cooper	Dr. Jean Claude Byiringiro
BC Children's Hospital Foundation – Childhood Diseases 2022 Seed Grant	Evaluating family-centered care in specialty clinics at BC Children's Hospital: parents', adolescent patients', and health care providers' perspectives	C	25,000	2022-2023	Alison M. Elliott	A Cooper
BCCH Research Institute	Quality of Motion during Performance of Athletic Movements in a Healthy Pediatric Population through Analysis of Lower Extremity Kinematics and Kinetics	C	10,000	2021	Lise Leveille	Chris Reilly, Tim Bhatnagar
BCCH Research Institute	A pilot project to assess changes in Motion, Centre of Pressure, Fluidity of Movement and Range of Motion in adolescent patients undergoing	C	10,000	2021	Gillian Lauder	Lise Leveille, Tim Bhatnagar

	myoActivation for chronic pain related to myofascial dysfunction					
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Committee Participation

Dr. Christopher Reilly

Centre for Hip Health (Member)
CFRI/BCCHRI (Member)
Faculty Advisory Committee, UBC Department of Orthopaedics (Member)
Orthopaedic Academic Council Committee, UBC Department of Orthopaedics (Member)
Resident Program Committee, UBC Department of Orthopaedics (Member)
Chair, Competency of Care Committee, UBC Department of Orthopaedics (Member)
Chair Department of Orthopaedics Ad Hoc Department Head Selection Committee (Member)
Faculty of Medicine, Orthopaedic Department Head Selection Committee 2020 (Member)
Surgical Services Advisory Committee (SSAC) (Member)
The Department of Pediatric Surgery Surgical Cabinet (Member)
Department Heads, Division Heads and Senior Medical Directors Committee (Member)
CST Design Work for Ambulatory (Member)
SSC Project TCON (Complex Orthopaedic) Committee (Member)
Ambulatory Leadership Committee (Member)
Pediatric Society of North America (Member)
Association of Surgical Educators (Member)
Canadian Orthopaedic Association (Member)
Scoliosis Research Society (Member)
American Academy of Orthopaedic Surgeons (Member)
International Pediatric Orthopaedic Think Tank (Member)

Dr. Christine Alvarez

Appointment, Reappointment, Promotion, Tenure (ARPT) Committee, Department of Orthopaedics, UBC (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)

Dr. Kishore Mulpuri

Child Health BC Hip Surveillance Program for Children with CP (Medical Lead)
International Perthes Study Group (Member)
Canadian Pediatric Orthopaedic Group (Member, Founding president)

Medical and Allied Staff Engagement Society (Project Chair)
BCCHR Evidence to Innovation (Theme Co-lead)
Canadian Orthopaedic Association (President)
BC Children's Hospital Research Institute Research Leadership Council (Member)
Faculty Mentoring Program, BC Children's Hospital Research Institute (Member)
Evidence Informed Care for Children with Cerebral Palsy in British Columbia Advisory Committee (Member)
I'm a HIPpy Foundation Medical Advisory Board (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)
American Academy of Orthopaedic Surgeons (Member)
American Academy for Cerebral Palsy and Developmental Medicine (Member)
Centre for Hip Health and Mobility (Member)
POSNA Research Committee (Member)
Cerebral Palsy Association of British Columbia Advisory Committee (Member)

Dr. Firoz Miyanji

Scoliosis Research Society Appointed Board of Director
Chair – Spine Section; International Pediatric Orthopedic Society (IPOS)
Chair Elect - Scoliosis Research Society Quality and Safety Committee
Appointed Executive Committee Member - Setting Scoliosis Straight Foundation (Harms Study Group)
Scoliosis Research Society Editorial Board – Experience Learning Modules
Scoliosis Research Society Blended Learning Task Force
POSNA Educational Course Committee Member
Board Member – Setting Scoliosis Straight Foundation (Harms Study Group)
AO TK Deformity, Tumour, Fracture Committee
Board of Directors – POSNA
Scoliosis Research Society Program Committee
Scoliosis Research Society World Wide Committee
Fellowship Director – Pediatric Spine Fellowship, UBC Department of Orthopedics
Core Member Growing Spine Study Group
Core Member Harms Deformity Study Group
Scoliosis Research Society – Active Fellow
Canadian Paediatric Spinal Deformity Study Group
Resident Training Committee – UBC Department of Orthopedics
Paediatric Orthopedic Society of North America – Active Member

Canadian Spine Society

Dr. Anthony Cooper

Member, BC Trauma Steering Committee, BC Children's Hospital
Research Group Co-Lead, Clinical Practice, Outcomes & Innovation, Evidence to Innovation (E2i), BC Children's Hospital Research Institute
Member, BC Children's Hospital BioBank Biospecimen Advisory Committee
Physician Representative BC Children's Hospital Medical Device Reprocessing Department Review (MDRD)
Fellowship Director, University of British Columbia's Pediatric Orthopaedic Fellowship
Physician Lead Orthopaedic Clinic Redevelopment Project
Member, Childkind Task Force, BC Children's Hospital
Active Member, Pediatric Orthopaedic Society of North America (POSNA)
Mentorship Committee, Pediatric Orthopaedic Society of North America (POSNA)
Research Committee, Pediatric Orthopaedic Society of North America (POSNA)
Chair, Canadian Paediatric Orthopaedic Group (CPOG) Research Committee
Member, Dept of Orthopedics Equity, Diversity and Inclusion committee
Member, UBC Orthopaedic residency program curriculum committee
Member, Department of Orthopaedics strategic planning committee

Dr. Arvinder Ghag

UBC Department of Orthopaedics Residency Program and Curriculum Committees
Pediatric Orthopaedics Representative and BCCH Resident Site Director
UBC Department of Orthopaedics Continuing Education Committee
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 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. Lise Leveille

UBC Orthopaedic Resident Interview Committee
Director Medical Undergraduate Education, Department of Orthopaedics
UBC Resident Peer Supporter
BCCH Orthopaedic Clinic Optimization Working Group
BCCH Pain and Comfort Committee Member
Member, PRISM Motion Analysis Research Interest Group
Member, Gait and Clinical Movement Analysis Society
Member, Canadian Academy of Sport and Exercise Medicine
Member, Pediatric Research in Sports Medicine Society
Member, Pediatric Orthopaedic Association of North America
Member, Canadian Orthopaedic Association
Member, British Columbia Medical Association
Member, Canadian Medical Association

Dr. Emily Schaeffer

Canadian Orthopaedic Association (Member)
Canadian Pediatric Orthopaedic Group (Member)
Canadian Orthopaedic Research Society (Member)
Golden Key International Honours Society (Member)
Symbiosis Planning Team, Mentorship Action Committee Member

Publication Records

Dr. Christopher Reilly

1. Ronsley R, Islam N, Kang M, et al. Effects of Bisphosphonate Therapy on Bone Mineral Density in Boys with Duchenne Muscular Dystrophy. *Clin Med Insights Endocrinol Diabetes*. 2020;13:1179551420972400. Published 2020 Dec 6. doi:10.1177/1179551420972400
2. Teo TL, Schaeffer EK, Habib E, et al. Is the modified Gartland classification system important in deciding the need for operative management of supracondylar humerus fractures?. *J Child Orthop*. 2020;14(6):502-507. doi:10.1302/1863-2548.14.200093
3. Leveille LA, Ladner TV, Sidhu P, Reilly CW. DELAY IN DIAGNOSIS AND MANAGEMENT OF ADOLESCENT ANTERIOR CRUCIATE LIGAMENT INJURIES IN A PUBLICLY FUNDED HEALTHCARE SYSTEM. *Orthop J Sports Med*. 2020;8(4 suppl3):2325967120S00229. Published 2020 Apr 30. doi:10.1177/2325967120S00229
4. Yen P, Bucevska M, Reilly C, Verchere C. Can Tissue Expansion Reconstruction in the Trunk of Children Increase the Risk of Scoliosis?. *Plast Surg (Oakv)*. 2021;29(2):88-97. doi:10.1177/2292550320933671
5. Banting N, Schaeffer EK, Bone J, et al. Inter-rater and Intra-rater Reliability in the Radiographic Diagnosis of Growth Arrest in Paediatric Physeal Fractures. *Indian J Orthop*. 2021;55(Suppl 2):445-451. Published 2021 May 17. doi:10.1007/s43465-020-00327-9

Dr. Kishore Mulpuri

1. 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 B*. 2020;29(6):517-522. doi:10.1097/BPB.0000000000000707
2. Farrell S, Schaeffer EK, Mulpuri K. Recommendations for the Care of Pediatric Orthopaedic Patients During the COVID-19 Pandemic. *J Am Acad Orthop Surg*. 2020;28(11):e477-e486. doi:10.5435/JAAOS-D-20-00391
3. Schaeffer EK, Bone JN, Mulpuri K. Do No Harm: Considerations for Pediatric Orthopaedic Practice During the Coronavirus Pandemic. *J Am Acad Orthop Surg Glob Res Rev*. 2020;4(5):e2000055. doi:10.5435/JAAOSGlobal-D-20-00055
4. Smit K, So J, Schaeffer E, Armstrong L, Verchere C, Mulpuri K. The Orthopaedic Management of Human Disorganization Syndrome. *J Am Acad Orthop Surg Glob Res Rev*. 2020;4(6):e20.00059. Published 2020 Jun 15. doi:10.5435/JAAOSGlobal-D-20-00059
5. Harper P, Joseph BM, Clarke NMP, et al. Even Experts Can Be Fooled: Reliability of Clinical Examination for Diagnosing Hip Dislocations in Newborns. *J Pediatr Orthop*. 2020;40(8):408-412. doi:10.1097/BPO.0000000000001602
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Dr. Anthony Cooper

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Dr. Arvinder Ghag

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Dr. Lise Leveille

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Dr. Emily Schaeffer

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Initiatives in Progress

Dr. Christopher Reilly

1. Adductor Canal Block in ACL reconstruction, a retrospective review
2. Quadriceps reconstruction in the management of habitual patellar instability
3. Management of type II supracondylar fractures
4. Prospective ACL database

Dr. Kishore Mulpuri and Dr. Emily Schaeffer

The Hippy Global Registry Program:

1. The International Hip Dysplasia Registry (IHDR) – An analysis of risk factors, screening programs and treatment outcomes (~5000 patients recruited, 36 centres, 11 countries, 5 continents)
Predictors of avascular necrosis of the femoral head after open or closed reduction for DDH
Predictors of femoral nerve palsy after brace treatment for DDH
Comparative effectiveness studies including rigid vs. dynamic brace
RCT – observation vs. brace in radiologic dysplasia
2. The SCFE Longitudinal International Prospective (SLIP) Registry – A comparative assessment of surgical treatments (~350 patients recruited, 28 centres, 8 countries, 5 continents)
Variability in baseline presentation and management of patients across centres contributing to SLIP
Preliminary comparative effectiveness studies – in situ pinning vs. modified Dunn; need for prophylactic pinning
3. AO PedORTHO/Global PedORTHO – Pediatric musculoskeletal trauma registries focusing on 7 fracture types in AO PedORTHO, expanded number in global PedORTHO (AO PedORTHO actively recruiting at BCCH, 19 other centres globally; Global PedORTHO in development)
4. Rare Hip Conditions Registry (RHCR) - ~30 hip conditions that are not represented in other major study group/registry initiatives; project in development
5. Implant Safety & Efficacy Study – Partnership with the Cooper Lab and Orthopediatrics to monitor safety and efficacy of OP implants used in pediatric orthopaedic surgeries (BCCH open for recruitment, database near completion, other centre onboarding to come)

Contribution to multicentre studies:

1. CHOP – CP Hip Outcomes Project led by Sick Kids, Toronto
2. IPSG – International Perthes Study Group led by Texas Scottish Rite

Completion of prospective trauma studies:

1. Management of Type II supracondylar fractures
2. Clinical prediction model for growth arrest

Care Pathway work (DDH and CP):

1. Development of a DDH Care Pathway complete in India, implementation meeting in July in Mumbai
2. DDH care pathway work underway in Sri Lanka, preliminary work in Saudi Arabia, China, Pakistan, Colombia, Brazil
3. CP Care pathway/hip surveillance developed in India, implementation meeting in July in Mumbai
4. Preliminary CP pathway work underway in Brazil

Hip Hope Network:

1. Strategic planning, development of network pillars and strategic priorities complete
2. Official launch following POSNA, May 2022

Dr. Firoz Miyanji

1. Topical Tranexamic Acid in Major Pediatric Spine Deformity Surgery: A Randomized Controlled Trial.
2. FUTURE: Fusionless Treatment of Idiopathic Scoliosis with the Scoli-Tether System During the Growth Period.
3. Serum Metal Ion Levels Post Multi-Level Spine Surgery.
4. Non-Fusion Spinal Deformity Correction in Idiopathic Scoliosis – A prospective, multi-center registry study of the Harms Study Group.
5. A Prospective, Multi-center Database Registry of Scoliosis Outcomes in AIS (Op and Non-op).
6. A Prospective, Multi-center Database Registry of Early Onset Scoliosis.
7. A Prospective, Multi-center Database Registry of Scoliosis Outcomes in Cerebral Palsy (Op and Non-op).
8. Retrospective Multi-center Study of the Outcomes of Anterior Vertebral Body Tethering for Spinal Deformity Correction in Idiopathic Scoliosis.
9. Post-operative Motion Analysis following Vertebral Body Tethering
10. Comparative Analysis of post-op motion between PSIF and Vertebral Body Tethering.

Dr. Anthony Cooper

1. Development of a Quality of Life Instrument for Children with Lower Limb Deformities. Qualitative phase finished, ongoing field testing (60% complete).
2. Observational Study of Children with Limb Problems (Limb Deformity Database). Recruitment in progress (382 patients recruited, recruitment ongoing, longitudinal study).
3. Multicentre Pin Site Infection Study. Recruitment in progress at 12 centres / ethics applications in progress at 6 of the centres (150 patients recruited, 60% complete, draft manuscript in progress).
4. Next Generation Sequencing in Rare Disorders: Congenital Pseudarthrosis of the Tibia. Recruitment in progress. (6 patients recruited).
5. Simple Bone Cysts in Kids (SBoCK). Recruitment in progress (1 patient recruited).
6. Evaluating the Accuracy of the Multiplier Method for Estimating the Difference in Leg Lengths in Children with Vascular Anomalies. Phase 1 completed. (Patient call-back in progress for phase 2).
7. Preventative Multimodal Analgesia for Children Undergoing Lower Limb Reconstruction with External Fixators: A Prospective Study of Postoperative Pain. Recruitment in progress (29 patients recruited, manuscript ready for re-submission).
8. Weight-bearing MRI in Perthes. Pilot paper published, more data collection in progress (60% complete).

9. Psychological Assessment in Mothers with DDH babies. Data collection completed (Manuscript submitted to JPO).
10. International CPT Registry. Recruitment in progress (8 patients recruited at BCCH, ethics in progress at other sites).
11. International Limb Differences Registry. Design phase (Protocol under review with REB).
12. Rabbit Femur Project - HA coated pins versus non-HA coated pins. Protocol in development (design phase).
13. Knee Range of Motion Study. Data collection complete (Data analysis in progress).
14. SCH Type 1 RCT. Recruitment in progress at BCCH and QCH, Brisbane (51 participants recruited).
15. Natural History of Morquio B Study. Database development complete (Recruitment pending ethics approval from sites).
16. Morquio-B Case Report. Data collection completed (Draft manuscript in progress).
17. Functional outcomes in children undergoing external fixation. Data collection complete (Manuscript preparation in progress).
18. Design and Fabrication of Patient-Specific Shoe Insoles for Patients with Fibular Hemimelia. Data collection complete (Data analysis and manuscript in progress).
19. Gait Analysis in children with lower limb deformities - Proposal in progress.
20. Inter and intra rater reliability of Checketts Grading Data collection complete (Manuscript preparation in progress).
21. Epidemiology of Limb reduction defects. Data collection complete. (Manuscript preparation in progress).
22. Strategies in the Management of the Proximal Tibiofibular Joint in Lower Extremity Lengthening. Data collection complete. (Data analysis and manuscript preparation in progress).
23. CT Guided Physeal Bar Resection – A Case Series. Data collection complete (Data analysis and manuscript preparation in progress).
24. Automated skeletal radiograph segmentation and calculation of lower limb axes. Data collection complete (Data analysis and manuscript preparation in progress).

Dr. Lise Leveille

1. Prospective ACL Registry/Collaboration with Brisbane
2. Development of Pediatric Sports research program
3. Gait Lab projects
4. Contributing to Implant Safety and Efficacy Study

Dr. Andrea Simmonds

1. Lived experiences of patients who have undergone corrective surgery for adolescent idiopathic scoliosis at British Columbia Children's Hospital: A phenomenological study
2. Proof of concept study: nasal photodisinfection to decolonize the nares prior to surgery and reduce peri-operative infections
3. Development of a pediatric orthopaedic adverse event reporting system at BCCH

DIVISION OF PEDIATRIC OTOLARYNGOLOGY

2020-2022



FACULTY MEMBERS



Neil K Chadha
Division Head
Clinical Associate Professor



Dr. Frederick Kozak
Clinical Professor



Dr. Paul Moxham
Clinical Associate Professor



Dr. Jeffrey Ludemann
Clinical Professor



Dr. Ronak Rahmanian
Clinical Lecturer



Dr. Mark Felton
Clinical Assistant Professor

Highlights and Achievements

Name	Highlights/Achievements
Neil Chadha	Program Committee Member for American Society of Pediatric Otolaryngology Annual Meeting (Converted to Virtual Meeting)
Neil Chadha	Promotion to Clinical Professor, Department of Surgery, Faculty of Medicine
Neil Chadha	Co-Chair of the new BC Children's Hospital Foundation Physician Steering Committee
Neil Chadha	Program Committee Member for American Society of Pediatric Otolaryngology Annual Meeting (Dallas, Texas)
Frederick Kozak	Past President, Canadian Society of Otolaryngology Head and Neck Surgery

Teaching Activities

Fellows Supervised

Name	Country of Origin	Dates Supervised
Carolina Grau	Chile	July 2018 – June 2020
Katherina Leitmeyer	Switzerland	July 2019 – June 2020
Nick Fitzpatrick	Australia	July 2020 – June 2021
Amjad Tobia	Israel	July 2021 – June 2022

Residents Supervised

Name	Dates Supervised
UBC Otolaryngology Residents	April 2020 – May 2022
UBC Pediatric Residents	April 2020 – May 2022
UBC Allergy and Immunology Clinical Fellows	April 2020 – May 2022

Students Supervised

Name	Student Type	Dates Supervised
UBC Medical Students	MS1 3,4,5	April 2020 – May 2021
Vincent Hou	FLEX	July 2020 – March 2022

Scholarly & Professional Activities

Presentations/Lectures

Name	Highlights/Achievements
Jeffrey Ludemann	SENTAC and Aerodigestive Society Combined Meeting, Nashville, Virtual, Dec 4-5, 2020
Neil Chadha	SENTAC and Aerodigestive Society Combined Meeting, Nashville, Virtual, Dec 4-5, 2020
Jeffrey Ludemann	American Academy of Pediatrics / American BronchoEsophageal Association Button Battery Task Force Meeting, Dec 9, 2020
Neil Chadha	American Society of Pediatric Otolaryngology Annual Meeting, Virtual, April 7-11, 2021
Jeffrey Ludemann	ESPO Online Course on Laryngomalacia, Jan 22, 2021 (part 1) & March 12, 2021 (part 2) – 4 hrs
Jeffrey Ludemann	SENTAC Webinar on Complex Pediatric OSA, March 24, 2021 – 1.5 hrs
Jeffrey Ludemann	Combined Otolaryngology Spring Meeting, on-line, April 7-11 2021
Neil Chadha	American Society of Pediatric Otolaryngology Annual Meeting, Dallas, Texas, 2022
Jeffrey Ludemann	BC Otolaryngology Society Meeting, May 27, 2021
Jeffrey Ludemann	CSO Pediatric Study Group Meeting, Aug 25, 2021
Jeffrey Ludemann	14th McGill International Pediatric Otolaryngology Congress, Sept 20, 2021.
Jeffrey Ludemann	ESPO 2021, Marseilles, on-line, Marseille, Nov 6-8 2021
Jeffrey Ludemann	SENTAC Annual Meeting, Phoenix, on-line, Dec 3-4, 2021
Jeffrey Ludemann	American Academy of Pediatrics / American BronchoEsophageal Association Button Battery Task Force Meeting, April 19, 2021
Jeffrey Ludemann	Saegis (CMPA affiliated) Course on Effective Team Interactions (7 hours, online classroom: 4 weekly meetings, plus homework assignments), Completed April 13, 2021

Grants/Funding Received

Granting Agency	Title	COMP	\$ Per Year	Year	Principle Investigator	Co-Investigator(s)
Rare Diseases Foundation	3D printing for laryngeal framework surgery simulation	C	5000	2020	Neil K Chadha, John Jacob	
BCCHRI Evidence 2 Innovation Grant	3D printing for ossiculoplasty pre-fitting	C	10000	2020	Neil K Chadha, John Jacob	Mark Felton
UBC Strategic Investment Fund	Sleep Lab at Home	C	98000	2021-2022	David Wensley	Neil K Chadha, Mark Ansermino, Kim Schmidt

Committee Participation

Name	Committee
Neil Chadha	UBC Otolaryngology Resident Competency Committee
Neil Chadha	UBC Otolaryngology Residency Training Committee
Neil Chadha	UBC Otolaryngology Executive Committee
Neil Chadha	UBC Otolaryngology Fellowship Committee
Neil Chadha	UBC Otolaryngology Research Committee
Neil Chadha	BC Children's Hospital Capital Equipment Prioritization Committee
Neil Chadha	UBC Otolaryngology Research Committee
Neil Chadha	American Society of Pediatric Otolaryngology Program Committee
Neil Chadha	BC Children's Hospital Complex Aerodigestive Team (Director)
Neil Chadha	BC Children's Hospital Surgical Cabinet
Neil Chadha	Clinical Otolaryngology Journal Editorial Board
Frederick Kozak	Statutory Negotiating Committee SNC, Doctors of BC
Frederick Kozak	Negotiations Coordinating Group NCG, Doctors of BC
Frederick Kozak	UBC Otolaryngology Resident Competency Committee
Frederick Kozak	UBC Otolaryngology Residency Training Committee Program Director

Frederick Kozak	Scientific Program Chair, IFOS 2021
Frederick Kozak	Royal College of Physicians and Surgeons of Canada Specialty Committee, Otolaryngology Head and Neck Surgery
Frederick Kozak	Executive Committee, UBC Otolaryngology Head and Neck Surgery
Frederick Kozak	Surgical Foundation Resident Education Committee, UBC Dept. of Surgery
Frederick Kozak	UBC Competence Based Medical Education Sub Committee PGME
Frederick Kozak	Resident Selection Committee, UBC Division of Otolaryngology Head and Neck Surgery
Frederick Kozak	Pediatric Otolaryngology Study Group Canadian Society of Otolaryngology Head and Neck Surgery
Frederick Kozak	Executive Council, Canadian Society of Otolaryngology Head and Neck Surgery

Publication Records

Name	Publication Citation
Neil Chadha, Frederick Kozak	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.
Neil Chadha	Lustig LR, Ingram A, Vidrine DM, Gould AR, Zeiders JW, Ow RA, Thompson CR, Moss JR, Mehta R, McClay JE, Brenski A, Gavin J, Waldman EH, Ansley J, Yen DM, Chadha NK, Murray MT, Kozak FK, York C, Brown DM, Grunstein E, Sprecher RC, Sherman DA, Schoem SR, Puchalski R, Hills S, Calzada A, Harfe D, England LJ, Syms CA 3rd. In-Office Tympanostomy Tube Placement in Children Using Iontophoresis and Automated Tube Delivery. Laryngoscope. 2020 May;130 Suppl 4:S1-S9.
Neil Chadha	Kim DH, Chadha NK, Nguyen LH, Husein M. Personal protective equipment availability and usage amongst pediatric otorhinolaryngologists during the COVID-19 pandemic: An international survey. Int J Pediatr Otorhinolaryngol. 2020 Nov;138:110349.
Neil Chadha	Cottrell J, Yip J, Campisi P, Chadha NK, Damji A, Hong P, Lachance S, Leita D, Nguyen LH, Saunders N, Strychowsky J, Yunker W, Vaccani JP, Chan Y, de Almeida JR, Eskander A, Witterick IJ, Monteiro E. Quality indicators for the diagnosis and management of pediatric tonsillitis. Int J Pediatr Otorhinolaryngol. 2020 Dec;139:110441.
Neil Chadha, Mark Felton	Leitmeyer K, Felton M, Chadha NK. Strategies for restarting Pediatric Otolaryngology outpatient clinics after a pandemic-related shutdown such as from COVID-19. Int J Pediatr Otorhinolaryngol. 2020 Dec;139:110414
Neil Chadha	Kao KT, Ferguson EC, Blair G, Chadha NK, Chanoine JP. Risk factors for the development of hypocalcemia in pediatric patients after total thyroidectomy - A systematic review. Int J Pediatr Otorhinolaryngol. 2021 Apr;143:110666.
Neil Chadha, Ronak Rahmanian	Leitmeyer K, Heran MK, Chadha NK, Rahmanian R. The use of preoperative CT-guided microcoil placement in localization of a head and neck foreign body. Otolaryngology Case Reports. 2021 June; 19:100287.
Neil Chadha, Frederick Kozak	Amanian A, Chadha NK, Pauwels J, Kozak FK. Mastoid pressure dressing - Current practice amongst Canadian pediatric cochlear implant surgeons. Int J Pediatr Otorhinolaryngol. 2021 Jul;146:110720.

Neil Chadha	Hod R, Lachance S, Chadha NK. Endoscopic cauterisation and injection of Voicegel for treatment of congenital pyriform fossa sinus tracts. <i>Acta Otorhinolaryngol Ital.</i> 2021 Oct;41(5):432-435.
Neil Chadha	McDonough M, Hathi K, Corsten G, Chin CJ, Campisi P, Cavanagh J, Chadha N, Graham ME, Husein M, Johnson LB, Jones J, Korman B, Manoukian J, Nguyen LHP, Sommer DD, Strychowsky J, Uwiera T, Yunker W, Hong P. Choosing Wisely Canada - pediatric otolaryngology recommendations. <i>J Otolaryngol Head Neck Surg.</i> 2021 Oct 29;50(1):61.
Neil Chadha, Frederick Kozak	Luque CG, Atkins-Labelle C, Pauwels J, Costello R, Kozak FK, Chadha NK. Intranasal Dexmedetomidine increases the successful sedation of children with autism for out-patient auditory brainstem response hearing tests. <i>Int J Pediatr Otorhinolaryngol.</i> 2021 Dec;151:110945. doi: 10.1016/j.ijporl.2021.110945. Epub 2021 Oct 19. PubMed PMID: 34736008.
Neil Chadha	Luu K, Tellez PA, Chadha NK. The effectiveness of mitomycin C in Otolaryngology procedures: A systematic review. <i>Clin Otolaryngol.</i> 2022 Jan;47(1):1-13. doi: 10.1111/coa.13839. Epub 2021 Oct 29. PubMed PMID: 34310062.
Neil Chadha, Frederick Kozak	Pauwels J, Lu DYD, Kozak FK, Chadha NK. Spontaneous Resolution of Ear Lidding in Newborns: A Prospective Observational Cohort Study. <i>J Craniofac Surg.</i> 2022 Mar-Apr 01;33(2):e141-e143. doi: 10.1097/SCS.00000000000008129. PubMed PMID: 34636759.
Neil Chadha, Frederick Kozak	Sorichetti BD, Pauwels J, Jacobs TB, Chadha NK, Kozak EL, Kozak FK. High frequency of otolaryngology/ENT encounters in Canadian primary care despite low medical undergraduate experiences. <i>Can Med Educ J.</i> 2022 Mar;13(1):86-89.
Frederick Kozak Neil Chadha	Lustig LR, Ingram A, Vidrine DM, Gould AR, Zeiders JW, Ow RA, Thompson CR, Moss JR, Mehta R, McClay JE, Brenski A, Gavin J, Waldman EH, Ansley J, Yen DM, Chadha NK, Murray MT, Kozak FK, York C, Brown DM, Grunstein E, Sprecher RC, Sherman DA, Schoem SR, Puchalski R, Hills S, Calzada A, Harfe D, England LJ, Syms CA 3rd. In Response to Letter to the Editor Regarding In-Office Tympanostomy Tube Placement in Children Using Iontophoresis and Automated Tube Delivery. <i>Laryngoscope.</i>
Frederick Kozak	Paradis J, Dzioba A, El-Hakim H, Hong P, Kozak FK, Nguyen LHP, Perera D, Propst EJ, Siu JM, Wojtera M, Husein M; National Choanal Atresia Study Working Group. A national study of choanal atresia in tertiary care centers in Canada - part I: clinical presentation. <i>J Otolaryngol Head Neck</i>

	Surg. 2021 Jul 12;50(1):45. doi: 10.1186/s40463-021-00517-x. PMID: 34253250; PMCID: PMC8274042.
Frederick Kozak	Paradis J, Dzioba A, El-Hakim H, Hong P, Kozak FK, Nguyen LHP, Perera D, Propst EJ, Siu JM, Wojtera M, Husein M; National Choanal Atresia Study Working Group. A national study of choanal atresia in tertiary care centers in Canada - part II: clinical management. J Otolaryngol Head Neck Surg. 2021 Jul 13;50(1):46. doi: 10.1186/s40463-021-00503-3. PMID: 34256864; PMCID: PMC8276453.

Initiatives in Progress

Name	Initiative
www.dontchoke.ubc.ca	More than 203,500 viewers since Nov 11, 2013
Frederick Kozak Mark Felton	Cochlear Implantation Simulation – A preliminary study. BCCHRIF E2i Funded

DIVISION OF PEDIATRIC PLASTIC SURGERY

2020-2022



FACULTY MEMBERS



Dr. Cynthia Verchere
Head, Division of Plastic Surgery,
BCCH
Clinical Associate Professor, UBC



Dr. Jugpal Arneja
Clinical Professor, UBC



Dr. Douglas J. Courtemanche
Clinical Professor, UBC



Dr. Erika Henkelman
Clinical Instructor, UBC



Dr. Sally Hynes
Clinical Instructor, UBC



Dr. Sean Bristol
Clinical Associate Professor, UBC



Dr. Saoussen Salhi
Clinical Instructor, UBC

Staff Members

Name	Title
Ms. Norine Mayede	Division Administrative Assistant, Medical Office Assistant to Dr. Verchere
Ms. Audrey Potkonjak	Medical Office Assistant to Dr. Verchere
Ms. Anya Bogatyrova	Medical Office Assistant to Dr. Arneja
Ms. Anastasia Mitzel	Medical Office Assistant to Dr. Arneja
Ms. Rupinder Parhar	Medical Office Assistant to Dr. Courtemanche
Ms. Anvir Parhar	Medical Office Assistant to Dr. Henkelman
Ms. Inder Akali	Medical Office Assistant to Dr. Henkelman
Ms. Sandeep Nahal	Medical Office Assistant to Dr. Hynes
Ms. Wendy Moss	Registered Nurse
Dr. Marija Bucevska	Research Coordinator
Ms. Rebecca Courtemanche	Research Coordinator
Ms. Young Ji Tuen	Research Assistant

Teaching Activities

Fellows Supervised

Name	Country of Origin	Dates Supervised
Dr. Rebecca Hartley	Canada	July 2021 – Present
Dr. Richard Thomson	United Kingdom	July 2020 – June 2021
Dr. Sarah Gardiner	New Zealand	July 2019 – May 2020

Residents Supervised

Name	PGY
Sofie Schlagintweit	PGY 5
Diana Forbes	PGY 4-5
Janine Roller	PGY 4-5
Jacques Zhang	PGY 4-5
Nawaf Al Muqaimi	PGY 4-5
Peter Mankowski	PGY 3-4
Zach Zhang	PGY 3-4
Ahmed Al Hosni	PGY 2-3
Mike Carr	PGY 2-3
Trina Stephens	PGY 2-3
Paige Knight	PGY 1-2
Harpreet Pangli	PGY 1-2
Travis Gordon	PGY 1-2
Matthew Boroditsky	PGY 1
Matthew Carr	PGY 1

Students Supervised

Name	Student Type
Mohammadali Saffarzadeh	Medical Student
Sabrina Ziqi Wei	Medical Student
Dara Drykiss	Medical Student
Amir Watchel	Medical Student
Victoria Sebag	Medical Student
Vanessa Wan	Medical Student
Leeor Yefet	Medical Student
Inayah Manji	Medical Student
Emma Wells-Durand	Medical Student
Angela Buchel	Undergraduate
Mohammadali Saffarzadeh	Medical Student
Taylor Kandler	Medical Student
Safal Parhar	Medical Student
Rebecca Xu	Medical Student
Norbert Banyl	Medical Student
Sahdev Baweja	Undergraduate



Scholarly & Professional Activities

Presentations/Lectures

Dr. Henkelman	Plastic Surgery Grand Rounds: Gender Diverse and Inclusive Surgical Care, Vancouver, BC
Dr. Henkelman	Orthodontic resident teaching: Craniofacial Syndromes for Orthodontists, Vancouver, BC
Dr. Henkelman	T6 Nursing Education Day, BC Childre's Hospital: Nursing Babies with Pierre Robin Sequence, Vancouver, BC
Dr. Henkelman	Cleft and Craniofacial Multidisciplinary Team Continuing Professional Development: Alveolar Bone Grafting with Autologous Bone, Vancouver, BC
Dr. Henkelman	UBC Plastic Surgery CRASH: Communication and Intangibles of Being a Surgery Resident, Vancouver, BC
Dr. Henkelman	17 th Annual Pediatric Emergency Medicine Update: Pediatric Hand Fractures, Vancouver BC
Dr. Henkelman	Genetics resident and fellow teaching: Craniosynostosis and CSO Syndromes for Geneticists, Vancouver BC
Dr. Arneja	UBC Division of Plastic Surgery, COVID Question of the Day Teachings for Plastic Surgery Residents, Vancouver, BC
Dr. Arneja	British Columbia Children's Hospital, Pediatric Emergency Department: Suture Workshop, Vancouver, BC (2021 & 2022)
Dr. Arneja	UBC Division of Plastic Surgery Grand Rounds: Difficult Cases - Recalcitrant anaphylaxis associated with fibrin sealant: Treatment with "Tisseel-ectomy", Vancouver, BC (Virtual event)
Dr. Arneja	UBC Division of Plastic Surgery Grand Rounds: Academic Fund Winner Presentations, Vancouver, BC (Virtual event)
Dr. Arneja	UBC Orthodontics: Core Quest - Orthodontics and Cleft Lip and Palate, Vancouver, BC (2021 & 2022)
Dr. Arneja	ISSVA Online Workshop, Session 5 (Moderator), International Society for the Study of Vascular Anomalies, (Virtual Event)
Dr. Arneja	Pediatric Tumors of the Head and Neck (Invited Panellist), American Society of Plastic Surgery (ASPS) Annual Meeting, Austin, TX (Virtual Event)

Dr. Arneja	Operations & Leadership: Cohort 14, Module 3, Physician Leadership Program, Sauder School of Business, Vancouver, BC (Virtual Event)
Dr. Arneja	Operations & Leadership: Cohort 15, Module 3, Physician Leadership Program, Sauder School of Business, Vancouver, BC (Virtual Event)
Dr. Arneja	UBC Grand Rounds: Rare & Interesting Cases (with Dr. A. MacNeily, Urology)
Dr. Arneja	British Columbia Children's Hospital, Pediatric ENT Academic Half Day, Head and Neck Vascular Anomalies, Vancouver, BC
Dr. Arneja	Operations & Leadership: Cohort 16, Module 3, Physician Leadership Program, Sauder School of Business, Vancouver, BC (Virtual Event)



Grants and Funding Received

Granting Agency	Title	COMP	\$ Per Year	Year	Principle Investigator	Co-Investigator(s)
University of Calgary	Calgary Kids' Hand Rule - External Validation of a Prediction model for Acute Pediatric Hand Fracture Referral	C	5,000	2020	Dr. Arneja	
UBC Plastic Surgery Academic Grant	Using Colors, Icons, and Interactive Sliders in the Design of a Questionnaire: Part 2	C	4,849	2020	Dr. Courtemanche	
UBC	Sup-ER Protocol: A review of the clinical pathways and functional outcomes of children with Erb's Palsy	C	3,200	2020	Dr. Verchere	
UBC	Calgary Kids' Hand Rule - External Validation of a Prediction model for Acute Pediatric Hand Fracture Referral	C	3,200	2020	Dr. Arneja	
UBC	An Assessment of Tissue Expansion on Quality of Life in Pediatric Patients	C	3,200	2020	Dr. Hynes	
BCCHRI	Predicting Pediatric Unplanned Hospital Readmission at BC Children's Hospital	C	3,150	2020	Dr. Arneja and Dr. Courtemanche	
OPSEI	Using Colors, Icons, and Interactive Sliders in the Design of a Questionnaire: Part 2	NC	1,600	2020	Dr. Courtemanche	
UBC Plastic Surgery Academic Grant	Opioid Prescribing Practices in British Columbia: User Types & Long-Term Prescriptions	C	5,000	2020	Dr. Courtemanche	Dr. Lauder, Jeffrey Bone
E2i	Opioid Prescribing Practices in British Columbia Part 2: User Types & Long-Term Prescriptions	C	10,000	2020	Dr. Courtemanche	Dr. Lauder, Jeffrey Bone
OPSEI	Scoping Review of Fibrin Sealants in Plastic Surgery	NC	4,800	2021	Dr. Arneja	
UBC	Burden of Care for Patients with Cleft Lip and Palate	C	3,200	2021	Dr. Arneja	

UBC	Burden of Care for Patients with Cleft Lip and Palate	C	3,150	2021	Dr. Arneja	
NIH	The Velopharyngeal Insufficiency Outcomes Prediction Study	C	41,876 (209,382 total)	2021-2025	Dr. Arneja	

Committee Participation

Dr. Verchere

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

Dr. Courtemanche

- Member, BCCH Cleft Palate Programme Review Committee
- Chair, C&W Clinical Informatics Advisory Committee
- Member, 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
- Member, UBC Plastic Surgery CaRMS Selection Committee
- Member, Doctors of BC FEI Evaluation Committee

Dr. Arneja

- Member, Plastic Surgery Research Council Annual Meeting Abstract Review Committee
- Member, ISSVA Meeting Committee Member
- Chair, ISSVA 2020 Local Organizing Committee
- Vice Chairperson, American Association of Pediatric Plastic Surgeons Executive Committee
- Vice Chairperson, American Association of Pediatrics, Section on Plastic Surgery
- Editor-in-Chief, Plastic Surgery Case Studies
- Editor-in-Chief, Plastic Surgery
- Chair, UBC Division of Plastic Surgery Communications/Newsletter Committee
- Chair, UBC Division of Plastic Surgery Academic Surgery Fund
- Co-chair, BCCH Department of Surgery Manpower Committee
- Member, BCCH Surgical Services Advisory Council
- Member, BCCH Pediatric Surgical Executive Committee
- Member, BCCH Surgical Data Management Committee
- Member, BCCH Medical Advisory Committee
- Chair, BCCH/UBC OPSEI Anastasia Global Care Fund Deliberations Committee
- Associate Chief (Operations), BCCH Department of Surgery and Physician Admitting Officer
- Co-chief Negotiator/Representative, BCCH Department of Surgery Clinical Services Contract
- Chair-elect, American Association of Pediatric Plastic Surgeons
- Chair-elect, American Association of Pediatrics, Section on Plastic Surgery

Dr. Hynes

- Member, VGH/BCCH Burn Program ad hoc Committee
- Member, BCCH Burn Resource Committee
- Member, BCCH Burn Collaborative Leadership Committee

Publication Records

Dr. Verchere Dr. Hynes	Yefet LS, Bellows D, Bucevska M, Courtemanche R, Durlacher K, Hynes S, Verchere C. Shoulder rotation function following the Sup-ER protocol in children with brachial plexus injuries. <i>HAND (NY)</i> . 2020
Dr. Verchere	Smit K, So J, Schaeffer E, Armstrong L, Verchere C, Mulpuri K. The orthopaedic management of human disorganization syndrome. <i>J Am Acad Orthop Surg Glob Res Rev</i> . 2020;4(6):e20.00059.
Dr. Arneja	Tang YMJ, Pawliuk C, Bucevska M, Mulpuri V, Arneja JS. What is driving paradigm shifts in plastic surgery and is cosmetic surgery keeping up? <i>Plast Reconstr Surg</i> . 2020;145(5):1164-1171.
Dr. Arneja	Boroditsky M, Van Slyke A, Arneja J. Outcomes and complications of the Mustardé otoplasty: a “good-fast-cheap” technique for the prominent ear deformity. <i>PRS GO</i> . 2020;8(9):e3103.
Dr. Arneja Dr. Courtemanche	Zhang JX, Wan M, Ding Y, Jin Y, Nagarajan M, Courtemanche DJ, Bedford J, Arneja JS. Do microsurgical outcomes differ based on which specialty does the operation? A NSQIP analysis. <i>PRS GO</i> . 2020;8(4):e2769.
Dr. Courtemanche	Klassen AF, Dalton L, Goodacre TEE, Harman KE, Slator R, Tsangaris E, Courtemanche DJ, Goldstein J, Allen GC, Mahony AO, Wong Riff KKY. Impact of completing CLEFT-Q scales that ask about appearance on children and young adults: an international study. <i>Cleft Palate Craniofac J</i> . 2020;57(7):840-848.
Dr. Arneja	Saffarzadeh M, Mulpuri A, Arneja JS. Recalcitrant anaphylaxis associated with fibrin sealant: Treatment with “TISSEEL-ectomy”. <i>PRS GO</i> . 2021;9(1):e3382.
Dr. Arneja	Carew S, Nagarajan M, Shechter S, Arneja J, Skarsgard E. Dynamic capacity allocation for elective surgeries: Reducing urgency-weighted wait times. <i>Manuf Serv Oper Manag</i> . 2021;23(2):407-424.
Dr. Henkelman	Spyalo K, Courtemanche RJM, Henkelman E. Online cleft educational videos: parent preferences. <i>Cleft Palate Craniofac J</i> . 2021;58(4):525-532.

Dr. Henkelman	Adl H, Henkelman E, Goldman RD. Topical skin adhesives for laceration repair in children. <i>Can Fam Physician</i> . 2021;67(4):260-262.
Dr. Verchere	Manji I, Durlacher K, Verchere C. Correction of neonatal auricular deformities with DuoDERM: A simple technique. <i>Paediatr Child Health</i> . 2021;26(5):270-273
Dr. Verchere	Yen P, Bucevska M, Reilly C, Verchere C. Can tissue expansion reconstruction in the trunk of children increase the risk of scoliosis? <i>Plast Surg</i> . 2021;29(2):88-97.
Dr. Verchere	Bjornson L, Van Slyke AC, Bucevska M, Courtemanche R, Bone J, Knox A, Verchere C, Boyle JC. Something stinks! Finding ways to manage noxious odours in the operating room and other clinical settings a randomized controlled trial. <i>Plast Surg</i> . 2021.
Dr. Arneja	Arneja JS, Gilardino MS. Why do we need a (Canadian) journal? <i>Plast Surg</i> . 2021;29(2):73-74.
Dr. Arneja	Clerc PGB, Arneja JS, Zwimpfer, Charlotte M, Behboudi A, Goldman RD. A randomized controlled trial of virtual reality in awake minor pediatric plastic surgery procedures. <i>Plast Reconstr Surg</i> . 2021;148(2):400-408
Dr. Arneja	ElHawary H, Bucevska M, Pawliuk C, Wang AM, Seal A, Gilardino M, Arneja JS. The presence of ghost publications among Canadian plastic surgery residency applicants: How honest are Canadians? <i>Plast Surg</i> . 2021.
Dr. Arneja	Zawadiuk LRR, Van Slyke AC, Bone J, Redfern B, Carr NJ, Arneja JS. What do we know about treating recalcitrant auricular keloids? A systematic review and meta-analysis. <i>Plast Surg</i> . 2021.
Dr. Arneja	Carr M, Skarlicki M, Palm S, Bucevska M, Bone J, Gosain AK, Arneja JS. Through-and-through dissection of the soft palate for pharyngeal flap inset: A "good-fast-cheap" technique for any etiology of velopharyngeal incompetence. <i>Cleft Palate Craniofac J</i> . 2021
Dr. Arneja	Arneja JS, Bucevska M, Gilardino MS. Decoding plagiarism and academic dishonesty in plastic surgery. <i>Plast Surg</i> . 2021;29(4):233-234.
Dr. Arneja	Gilardino MS, Arneja JS. Reflections of a few former plastic surgery trainees. <i>Plast Surg</i> . 2021;29(3):145-145.

Dr. Arneja	Zhang Z, Calder L, Finestone PJ, Liu R, Bucevska M, Arneja JS. Medico-legal closed case trends in Canadian plastic surgery: A retrospective descriptive study. <i>Plastic and Reconstructive Surgery - Global Open</i> . 2021;9(8):e3754.
Dr. Arneja	Gilardino MS, Carr NJ, Arneja JS. The cosmetic vacuum. <i>Plastic Surgery</i> . 2022;30(1):5-5
Dr. Arneja	Wei S, Forbes D, Hartley RL, Salhi S, Fraulin FOG, Harrop AR, Arneja JS. Pediatric hand fracture outcomes: How often do we need to operate? <i>Plastic Surgery</i> . 2022
Dr. Courtemanche	Breuning EE, Courtemanche RJ, Courtemanche DJ. Experiences of Canadian parents of young children with cleft lip and/or palate. <i>The Cleft Palate-Craniofacial Journal</i> . 2021;58(5):577-586.
Dr. Courtemanche	Quong, W. L., Shih, J. G., Knox, A. D. C., Zhygan, N., Fish, J. S., Courtemanche, D., Brown, M. H. Resident exposure to aesthetic surgical and non-surgical procedures during Canadian residency program training. <i>Aesthetic Surgery Journal</i> , 2021;41(12):1456-1467.
Dr. Courtemanche	Yefet LS, Bone JN, Courtemanche R, Lauder G, Courtemanche D. Opioid prescribing patterns in British Columbia from 2013 to 2017: A population-based study. <i>BCM J</i> . 2021;63(8):336-342.
Dr. Courtemanche	Ponton E, Courtemanche R, Singh TK, Duffy D, Courtemanche DJ, Loock C. Assessing the social determinants of health and adverse childhood experiences in patients attending a children's hospital cleft palate-craniofacial program. <i>The Cleft Palate-Craniofacial Journal</i> . 2021.
Dr. Henkelman	Goldman R, Kong C, Henkelman E. Organic facial foreign body in a ski accident - Instructive case. <i>J Paediatr Child Health</i> . 2021;57(5):723-726.

DIVISION OF PEDIATRIC SURGERY

2020-2022



FACULTY: PEDIATRIC SURGERY



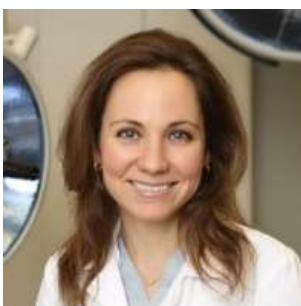
Dr. Erik D. Skarsgard
Professor of Surgery, UBC
Surgeon in Chief, BCCH



Dr. Eric M. Webber
Division Head, Associate
professor UBC



Dr. Sonia A. Butterworth
Clinical Professor, UBC



Dr. Shahrzad Joharifard
Clinical Assistant Professor,
Adjunct Professor (UBC Branch
for Global Surgical Care)



Dr. Hannah G. Piper
Associate Professor, UBC



Dr. Robert Baird
Clinical Associate Professor,
UBC

STAFF MEMBERS

Name	Title
Ms. Lori Paredes	Medical Office Assistant
Ms. Vivian Lau	Medical Office Assistant

Highlights and Achievements

August Pierik (medical student mentee) and Dr. Hannah Piper	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 (June, 2020)
August Pierik (medical student mentee) and Dr. Hannah Piper	Oley Foundation Home Parenteral Nutrition Research Prize. The Utility of an Instructional Video Series in Reducing Central Venous Catheter Complications in Children with Intestinal Failure (July 2020)
Damon Dhillon (student mentee) and Dr. Piper	International poster of distinction, ASPEN Nutrition Science and Practice Conference. The morbidity associated with gastrojejunal feeding tubes in infants
Dr. Hannah Piper	A.D. Mckenzie Clinical Teaching Award, Department of Surgery
Dr. Sonia Butterworth	2021 UBC Faculty of Medicine Award - Clinical Faculty Award for Excellence in Leadership/Service, Mid/Late Career
Dr. Shahrzad Joharifard	Médécins Sans Frontières, South Sudan, October-November 2021

Teaching Activities

Fellows Supervised:

Name	Country of Origin	Dates Supervised
Arash Safavi	United States	July 1, 2018 – June 30, 2020
Ghalya Al-Maawali	Oman	Aug 1, 2019 – July 31, 2021
Martina Mudri	Canada	August 1, 2020 – present
Reem Al-Hinai	Oman	August 2021-present

Residents Supervised:

Name	PGY (ex PGY 2, PGY 2)
7 General Surgery Residents	PGY 2
12 Pediatrics Residents	PGY 2
2 Plastic Surgery Residents	PGY 1

Students Supervised:

Name	Student Type (MD, FLEX, BSc, MSc, PhD, etc.)	Dates Supervised
Dr. Piper supervision:		
Jessica Que	MD – BCCH Summer Student Research Program	Apr 2020 -Dec 2020
Damon Dhillon	MD – Flex Program	July 2020-Nov 2020
Francesca Peters	MD – Flex Program	Apr 2020-Dec 2020
Sara Choi	MD – Summer student research program	Apr 2020-Dec 2020
Francesca Bell Peters	MD – Flex project	Jan 2021-Dec 2021
Sara Choi	MD – Faculty of Medicine Summer Student Research Program	Apr 2021-Sep 2021
Jade Zhong	MD – BCCHRI Summer Student Research Program	Jul 2021-Mar 2022
Dr. Baird supervision:		
Sairvan Fernandes	FLEX (undergrad MD)	June 20 – Mar 21
Wendy Song	FLEX (undergrad MD)	June 21-present
Ashleigh Narareth	FLEX (undergrad MD)	June 21-present
Dr. Joharifard Supervision		
Sophie Carr	FLEX (undergrad MD)	2019-21
Kayoung Heo	FLEX (undergrad MD)	2021-22
Samuel Cheng	FLEX (undergrad MD)	2021-22
Angela Yang	Summer Project	2021-22

Other supervisory activities:

Dr. Sonia Butterworth

Surgical Foundations CRASH	Oct 2020, Surgeon and the University
Surgical Foundations	Jan 2021, Pediatric Trauma
Pediatric Emergency Medicine Update	June 2020, Intussusception
Surgical Foundations	Nov 2021, Pediatric Trauma
Department of Pediatrics - Subspecialty AHD	March 2022, Towards Inclusivity: Addressing the Hidden Curriculum, Bias, and Microaggression
Department of Pediatrics - AHD	Feb 2022, Approach to the Acute Abdomen
Surgical Foundations CRASH	Oct 2021, Surgeon and the University
Pediatric Emergency Medicine Update	June 2022, 8mm: Pediatric Appendicitis
Pediatric Surgery. General Surgery Half Day.	Portal Hypertension. May 5, 2020
Pediatric Surgery. General Surgery Half Day.	Meconium Disease. October 13, 2020
Pediatric Surgery. General Surgery Half Day.	Intussusception. November 3, 2020
Pediatric Surgery. General Surgery Half Day	Oral Exam prep. November 17, 2020
Pediatric Surgery General Surgery Half Day	GI bleed, January 19, 2021
Pediatric Surgery General Surgery Half Day	Portal Hypertension, June , 2022

Pediatric Surgery

2020-2022

Thoracic Surgery- AHD	EA and TEF Academic session. March 5 th , 2021
Pediatric Surgery. General Surgery Half Day	Intussusception. Oct 2021
Pediatric Surgery. General Surgery Half Day	Splenic conditions. May 2020
Pediatric Surgery. General Surgery Half Day	Splenic conditions. May 2021
Pediatric Surgery. General Surgery Half Day	Splenic conditions. May 2022
Pediatric Surgery General Surgery Half Day	Germ Cell Tumors April 2020
Pediatric Surgery General Surgery Half Day	Portal Hypertension, June 2021
Pediatric Surgery. General Surgery Half Day	Congenital Cystic Lung Lesions, Feb 2021
Pediatric Surgery. General Surgery Half Day	Congenital Cystic Lung Lesions, Feb 2022
Pediatric Surgery. General Surgery Half Day	Germ Cell tumors. April 20, 2021
National Defense, Canadian Forces Trauma Training Centre (West),	Pediatric Trauma –January 20, 2021
General Surgery	Mock Orals April 2020
General Surgery	Mock Orals May 2020

Scholarly & Professional Activities

Presentations/Lectures

Dr. Hannah Piper

Surgical Nursing Education Day	Short bowel syndrome/intestinal failure
American Society for Parenteral and Enteral Nutrition	Malnutrition prevention in intestinal failure (webinar)
Pediatric Intestinal Failure and Rehabilitation Symposium	The utility of an instructional video series in reducing central venous catheter complications in children with intestinal failure (oral presentation)
American Pediatric Surgical Association	The impact of daily probiotics on necrotizing enterocolitis in very low birth weight infants (oral presentation)
Pediatric Intestinal Failure and Rehabilitation Symposium	Intestinal rehabilitation in the NICU (oral presentation)
Nutrition Practice & Science Conference	The impact of daily probiotics on necrotizing enterocolitis in very low birth weight infants
Surgical Nursing Education Day	Short bowel syndrome/management of surgical patients
Canadian Association of Pediatric Surgeons	The relationship between the intestinal microbiota and absorption after small bowel resection

Dr. Sonia Butterworth

BCCH Anesthesia Rounds	Towards Inclusivity: addressing the Hidden Curriculum, Bias and Microaggression. March 10, 2021
UBC Program Workshop	Intent and Impact: How you can promote a culture of Antiracism, Equity, Diversity and Inclusion.. May 25, 2021
UBC Program Workshop	Responding to Challenges in the Current Culture of the Learning Environment. Program Workshop. November 10, 2020
UBC Program Workshop	Program Director Orientation, Nov 2021
UBC Program Workshop	Program Wellness, May 2022
Ophthalmology Rounds	Towards Improving the Learning & Work Environment at UBC PGME: Strategies & Collaboration, , January 28, 2022
Surgical Suites Grand Rounds	Towards Inclusivity: addressing the Hidden Curriculum, Bias & Microaggression, June 15, 2021
UBC International Medical Graduate Orientation	The Hidden Curriculum: what is learned differs from what we teach, June 2020
Cardiac Surgery	The "Hidden Curriculum:" what is learned differs from what we teach, Jan 2021

UBC International Medical Graduate Orientation	The Hidden Curriculum: what is learned differs from what we teach, June 2021
UBC International Medical Graduate Orientation	The Hidden Curriculum: what is learned differs from what we teach, June 2022

Dr. Erik Skarsgard

Pediatric Surgery Update Course (Ponsky)	Presentation on behalf of APSA PDC (virtual-2020)
Imperial College Update (London, UK)	Gastroschisis (virtual-2021)
Indian Association of Pediatric Surgeons	CDH (virtual-2021)
R. Amoury Visiting Professor (Kansas City, Mo)	Patient Registries (virtual-2022)

Committee Participation

Dr. Hannah Piper

American Pediatric Surgical Association	Education Committee
American Society of Parenteral and Enteral Nutrition	Education and Program Development Committee
Faculty of Medicine Summer Student Research Program	Grant Review Committee
Faculty of Medicine Early Career Grants, UBC	Grant Review Committee
UBC Undergraduate Surgical Education Program	Site Director
Canadian Association of Pediatric Surgeons	Research Committee
BC Children's and Women's Health Centre	Pharmacy, Therapeutics & Nutrition Committee
American Society of Parenteral and Enteral Nutrition	Research Foundation Grant Committee
BC Children's and Women's Health Center	Neonatal Intensive Care Unit Nutrition Committee
American Society of Parenteral and Enteral Nutrition	Abstract Committee
American Pediatric Surgical Association	Publication Committee
Children's Intestinal Rehabilitation Network	Co-chair of national committee
BC Children's Hospital	Surgical Director Intestinal Rehabilitation Program

Dr. Eric Webber

BC Children's and Women's Health Centre	Medical Advisory Committee, chair
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Pediatric Surgery

2020-2022

BC Children's and Women's Health Centre	Vascular Access Committee, co-chair
Royal College of Physicians and Surgeons of Canada	General Surgery Specialty Committee
Royal College of Physicians and Surgeons of Canada	Pediatric Surgery Specialty Committee, chair
Royal College of Physicians and Surgeons of Canada	Specialty Standards Review Committee
Pacific Association of Pediatric Surgeons	Board of Directors and President
Pacific Association of Pediatric Surgeons	Program Committee
Pacific Association of Pediatric Surgeons	Publications Committee
Faculty of Medicine, UBC	Policy Advisory Committee, chair
Faculty of Medicine, UBC	Undergraduate Medical Education Committee
Dr. Rob Baird	
American Pediatric Surgical Association	Chair, Outcomes and Evidence Based Committee
Canadian Association of Pediatric Surgeons	Program Committee

Dr. Sonia Butterworth

BC Children's Hospital	NICU Complex Nutrition Committee, Surgical Representative, July 2008-present
BC Children's Hospital	BC Children's Hospital Intestinal Rehabilitation Program, June 2009-present
Canadian Association of Pediatric Surgeons	publication committee, January 2012-present
Canadian Association of Pediatric Surgeons	publication committee, Chair, September, 2017 - present
Canadian Association of Pediatric Surgeons	Council member, September 2017-present
UBC Department of Emergency Medicine	VGH Site Director Selection Committee Aug 2021
UBC Department of Emergency Medicine	Victoria Site Director Selection Committee Feb 2022
UBC Department Radiology	UBC Head Selection Committee, Dec 2021
UBC Department of Orthopedics	UBC Head Selection Committee, May 2022

Dr. Erik Skarsgard

BC Children's Hospital	Board Member
BC Children's Hospital	Surgeon in Chief
BC Children's Hospital	Chair, Surgical Cabinet
BC Children's Hospital	Medical Advisory Committee, Member
Pediatric Ophthalmology (2019)	Search Committee, Chair
Neurosurgery (2019)	Search Committee, Chair
Provincial Surgical Executive Committee	Member
American Pediatric Surgical Association	Professional Development Committee
ASK APSA	Committee
American Academy of Pediatrics	Delivery of Surgical Care, Subcommittee of SoS

Dr. Sharhzad Joharifard

UBC Global Surgery Lab	Associate Director
American Pediatric Surgical Association	Global Surgery Committee
Canadian Association of Paediatric Surgeons	Global Surgery Committee
Canadian Association of Paediatric Surgeons	Equity, Diversity and Inclusion Committee
Operating Room Quality of Care Sub-Committee	Member
Clinical Services Transformation (CST)	Champions Committee
UBC Branch for Global Surgical Care	Advisory Committee
Planning Committee for the 2022 Bethune Conference for Global Surgery	Member

Other roles and activities

Dr. Sonia Butterworth

Assistant Dean, UBC PGME

Journal of Pediatric Surgery Society Editor, 2017-present

Grants and Funding Received

Granting Agency	Title	COMP	\$ Per Year	Year	Principle Investigator	Co-Investigator(s)
Canadian Association of Pediatric Surgeons	The relationship between intestinal microbiota and absorption after small bowel resection	C	\$10,000	2020	Hannah Piper	
BCCHRI	Understanding the neonatal gut immune system interaction	C	\$20,000	2021-2022 (2 years)	Pascale Lavoie	Hannah Piper Kevan Jacobson Bruce Vallance
Healthy Starts Catalyst Grant	Longitudinal Study of the Intestinal Microbiota and Nutritional Status of Children with Intestinal Failure	C	\$20,000	2022-2023 (2 years)	Hannah Piper	Yvonne Lamers
UBC Strategic Investment Fund	Development of the UBC Global Surgery Lab and its activities	C	\$209,510 over 3 years	2022	E. Joos	S. Joharifard

Evidence 2 Innovation Seed Grant BC Children's Hospital Research Institute	The utility of three-dimensional modelling and printing in perioperative planning and patient education in pediatric thoracoabdominal tumors.	C	\$10,000	2022	J. Jacobs	S. Joharifard
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*COMP indicates whether grant was obtained competitively (C) or non-competitively (NC)

Publication Records

Name(s)	Publication
Dr. Hannah Piper	Casson C*, Nguyen V, Nayak P, Channabasappa N, Berris K, Panczuk J, Bhiladvala C, Dasgupta T, Piper HG . <i>A comparison of Smoflipid® and Intralipid® in the early management of infants with intestinal failure</i> . Journal of Pediatric Surgery. 2020; Jan 55: 153-157.
Dr. Hannah Piper	Piper HG , Coughlin LA, Nguyen V, Channabasappa N, Koh AY. <i>A comparison of small bowel and fecal microbiota in children with short bowel syndrome</i> . Journal of Pediatric Surgery. 2020; May 55: 878-882.
Dr. Hannah Piper	Piper HG , Coughlin LA, Hussain S, Nguyen V, Channabasappa N, Koh AY. <i>The impact of Lactobacillus probiotics on the gut microbiota in children with short bowel syndrome</i> . Journal of Surgical Research. 2020; Mar 25: 112-118.
Dr. Hannah Piper	Channabasappa N, Girouard S, Nguyen V, Piper H . <i>Enteral nutrition in pediatric short-bowel syndrome</i> . Nutrition in Clinical Practice. 2020; Oct 35: 848-854.
Dr. Butterworth, Dr. Piper	Casey LM, Strauss J, Dhaliwal KK, Butterworth S , Piper HG , Albersheim SG. <i>NeoCHIRP: A model for intestinal rehabilitation in the neonatal intensive care unit</i> . Nutrition in Clinical Practice. 2021; Dec 36: 1320-1327.
Dr. Hannah Piper	Pierik A, Martins DS, Casey L, Piper HG . <i>The use of instructional videos to reduce central venous catheter complications in children with intestinal failure on home parenteral nutrition</i> . Nutrition in Clinical Practice. 2021; Aug 36: 872-876.
Dr. Hannah Piper	Bell Peters F, Bone J, Van Oerle R, Albersheim S, Casey L, Piper HG . <i>The importance of the ileocecal valve and colon in achieving intestinal independence in infants with short bowel syndrome</i> . Journal of Pediatric Surgery. 2021; Sep 20: online ahead of print.
Dr. Erik Skarsgard	Carew S, Nagaresh M, Schechter S, Arneja J, Skarsgard E . <i>Dynamic Capacity Allocation for Elective Surgeries: Reducing Urgency-Weighted Wait Times</i> . Manufacturing and Service Operations Management 2020; Apr 20.

Dr. Erik Skarsgard	Brindle ME, McDiarmid C, Short K, Miller K, Macrobie A, Lam JYK, Brockel M, Raval MV, Howlett A, Lee K-S, Offringa M, Wong, K, De Beer D, Wester T, Skarsgard ED , Wales, PW, Fecteau A, Haliburton B, Goobie S, Nelson G. Consensus guidelines for perioperative care in neonatal intestinal surgery: Enhanced Recovery After Surgery (ERAS®) Society Recommendations. World J Surg. 2020 Aug;44(8):2482-2492. doi: 10.1007/s00268-020-05530-1.
Dr. Erik Skarsgard	Robillard J, Bourne S, Tam M, Page P, Lamb E, Gogal C, Skarsgard E , Afshar K. Improving the Pediatric 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.
Dr. Erik Skarsgard	Heran MKS, Cardarelli-Leite L, d'Ortenzio R, Skarsgard ED . Initial experience of the use of ethylene-vinyl alcohol polymer (EVOH) as an alternative technique for lung nodule localization prior to VATS.J Pediatr Surg. 2020 Jul 11:S0022-3468(20)30484-X. doi: 10.1016/j.jpedsurg.2020.07.006. Online ahead of print.
Dr. Erik Skarsgard	Skarsgard ED . Specialized children's surgery in Canada during the COVID-19 pandemic. CMAJ. 2020 Oct 13;192(41):E1212-E1213.
Dr. Erik Skarsgard	Fallat ME, Skarsgard ED , Fanelli RD, Azarow KS, Deveney K. Understanding gaps in pediatric surgery care in rural environments and forging a path forward. V105 No 6 BULLETIN American College of Surgeons (October, 2020).
Dr. Erik Skarsgard	Melamed N, Murphy K, Barret J, Canadian Preterm Birth Network Investigators. Benefit of antenatal corticosteroids by year of birth among preterm infants in Canada during 2003-2017: a population-based cohort study. BJOG. 2020 Sep 16. doi: 10.1111/1471-0528.
Dr. Erik Skarsgard	Rios JD, Shah PS, Beltempo M, Louis D, Mukerji A, Premji S, Shah V, Lee SK, Pechlivanoglou P; Canadian Preterm Birth Network Investigators; Canadian Neonatal Network Investigators. Costs of Neonatal Intensive Care for Canadian Infants with Preterm Birth. J Pediatr. 2020 Sep 23:S0022-3476(20)31178-1. doi: 10.1016/j.jpeds.2020.09.045. Epub ahead of print. PMID: 32979384.
Dr. Erik Skarsgard	Allin BSR, Opondo C, Kurinczuk JJ, Baird R, Puligandla P, Skarsgard E , Knight M; BAPS-CASS/NETS2G/CAPSNet/CNN gastroschisis collaborations. Management of Gastroschisis: Results From the NETS2G Study, a Joint British, Irish, and Canadian Prospective Cohort Study of 1268 Infants. Ann Surg. 2020 Nov 12. doi: 10.1097/SLA.0000000000004217. Epub ahead of print. PMID: 33201118.
Dr. Erik Skarsgard	Hiersch L, Shah PS, Khurshid F, Masse E, Murphy K, McDonald SD, Carson G, Barrett J, Melamed N; Canadian Neonatal Network Investigators and the Canadian Preterm Birth Network Investigators. Mode of delivery and neonatal outcomes in extremely preterm Vertex/nonVertex twins.Am J Obstet Gynecol. 2020 Dec 9:S0002-9378(20)31368-5. doi: 10.1016/j.ajog.2020.12.002. Epub ahead of print. PMID: 33306970.

Dr. Erik Skarsgard	Knaapen M, Hall NJ, Moulin D, van der Lee JH, Butcher NJ, Minneci PC, Svensson JF, St Peter SD, Adams S, Nah SA, Skarsgard ED , Zani A, Emil S, Suominen JS, Aziz DA, Rai R, Offringa M, van Heurn EW, Bakx R, Gorter RR; + On behalf of the pediatric appendicitis COS development group. International Core Outcome Set for Acute Simple Appendicitis in Children: Results of A Systematic Review, Delphi Study, and Focus Groups with Young People. <i>Ann Surg.</i> 2020 Dec 29. doi: 10.1097/SLA.0000000000004707.
Dr. Erik Skarsgard	Dhareel D, Singhal N, Wood C, Cieslak Z, Bacchini F, Shah PS, Ye XY, Alshaikh B; Canadian Neonatal Network (CNN) and Canadian Preterm Birth Network (CPTBN) Investigators. Rates and Determinants of Mother's Own Milk Feeding in Infants Born Very Preterm. <i>J Pediatr.</i> 2021 Sep;236:21-27.e4. doi: 10.1016/j.jpeds.2021.04.037.
Dr. Erik Skarsgard	Rizzolo A, Shah PS, Bertelle V, Makary H, Ye XY, Abenhaim HA, Piedboeuf B, Beltempo M; Canadian Neonatal Network (CNN) and Canadian Preterm Birth Network (CPTBN) Investigators. Association of timing of birth with mortality among preterm infants born in Canada. <i>J Perinatol.</i> 2021 May 28. doi: 10.1038/s41372-021-01092-9.
Dr. Erik Skarsgard	Carr S, Safavi A, Skarsgard ED . Case Reports: Management Challenges in Pediatric Germ Cell Tumors. <i>Front Pediatr.</i> 2021 Apr 15;9:659083. doi: 10.3389/fped.2021.659083.
Dr. Erik Skarsgard	Al Maawali A, Skarsgard ED . The medical and surgical management of gastroschisis. <i>Early Hum Dev.</i> 2021 Nov;162:105459. doi: 10.1016/j.earlhumdev.2021.105459.
Dr. Erik Skarsgard	Carr S, Gogal C, Afshar K, Ting J, Skarsgard E . Optimizing skin antisepsis for neonatal surgery: A quality improvement initiative. <i>J Pediatr Surg.</i> 2022 Mar 13:S0022-3468(22)00200-7. doi: 10.1016/j.jpedsurg.2022.02.027. Epub ahead of print. PMID: 35397873.
Dr. Erik Skarsgard	Skarsgard, E.D. Preoperative Management of Congenital Diaphragmatic Hernia. <i>Curr Treat Options Peds</i> (2022). https://doi.org/10.1007/s40746-022-00246-155 .
Dr. Erik Skarsgard	Baschat AA, Blackwell SB, Chatterjee D, Cummings JJ, Emery SP, Hirose S, Hollier LM, Johnson A, Kilpatrick SJ, Luks FI, Menard MK, McCullough LB, Moldenhauer JS, Moon-Grady AJ, Mychaliska GB, Narvey M, Norton ME, Rollins MD, Skarsgard ED , Tsao K, Warner BB, Wilpers A, Ryan G. Care Levels for Fetal Therapy Centers. <i>Obstet Gynecol.</i> 2022 Jun 1;139(6):1027-1042. doi: 10.1097/AOG.0000000000004793. Epub 2022 May 2.
Dr. Shahrzad Joharifard	Daodu O, Joharifard S , Morris M, Saint-Vil D, Puligandla P, Brindle M. A framework for anti-racist practice for pediatric surgeons. <i>Canadian Medical Association Journal</i> , 2022 June.
Dr. Shahrzad Joharifard	Dhane M, Gervais A, Joharifard S , Trudeau M, Barrington K, Villeneuve A. Avoidance of routine endotracheal intubation and general anesthesia for primary closure of gastroschisis: A systematic review and meta-analysis. <i>Pediatric Surgery International</i> , 2022 June.

Dr. Shahrzad Joharifard	Miyata S, Joharifard S , Trudeau M, Villeneuve A, Bouchard S. Tu-be or not tu-be? Is routine endotracheal intubation necessary for successful bedside reduction and primary closure of gastroschisis? <i>Journal of Pediatric Surgery</i> , 2022 March.
Dr. Shahrzad Joharifard	Joharifard S , Trudeau MO, Miyata S, Malo J, Bouchard S, Beaunoyer M, Brocks R, Lemoine C, Villeneuve A. Implementing a standardized gastroschisis protocol significantly increases the rate of primary sutureless closure without compromising closure success or early clinical outcomes. <i>Journal of Pediatric Surgery</i> .
Dr. Shahrzad Joharifard	LaRusso K, Joharifard S , Lakabi R, Nimer N, Shahi A, Kasasni SM, Lévesque D, Moreau B, Aspirot A, Laberge JM, Faure C, Emil S. Effect of transanastomotic feeding tubes on anastomotic strictures in patients with esophageal atresia and tracheoesophageal fistula: the Quebec experience. <i>Journal of Pediatric Surgery</i> .
Dr. Shahrzad Joharifard	Wright NJ, Leather AJ, Ade-Ajayi N, Sevdalis N, Davies J, Poenaru D, Ameh E, [...] Joharifard S [...] on behalf of the Global PaedSurg Research Collaboration. Mortality from gastrointestinal congenital anomalies at 264 hospitals in 74 low-income, middle-income, and high-income countries: a multicentre, international, prospective cohort study. <i>The Lancet</i> , 2021 July 13.
Dr. Shahrzad Joharifard	Iyer H, Joharifard S , Le-Nguyen A, Dubois J, Ghali R, Borsuk D, Lallier M. Microsurgical and endovascular management of congenital iliac aneurysms in the neonatal period: two cases and a literature review. <i>European Journal of Vascular and Endovascular Surgery</i> , 2021 June 21.
Dr. Shahrzad Joharifard	Daodu O, Joharifard S . The role of pediatric surgeons in advancing public health. <i>Harvard Public Health Review</i> , 2021;32.
Dr. Shahrzad Joharifard	Joharifard S* , Le-Nguyen A*, Côté G, Borsuk D, Ghali R, Lallier M. Neonatal microsurgical repair of a congenital abdominal aortic aneurysm with a cadaveric graft. <i>European Journal of Pediatric Surgery Reports</i> , 2021 March 3. *authors contributed equally.
Dr. Shahrzad Joharifard	Miyata S, Joharifard S , Wissanji H, Trudeau MO, Beaunoyer M, Lallier M. A combined sternotomy/laparotomy approach in central tendon diaphragmatic hernia repair. <i>Journal of Pediatric Surgery Case Reports</i> , 2020 Dec 24.
Dr. Shahrzad Joharifard	Harris CJ, Helenowski I, Murphy AJ, Mansfield SA, LaQuaglia MP, Heaton TE, Cavalli M, Newman E, Kartal T, Cooke-Barber J, Donaher A, Murphy J, Kim ES, Zobel MJ, Goodhue CJ, Malek MM, Kalsi R, Roach J, Mata C, Naik-Mathuria BJ, Jefferson I, Aldrink JH, Richards H, Short SS, Meyers RL, Bleicher J, Le HD, Janek K, Bütter A, Davidson J, Piché N, Joharifard S , Tracy E, Fialkowski EA, Troutt M, Dasgupta R, Lautz TB. Implications of Tumor Characteristics and Treatment Modality on Local Recurrence and Functional Outcomes in Children with Chest Wall Sarcoma: A Pediatric Surgical Oncology Research Study. <i>Annals of Surgery</i> .
Dr. Shahrzad Joharifard	Margolick J, Yin L, Joharifard S , Afya A, Meza E, Sohani S, Laane C, Ball-Banting E, Joos E. Acute care surgery, trauma and disaster relief: a

	clinical exchange between the University of British Columbia and Mexican Red Cross. <i>Canadian Journal of Surgery</i> , 2020 July 9.
Dr. Shahrzad Joharifard	Joharifard S* , Parhar D*, Lo AC*, Schlosser M*, Daodu O*. How well do image-defined risk factors (IDRFs) predict surgical outcomes and survival in patients with neuroblastoma? A systematic review and meta-analysis. <i>Pediatric Surgery International</i> , 2020 June 8. *authors contributed equally.
Dr. Robert Baird	Justice, T. D., Baird, R. J. , & Todd, N. J. (2020). Is there a need for a formal gynecology curriculum in a pediatric surgery training program? A needs assessment. <i>Journal of Pediatric Surgery</i> , 55(5), 904-907.
Dr. Robert Baird	Black, A. J., Lu, D. Y., Yefet, L. S., & Baird, R. (2020). Sex differences in surgically correctable congenital anomalies: A systematic review. <i>Journal of Pediatric Surgery</i> , 55(5), 811-820.
Dr. Robert Baird	LaRusso, K., Baird, R. , Keijzer, R., Skarsgard, E., & Puligandla, P. (2020). Standardizing congenital diaphragmatic hernia care in Canada: Implementing national clinical practice guidelines. <i>Journal of Pediatric Surgery</i> , 55(5), 835-843.
Dr. Baird, Dr. Webber	Bhanji, F., Miller, G., Cheung, W. J., Puligandla, P. S., Winthrop, A., Baird, R. , & Webber, E. M. (2020). The future is here! Pediatric surgery and the move to the royal college of physicians and surgeons of Canada's competence by design. <i>Journal of Pediatric Surgery</i> , 55(5), 796-799.
Dr. Robert Baird	St-Louis E, Hassamal R, Razek T, Baird R , Poenaru D, Hardcastle TC. Validation of the PRESTO score in injured children in a South-African quaternary trauma center. <i>Journal of Pediatric Surgery</i> . 2020 Jul 1;55(7):1245-8.
Dr. Robert Baird	Krishnan P, Whyte SD, Baird R , Malherbe S. Caudal and Intravenous Anesthesia Without Airway Instrumentation for Laparoscopic Inguinal Hernia Repair in Infants: A Case Series. <i>A&a Practice</i> . 2020 Jul 1;14(9):e01251-.
Dr. Robert Baird	Meng F, Zuo KJ, Amar-Zifkin A, Baird R , Cugno S, Poenaru D. Pediatric burn contractures in low-and lower middle-income countries: A systematic review of causes and factors affecting outcome. <i>Burns: Journal of the International Society for Burn Injuries</i> . 2019 Dec 6;46(5):993-1004.
Dr. Robert Baird	Traynor MD, St Louis E, Hernandez MC, Alsayed AS, Klinkner DB, Baird R , Poenaru D, Kong VY, Moir CR, Zielinski MD, Laing GL. Comparison of the Pediatric Resuscitation and Trauma Outcome (PRESTO) model and Pediatric Trauma Scoring Systems in a middle-income country. <i>World journal of surgery</i> . 2020.
Dr. Robert Baird	St-Louis E, Petroze R, Baird R , Razek T, Poenaru D, Calland JF, Byiringiro JC, Ntaganda E. Calibration and validation of the pediatric resuscitation and trauma outcome model among injured children in Rwanda. <i>Journal of Pediatric Surgery</i> . 2020 Nov 1;55(11):2510-6.
Dr. Robert Baird	Mohtashami S, Safa N, Guadagno E, Baird R , Poenaru D. Derivation of a complication burden score based on disability-adjusted life years to

	assess patient burden following surgery: a pilot study. Canadian Journal of Surgery. 2020 Dec 1;63(6):E517-.
Dr. Robert Baird	Greive-Price T, Mistry H. North–South surgical training partnerships: a systematic review. Canadian Journal of Surgery. 2020 Nov 1;63(6):E551-61.
Dr. Robert Baird	Kelley-Quon LI, Kirkpatrick MG, Ricca RL, Baird R , Harbaugh CM, Brady A, Garrett P, Wills H, Argo J, Diefenbach KA, Henry MC. Guidelines for Opioid Prescribing in Children and Adolescents After Surgery: An Expert Panel Opinion. JAMA surgery. 2021 Jan 1;156(1):76-90.
Dr. Robert Baird	Balvardi S, St-Louis E, Yousef Y, Toobaie A, Guadagno E, Baird R , Poenaru D. Systematic review of grading systems for adverse surgical outcomes. Canadian Journal of Surgery. 2021 Mar 1;64(2).
Dr. Baird, Dr. Skarsgard	Allin BS, Opondo C, Kurinczuk JJ, Baird R , Puligandla P, Skarsgard E , Knight M. Management of Gastroschisis: Results From the NETS2G Study, a Joint British, Irish, and Canadian Prospective Cohort Study of 1268 Infants. Annals of Surgery. 2020 Nov 12.
Dr. Robert Baird	Binda C, Zivkovic I, Duffy D, Blair G, Baird R . Evaluation of interventions addressing timely access to surgical care in low-income and Low-Middle-Income countries as outlined by the Lancet Commission 2030 global surgery goals: a systematic review. World Journal of Surgery. 2021 Aug;45(8):2386-97.
Dr. Robert Baird	Grabski DF, Ajiko M, Kayima P, Ruzgar N, Nyeko D, Fitzgerald TN, Langer M, Cheung M, Cigliano B, D’Agostino S, Baird R . Access to pediatric surgery delivered by general surgeons and anesthesia providers in Uganda: Results from 2 rural regional hospitals. Surgery. 2021 Nov 1;170(5):1397-404.
Dr. Robert Baird	Arulanandam B, Selvarajan A, Piche N, Sheldon S, Bloom R, Emil S, Li P, Janvier A, Baird R , Sampalis JS, Haggerty J. Use of a risk communication survey to prioritize family-valued outcomes and communication preferences for children undergoing outpatient surgical procedures. Journal of Pediatric Surgery. 2022 Jan 10.
Dr. Robert Baird	Fernandes S, Yeung P, Heran M, Courtemanche D, Chadha N, Baird R . Sclerosing Agents in the Management of Lymphatic Malformations in Children: A Systematic Review. Journal of Pediatric Surgery. 2022 Jan 14.
Dr. Baird, Dr. Butterworth	Baird R , Kisa P, Muzira A, Wesonga AS, Sekabira J, Butterworth S , MacNeily AE, Duffy D, Blair G. Training low–middle-income (LMIC) pediatric surgeons in a high-income country (HIC) program. Pediatric Surgery International. 2022 Feb;38(2):269-76.
Dr. Butterworth, Dr. Piper	Casey L, Keerat D, Albersheim S, Butterworth S , Piper H . NeoCHIRP: Intestinal Rehabilitation in the NICU. Pediatric Intestinal Failure and Rehabilitation Symposium. Virtual June 2020

Initiatives in Progress

Dr. Robert Baird

- External Validation of the PRESTO Pediatric Tool for Predicting In-Hospital Mortality from Traumatic Injury
- A comparison of operative and anesthetic techniques for inguinal hernia repair in infants
- A Prospective Evaluation of a treatment bundle for the non-operative treatment of gastrocutaneous fistula

Dr. Shahrzad Joharifard

- UBC-MSF Partnership for Essential Surgical Skills Training at MSF projects worldwide

DIVISION OF PEDIATRIC UROLOGY

2020-2022



FACULTY: PEDIATRIC UROLOGISTS



Dr. Andrew E MacNeily
Professor and Division Head



Dr. John ST Masterson
Clinical Professor, UBC



Dr. Kourosh Afshar
Associate Professor and Associate Head
Surgery



Dr. Soojin Kim
Clinical Assistant Professor, UBC

STAFF MEMBERS

Name	Title
Ms. Heidi Barber	Nurse Clinician
Ms. Maria Chaperon	Medical Office Assistant
Ms. Danielle Baghii	Medical Office Assistant
Ms. Afsaneh Afshar	Medical Office Assistant
Dr. Maryam Noaparast	Research Associate

Highlights and Achievements

Dr. Soojin Kim

Accepted to the ***AUA early-career investigator workshop (Advanced Grant Development Group)***: an intense 3-day workshop (Oct 8-10, 2020) to provide foundation for successful grant writing via one-on-one and small group mentoring sessions with scientific advisors, interactions with federal grant program officers, mock peer review session, and career development presentations.

Dr. Soojin Kim

The Florence E. Heighway Summer Research Award (UBC SSRP; \$3200): Awarded to a medical student for my project as part of the UBC Faculty of Medicine's Summer Student Research Program.

Dr. Soojin Kim

Developed a **longitudinal database** for BCCH Spinal Cord Clinic. Stakeholder engagement was gathered between Dec 2019 to Feb 2020. Then multiple stakeholder meetings were held between Feb to Jul 2020 across multiple disciplines, including paediatrics, physiatry, neurosurgery, orthopaedic surgery, urology, physiotherapy, occupational therapy, social work, and nursing. Through these stakeholder meetings, interested variables were collected to design data collection form for providers. Patients' engagement was also included via encompassing patient reported outcomes. Worked with REDCap team to build the database and design algorithms. Pilot trials were run in

Nov 2021. Official launch date for virtual participation was on Nov 19, 2020. Then we expanded to include in-person participation on Feb 18, 2021. In between, feedback was continuously sought after from all the stakeholders, and iterations were made accordingly. Since February 2021, weekly to biweekly maintenance meetings were held with research team to track recruitment, input data, gather feedback, check data quality, and modify to improve.

Dr. Soojin Kim

UBC Workplace Learning – Hiring Equity course (Oct 4, 2021)

Diversity Competency – What is Diversity (Sep 27, 2021)

Introduction to Gender Diversity (Sep 27, 2021)

Diversity Competency – Cultural and Religious Literacy (Sep 27, 2021)

Diversity Competency – Communicating with Diverse Populations (Sep 28, 2021)

Dr. Soojin Kim

Master of Science in Health Services and Outcomes Research (HSOR) – to be completed by 2022

Intermediate Biostatistics (PUB_HLTH 421) from Sep 24, 2019 to Dec 14, 2019

Ethical Issues in Health Services Research (HSR 460) from Jan 6, 2020 to Mar 21, 2020

Federal Policy Making and Healthcare Reform (HSR 470) from Apr 4, 2020 to Jun 13, 2020

Applied Qualitative Methods & Analysis for Health Researchers (HSR 456) from Jun 22, 2020 – Aug 29, 2020

Health Economics and Healthcare Financing (HSR 433) from Sep 21, 2020 – Jan 14, 2021

Grant Writing (HSR 462) from Apr 2022 – Jul 2022

Dr. Andrew MacNeily

2019-2020 President: Canadian Urological Association

2020-2021 President: CUA

2021-2022 Past President: CUA

2021-2025 Associate Editor Canadian Urological Association Journal

2021 Canadian Urological Association Presidential Citation. For an exceptionally singular contribution in support of the CUA's mission

Dr. Andrew MacNeily

Best Presentation – UBC Dept of Pediatrics Resident Research Competition June 2020

Shumiatcher R, Kelly M, **Afshar K**, **MacNeily AE**, Panagiotopoulos C. Prevalence of Lower Urinary Tract Symptoms in Children with Type 1 Diabetes

Dr. Kouros Afshar

President: Canadian Academy of Urological Surgeons (2020-2021)

Dr. Kouros Afshar

Establishing Canadian Hospitals Consortium for Pediatric NSQIP

NSQIP is an international surveillance program for postoperative outcomes. It provides the centers with risk-adjusted outcome data and rankings. BCCH was the first Canadian Pediatric center to join this program. We currently have more than nine years of experience in data collection, analysis, and implementation of quality improvement initiatives based on NSQIP data.

Recently other Canadian centers have joined NSQIP. Our program has been instrumental in assisting these centers to start their program. We are currently finalizing a consortium to share data and embark on multi-center research.

Dr. Kouros Afshar

Invited Participation/presentation: Société Internationale d'Urologie (SIU) ACADEMY: Development of Online module for critical appraisal of prognostic studies (2021).

Dr. Kouros Afshar

Invited Lecturer: Canadian Urological Association Annual meeting 2020

Dr. Kouros Afshar

Best Presentation by a trainee: Pacific Association of Pediatric Surgeons: Optimizing Skin Antisepsis for Neonatal Surgery, Nov 2021 Taiwan

Teaching Activities

Fellows Supervised

Name	Country of Origin	Dates Supervised
Elaine Redmond	Ireland	July 2020-June 2021
Cristina Dominguez Bellini	Colombia	July 2021-June 2022

Residents Supervised

Student Name	Start	Finish	Principal Supervisor	Topic
Dr. Cyrus Chehroudi	Jan 2020	Dec 2020	Dr. Afshar	Effects of Standardized pathway in Urgent management of testicular torsion
Dr. Cyrus Chehroudi	Jan 2020	Dec 2020	Dr. Afshar	Predictors of complications in renal transplant
Dr. Robin Mawson	Apr 2020	Dec 2020	Dr. Afshar	Use of PET scan in management of testicular tumors in children

Students Supervised

Student Name	Program Type	Start	Finish	Principal Supervisor	Topic
Jagdeep Gill	MD	July 2019	Dec. 2020	Dr. Afshar	Meta-analysis of NSAIDs effects in renal colic
Ava Aminbakhsh	UBC SSRP	July 2021	Mar 2022	Dr. Afshar	Student research – bladder dysfunction and Epilepsy
Caitlin Downing	UBC SSRP	May 2021	Sep. 2021	Dr. Afshar	Student research – Bladder dysfunction and Epilepsy

Other Supervisory Roles

Student Name	Program Type	Start	Finish	Supervisory Role
Baharak Tolouei	MS (Master in Surgery)	Jan 2020	Dec. 2021	Primary Supervisor
Helen Sarmast	PhD Education	2021	2024	Committee member

Dr. Andrew MacNeily – External examiner: UBC MSc Thesis Defense June 2021

Scholarly & Professional Activities

Presentations/Lectures

Dr. Soojin Kim	BCCHR Summer Student Research Program (SSRP) Faculty Presenter (Jun 17, 2020), <i>Global Health: "Think Globally, Act Locally"</i>
Dr. Soojin Kim	OPSEI Grand Round (Aug 6, 2020), <i>Careers in Surgery</i>
Dr. Soojin Kim	Ridge Meadows Hospital – Grand Rounds (Oct 13, 2020), <i>The Great from the Mediocre: Not to Fail Less, but to Rescue More</i>
Dr. Soojin Kim	OPSEI Grand Round - Dragon's Den (May 5, 2020), <i>Association of Socioeconomic Deprivation with Post-Operative Complications in a Pediatric Population: A NSQIP Analysis</i>
Dr. Soojin Kim	BCCHRI Evidence to Innovation Research Day (Feb 22, 2022), <i>Assessment of Mental Health in Pediatric Patients with Chronic Spinal Cord Disorders: An Interim Analysis</i>
Dr. Soojin Kim	Howard H. Steel 2021 Conference on Pediatric Spinal Cord Injury/Dysfunction – Oral Presentation (December 10, 2021), <i>Health Outcomes in Spinal Cord Conditions: Quality Improvement Initiative</i>
Dr. Soojin Kim	SPU Pediatric Urology Fall Congress – Oral Presentation (Dec 5, 2021), <i>Assessment of Surgical Access among Patients with Undescended Testes in a Universal Healthcare System</i>
Dr. Soojin Kim	SPU Pediatric Urology Fall Congress – Oral Presentation (Dec 2, 2021), <i>The Association of Health Literacy with Transition Readiness Among Adolescents and Young Adults with Spina Bifida</i>
Dr. Soojin Kim	SPU Pediatric Urology Fall Congress – Moderated Poster (Dec 2, 2021), <i>The Association of Patient-Reported Health Literacy with Health-Related Quality of Life in Adolescents and Young Adults with Spina Bifida</i>
Dr. Soojin Kim	BCCHRI E2i Spring Research Forum (May 11, 2021), <i>A Quality Improvement Initiative for Health Outcomes in Spinal Cord Conditions (HOSCC): An Interim Report</i>
Dr. Soojin Kim	OPSEI Grand Round (Mar 1, 2022), <i>Assessment of Mental Health in Pediatric Patients with Chronic Spinal Cord Disorders: An Interim Analysis</i>

Dr. Soojin Kim	PHSA Physician Quality Improvement (Dec 1, 2021), Access to Pediatric Urology Care: A Pilot Study in British Columbia
Dr. Soojin Kim	OPSEI Grand Round - Dragon's Den (May 5, 2020), Association of Socioeconomic Deprivation with Post-Operative Complications in a Pediatric Population: A NSQIP Analysis
Dr. Soojin Kim	BCCH Spinal Cord Clinic CME Session (Mar 3, 2022), Urodynamics for Kids
Dr. Soojin Kim	Department of Urologic Sciences, UBC – Grand Round (Jan 5, 2022), Implementation of Cell-Free DNA as a New Prenatal Screening Test: Global Comparisons & Implications in Pediatric Urology
Dr. Andrew MacNeily	Colombian Society of Urology: "Ureterocele: Is there a definitive management?" Cucuta Colombia Oct 2020 (virtual presentation owing to COVID 19)
Dr. Andrew MacNeily	Grand Rounds: UBC Division of Plastic Surgery: "Vesico-cutaneous fistula reconstruction post cloacal exstrophy" Jan 2022
Dr. Andrew MacNeily	BCCH Nurses Educational Day: "Severe Hypospadias Reconstruction" Vancouver BC Sept 2021
Dr. Andrew MacNeily	"Tribute to Dr Michael Leonard, CUA Lifetime Achievement Award Recipient" Presented to the CUA membership virtually June 2021
Dr. Andrew MacNeily	"The View from the top. Future Directions of the Canadian Urological Association" Presented at Queen's Urology CME and JC Nickel Festschrift. Picton Ontario Oct 2021
Dr. Andrew MacNeily	Redmond EJ, MacNeily AE, Afshar K, Kim S : <u>Assessment of Surgical Access among Patients with Undescended Testes in a Universal Healthcare System</u> . Societies For Pediatric Urology Fall Congress. Miami Fla Dec 2021 (virtual)
Dr. Andrew MacNeily	Falla J, Chae P, Ponton E, Purtzki J, MacNeily AE , Schwartz Z, Afshar K , Grant E, Jekyll AM, Alvarez C, McDonald P, Reebye R, Louie J, Singhal M, Duffy D, Cheung N, Kim S : <u>Health Outcomes in Spinal Cord Conditions: Quality Improvement Initiative</u> . Steel Assembly Pediatric Spinal Cord injury and dysfunction Orlando Fla Dec 2021 (virtual)
Dr. MacNeily and Afshar	Shumiatcher R, Kelly M, Afshar K, MacNeily AE , Panagiotopoulos C: <u>Prevalence of Lower Urinary Tract Symptoms in Children with Type 1 Diabetes</u> UBC Dept of Pediatrics Resident Research Competition June 2020
Dr. MacNeily and Afshar	Kelly M, Routh J, Davis L, Purves T, Stout J, Afshar K, MacNeily AE , Morgan K, Stephany H, Sanvordenker J, Wickham A, Benjamin R, Maciejewski M: <u>Determining the Prevalence of Lower Urinary Tract Symptoms in Children with Diabetes: Multi-center Cros-Sectional Survey</u> . Societies for Pediatric Urology June 2020 Washington DC (virtual)
Dr. MacNeily and Afshar	Kisa P, Kymora Scotland K, Afshar K, MacNeily A : <u>Surveying unmet pediatric urological needs in low- and middle-income countries</u> , Canadian Urological Association Annual Meeting, Victoria BC, June 2020
Dr. MacNeily and Afshar	Chehroudi C, Noparast M, Danechi A, MacNeily AE, Afshar K : <u>Predictors of Perioperative Complications in Pediatric Renal Transplantation: A Long-term Retrospective Study</u> . Western Section American Urological Association Maui Hawaii Oct 2020 (virtual)
Dr. Kourosh Afshar	Gogal C, Page T, Lamb L, Francke L, Warner L, Skarsgard E, Afshar K : <u>Implementing an Inter-professional Surgical Site Infection Prevention (SSIP) Bundle Using the World Health Organization (WHO) "4E" Approach: Engage, Educate, Execute, and Evaluate</u> American College of Surgeon Quality and Safety Conference, Minneapolis USA July 2020.

Dr. Kourosh Afshar	Afshar K , Noparast M, Shadgan B.: <u>Development of Testis Specific Near Infra-Red Spectroscopy probe to evaluate testicular perfusion in children</u> . American Urological Association (Western Section) Oct. 2020
Dr. Kourosh Afshar	Afshar K , Chehroudi C, and Peck G. Noparast M.: <u>Effects of a standardized approach using TWIST score on the urgent care of children with acute scrotum</u> . American Urological Association (Western Section) Oct. 2020
Dr. Kourosh Afshar	Redmond E, De Los Reyes T, Ho M, Amenyogbe A, Afshar K : CAN URODYNAMIC STUDIES PREDICT THE NATURAL HISTORY OF LIPOMENINGOMYELOCELE? American Urological Association meeting, Sep. 2021, Las Vegas Nevada. https://doi.org/10.1097/JU.0000000000002077.15
Dr. Kourosh Afshar	Carr S, Gogal C, Afshar K , Ting J, Skarsgard E: Pacific Association of Pediatric Surgeons Annual Meeting Nov. 2021, Taiwan: Optimizing Skin Antisepsis for Neonatal Surgery
Dr. Kourosh Afshar	Afshar K , Shadgan B, Tolouei B: Use of NIRS in monitoring of renal transplant: Proceedings Volume 11958, Optical Interactions with Tissue and Cells XXXIII; and Advanced Photonics in Urology; 119580A (2022) https://doi.org/10.1117/12.2604261

Grants and Funding Received

Granting Agency	Title	COMP	\$ Per Year	Year	Principle Investigator	Co-Investigator(s)
British Columbia Children's Hospital Research Institute s Hospital Research Institute	Impact of surgery in children with congenital anomalies of the kidney and urinary tract	C	\$10,000	2020-2023	Soojin Kim	
The Spinal Bifida and Hydrocephalus Association (SBA) of Canada	Symptoms of anxiety and depression in pediatric patients with spinal cord disorders	C	\$17,744	05/20 – 03/23	AE MacNeily	Soojin Kim K Afshar
Canadian Urological Association	National implementation of T-Res for Canadian Urology Residents	C	50,000	18-22	AE MacNeily K Rourke	
Mohseni Foundation	Teaching Grant	NC	25000	2019-2024	K.Afshar	

*COMP indicates whether grants were obtained competitively (C) or non-competitively (NC)

Committee Participation

Name	Committee
Dr. Soojin Kim	CUA Young Urologist Affiliate Society (YAS) – Vice-President of Education (2021 – current)
Dr. Soojin Kim	CUA Scientific Committee (2021, 2022)
Dr. Soojin Kim	Dept of Urologic Sciences Residency Training Committee
Dr. Soojin Kim	Women in Medicine UBC – Medical Student Mentor Group (Mar 21, 2021)
	Women in Pediatric Urology (January 29, 2022)
Dr. Andrew MacNeily	Vice-Chair UBC Dept of Urologic Sciences (2015-2022)
Dr. Andrew MacNeily	Member UBC Undergraduate Medical Education Committee (UGMEC) (2020-2022)
Dr. Andrew MacNeily	Chair CUA Endorsement committee (2020-2022)
Dr. Andrew MacNeily	Member CUA Finance Committee (2020-2022)
Dr. Andrew MacNeily	Co-Chief negotiator for the clinical and academic services contract (CASC) renewal process (2020-23)). This position involved representation of the 20+ pediatric surgeons at BC Childrens Hospital Department of Surgery in their efforts to negotiate a renewed contract with the Provincial Health Services Association.
Dr. Andrew MacNeily	External Reviewer: Promotions Committee University of Calgary Department of Surgery March 2022
Dr. Andrew MacNeily	Chair nominations Committee CUA
Dr. Kourosh Afshar	BCCHIR Mentorship Committee Member
	Chair Selection Committee for Head: UBC Division of Pediatric Orthopedics
Dr. Kourosh Afshar	Chair Selection Committee for Head: UBC Division of Pediatric Orthopedics

Publication Records

Name(s)	Publication
Dr. Soojin Kim and Dr. Andrew MacNeily	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.
Dr. Soojin Kim	Chan, Y., Chu, D., Hirsch, J., Kim, S. , Rosoklija, I., Studer, A., Brockel, M., Cheng, E., Raval, M., Burjek, N., Rove, K., and Yerkes, E. (2021). Implementation and sustainability of an enhanced recovery pathway in pediatric bladder reconstruction: Flexibility, commitment, teamwork. <i>J Pediatr Urol</i> , 17: 782-789.
Dr. Soojin Kim	Rague, J., Kim, S. , Hirsch, J., Meyer, T., Rosoklija, I., Larson, J., Swaroop, V., Bowman, R., Bowen, D., Cheng, E., Gordon, E., Chu, D., Isakova, T., Yerkes, E., and Chu, D. (2021). Assessment of Health Literacy and Self-reported Readiness for Transition to Adult Care Among Adolescents and Young Adults With Spina Bifida. <i>JAMA Network Open</i> , 4(9):e2127034.
Dr. Soojin Kim	Kastelic, L., Kim, S. , Chan, J., Chae, T., Antonsen, A., & Kitchin, V. (2020, July 31). Access to surgical care in high-income countries: A scoping review protocol. Retrieved from osf.io/f7mxq
Dr. Andrew MacNeily	MacNeily AE. , <u>What's past is prologue</u> <i>Can Urol Assoc J.</i> 2020 Apr;14(4):81
Dr. Andrew MacNeily	<u>Roshan A, MacNeily AE., Dorsal Lumbotomy for Pediatric Upper Pole Heminephrectomy: Back (Door) to the Future?</u> <i>J Pediatr Urol</i> 2020 Aug;16(4):480.e1-480.
Dr. Andrew MacNeily	MacNeily AE. , <u>What will they think in 2095?</u> <i>Can Urol Assoc J.</i> 2020 June;14(6):153
Dr. Andrew MacNeily	MacNeily AE. , <u>Resilience</u> <i>Can Urol Assoc J.</i> 2020 Aug;14(8): 227
Dr. Andrew MacNeily	MacNeily AE. , <u>Bowel and bladder dysfunction and vesicocentricity</u> <i>Can Urol Assoc J.</i> 2021 Feb;15(2):19
Dr. Andrew MacNeily	MacNeily AE. , <u>Equity, Diversity and Inclusion</u> <i>Can Urol Assoc J.</i> Feb 2021 15(2),10

Dr. Andrew MacNeily	MacNeily AE. , <u>Of Mice and Pinballs</u> <i>Can Urol Assoc J.</i> April 2021 15(4), 82-3
Dr. Andrew MacNeily	MacNeily AE. , <u>Signing Out</u> <i>Can Urol Assoc J.</i> 2021 Jun;15(6)156-7,
Dr. Kourosh Afshar	Afshar K , Dos Santos J, Blais AS, Kiddoo D, Dharamsi N, Wang M, Noparast M. <u>Canadian Urological Association guideline for the treatment of bladder dysfunction in children.</u> <i>Can Urol Assoc J.</i> 2021 Feb;15(2):13-18. doi: 10.5489/cuaj.6975. PMID: 33007188; PMCID: PMC7864706.
Dr. Kourosh Afshar	Kisa P, Scotland K, Afshar K, MacNeily AE. <u>Surveying unmet pediatric urological needs in low- and middle-income countries.</u> <i>J Pediatr Urol.</i> 2021 Apr;17(2):171.e1-171.e9. doi: 10.1016/j.jpuro.2020.12.023. Epub 2020 Dec 26. PMID: 33546977.
Dr. Kourosh Afshar and Dr. Andrew MacNeily	Kisa P, Scotland K, Afshar K, MacNeily AE: <u>Surveying Unmet Pediatric Urological Needs in Low and Middle-income Countries</u> <i>J Pediatr Urol</i> 2021 Apr;17(2):171e1-171e9
Dr. MacNeily	Baird R, Kisa P, Muzira A, Wesonga AS, Sekabira J, Butterworth S, MacNeily AE, Duffy D, Blair G. <u>Training Low-middle-income (LMIC) pediatric surgeons in a high-income country (HIC) program</u> <i>Pediatric Surgery International published online Sept 30th 2021</i>
Dr. Kourosh Afshar and Dr. MacNeily	Westwell-Roper C, Best JR, Naqqash Z, Afshar K, MacNeily AE, Stewart SE. <u>Bowel and bladder dysfunction is associated with psychiatric comorbidities and functional impairment in pediatric obsessive-compulsive disorder</u> <i>Journal of Child and Adolescent Psychopharmacology.</i> In Press accepted Feb 2022
Dr. MacNeily	MacNeily AE. , <u>The Mitrofanoff Procedure.</u> In: <u>Canadian Urinary Diversions Position Statement. A collaboration of Canadian Urological Association, Nurses Specialized in Wound, Ostomy and Continence Canada, and Urology Nurses of Canada.</u> (1 st Edition) available at: https://nswoc.ca/wp-content/uploads/2022/01/canadian-urinary-diversions-position-statement-january2022.pdf

Initiatives in Progress

Dr. Soojin Kim

- Multidisciplinary DSD Working Group (pediatric gynecology, pediatric endocrinology, medical anthropology, medical genetics, ethics, nurse clinicians for Endocrine and Gender Clinic)
- Access to surgical care in high-income countries: a scoping review (*in data extraction phase*)
- Association of socioeconomic deprivation with post-operative complications in a pediatric population: A NSQIP analysis (*working with a statistician for analysis & interpretation*)
- Impact of surgery in children with congenital anomalies of the kidney and urinary tract (*working with a statistician for analysis & interpretation*)
- Not all Canadian pediatric urology patients have equal access to surgical care: a pilot study in British Columbia (*pre-pandemic cohort data collection done; data collection for post-pandemic cohort in progress*)
- Quality improvement project: pediatric urology outreach program (*pre-pandemic cohort data collection done; data collection for post-pandemic cohort in progress*)

Dr. Kourosh Afshar

- Butterworth S, Zivkovic I , Kim S , Afshar K: Major morbidity and mortality associated with delays to emergent surgery in children: a risk-adjusted analysis :Submitted to Canadian Journal of Surgery
- Afshar K, Gill J, Noparast M: Cochrane Urology Systematic Review Update: NSAIDs in treatment of renal colic: Manuscript Submitted: editorial review
- Afshar K, Ameri K, Mawson R, Dix D, Eftekhari A: Role of PET Ct in the management of pediatric testicular tumors Data analysis
- Afshar K, Shadgan B: Use of NIRS in Diagnosis of testicular torsion : Phase II study: Recruiting
- Afshar K, Aminbakhsh A., Connolly M: Bladder Dysfunction in children with epilepsy: Recruiting

**Dr. Soojin Kim, Dr.
Andrew MacNeily, Dr.
Kourosh Afshar**

- Prevalance of Neuropsychiatric Disorders in Children presenting with Bowel and Bladder Dysfunction (BBD) 2018-2022

