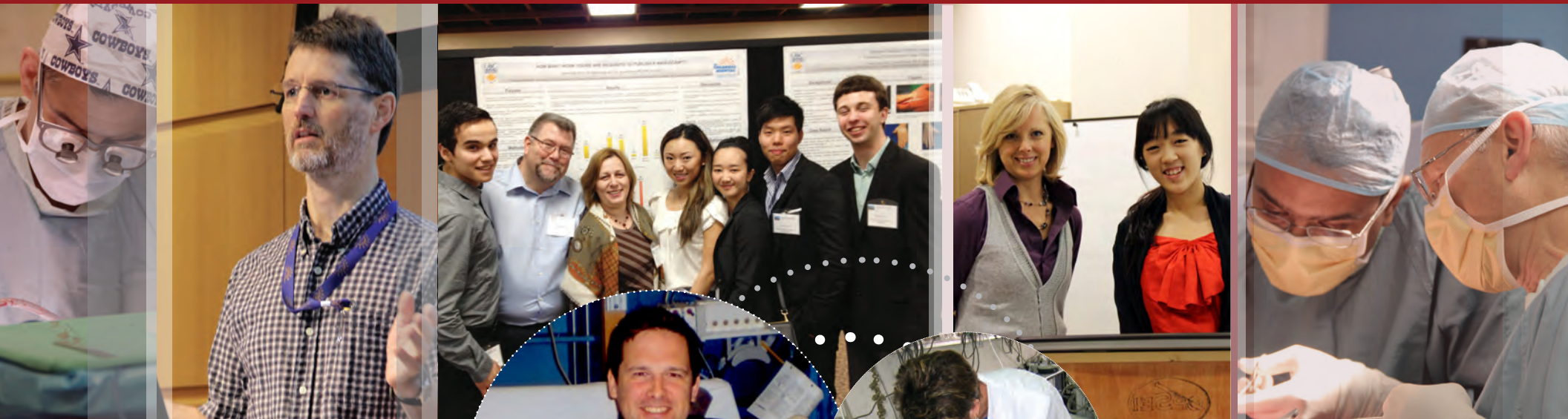


THE OFFICE OF PEDIATRIC SURGICAL EVALUATION AND INNOVATION



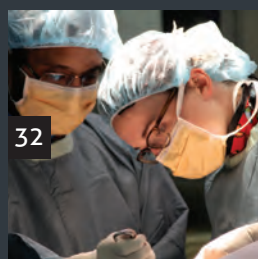
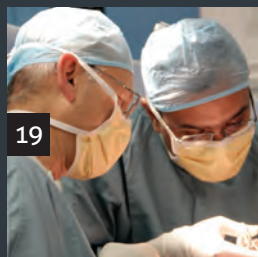
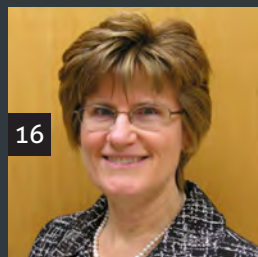
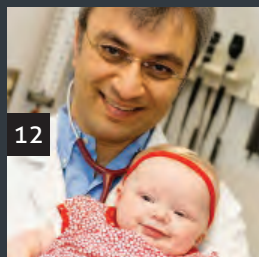
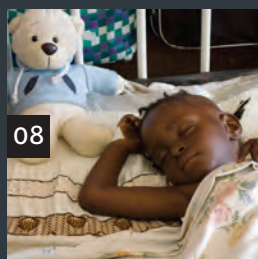
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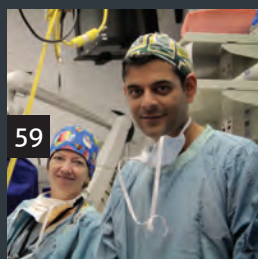
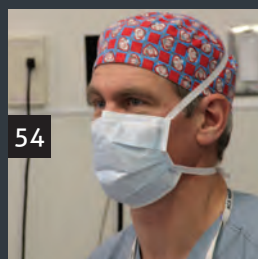
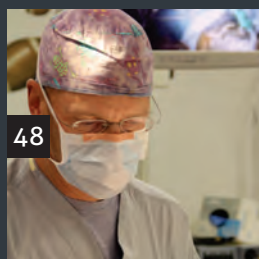
ANNUAL ACHIEVEMENTS REPORT

2012- 2013

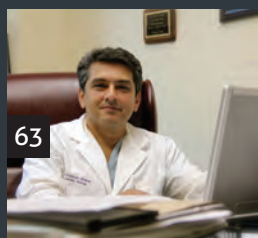
Enthusiasm Achievement Service



OPSEI



Partnership Integrity Curiosity



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Editors: Damian Duffy, Nathan O'Hara, Boris Henriquez

Designer: Debbie Bertanoli

MEET THE TEAM



DR. ERIK SKARSGARD
Chief of Surgery

Responsible for site specific effective delivery of clinical services; strategic and policy advice; site medical administration; quality monitoring and improvement; and support for teaching and research.



MR. DAMIAN DUFFY
Executive Director

Responsible for all OPSEI business operations and overall program management.



MS. CANDICE CHAN
Operations Research Analyst

Responsible for conducting various operations research studies and projects to improve hospital efficiencies and patient quality of care.



MRS. BINDY SAHOTA
Academic Administrative Assistant

Responsible for all academic support to the Pediatric Surgeons and coordinates undergraduate and postgraduate training programs.



MR. NATHAN O'HARA
Program Coordinator

Responsible for academic and research activities and coordination of global health initiatives.



MR. AMIN MARDAN
Site Lead, Canadian
Pediatric Surgical Wait Times Project

Responsible for maintaining surgical database used for various research studies and projects.



MR. JORDAN CHENG
Science Coop Student

Responsible for assisting operations research analyst and providing project support.



MS. ROSEANNE LIM
Science Coop Student

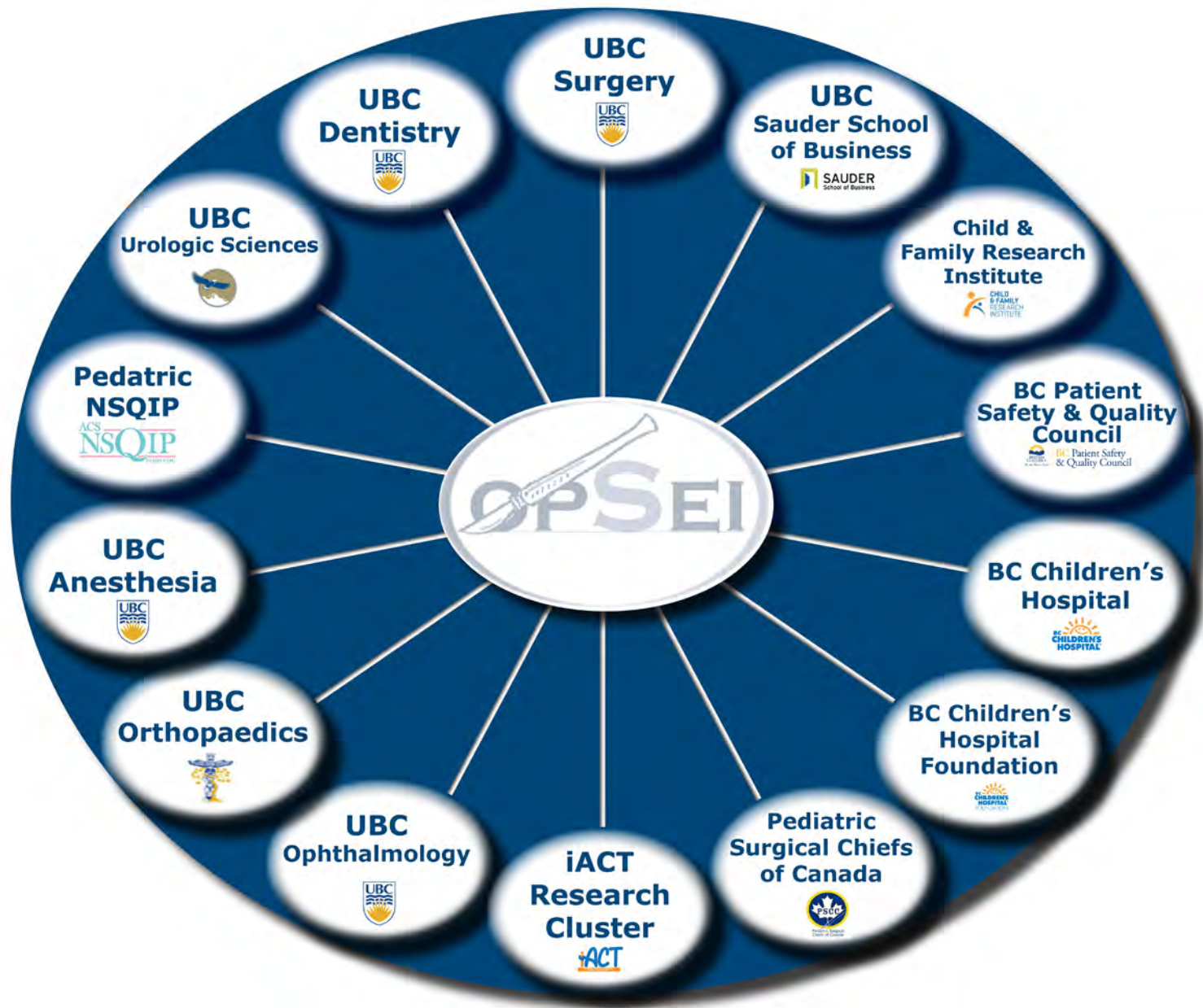
Responsible for assisting operations research analyst and providing project support.



MR. DEREK CHIU
Science Coop Student

Responsible for assisting operations research analyst and providing project support.

PARTNERS IN PEDIATRIC SURGICAL INNOVATION



CLINICAL RESEARCH AND EDUCATION

Project Name	Division	Student
Evaluating fasting guidelines for pediatric surgical patients at BC Children's Hospital	Pediatric Anesthesia	Jordan Cheng
Cardiac strangulation following epicardial pacemaker implantation: A rare pediatric complication	Pediatric Cardiac Surgery	Erick Carreras
The role of child life specialists as a health care team member during invasive procedure in a pediatric emergency department	Child Life	Jessica Holland John Kim
Cerebrospinal fluid complications following intradural spinal surgeries in children	Pediatric Neurosurgery	Victor Liu
Retrospective review of the management of infected dermal sinus tracts and associated intradural dermoid	Pediatric Neurosurgery	Thomas Luo
Cartoon assisted fundoscopic exam (CAFE) Study- a prospective, randomized study looking at strategies to improve success of fundoscopic exams in uncooperative children	Pediatric Neurosurgery	Michael Yang
The role of learning resources in pre-operative and post-operative education for pediatric patients and their families in a surgery department setting	OPSEI	Jaspreet Lidder Michiko Maruyama Evan Shao, Michael Yong
Developing a tracheostomy app	Pediatric Otolaryngology	Jack Zheng Shawn Zhu
The impact of a book club on perceptions of incoming 1st year medical students	Pediatric Otolaryngology	Tin Jasinovic
GHI surgical curriculum	Pediatric Surgery	Jake Hiebert
Perioperative outcomes of primary renal tumor resections: Comparison of in-hours to out-of-hours surgery	Pediatric Surgery	Connor Forbes
Effect of preoperative washes on surgical site infection rates	Pediatric Surgery	Barbara Mroczek
Defining cranioscoliosis	Pediatric Plastics Surgery	Max Liu
How many work hours are requisite to publish a manuscript?	Pediatric Plastics Surgery	Diana Song
Measurement of mouth opening in a Canadian pediatric population	Pediatric Plastics Surgery	Rosanna Martens Henry Liu
Mandibular fracture CT	Pediatric Plastics Surgery	Annam Bhatti Damon Li
Sup-ER splint	Pediatric Plastics Surgery	Georgina Martins
Robotics in pediatric surgery	Pediatric Urology	Zachary Eberwein



**APR 1, 2013
MARKED THE
EIGHTH YEAR
FOR THE OPSEI**

April 1, 2013 marked the eighth year for the Office of Pediatric Surgical Evaluation and Innovation! OPSEI continues to build an environment which supports student and faculty partnerships in clinical research and education. In 2012-13, the Department of Pediatric Surgery continued to house BC Children's Hospital largest summer student program, hosting 27 summer students. Students and their faculty mentors were involved in clinical research projects ranging from evaluating the use of safety-engineered scalpels in reducing sharps injuries in the OR to comparing radiation exposure during central venous line insertion in pediatric oncology patients. Following the intensive summer research program, many students presented their projects at the Western Medical Student Research Forum.

CHILDREN'S CIRCLE OF CARE & THE HOSPITAL MATCHING PROGRAM



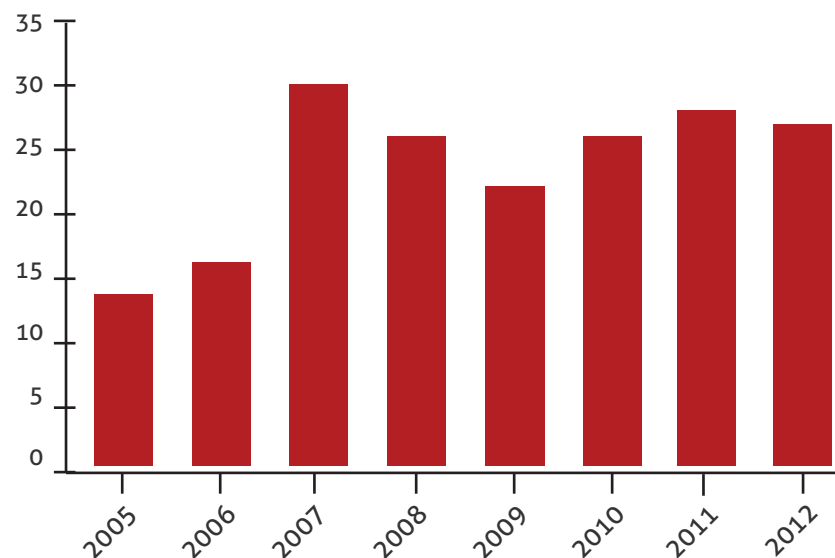
Mark your calendars for the 27th annual Miracle Weekend: May 31st & June 1st, live on Global BC.

Miracle Weekend events have raised over \$206 million for the hospital since the first Miracle Weekend was held in 1988.

26th annual Miracle Weekend brings in \$18.4 million for BC's Kids.



Number of Circle of Care Donors from Anesthesia, Dentistry and Surgery



Each year, we work collaboratively with the BC Children's Hospital Foundation to raise funds through the Hospital Family Matching Gift Program in order to support and advance our patient care, research, and education mission.

I am extremely pleased to share with you that we have had a total of 27 donors contribute to the Children's Circle of Care Program within the Departments of Pediatric Anesthesia, Pediatric Dentistry and Pediatric Surgery for 2012. Their generous donations, along with the matching gifts, have raised a total of \$270,000.



I would also like to take this opportunity to thank Ms. Janice Williams and the whole BC Children's Hospital Foundation team who facilitate the Children's Circle of Care Program. Clearly, their important work has and will continue to make a difference in the care we provide to children and families at our hospital.

SHARING THE CARE GLOBALLY

Pediatric Surgery Camp - Uganda

The 2013 Pediatric Surgery Camp in Uganda represented the first interdisciplinary collaboration between Pediatric Surgery and Pediatric Urology. The Pediatric Surgery Camp was extremely successful with 101 children receiving surgery at Mulago Teaching Hospital in Kampala, Uganda.

We worked closely with our surgical colleagues Dr. Doreen Birabwa-Male, Dr. John Sekabira, Dr. Phyllis Kisa, and Dr. Rosemary Nassanga to deliver the care of children. I would like especially thank Sister Agnes Navvuga who is the Senior Sister in the Main Operating Room. Sister Agnes has welcomed us each and every time we come to the Mulago OR, and she works extremely hard to make sure the surgical team is organized and has everything it needs to care for the patients and families. Webale nyo, Agnes Mukwano!

Our time in Uganda also included a site visit to Soroti Regional Referral Hospital. Representatives and I went and visited with Dr. Sister Mary Margaret Ajiko and Dr. Emmanuel Paul Battibwe.

The purpose of our visit was to organize the newly established, “*Soroti Children’s Project*” which now sends four medical students for a service-learning project each summer. We also made preliminary plans for a Pediatric Surgery Camp in March, 2014 to be held in Soroti.



I would like to take this special opportunity to warmly thank our local Canadian colleagues who worked collaboratively with our Ugandan health care team counterparts: Dr. Geoffrey Blair, Dr. Eleanor Reimer, Ms. Cheryl Baldwin, Ms. Kat Lidstone, Ms. Jennifer Dunlop, Dr. Heng Gan, Mrs. Catherine Blair, Dr. Jennifer Stanger, Dr. Sean McLean, Dr. Gareth Eeson, Dr. Marty Koyle, Dr. Niki Kanaroglou, and Dr. Guy Hudson.

Our work at Pediatric Surgery Camp would not be possible without the kind and generous support of our donors and granting agencies. A very special thanks to:

Mrs. Helen Prowse

Mrs. Betty McGill

Mrs. Stella Perdios

Ms. Marie Rogers

Mr. Ron Rogers

The Canadian Association of Pediatric Surgeons

The UBC Branch for International Surgery

The BC Children’s Hospital Medical Staff Association

BC Children’s Hospital Foundation Children’s Circle of Care Program

Health Partners International of Canada

Kimberly-Clark Health Care

The Canadian Association of Pediatric Surgeons



“The Pediatric Surgery Camp was extremely successful with 101 children receiving surgery at Mulago Teaching Hospital in Kampala, Uganda.”

In closing, our most favorite part of the Pediatric Surgery Camp was when we would visit the children’s surgical and urology wards at the end of the surgical day. We blew bubbles, gave stickers and visited all the children and their mothers. We would intentionally stand in the wind of the open window so that our bubbles would blow down the ward. In return, the children greeted us with big smiles, danced, and truly jumped for joy on our arrival on the unit. As we would leave, we would say to the families, “Tuka Bulungi” which means, “Safe Travels” in Lugandan.

SHARING THE CARE GLOBALLY



**Uganda Sustainable Trauma
Orthopaedic Program**

The Uganda Sustainable Trauma Orthopaedic Program (USTOP) travelled to Uganda once in the 2012-13 fiscal year, as part of the ongoing collaboration between the University of British Columbia and Makerere University to reduce the burden of neglected orthopaedic trauma in the country.

As in previous trips, the team was multi-disciplinary with staff and students from orthopaedics, plastics surgery, nursing, physiotherapy and engineering. This trip marked a new partnership with McMaster

University and three of the 17 Canadian team members were from McMaster. The primary objective of USTOP's visit in October 2012 was to support the educational activities in orthopaedics, plastics surgery, nursing and rehabilitation. USTOP continued its partnership with the Canadian Network for International Surgery to provide the two-day Safe Surgery Save Lives training course to 24 perioperative nurses from Mulago Hospital. A one day orthopaedics bioskills course was well attended by Ugandan orthopaedic and general surgery residents. Members of the UBC Division of

Plastic Surgery also offered a one-day lower limb flap course for orthopaedic and general surgery residents. Five team members travelled to Soroti, Uganda during the trip as part of an ever-expanding effort to building capacity in the regional centres. They provided training for the hospital's surgeon, interns and orthopaedic officers on the principles of external fixation. Nurses were offered a condensed version of the perioperative nursing course which was offered at Mulago.

ACADEMIC ACHIEVEMENTS

Academic Presentations

- **O'Hara NN**. Progress in international partnerships: Lessons learned in Uganda. UBC Orthopaedic Surgery Grand Rounds. November 7, 2012. Vancouver, BC.
- **Duffy D, O'Hara NN**, Eeson G, Reimer E, Kapoor V, Blair GK. The role of CanMeds competencies in global health education. Canadian Conference on Medical Education. Banff, AB. April 16, 2012.
- **Rasmussen D, Duffy D, O'Hara NN, Chen S**, Masterson J, Gandhi S. Evaluation of capacity for international patient care at BC Children's Hospital. Bethune Roundtable on International Surgery. May 25, 2012. Toronto, ON.
- **Page P**, Moon EC, Reimer E, Sneddon P, Hart D, Liao CYJ: Pre-operative identification of patients with high needle fear/needle phobia in a pediatric surgical day care setting: Preliminary data. Canadian Association of Pediatric Health Centres, October, 2012.
- **Duffy D**, Mohajerani N, Jafari S, Afshar K: The financial impact of surgical cancellations on families. Canadian Association of Pediatric Health Centres, October, 2012.
- **Kim J**, Holland J, Lascelle A, Hart D, **Duffy D**, Goldman, R: The role of child life specialists as a value-added service during invasive procedures in a pediatric emergency department: A patient-centred study. Canadian Association of Pediatric Health Centres, October, 2012.

Honours and Awards

- **N. O'Hara**. Malcolm T. McEachern Vancouver Hospital Prize
- **D. Duffy, N. Mohajerani, S. Jafari, K. Afshar**. Best Poster Award, Clinical Research, Canadian Association of Pediatric Health Centres

Publications

1. Shao ES, Maryama MM, Lidder J, Yong M, Adamson C, Nowak A, Scott H, **O'Hara NN**, Webber E, **Duffy D**. The role of learning resources in pre-operative and post-operative education for pediatric patients and their families in clinical surgery settings. *Journal of Investigative Medicine* 2013; 61:1.
2. **Cheng J**, Hill W, Page T, **Duffy D**, Whyte S. Evaluating fasting guidelines for pediatric surgical patients at British Columbia Children's Hospital. *Journal of Investigative Medicine* 2013; 61:1.
3. Holland J, Kim J, Lascelle A, Hart D, **Duffy D**, Goldman R. The role of child life specialists as a health care team member during invasive procedures in a pediatric emergency department. *Journal of Investigative Medicine* 2013; 61:1.

Committee Participation

Damian Duffy

- Global Impact Fellow, Unite for Sight
- Co-Chair, BC Children's Hospital United Way Fundraising Committee
- Chair, BC Children's Hospital Foundation Fellowship Allocation Committee
- Member, Pediatric Surgical Executive Committee
- Member, Pediatric Surgery Residency Training Committee
- Member, Executive Committee, Innovations in Acute Care and Technology Research Cluster, CFRI
- Member, Advocacy Committee, UBC Association of Administrative and Professional Staff
- Abstract Reviewer, Canadian Association of Pediatric Health Centres

Bindy Sahota

- Member, Executive Committee, Innovations in Acute Care and Technology Research Cluster, CFRI
- Member, Pediatric Surgery Residency Training Committee

ACADEMIC ACHIEVEMENTS

Committee Participation

Nathan O'Hara

- Member, Executive Committee, Innovations in Acute Care and Technology Research Cluster, CFRI
- Medical Advisory Board Member, Global Partners in Anesthesia and Surgery, UCSF
- Member, Emerging Health Leaders
- Abstract Reviewer, Canadian Association of Pediatric Health Centres



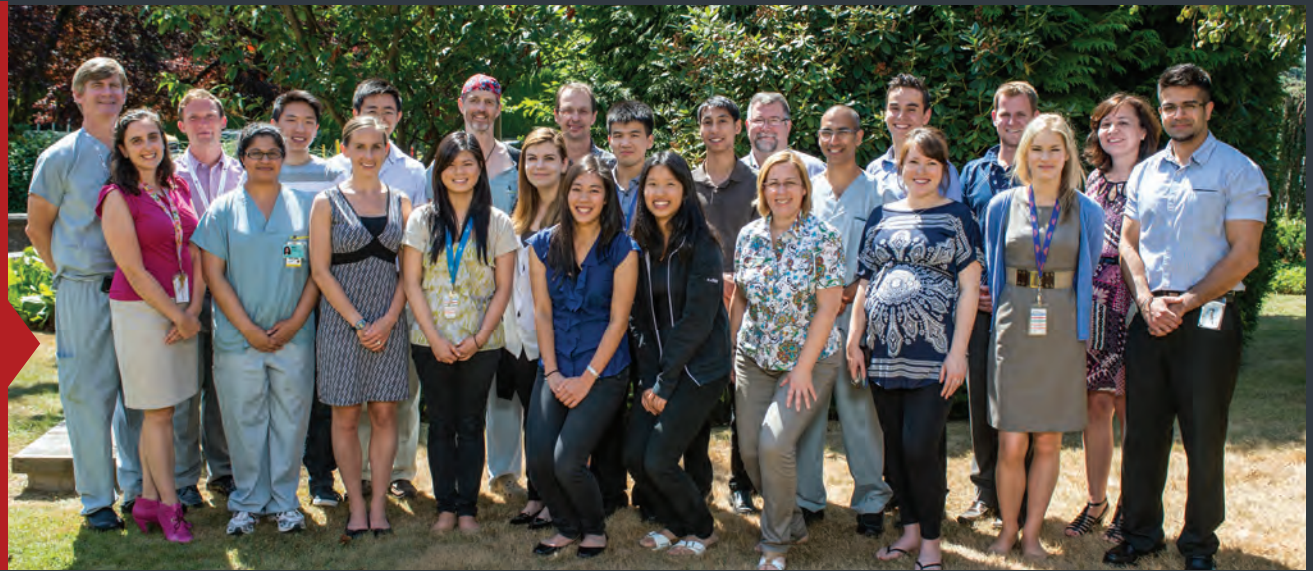
iACT RESEARCH RETREAT: November 15 - 16, 2012

The Innovations in Acute Care and Technology (iACT) research cluster at BC Children's Hospital and the Child and Family Research Institute hosted their third annual research day. The event showcased previous research by some of the previous iACT grant recipients. The afternoon sessions allowed facilitated discussion in building the cluster's strategic direction. The event was precluded by curling lessons and a fierce bonspiel between cluster members.

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Evaluating fasting guidelines for pediatric surgical patients at BC Children's Hospital	J. Cheng, S. Whyte	D. Duffy, S. Greig W. Hill, N. O'Hara, T. Page	iACT – CFRI	\$4,000
Developing career planning and networking opportunities for undergraduate medical students at the Oak Street campus of the University of British Columbia	D. Duffy	G. Blair, E. Carreras, J. Cheng, N. Froese, E. Skarsgard, J. Holland, D. Song, J. Hiebert, M. Stein, V. Leung, K. Turney, N. Chima	AMS Society	\$4,000
Development a quality and safety summer studentship program: An innovative collaboration	D. Duffy	M. Van Dijk, D. Cochrane, B. Sahota, N. O'Hara, E. Skargard	BC Patient Safety and Quality Council	\$32,080
Total Funding				\$40,080

OPSEI hosts the largest summer student research program at BC Children's Hospital.



Barb McKnight helps summer students learn the basics of scrubbing and gowning in the annual OR orientation course.



OPSEI's Summer Student Research Program not only involves students in clinical research but allows them the opportunity to shadow in the operating room.



Each year OPSEI's summer students present their research at national and international conferences.



Division of Pediatric Cardiovascular and Thoracic Surgery

Faculty Members

Dr. Andrew I.M. Campbell

Dr. Sanjiv K. Gandhi, Division Head

Staff Members

Ms. Celia Magraw, Administrative Assistant

Ms. Theresa Bazin, Research Assistant and Surgical Scheduling Coordinator

Ms. Tatjana Radosavljevic, NP

Ms. Emily Tai, NP



Highlights and Achievements

Since the introduction of several new clinical initiatives in 2010, the Division of Cardiovascular and Thoracic Surgery continues to see an increase in case numbers, including a significant increase in referrals from Western provinces outside of British Columbia. The Division is now an active participant in the North American Society of Thoracic Surgeons clinical database, allowing us to benchmark our outcomes with other centers across the continent. There continues to be a reduction in postoperative ventilator time, inotrope use, as well as ICU stay, overall length of hospital stay, and postoperative morbidity. The Division was recognized in March 2012 by the British Columbia Patient Safety and Quality Council for these initiatives. This year also marked the first two mechanical ventricular assist device implants at BCCH for end-stage heart failure in children. Both the Berlin Heart and Heartware devices were introduced to BCCH. With the dedication of the entire Cardiac Sciences staff, the Surgical Division was able to perform over 200 open heart operations and a total of 350 cases in 2012.

Dr. Gandhi, along with several members of the Division of Cardiology, travelled to Capetown, South Africa in February 2013 to participate in the 6th World Congress of Pediatric Cardiology and Cardiac Surgery.

Recently, Dr. Andrew Campbell also assumed the role of Director of the Cardiac Surgery Residency program of the University of British Columbia.

ACADEMIC ACHIEVEMENTS

Formal Teaching

Dr. Andrew Campbell

- Congenital Cardiovascular Pathology Lab, UBC Medical School, Vancouver, BC
- Cardiovascular Block, UBC Medical School, Vancouver, BC. February - March 2013

Dr. Sanjiv Gandhi

- ECLS Course - Pediatric Mechanical Ventricular Assistance
- Formal weekly PICU Cardiac Surgery Teaching Rounds

Academic Presentations

- **Human D, Gandhi SK, Campbell A, Hosking M, and Potts J.** Tracking cardiovascular morbidity: Utility of a hand-held device to monitor cardiovascular complications. 6th World Congress of Pediatric Cardiology and Cardiac Surgery, Cape Town, South Africa. 2013

Publications

1. Voeller RK, Epstein DJ, Guthrie TJ, Gandhi SK, Canter CE, Huddleston CB. Trends in the indications and survival in pediatric heart transplants: A 24-year single-center experience in 307 patients. *Ann Thorac Surg.* 2012; 94: 807-816.
2. Lee-Son K, Gandhi SK, Campbell AI, Skippen PW, Zappitelli M, Sahraei V, and Mammen C. Cardiac surgery associated acute kidney injury in infants and neonates: Relationship between urine output and serum creatinine. *J Investigative Med.* 2012; 61(1): 221.
3. Mivelaz Y, Lim KI, Templeton C, Campbell AI, Potts JE, Sandor GG. Population-based review of tetralogy of fallot with absent pulmonary valve: Is prenatal diagnosis really associated with a poor prognosis? *Ultrasound Obstet Gynecol.* 2012; 40(5): 536-541.
4. AlAbbas A, Campbell A, Skippen P, Human D, Matsell D, Mammen C. Epidemiology of cardiac surgery-associated acute kidney injury in neonates: A retrospective study. *Pediatric Nephrology.* 28(7): 1127-1134.

5. Human D, Gandhi SK, Campbell A, Hosking M, Potts J. Tracking cardiovascular morbidity: Utility of a hand-held device to monitor cardiovascular complications. *Cardiovasc J Africa* 2013; 24(1): 104.
6. Duncan W, Oviedo A, Carreras E, Auld B, Campbell A. Cardiac entrapment and injury due to epicardial pacemaker wires. *Cardiovasc J Africa.* 2013; 24(1): 137.
7. Gandhi SK, Faro A, Huddleston CB. Pediatric Lung Transplantation. In: Coran AG et al. (eds.) *Pediatric Surgery* (7th edition). Philadelphia: Elsevier, 2012: 671-683.

Student Supervision

Fellows Supervised

- Dr. Takashi Sasaki, Japan. July 1, 2010 – June 30, 2011

Residents Supervised

- Dr. Ala Al-Lawati, UBC. Sept 2, 2012 - Jan 13, 2013
- Dr. Mark Kearns, UBC. Jan 14 - May 5, 2013
- Dr. Michael Yamashita, UBC. May 5, 2013 - June 30, 2013

Clinical Clerks Year 3

- Ding Yao, UBC. Apr 9 - Apr 21, 2012
- Lindsay McRae, UBC. May 7 – May 20, 2012
- Elizabeth Kruithof, UBC. Jun 4 – Jun 16, 2012
- Chanel Kwok, UBC. Jul 20 – Aug 11, 2012
- Tina Gee, UBC. Sep 4 – Sep 16, 2012
- Daniel Owen, UBC. Oct 15 – Oct 27, 2012
- Shannon Lockhart, UBC. Oct 29 – Nov 11, 2012
- Jennifer Rozylo, UBC. Nov 12 – Nov 25, 2012
- Helena Lee, UBC. Nov 26 – Dec 9, 2012
- Gilbert Lam, UBC. Dec 10 – Dec 22, 2012

- Brian Yau, UBC. Jan 2 – Jan 13, 2013
- Sean Herman, UBC. Jan 14 – Jan 27, 2013
- Katherine Shoults, UBC. Jan 28 – Feb 10, 2013
- Richard Alexander, UBC. Feb 25 – Mar 10, 2013
- Erica Chhloa, UBC. Mar 11 – Mar 24, 2013
- Elizabeth Bagnell, UBC. Mar 25 – Apr 7, 2013

Clinical Clerks Year 4

- Ciarra Chamberlain, UBC. Apr 2 – Apr 14, 2012
- Lisa Findlay-Shirras, University of Queensland. May 21 – Jun 15, 2012
- Daniel Hynes, National University of Ireland Galway. Jul 9 – Aug 5, 2012
- Leslie Anderson, UBC. Aug 27 – Sep 22, 2012
- Alyssa Power, McGill University. Sep 24 – Oct 5, 2012
- Yusus Dimas, UBC. Oct 8 – Oct 20, 2012
- Tracy Tan, UBC. Oct 22 – Nov 17, 2012
- Chen Gnaneswaren, University of Sydney. Nov 19 – Dec 1, 2012
- Christine Sorial, UBC. Dec 3 – Dec 15, 2012
- Alexander Lovell, University of Adelaide. Jan 7 – Feb 2, 2013
- Ambati Druvtej, University of Saskatchewan. Feb 18 - Mar 1, 2013
- Michael Fazio, UBC. Mar 4 – Mar 16, 2013

Clinical Clerks Year 4

- Erick Carreras
- Jake Hiebert

Committee Participation

Dr. Andrew Campbell

- Credentials Committee, BC Children's Hospital, Member
- Careers in Action, Career Counseling Program, Faculty of Medicine, University of British Columbia, Mentor
- ECLS Steering Committee, BC Children's Hospital, Member
- ECLS Working Group Committee, BC Children's Hospital, Member
- University of British Columbia Cardiac Surgery Residency Program Committee, Co-Director
- Western Canadian Children's Heart Network, Member
- Western Canadian Children's Heart Network, Chair Research

Dr. Sanjiv Gandhi

- American Association of Thoracic Surgery, Member
- American Association of Thoracic Surgery Education Committee, Member
- Society of Thoracic Surgeons, Member
- Congenital Heart Surgeons' Society, Member
- Southern Thoracic Surgery Association, Member
- BC Children's Hospital Surgical Cabinet, Member
- ECLS Steering Committee, BC Children's Hospital, Member
- Jehovah's Witnesses Guidelines Committee, BC Children's Hospital, Member
- Western Canadian Children's Heart Network, Member
- Western Canadian Children's Heart Network Database Steering Committee, Member
- Western Canadian Children's Heart Network Operations Committee, Member
- Annals of Thoracic Surgery, Guest Reviewer
- Journal of Thoracic and Cardiovascular Surgery, Guest Reviewer
- Pediatric Cardiology, Guest Reviewer
- Pediatric Pulmonology, Guest Reviewer
- Pediatric Transplantation, Guest Reviewer
- The Journal of Pediatrics, Guest Reviewer
- Innovations in Cardiac Surgery, Guest Reviewer
- Canadian Journal of Cardiology, Guest Reviewer
- Surgical editorial advisor for Pediatric Cardiology

INITIATIVES IN PROGRESS

- 1 Development of the Pediatric Mechanical Ventricular Assist Device and Cardiac Transplant Program
- 2 Development of a humanitarian International Patient Care Program
- 3 Review of Early Extubation Clinical Data

Health professionals from BC Children's Hospital partnered with Hearts Around the World to support cardiac care in Vietnam.





Department of Pediatric Dentistry

Faculty Members

Dr. Karen Campbell, Department Head

Dr. Phoebe Tsang

Dr. Jong-Hyun Ban

Dr. Wa S. Cheung

Dr. Kavita Mathu-Muju

Dr. Rosamund Harrison

Dr. Joy Richman

Staff Members

Dr. Clive Bethel, Associate GP

Dr. Martin Braverman, Active oral and maxillofacial surgeon

Dr. Mark Casafrancisco, Active pediatric dentist

Dr. Anabel Chan, Active pediatric dentist

Dr. Peter Chan, Active pediatric dentist

Dr. Brian Chanpong, Active anesthesiologist

Dr. Sam Chiang, Consulting pediatric dentist

Dr. Ed Chin, Active pediatric dentist

Dr. Jeff Coil, Active endodontist

Dr. Lisa Coveney, Active pediatric dentist

Dr. Hasnain Dewji, Active pediatric dentist

Dr. Leo Fung, Active prosthodontist

Dr. Anita Gartner, Active pediatric dentist

Dr. Paul Helpard, Consulting orthodontist

Dr. Bon Bob Hu, Associate GP

Dr. Robin Jackson, Active orthodontist

Dr. Richard Kramer, Active pediatric dentist

Dr. Young Kuah, Active orthodontist and pediatric dentist

Dr. Louisa Leung, Provisional active pediatric dentist

Dr. Angelina Loo, Active orthodontist

Dr. William MacDonald, Active oral and maxillofacial surgeon

Dr. Eugene Marks, Active oral and maxillofacial surgeon

Dr. Resa Nouri, Active pediatric dentist

Dr. Gerry Pochynok, Active pediatric dentist

Dr. Mark Reichman, Active oral and maxillofacial surgeon

Dr. Donal Scheideman, Active pediatric dentist

Dr. Ronald Slemko, Active oral and maxillofacial surgeon

Dr. Dorothy Sonya, Active orthodontist

Dr. Esther Tam, Active endodontics

Dr. Isaac Tam, Active pediatric dentist

Dr. Tim Tam, Active pediatric dentist

ACADEMIC ACHIEVEMENTS

Highlights and Achievements

Dr. Karen Campbell assumed the position of Department Head of Dentistry at BC Children's and Director, Graduate Program in Pediatric Dentistry at UBC in December 2012

Academic Presentations

- **Dr. Karen Campbell.** "Craniopagus conjoined twins: Challenges and considerations for dental rehabilitation", AAPD 65th Annual Session, San Diego, California. May 26, 2012 . Poster presentation
- **Dr. Karen Campbell.** "Pediatric dentistry - where it all begins." BC Women's & Children's Family Practice Medicine Residents. Feb 2013.

Lectures

Formal Teaching

- DENT 440, Course Module Coordinator, Term 1. 2012-13
- DENT 440 PACS, Hospital Dentistry, Orientation, Term 1. 2012-13

Formal Teaching: UBC Graduate program in Pediatric Dentistry

- DENT 780. Term 2,3 2011-12 Term 1 2012-13
- DENT 783. Term 3 2011-12
- DENT 784. Term 1/2/3 2012-13
- DENT 785. Term 2 2012-13
- DENT 513: Seminars in Behaviour Guidance. Term 1/2 2012-13
- DENT 513: Seminars in Pediatric Oro-Facial Trauma. Term 2 2011-12
- DENT 516/517 Case Pres & Tx Plan Seminars. Term 3 2011-12
- DENT 440 PACS. Term1 2012-13

Publications

1. Campbell KM, Harrison RL, Ng C, Glassby P. Acceptance of innovative caries management in a community dental clinic. J Dent Res. 2012 91;
2. Campbell KM. What enrichment lies beyond the dentistry: A tale of discovery. J Can Dent Assoc. 2012 78;c51.

Student Supervision

Residents Supervised

- Dr. Jessica Tam

Students Supervised

- Carter Ng - MSc/Diploma Pediatric Dentistry
- Nancy Vertel - MSc/Diploma Pediatric Dentistry
- Winnie Zhao - MSc/Diploma Pediatric Dentistry
- Jennifer Park - MSc/Diploma Pediatric Dentistry

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
An analysis of Dental Emergency Cases managed at BC Children's Hospital	Karen Campbell	Jennifer Park, Tracy Wong, Rosamund Harrison	BCCH Telethon 2012 Competition	\$15,321
Cost-effectiveness analysis of emergency department (ERs) visits for dental-related conditions	Mario Brondani	Kavita Mathu-Muju, Karen Campbell	UBC Dentistry	\$4,500
Access to Care for CSHCN	Kavita Mathu-Muju	Karen Campbell, Rosamund Harrison	BCDA	\$15,000

Committee Participation

Dr. Karen Campbell

- Chair, Admissions Committee for Graduate Pediatric Dentistry
- Member, Development Committee
- Member, Graduate Studies Committee
- Ad hoc reviewer for Pediatric Dentistry
- Ad hoc reviewer for International Journal of Dentistry
- Expert panel member for OASIS project and reviewer for J Canadian Dental Association
- Editorial board member for Dental Traumatology

INITIATIVES IN PROGRESS

1

The Department is working to enhance Dentistry's presence at BC Children's Hospital in the areas of clinical service, academic and research. As well, we are critically examining our current models of patient care and clinical protocols.

2

Dr. Sam Cheung and Dr. Karen Campbell are working with our current Pediatric general practice resident writing an interesting case report to be submitted to one of our peer-reviewed specialty journals: "Oral Melanotic Tumour of Infancy – a case report". A paper on "Melanotic Neuroectodermal Tumor of Infancy - A Case Report" is near completion.





Division of Pediatric Neurosurgery

Faculty Members

Dr. Doug Cochrane, Division Head

Dr. John Kestle

Dr. Ash Singhal

Dr. Paul Steinbok

Staff Members

Ms. Helen McGregor, Administrative Manager

Dr. Vesna Popovska, Research Manager

Mr. Ross Hengel, Research Coordinator

Highlights and Achievements

It is with great pleasure that we welcome Dr. John Kestle back to Vancouver this year. Dr. Kestle is the Professor and Head of the UBC Department of Surgery and Chair of the Hydrocephalus Research Network (HCRN). Dr Kestle's clinical interests include epilepsy, tumors and craniosynostosis. Dr. Kestle currently serves on editorial boards for two neurosurgical journals, and is a Director of the American Board of Pediatric Neurosurgery. With Dr. Kestle's return, BCCH has joined the HCRN and is currently enrolling patients in two studies.

Dr. Cochrane serves as the Chair of the BC Patient Safety & Quality Council and in this role is addressing issues of quality of care for pediatric surgery patients. He has also opened doors at Kijabe Hospital, Kenya for pediatric neurosurgical training focused on hydrocephalus, spina bifida, and brain tumors.

Dr. Steinbok continues on the teaching faculty for courses sponsored by the International Society for Pediatric Neurosurgery, the European Society for Pediatric Neurosurgery and the Latin American Society of Neurosurgery in China, Italy and Venezuela. He was an invited keynote speaker at conferences in Jamaica, Thailand, and Argentina. In recognition of his research activities, Dr. Steinbok received the UBC Dept. of Surgery Richard J. Finley Senior Investigator Award for 2012. Dr. Steinbok is Past President of the International Society for Pediatric Neurosurgery.

Dr. Singhal has been particularly involved in research in head trauma in children and is Director of the trauma program at BC Children's Hospital.

With the help of the Jonathan Lawson Endowed Fellowship in Neuroscience, in 2012-13 we were able to provide pediatric neurosurgical fellowship training for 2 surgeons: Dr Peter Woerdeman from Utrecht, Netherlands and Dr Al Kharazi from Amman, Jordan. Our annual Visiting Professor in Pediatric Neurosurgery for 2013 was Professor William Harkness from Great Ormond Street Hospital for Children, London, England. Mr. Harkness discussed issues related to the surgical treatment of epilepsy in children and safety in pediatric neurosurgery.

Academic Presentations

Dr. Paul Steinbok

- “Histopathology of the filum terminale in children with and without a tethered cord syndrome with attention to the elastic tissue within the filum.” ISPN meeting, Sydney, Australia. September 2012.
- “SDR for spasticity.” ASPN meeting, Kauai, USA. February 2013.

Dr. Doug Cochrane

- “Malignant transformation of growing teratomas – A growing phenomenon.” Society for Neuro-Oncology. Washington, USA. November 2012.
- “Patient Safety: Assessment of retained neuropathies on portable x-ray radiographs.” Pediatric Section of AANS/CNS. St. Louis, USA. November 2012.
- “CSF complications following intradural spinal surgeries in children.” Pediatric Section of AANS/CNS. St. Louis, USA. November 2012. Co-authors: Steinbok P, Liu V, Singhal A, Gillis C.

Dr. Ash Singhal

- “Review of complications after elective craniotomy: Does my patient need to go to the intensive care unit?” UBC Medicine Undergraduate Research Forum. Vancouver, Canada. 2013. Co-author: Kerr JM
- “The Y-box binding protein-1 conveys temozolomide resistance by the inhibiting DNA damage response pathway through the polycomb repressor BMI-1.” Society of Neuro-Oncology Meeting. 2013. Co-authors: Fotovati A, Radloff D, Coute N, Triscott J, Chen J, Yip S, Louis D, Toyota B, Hukin J, Rassekh R, Dunham C, Dunn S
- “Personalizing the treatment for medulloblastoma: Polo-Like Kinase 1 (PLK1) as a molecular target for the sonic hedgehog (SHH) subtype.” Pediatric Neuro-Oncology Basic and Translational Research Conference. 2013. Co-authors: Lee C, Triscott J, Foster C, Manoranjan B, Pambid MR, Fotovati A, Berns R, Venugopal C, O’Halloran K, Narendran A, Northcott P, Taylor MD, Singh SK, Rassekh R, Maxwell CA, Dunham C, Dunn SE.
- “A national analysis of pediatric injuries related to child restraint seats: Are children at higher risk for injury outside the vehicle than inside?” ISPN Annual Meeting, Sydney, Australia. 2012.

- “Cartoon Assisted Fundoscopic Exam (CAFÉ): Playing a video significantly improves the success, ease, and time needed to perform fundoscopic exams in children. ISPN Annual Meeting. Sydney, Australia. 2012. Co-authors: Yang MH, Kerr JM.

Lectures

Dr. Paul Steinbok

- “Epilepsy surgery in children.” “Rhizotomy for spastic cerebral palsy.” “Occult tethered cord syndrome.” College of Neurosurgeons of Thailand – 50th anniversary Celebration of Neurosurgery at Chulalongkorn University. Bangkok, Thailand. April 30- May 2, 2012. Invited speaker
- “Cerebellar astrocytoma.” “Hemispherectomy.” “Tethered cord syndrome.” FLANC/AANS Pediatric Section course. Valencia, Venezuela. May 21-22, 2012. Invited faculty
- “Posterior fossa cysts.” “Options for management of posterior fossa tumours.” “Approach to 4th ventricle.” European Society for Pediatric Neurosurgery course. Genoa, Italy. June 5-8, 2012. Invited faculty
- “Posterior fossa astrocytoma.” “Intraventricular tumours.” “Video presentations – medullary astrocytoma; pineal tumour.” ISPN course. Shouzhou, China. June 18-19, 2012. Invited faculty
- “Neurological morbidity after resection of cerebellar astrocytomas in children.” ISPN annual meeting. Sydney, Australia. September 12, 2012. Invited speaker
- “Cerebellar astrocytoma.” “Medulloblastoma.” “Selective dorsal rhizotomy.” “Chiari I malformation.” “Tethered cord.” “Sagittal synostosis.” Raul Carrea Course in Pediatric Neurosurgery. Buenos Aires, Argentina. December 12-14, 2012. Special invited speaker
- “SDR for spasticity.” ASPN Meeting, Kauai, USA. February 2013. Invited speaker
- “Posterior fossa astrocytoma.” Tuen Mun Hospital, Hong Kong. March 14, 2013. Invited speaker
- “Posterior fossa astrocytoma.” “Lateral ventricular tumours.” “Chiari II management.” “Video presentations.” ISPN course: “Hypothalamic Hamartoma, Pineal Tumour, Diastematomyelia.” Kuala Lumpur, Malaysia. March 16-18, 2013. Invited faculty

ACADEMIC ACHIEVEMENTS

Dr. Doug Cochrane

- “La situation actuelle au Canada en matière de sécurité des soins.” Provincial Patient Safety and Quality Councils a Decade Later. Sécurité des soins au Québec. Le Bilan de 10 dernières années. Montréal, PQ. April 2012. Invited speaker
- “Review of hydrocephalus treatment methods (shunts and endoscopy).” CNSF. Ottawa, ON. June 2012. Invited speaker
- “Improving the outcomes of surgery for patients.” Fraser Health Authority Soaring to New Levels. Langley, BC. September 2012. Invited speaker.
- “Culture and surgical outcomes.” Fraser Health Surgical Safety Checklist Symposium. Surrey, BC. September 2012. Invited speaker
- “Who has your back? An obligation of peers and our health system.” National Network of Medical Affairs Professionals. Banff, AB. September 2012. Invited speaker
- “Who has your back? Obligation of peers.” BC Medical Legal Society. Vancouver, BC. November 2012. Invited speaker
- “What was learned from the investigation into medical imaging, credentialing and quality assurance in BC.” CPSI Virtual Forum. Edmonton, AB. November 2012. Invited speaker
- “The future of patient safety.” CPSI Virtual Forum. Edmonton, AB. November 2012. Invited speaker
- “Making connections. Spotlighting surgical improvement in BC.” Vancouver, BC. November 2012. Invited speaker
- “Benefit analysis using NSQIP data: How does this translate into “days saved?”” Spotighting Surgical Improvement in BC. Vancouver, BC. November 2012. Invited speaker
- “Assessing the culture in operating theaters in BC. BCAS/WSSA Annual Combined Scientific Meeting. Vancouver, BC.” December 2012. Invited Speaker

Dr. Ash Singhal

- “Guidelines for Management of Severe Traumatic Brain Injury in Children.” Congress of Neurological Surgery Annual Meeting. Chicago, USA. 2012.

Publications

1. Pillai S, Metrie M, Dunham C, Sargent M, Hukin J, Steinbok P. Intracranial tumors in infants: long-term survival, functional outcome, and its predictors. *Childs Nerv Syst.* 2012 Apr; 28(4):547-55.
2. Yang M, Singhal A, Rassekh S, Yip S, Eydoux P, Dunham C. Differentiation of cerebral glioblastoma into pleomorphic xanthoastrocytoma. An unusual case in an infant. *J Neurosurg Pediatr.* 2012 May; 9(5):517-23.
3. Lee C, Fotovati A, Triscott J, Chen J, Venugopal C, Singhal A, et al. Polo-like kinase 1 (PLK1) inhibition kills glioblastoma multiforme brain tumour cells in part through loss of SOX2 and delays tumour progression in mice. *Stem Cells.* 2012 Jun; 30(6):1064-75.
4. Steinbok P. Comment on preuntethering and postuntethering courses of syringomyelia associated with tethered spinal cord. *Neurosurg.* 2012 Jul; 71(1):29.
5. Drake JM, Singhal A, Kulkarni AV, DeVeber G, Cochrane DD; Canadian Pediatric Neurosurgery Study Group. Consensus definitions of complications for accurate recording and comparisons of surgical outcomes in pediatric neurosurgery. *J Neurosurg Pediatr.* 2012 Aug; 10(2):89-95.
6. Mortenson P, Smith D, Steinbok P. Deformational plagiocephaly and orthotic treatment: Indications and limitations. *Childs Nerv Syst.* 2012 Sept; 28(9):1407-12.
7. Matlow AG, Baker R, Flintoft V, Cochrane D, Coffey M, Cronin C, Damignani R, Dabe R, Galbraith R, Hartfield D, Newhook L, Nijssen-Jordan C. Medicine adverse events suffered by children hospitalized in Canada: The Canadian paediatric adverse events study. *CMAJ.* 2012 Sep 18;184.
8. Steinbok P. The rewards of pediatric neurosurgery: Presidential address: twenty-ninth annual meeting of the International Society for Pediatric Neurosurgery, October 18, 2011, Goa, India. *Childs Nerv Syst.* 2012 Sept; 28(9):1283-92.

9. Dunham C, Pillai S, Steinbok P. Infant brain tumors: a neuropathologic population-based institutional reappraisal. *Hum Pathol.* 2012 Oct; 43(10):1668-76.
10. Singhal A, Yang MMH, Sargent MA, Cochrane DD. Does optic nerve sheath diameter on MRI decrease with clinically improved pediatric hydrocephalus?. *Childs Nervous System.* 2012 Oct; 27.
11. Al-Kharazi K, Gillis C, Steinbok P, Dunham C. Malignant desmoplastic infantile astrocytoma? A case report and review of the literature. *Clin Neuropathol.* 2012 Nov; 14. [Epub ahead of print].
12. Steinbok P. Comment Re: Schweitzer T, Bohm H, Meyer-Marcotty P, Collmann H, Ernestus RI, Krauss J (2012) Avoiding CT scans in children with single-suture craniosynostosis. *Childs Nerv Syst* 28: 1077-1082. *Childs Nerv Syst.* 2012 Dec; 29.
13. Steinbok P, Henderson G, Dunham C. Histopathology of the filum terminale in children with and without a tethered cord syndrome with attention to the elastic tissue within the filum. *Childs Nerv Syst.* 2012 28; 1594.
14. Tong CKW, Chen JCH, Cochrane DD. Spinal cord infarction remote from maximal compression in a patient with morquio syndrome: A case report. *J Neurosurg Pediatrics.* 9:000–000.2012.
15. Calvin K. W. Tong CKW, Singhal A, Cochrane DD. Endoscopic fenestration of cavum velum interpositum cysts: a case study of two symptomatic patients. *Child's Nerv Syst.* 2012 28; 1261-1264.
16. Krause C, Cochrane DD. BC Patient Safety & Quality Council: Using network and social movement theory to drive energy and action to improve health care. *Healthcare Management Forum.* 2012 25; 181–184.
17. Marsden J, Van Dijk M, Doris P, Krause C, Cochrane D. Improving care for British Columbians: The critical role of physician engagement. *Healthcare Quarterly* 2012 15; 51-55.
18. Drake J, Singhal A, Kulkarni, A, DeVeber G, Cochrane D. Consensus definitions of complications for accurate recording and comparisons of surgical outcomes in pediatric neurosurgery. *J Neurosurg Pediatrics* 2012 10; 89–95.

19. Cochrane DD, Anderson Ds. Dilution versus pollution. *J Neurosurg Pediatrics.* 2012 9; 457.
20. Singhal A, Yang M, Kerr JM. Video diversion during fundoscopic examination in children: A randomized controlled trial. *Journal of Child Neurology.* 2013. DOI: 10.1177/0883073813483363
21. Cochrane DD. Obtaining patient input to define appropriateness. In: Patient Reported Outcome Measures to Improve Performance, Value and Productivity: Symposium Proceedings. Editors: David Rodd Gray and Steve Noyes. Victoria, May 2012.

Honours and Awards

- **Dr. Paul Steinbok.** UBC Dept. of Surgery Richard J. Finley Senior Investigator Award for 2012.

Student Supervision

Fellows Supervised

- K Al-Kharazi
- S Pillai
- E Ocal
- P Woerdeman

Residents Supervised

- T Ailon
- C Gillis
- A Bader

Residents Supervised

- T Victor Liu
- J.S Mangat
- T Lou

ACADEMIC ACHIEVEMENTS

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount	Project Title	PI	Team	Granting Agency	Amount
Fellowship in Pediatric Neurosurgery 2013/2014	P. Steinbok (PI)		Clinical Service Contract Executive Committee at BC Children's Hospital	\$50,000	The Impact of a Mandated Provincial Hand Hygiene Program on Healthcare Worker Compliance, Health and Perception of Safety Climate; Monitoring the Change Management Process	Cochrane, Marchbank, Canitz B		WCB Research at Work Competition	\$56,000
Fellowship in Pediatric Neurosurgery 2013/2014	P. Steinbok (PI)		Fellowship allocation Committee at BC Children's Hospital	\$50,000	Impact of Early Follow-Up on Post-Concussion Pediatric Symptoms	Mortenson	A. Singhal, P. Korn, J. Purtzki	BCCH Telethon Fund	\$12,977
Fellowship in Pediatric Neurosurgery 2012/2013	P. Steinbok (PI)		Fellowship allocation Committee at BC Children's Hospital	\$45,000	Medulloblastoma: A BCCH Retrospective Study	C. Dunham	A. Singhal	BCCH Telethon Fund	\$14,475
Fellowship in Pediatric Neurosurgery 2012/2013	P. Steinbok (PI)		Clinical Service Contract Executive Committee at BC Children's Hospital	\$41,899.89	Parental Anxiety in the Surgical Waiting Room	A. Singhal	N. Chadha, K. Afshar, K. Mulpuri	BCCH Foundation	\$5,012

Committee Participation

Dr. Doug Cochrane

- UBC Resident Education Committee, Division of Neurosurgery, Member
- Provincial Surgical Services Committee, PHSA, Member
- British Columbia Patient Safety Taskforce, PHSA, Member
- Stereotaxic Radiosurgery Team, BCC H, Member
- Stereotactic Operations Working Group, BCCA , Member
- Management of Myelomeningocele Study, Outcome Review Committee
- International Infant Hydrocephalus Study, Data Management Committee
- Hydrocephalus Clinical Research Network, Advisory Committee
- Institute of Patient Safety, University of Toronto, Advisory Board Member
- Spina Bifida Association of Canada, Referee for Grants
- Canadian Journal of Neurosurgical Sciences, Referee for Articles and Books
- Pediatric Neurosurgery, Referee for Articles
- Alberta Children's Hospital Foundation, Referee for Grants
- Medical Research Council of Canada, Referee for Grants
- American Journal of Sports Medicine, Referee for Articles
- Neurosurgery, Referee for Articles

Dr. Ash Singhal

- Rare Diseases Foundation of British Columbia – co-chair: scientific review committee; signing officer for research grant allocation. This included the review of over 40 grant applications in 2012
- Child's Nervous System, Reviewer
- Canadian Journal of Neurological Sciences, Reviewer
- Journal Of Trauma, Reviewer
- Chair, Examination Committee – Principles of Surgery, Royal College of Physician and Surgeons of Canada
- Board Member. ThinkFirst (Injury Prevention Society)
- Neurosurgery Resident Education Committee, UBC, member
- American Academy of Neurosurgery, Pediatric Section, Executive Committee – ISPN liaison

Dr. Paul Steinbok

- Division of Neurosurgery, BCC H, Head
- Neurosciences Patient Based Care Unit, BCC H, Medical Director
- Neurosurgery Resident Education Committee, UBC, Member
- Brain Tumor Group, BCCA , Member
- Children's Cancer Study, BCCA , Neurosurgical Representative
- BCC H Foundation, Finance Committee Member
- Child Health Executive Council, BCC H, Member
- BCMA Tariff Committee, Member
- Canadian Patient Safety Institute Board - Chair
- International Society for Pediatric Neurosurgery, Executive Committee Member
- Medical Advisory Board member – Best Doctors of Canada
- Journal of Pediatric Neurosciences (Indian), Editorship
- Journal of Neurological Sciences (Turkish), Editorship
- Childs Nervous System, Reviewer, Editorship
- Neurosurgery, Reviewer
- Canadian Journal of Neurological Sciences, Reviewer
- Pediatrics, Reviewer

INITIATIVES IN PROGRESS

1

Using the 3T MRI facility to further the role of complex neuroimaging in clinical care through the development cerebral perfusion assessment techniques, diffusion weighted imaging in the premature and dynamic 4 phase MRI for structural lesions.

2

Development at BCCH of genetic tumor marker classification strategies to assist in defining patient specific prognosis. This work is done in conjunction with Drs. Dunn and Dunham.



Department of Pediatric Ophthalmology

Faculty Members

Dr. Christopher Lyons, Department Head

Dr. Maryam Aroichane

Dr. Jane Gardiner

Dr. Roy Cline

Dr. Alan Demco

Dr. Peter Dolman

Dr. Ross Kennedy

Dr. Patrick Ma

Dr. Katherine Paton

Dr. Megan Rees

Dr. David Rossman

Dr. David Albiani

Dr. Duncan Anderson

Dr. Simon Lam

Dr. David Maberley

Dr. Andrew Merkur

Dr. Jack Rootman

Dr. William Ross

Staff Members

Dr. Carey Matsuba

Dr. Debbie Giaschi

Kim Meier

Marita Partanen

Christine Chapman

Sharneet Sandhu

Ryan Lo

Christy Giligson

Andrea Quan

Vaishali Metha

Debbie Zylich

Coral Crawford

Richard Gonzalez

Joan Baldos

Courtney Conroy

Chloe Gregg

Dolores Latham

Natalie Wong

Jennifer Yelland

Highlights and Achievements

Dr. Christopher Lyons received the UBC Department of Ophthalmology and Visual Sciences 2013 Resident Teaching Award

2012 to 2013, was a year of consolidation for the Department of Ophthalmology at BC Children's Hospital. Over this period, we endeavoured to provide across-the-board specialist care to the patients of British Columbia and beyond. We treated almost 9000 patients, seen either as impatient consultations or as outpatients and performed close to 900 surgical operations in our operating rooms. We continued to contribute to UBC's teaching mandate, participating in undergraduate teaching in years two and three (and Dr. Jane Gardiner was UBC Ophthalmology's Director of Undergraduate Education) as well as post-graduate teaching. We taught the UBC Ophthalmology Residents at R3 and R4 level, participated in UBC Ophthalmology's elective program rotations, and taught three post-graduate ophthalmology Fellows, Drs. Hughie Tsang from Sydney Australia, Ricardo Toro from Honduras and Elham Al-Qahtani from Saudi Arabia.

Over the year we continued to build up our capacity to provide services to areas of British Columbia which have been short of Pediatric Ophthalmology services; Drs. Cline and Gardiner have provided regular outreach services in Fort St John, Dr Gardiner has been successful in setting up a regular outreach program in Prince George, and Dr Lyons has continued to travel regularly to do clinics and operate in Nelson and Bella Coola. Several members of the Department have also volunteered in developing countries to build capacity for ophthalmology teaching and surgical programs.

In September 2012 Dr Giaschi successfully organized the first combined meeting with the University Of Washington Department Of Ophthalmology, focussing on translational research; this annual event will take place in Seattle in 2013. With her collaborators at the BCCH Department of Ophthalmology, she presented three papers at national and international conferences and published nine papers in peer-reviewed literature and raised \$192,000. On the clinical side, we presented at international meetings in Korea, Argentina, Switzerland, Venezuela, Sweden and the United Kingdom and published 13 papers in the peer-reviewed literature.

A considerable amount of time was spent on planning the re-design and our move to F-wing in January 2014, a move which will provide us with increased space for clinical care and electrophysiology testing while providing a welcome and continued proximity with our research department. Although we are anxious that for a time many of our important clinical collaborators, operating facilities, emergency department and NICU will be very far away, this problem should improve significantly once the new building is opened in five years or so.

Academic Presentations

Dr. David Albiani

- "Optical Coherence Tomography." North Shore Eye Associates. January 2013.
- "Management of Diabetic Retinopathy." British Columbia Diabetes Directors Seminar. 2012.

Dr. Peter Dolman

- University of Zurich 150th Anniversary Conference. Zurich Switzerland. March 2012. Visiting Professor.
- Asia Pacific Assoc. of Ophthalmologists. Busan, Korea. April 2012. Chairman of Sessions, speaker.
- "Orbital radiotherapy in thyroid orbitopathy: is there a role?" American Academy Ophthalmology Congress. 2012.
- Venezuelan Ophthalmologic Society. June 2012. Invited speaker.
- Spanish Oculoplastic Society. June 2012. Guest speaker.
- Orbit Society Lecturer. Buenos Aires, Argentina, September 2012.

Dr. Debbie Giaschi

- "Quantitative measurement of intraocular suppression in children with amblyopia." Canadian Amblyopia Network meeting. University of Toronto. July 2012.
- "The many pathways to ophthalmology." CFRI Summer Student Program. Vancouver, BC. June 2012.
- "Functional MRI and DTI in atypical visual development." Child and Family Research Institute Imaging Research conference. Vancouver, BC. April 2012.

ACADEMIC ACHIEVEMENTS

Dr. Christopher Lyons

- European Paediatric Ophthalmology Society. Uppsala, Sweden. June 2012. Invited guest lecturer
- Oxford Ophthalmological Congress. Oxford, UK. July 2012. Invited guest lecturer

Dr. David Rossman

- “Update on periocular infections.” Ophthalmology Grand Rounds, Department of Ophthalmology and Vision Sciences. University of Toronto. October 11, 2012. Invited speaker
- “Update on thyroid orbitopathy”, Ophthalmology Grand Rounds, Department of Ophthalmology and Vision Sciences. University of Toronto. October 11, 2012. Invited speaker

Lectures

Dr. Peter Dolman

- “Dysthyroid optic neuropathy: New findings and treatments.” Trends in Lacrimal Surgery.

Dr. Christopher Lyons

- Visiting Professor. Dalhousie University, Halifax, Nova Scotia, September 2012.
- “Can my child see?” UBC Dept Ophthalmology and Visual Sciences, Grand Rounds, May 2012.
- “Congenital glaucoma; Long-term implications.” UBC Dept Ophthalmology and Visual Sciences, Grand Rounds, September 2012.
- “The photophobic child.” UBC Dept Ophthalmology and Visual Sciences, Grand Rounds, November 2012.

Dr. David Rossman

- “What do I do with an orbital haemorrhage.” Canadian Ophthalmological Society. Toronto, Ontario. June 27, 2012. Invited speaker

Formal Teaching

Dr. Maryam Aroichane

- Daily clinic-based teaching of Ophthalmology Residents and Fellows.
- Surgical instruction of Ophthalmology Residents and Fellows

Dr. Jane Gardiner

- Medical student weekly for a clinic (3 hours)
- 2nd year clinical skills teaching in Ophthalmology each fall
- Daily clinic-based teaching of Ophthalmology Residents and Fellows.
- Surgical instruction of Ophthalmology Residents and Fellows
- Undergrad Director for Ophthalmology: UBC Faculty of Medicine Ophthalmology

Dr. Debbie Giaschi

- Psychology 367 (Sensory Systems): Sept – Dec 2012
- Psychology 368 (Perceptual Processes): Jan-April 2013

Dr. Christopher Lyons

- Clinic-based teaching of 3rd year UBC medical students, four hours per week. Tuesdays
- Daily clinic-based teaching of Ophthalmology Residents and Fellows.
- Surgical instruction of Ophthalmology Residents and Fellows
- Weekly Residents’ teaching Rounds and Fellows’ teaching conference. Wednesdays 7
- Weekly Fellows’ teaching Rounds. Friday 7 am

Publications

1. Rodriguez RC, Cornock E, White VA, Dolman PJ. Eyelid blastomycosis in British Columbia. Can J Ophthalmology. 2012 Jun; 47(3).
2. Dolman PJ. Evaluating graves’ orbitopathy, Best Pract Res Clin Endocrinol Metab. 2012 Jun; 26(3):229-48.
3. Dolman PJ, Rath S. Orbital radiotherapy for thyroid eye disease. Curr Opin Ophthalmol. 2012 Sep; 23(5):427-32.

4. Roefs AM, Waters PJ, Moore GR, Dolman PJ. Orbicularis oculi muscle biopsies for mitochondrial DNA analysis in suspected mitochondrial myopathy. *Br J Ophthalmol*. 2012 Oct; 96(10):1296-9.
5. Dolman PJ. Response to letter on ocular motility, *Ophthalmology* 2012: in press.
6. Lyons CJ. Where the wild things are: When esotropia mis-behaves. *Am Orth J*. 2012; 62:61-9.
7. Oystreck D, Lyons CJ. Comitant strabismus: Perspectives, present and future. *Saudi J Ophthalmol* 2012; 26:265-270.
8. Narasimhan S, Harrison ER, Giaschi DE. Quantitative measurement of interocular suppression in children with amblyopia. *Vision Research*. 2012.
9. Giaschi D, Narasimhan S, Lo R, Lyons C, Gardiner J, Aroichane M, Wilcox L. Sparing of coarse stereopsis in children with amblyopia. *Journal of Vision*. 2012 12; 9,1364-1364.
10. Narasimhan S, Wilcox L, Solski A, Harrison E, Giaschi, D. Fine and coarse stereopsis follow different developmental trajectories in children. *Journal of Vision*. 2012 12; 9: 219-219.
11. Narasimhan S, Giaschi D. The effect of dot speed and density on the development of global motion perception. *Vision Research*. 2012 62; 102-107.
12. Partanen M, Fitzpatrick K, Madler B, Edgell D, Bjornson B, Giaschi DE. Cortical basis for dichotic pitch perception in developmental dyslexia. *Brain and Language*. 2012.
13. Wilcox LM, Redwood J, Giaschi D. Does the loss of sensory fusion demarcate fine vs coarse processing?. *Journal of Vision*. 2013 13; (9),1178-1178.
14. Giaschi D, Narasimhan S, Solski A, Harrison E, Wilcox LM. On the typical development of stereopsis: Fine and coarse processing. *Vision Research*. 2013 89; 65-71.
15. Meier K, Partanen M, Lo R, Giaschi D. Neural correlates of speed-tuned differences in global motion and motion-defined form perception. *Journal of Vision*. 2013 13; 9,360-360.
16. Giaschi D, Lo R, Narasimhan S, Lyons C, Wilcox LM. Sparing of coarse stereopsis in stereodeficient children with a history of amblyopia. *Journal of Vision*. 2013 13; 10.
17. Czyz CN, Dolman PJ. Ocular duction studies: statistical issues. Author reply. *Ophthalmology*. 2013 Jan; 120(1):223.
18. Lee S, Fallah N, Forooghian F, Ko A, Pakzad-Vaezi K, Merkur AB, Kirker AW, Albani DA, Young M, Sarunic MV, Beg MF. Comparative analysis of repeatability of manual and automated choroidal thickness measurements in non-neovascular age-related macular degeneration. *Invest Ophthalmol Vis Sci*. 2013 Mar; 28.
19. Brennan R, Lyons CJ 1: The Pineal Gland and Melatonin: Recent Advances in Development, Imaging, Disease and Treatment, Melatonin and ocular physiology. Edited by Turgut M and Kumar R. Nova Publishers 2012.
20. Dolman P. Orbital Trauma, In: Atlas of Orbital surgery. Rootman, 2012.
21. Pediatric Ophthalmology 4th Edition Hoyt and Taylor. Elsevier 2012
 Lyons CJ, Chang W, Rootman J. Orbital disease in children.
 Lyons CJ, Rootman J. Mesenchymal abnormalities.
 Lyons CJ, Rootman J. Metastatic, secondary and lacrimal gland tumours.
 Lyons CJ, Rootman J Histiocytic, haematopoietic and lymphoproliferative disorders.
 Lyons CJ, Rootman J. Cystic lesions and ectopias.
 Lyons CJ, Rootman J. Inflammatory disorders.
 Lyons CJ, Fredrick D. Vascular disease.
 Lyons CJ, Rootman J. Proptosis.

ACADEMIC ACHIEVEMENTS

Student Supervision

Fellows Supervised

- Hughie Tsang, Australia, July 2011 – September 2012
- Elham Al-Qahtani, Saudi Arabia, January 2012 – December 2012
- Ricardo Toro, Honduras, July 2012–July 2013
- Taim Muayqil, Alberta, July 2011 – June 2012
- Mishal Abu Al-Maleh, British Columbia, July 2011 – June 2012
- Suriyasnata Rath, India, January 2012 – July 2012
- Sathyasri Narasimhna, postdoctoral fellow
- James Leong, Australia, July 2011 – June 2012
- Keton Laud, United States, July 2011 – June 2012
- Dr. Chris Pollock July 2012–Dec 31, 2012

Residents Supervised

- Dr. S. Levasseur
- Dr. S. Schendel
- Dr. L. Mok
- Dr. A. Butler
- Dr. A. Ko

Students Supervised

- Rawn Stokoe, Orthoptic, 2012-2013
- Lindsay Groff, Orthoptic, 2012-2013

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Brain Mechanisms Underlying Human Motion Perception	Deborah Giaschi		NSERC	\$155,000
Predicting Occlusion Therapy Outcomes for Children with Amblyopia	Deborah Giaschi		CIHR	\$37,000

Committee Participation

Dr. David Albani

- British Columbia Society of Eye Physicians and Surgeons, President. 2012–2013
- UBC Vitreoretinal Surgery Fellowship, Director. 2012–present
- Society of Specialist Physicians and Surgeons, Ophthalmology, Member. 2011–present
- American Society of Retina Specialists, Member. 2009 – present
- BC Society of Eye Physicians and Surgeons, Member. 2008–present
- UBC Department of Ophthalmology, Clinical Assistant Professor. 2011–
- Vancouver Acute, Active Staff. 2010–present
- Vancouver General Hospital, Provisional Staff. 2008–2010
- Providence Health Care, Active Staff. 2010–present
- Provincial Health Services Authority, Active Staff. 2013–present
- BC Children's Hospital, Consultant Staff. 2010–2013
- Royal College of Physicians and Surgeons of Canada, Fellow. 2007–present
- College of Physicians and Surgeons of BC, Full License, 2008–present
- British Columbia Medical Association, Member. 2007–present
- Medical Council of Canada, Licentiate. 2002–present
- Canadian Ophthalmological Society, Member. 2002–present
- Canadian Medical Association, Member. 2000–present
- Ontario Medical Association, Member. 2000–present

Dr. Maryam Aroichane

- Royal College of Physicians and Surgeons of Canada, Fellow
- College of Physicians and Surgeons of British Columbia, Fellow
- Canadian Orthoptic Council, President
- Canadian Ophthalmological Society, Member
- BC Society of Eye Physicians and Surgeons, Member
- Collège des Médecins du Québec, Member
- Association des Médecins Ophtalmologistes du Québec, Member
- Canadian Association of Pediatric Ophthalmologists, Member
- American Association for Pediatric Ophthalmology and Strabismus, Member
- North American Neuro-Ophthalmology Society, Member

Dr. Roy Cline

- Royal College of Physicians and Surgeons of Canada, Fellow
 - American Orthoptic Council, Member
 - American Orthoptic Council, Public Relations Committee
 - American Orthoptic Council, Training and Accreditation Committee
 - American Orthoptic Council, Planning Committee “AAO Sunday Symposia”
 - VGH Executive Committee, Member, 2002–2008
 - VGH Undergraduate Teaching Committee, Member, 2005–present
 - Strabismus, Canadian Journal Ophthalmology, Reviewer
-

Dr. Peter Dolman

- UBC Ophthalmology and Vision Science, Division Head of Oculoplastics. 2009 – present
 - UBC Ophthalmology, Director of Fellowship Programs. 2001–2012
 - UBC Ophthalmology, Medical Director of Treatment Room. 2009–2012
 - Eye Care Centre OR Operating Room Advisory Committee, Member. 2002 – 2012
 - Departmental Clinical Faculty Promotions Committee, Member. 2001–2012
 - Residency Selection Committee, UBC Ophthalmology, Member. 2012
 - VGH Ophthalmology Advisory Committee, Member. 1992–2012
 - Royal College of Physicians and Surgeons of Canada, Fellow
-

Dr. Jane Gardiner

- UBC Ophthalmology and Vision Science, Head Search Committee, Member. 2011–2012
- Department of Ophthalmology and Vision Science, UBC Undergraduate Director. 2010–present
- UBC Ophthalmology Continuing Education Committee, Member. 2008–present
- UBC Ophthalmology, Resident Interview Committee. 2011, 2012
- Royal College of Physicians and Surgeons of Canada Fellowship, Examiner. 2007–present
- Canadian Ophthalmological Society, Member
- American Association of Pediatric Ophthalmology and Strabismus, Member

- Canadian Association of Pediatric Ophthalmology, Secretary/Treasurer. 2008 – present
 - Orthoptics Training Program, BCCH, Medical Director. July 2006–present
 - Canadian Orthoptic Council Admissions and Training Committee, Member. 2009–present
 - British Columbia Children’s Hospital Ophthalmology Staff Committee, Member. 2000–present
 - RSPSC Fellowship, Examiner. 2007–present
 - Royal College of Physicians and Surgeons of Canada, Fellow
-

Dr. Debbie Giaschi

- Research Day Organizing Committee, UBC Department of Ophthalmology and Visual Sciences, Member. 2011–present
- NSERC Undergraduate Student Research Award coordinator, UBC Medicine, Faculty Coordinator. 2007–present
- High Field MRI Centre Protocol Review Committee, UBC, Member. 2004–present
- CFRIF Protocol Review Committee, Chair. 2011–present
- Child and Family Research Imaging Facility Executive, Member. 2011–present
- CFRI Neurons to Neighbourhoods Cluster Advisory Committee, Member. 2009–2011
- Teaching Evaluation Committee, Psychology, Member. 2008–present
- Ophthalmology Executive Advisory Committee, Member. 2011–present
- Residency Training Committee, Ophthalmology, Member. 1998–present
- Faculty of Medicine, School of Audiology and Speech Sciences, Mentor. 2005–present
- Medical Genetics Supervisory Committee, Member. 2011–present
- Neuroscience Supervisory Committee, Member. 2011–present
- Audiology Supervisory Committee, Member. 2011–present
- UBC Internal Review (Office of the VP Research). October 2011
- Perception, Manuscript Reviewer. 2008–present
- Clinical Physiology and Functional Imaging, Manuscript Reviewer. 2008–present
- Investigative Ophthalmology and Vision Science, Manuscript Reviewer. 2009–present
- EA Baker (CNIB), Grant Reviewer. 2010–present

ACADEMIC ACHIEVEMENTS

Dr. Ross Kennedy

- BC Government Vision Screening Steering Committee, Member. 2007–present
- Vision Screening Committee, American Association for Pediatric Ophthalmology and Strabismus, Member, present
- iScreen LLC, Memphis, Tennessee, Chief Technical Officer. 1997–present
- Canadian Ophthalmology Society, Member
- Canadian Association of Pediatric Ophthalmologists, Member
- American Association for Pediatric Ophthalmology and Strabismus, Member
- BC Society of Eye Physicians and Surgeons, Member
- Royal College of Physicians and Surgeons of Canada, Fellow

Dr. Christopher Lyons

- BCCH Department of Ophthalmology, Head
- UBC Ophthalmology and Vision Science, Chairman Search Committee, Member. 2011–2012
- UBC Ophthalmology Advisory Committee, Member
- UBC Ophthalmology Manpower Committee, Member
- BCCH Surgical Specialties Cabinet Committee, Member
- BCCH Surgical Specialties Advisory Committee, Member
- VGH Ophthalmology Staff Committee, Member
- VGH Medical Staff Committee, Member
- Royal College of Physicians and Surgeons of Canada Ophthalmology Nucleus Committee, Member
- RCPSC Test Committee in Ophthalmology, Member. 2001–present
- RCPSC Written Exam Committee Vancouver representative, Member, 1996–present
- Royal College of Physicians and Surgeons of Canada, Fellow
- BC Society of Eye Physicians & Surgeons, Member
- Royal College of Ophthalmologists (UK), Fellow
- Royal College of Surgeons (Glasgow), Fellow
- Canadian Ophthalmological Society, Member
- Canadian Association of Pediatric Ophthalmology, Member

- American Association for Pediatric Ophthalmology and Strabismus, Member
- British Journal of Ophthalmology, Reviewer
- Canadian Journal of Ophthalmology, Reviewer
- Eye, Reviewer
- Journal of the Association for Pediatric Ophthalmology & Strabismus, Reviewer
- Paediatrics and Child Health (Journal of the Canadian Paediatric Society)
- Strabismus, Reviewer

Dr. Patrick Ma

- Canadian Ophthalmological Society, Member. 1987–present
- Society of Specialist Physicians and Surgeons of BC, Member. 1992–present
- American Pediatric Ophthalmologic Society, Member. 1995–present
- Canadian Association of Pediatric Ophthalmologists, Member. 1995–present
- B.C. Society of Eye Physicians and Surgeons, Member. 1994–present
- The Federation of Medical Women of Canada, Member. 1995–present
- The Royal College of Physicians and Surgeons of Canada, Fellow. 1991–present
- Royal College of Physicians and Surgeons of British Columbia, Fellow. 1991–present
- The Canadian Medical Association, Member. 1991–present
- The British Columbia Medical Association, Member. 1991–present
- Canadian Orthoptic Council, Member. 1993–present
- Honorary President of the Canadian Orthoptic Society (TCOS). 2001–present

Dr. David Rossman

- General Medical Council of England (Full Registration). 2005–present
- College of Physicians and Surgeons of British Columbia. 2005–present
- Canadian Ophthalmological Society. 2000–present
- American Academy of Ophthalmology. 2000–present
- Canadian Medical Association. 1999–present
- Ontario Medical Association. 1999–present



Department of Pediatric Orthopedic Surgery

Faculty Members

Dr. Christopher W. Reilly, Associate Professor, Department Head

Dr. Richard D. Beachamp, Clinical Professor

Dr. Kenneth L.B. Brown, Clinical Professor

Dr. Christine M. Alvarez, Associate Professor

Dr. U.K. Kishore Mulpuri, Assistant Professor

Dr. Firoz Miyanji, Clinical Assistant Professor

Dr. Shafique P. Pirani, Clinical Professor

Dr. Alec Black, Clinical Instructor

Dr. Heather Macdonald, Assistant Professor

Staff Members

Jill Kennedy, Research Manager

Michael Nitikman, Research Assistant

Sameer Desai, Research Assistant

Janice Andrade, Research Assistant

Alyssa Howren, Research Assistant

Brenda Whitworth, Administrative Secretary

Ram Johal / Michele Stark, MOA to Dr. C. Reilly

Judy Woodward, MOA to Dr. R. Beachamp

Ivy Ho, MOA to Dr. K. Brown

Marilynn Timbrell, MOA to Dr. C. Alvarez

Jennifer Farr, MOA to Dr. F. Miyanji & Dr. K. Mulpuri

Olivia Edwards, Office Clerk to Dr. F. Miyanji & Dr. K. Mulpuri

Anna Stonehouse, MOA to Dr. S. Pirani

Cory Savitsky, RN, Nurse Clinician, Orthopaedic Clinic

Brenda Willms, RN, Nurse Clinician, Orthopaedic Clinic

Melissa Merrells, RN, Nurse Clinician, Orthopaedic Clinic

Jennifer Dunlop, Nurse Practitioner, Orthopaedic Clinic

Fidel Brooks, Cast Tech, Orthopaedic Clinic

Ricardo Botia, Cast Tech, Orthopaedic Clinic

Shelina Kabani, Orthopaedic Clinic

Manjit Baines, Orthopaedic Clinic

Kyla Oughton, Orthopaedic Clinic

Stacey Miller, PT, CP Clinic

Kim Hesketh, OT, Ortho Clinic

Daphne O'Young, OT, Ortho Clinic

ACADEMIC ACHIEVEMENTS

Highlights and Achievements

- Black AH, Maurer JD, Alvarez CM, Ward V, Davies KR, Mayson TA, Beauchamp RD: 2012 Best Paper Award – “Classification of Mid-foot Break using a Multi-Segment Foot Model and Pedobarography”. Gait & Clinical Movement Analysis Society, Grand Rapids Michigan, MI, USA, May 9-12, 2012
- Miyajni F: 2012 – 2013 SRS Travelling Fellowship, Scoliosis Research Society
- Pirani S: 2012 Humanitarian Award, Pediatric Orthopaedic Society of North America

Academic Presentations

Dr. Christopher Reilly

- Reilly C. “Bone dysplasias and physeal regulation”, International Pediatric Orthopaedic Think Tank (IPOTT) Annual Meeting, Paris, France. September 20-22, 2012

Dr. Kishore Mulpuri

- Mulpuri K, Cashin MS, Chambers HG, Joseph B, Graham HK. “Do surgical wait times affect surgical treatment and peri-operative management of patients with cerebral palsy and subluxated or dislocated hips?: The surgeon’s perspective.” Epoter, Pediatric Orthopaedic Society of North America Annual Meeting, Denver Colorado. May 16-19, 2012
- Mulpuri K, Zabukovec J, Miyajni F, Reilly C, Macdonald H, Hoy C, Race D, Donaldson M, McKay HA. “A comparison of Bone Geometry and Microstructure between the Dominant and Non-dominant Radius of Children.” Epoter: Pediatric Orthopaedic Society of North America Annual Meeting, Denver, Colorado. May 16-19, 2012
- Varghese RA, Amrutha R, Slobogean BL, Mulpuri K. “Obstacles to full-text publication in a peer reviewed journal following presentation of abstracts at the Pediatric Orthopaedic Society of North American Annual Meetings 2003-2005.” Epoter: Pediatric Orthopaedic Society of North America Annual Meeting, Denver, Colorado. May 16-19, 2012
- Miller S, Mayson T, Van Rensburg E, O'Donnell M, Mulpuri K. “The Creation of the British Columbia consensus on hip surveillance for children with cerebral palsy: A collaborative province-wise approach”. Poster presentation: American Academy of Cerebral Palsy and Developmental Medicine Annual Conference. 2012

- Miller S, Mulpuri K. “Putting Knowledge into Practice: Hip Surveillance in British Columbia”. Poster presentation: Canadian Association of Paediatric Health Centres Annual Conference. 2012.
- Miller S, Mayson T, Van Rensburg E, O'Donnell M, Mulpuri K. “The Creation of the British Columbia consensus on hip surveillance for children with cerebral palsy: A collaborative province-wise approach”. Poster presentation: Canadian Association of Paediatric Health Centres Annual Conference. 2012

Dr. Firoz Miyajni

- Miyajni F, Gupta S, Selby M, Samdani AF, Newton PO. “Pre-operative magnetic resonance imaging of the lumbar spine in adolescent idiopathic scoliosis: the incidence of pre-existing degenerative changes”. Poster presentation: IMAST, Istanbul, Turkey. July 2012
- Miyajni F, Samdani AF, Sturm P, Shah SA, Sponseller PD, Newton PO. “Hip subluxation, pelvic obliquity, and scoliosis in the CP population: A random trial or a predictable relationship”. Scoliosis Research Society Annual Meeting, Chicago, Illinois. September 2012
- Marks MC, Bastrom T, Petcharaporn M, Shah SA, Samdani AF, Lonner BS, Miyajni F, Newton PO. “Motion of the unfused lumbar segments remains increased up to six years after fusion for AIS”. Scoliosis Research Society Annual Meeting, Chicago, Illinois. September 2012
- Samdani AF, Belin EJ, Pahys JM, Miyajni F, Cahill PJ, Shufflebarger HL, Lonner BS, Newton PO, Betz RR. “Unplanned return to the operating room in patients with AIS: Are we doing better with pedicle screws than with hybrid constructs?” Scoliosis Research Society Annual Meeting, Chicago, Illinois. September 2012
- Samdani AF, Asghar J, Miyajni F, Marks MC, Hoashi JS, Lonner BS, Cahill PJ, Pahys JM, Newton PO, Betz RR. “Recurrence of rib prominence following AIS surgery with pedicle screws and direct vertebral body rotation”. Scoliosis Research Society Annual Meeting, Chicago, Illinois. September 2012
- Samdani AF, Belin EJ, Miyajni F, Pahys JM, Shah SA, Newton PO, Betz RR, Sponseller PD. “Major peri-operative complications after surgery for cerebral palsy: Assessment of risk factors”. Scoliosis Research Society Annual Meeting, Chicago, Illinois. September 2012

Dr. Shafique Pirani

- Overview of the Ponseti method, casting: Tips and techniques, casting demo, The role of scoring systems/assessment, Teaching the Ponseti method: Ugandan experience." South African Paediatric Orthopaedic Association. Instructional Course Lecture. Tygerberg Medical Campus, Cape Town, South Africa. May 4-5, 2012
- "Recent advances in clubfoot management in developing nations: The Uganda Sustainable Clubfoot Care Project." Pediatric Orthopaedic Society of North America Annual Meeting – Children's Orthopaedics in Underserved Regions (COUR) Session. Denver, Colorado. May 19, 2012
- "Pathophysiology of clubfoot deformity, MRI evaluation of changes in tarsal anlagen and soft tissues during Ponseti casting, Pitfalls using Ponseti method, The Uganda Sustainable Clubfoot Care Project." 10th Ponseti Course. Astrid Lindgren Children's Hospital, Karolinksa University, Stockholm. July 7, 2012
- "The Uganda Sustainable Clubfoot Care Project." 66th Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine: International Affairs Luncheon. Westin Harbour Castle, Toronto, Ontario, Canada. September 14, 2012
- "What is a good result? How do we measure it?" European Ponseti Consensus Meeting on Clubfoot Treatment., Karolinska University Stockholm, Sweden. July 6, 2012
- "Manipulation and casting technique, bracing: Practicalities and problems, relapses: Recognition & management." Public Health Effective National Clubfoot Program, Aga Khan University Hospital, Lahore, Pakistan. December 3-4, 2012
- "Pirani clubfoot score." Aga Khan University Hospital, Pakistan - Surgery Grand Rounds. Karachi, Pakistan. December 5, 2012
- "The Pirani score, The Uganda Sustainable Clubfoot Care Project." Pakistan Orthopaedic Association - Orthocon 2012. Karachi, Pakistan. December 6-9, 2012
- "Current concept on Ponseti method." CURE International India National Clubfoot Conference, Vigyan Bhavan, New Delhi, India. February 9, 2013
- "Assessment and scoring: Problems and areas of controversies, quality assurance (panel discussion), Recommendations after analysis of data (panel discussion)." Cure International India National Clubfoot Conference, Vardhaman Mahavir Medical College & Safdurjung Hospital. February 10, 2013

Dr. Alec Black

- "Analyzing video studies in the home setting: Qualitative and quantitative analysis", SLEEP 26th Annual Meeting of the Associated Professional Sleep Societies. 2012

Dr. Heather Macdonald

- "A comparison of bone geometry and microstructure between the dominant and non-dominant radius of children," Pediatric Orthopaedic Society of North America Annual Meeting, Denver, Colorado. May 2012
- "A comparison of weight status and health-related fitness between Canadian and English 10-year olds," 59th Annual American College of Sports Medicine Meeting, San Francisco, California. May 29-June 2, 2012
- "A comparison of bone geometry and microstructure between the dominant and non-dominant radius of children," Canadian Orthopaedic Association Annual Meeting, Ottawa, Ontario. June 8-10, 2012
- "HR-pQCT measured bone microarchitecture and estimated bone strength can classify postmenopausal women with and without previous forearm fractures", Canadian Orthopaedic Association Annual Meeting, Ottawa, Ontario. June 8-10, 2012
- "Longitudinal assessment of bone mass and strength in perinatally HIV-infected youth." International AIDS Conference Washington, DC. July 2012
- "Bone micro-architecture, estimated bone strength, and muscle strength in elite female athletes: A HR-pQCT study," European Congress on Sports Science, Bruges, Belgium. July 2012
- "Sedentary behavior negatively predicts bone microstructure in adolescent girls", North American Society for Pediatric Exercise Medicine Annual Meeting, August 2012
- "Differences in health-related fitness and physical activity between Canadian and English 15-year olds," International Conference on Physical Activity and Public Health, Sydney, Australia. October 2012
- "Is the bus an overlooked source of active transport to school in Canadian youth?" International Conference on Physical Activity and Public Health, Sydney, Australia. October 2012

ACADEMIC ACHIEVEMENTS

Lectures

Dr. Kishore Mulpuri

- Invited Faculty, Chair: Pediatric Program Development, Canadian Orthopaedic Association Annual Meeting, Ottawa, Ontario. June 8-10, 2012
- Invited Lecturer: Visiting Professor, Balaji Institute of Surgery, Research and Rehabilitation for the Disabled, Tirupati, India. July 25, 2012
- Invited Faculty, Osteogenesis Imperfecta Conference, Montreal, Quebec. October 31-November 1, 2012

Dr. Firoz Miyanji

- Invited Faculty, SRS Pre-Meeting Course, Scoliosis Research Society Annual Meeting, Chicago, Illinois. September 2012
Presentation: "What are the indications for anterior fusion and instrumentation for the treatment of pediatric spinal deformity in 2012?"
Debate: "Has pedicle screw instrumentation and VCR replaced the need for multi-stage surgery for the treatment of severe pediatric spinal deformity?"
- Invited Faculty, SRS Half-day Symposium – "Minimally invasive surgery," Scoliosis Research Society Annual Meeting, Chicago, Illinois. September 2012

Dr. Shafique Pirani

- "Parent satisfaction with foot appearance and function after 3 years of Ponseti treatment in Uganda." Ponseti International Clubfoot Symposium, University of Iowa, Iowa City. October 4-5, 2012
- "Clinical and pedobarographic analysis of Ponseti treated clubfeet in Uganda." Pediatric International Clubfoot Symposium, University of Iowa, Iowa City. October 4-5, 2012
- "The PBS Score – A clinical assessment tool of deformity in the recurrent clubfoot following Ponseti treatment." Ponseti International Clubfoot Symposium, University of Iowa, Iowa City. October 4-5, 2012
- "Barriers to clubfoot treatment adherence: A case-control study with USCCP". Ponseti International Clubfoot Symposium, University of Iowa, Iowa City. October 4-5, 2012

Formal Teaching

Dr. Christopher Reilly

- "The versatility of the ilizarov external fixator in the management of lower limb deformities of bone and soft tissue in children – A perspective from a quarter century of one surgeon's experience," BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. April 18, 2012
- "Session 6. Optimizing surgical outcomes/reducing the burden of complications of orthopaedic procedures: "Improving patient outcomes in pediatric orthopaedics," Department of Orthopaedic Update & Research Day, UBC. May 3-4, 2012 – 2 days
- Resident Oral Exams, UBC Department of Orthopaedics, VGH. May 10, 2012 – 4 hours
- Resident Practice Orals, UBC Department of Orthopaedics, VGH. May 25, 2012 – 2-1/2 hours
- "What not to let your children do this summer!", BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. June 27, 2012 – 1 hour
- "The role of the orthopaedic surgeon in diagnosing child abuse," Resident Teaching, BCCH. August 20, 2012 – 1 hour
- "Growth plate regulation and clinical correlates," BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. October 10, 2012 – 1 hour
- "Congenital scoliosis," Resident Teaching, BCCH. October 12, 2012 – 1 hour
- "Musculo-skeletal manifestations of pediatric leukemia", "Severe upper limb extremity trauma: Amputation vs limb salvage", "Functional outcomes in the pediatric orthopaedic literature", "The JESS frame in foot deformity", BCCH presentation at OPSEI Rounds, BCCH. November 6, 2012 – 1 hour
- "Case presentation – Are we making a difference? Measuring meaningful outcomes in children with disabilities," Department of Orthopaedics Education Day (Dr. Unni Narayanan, Visiting Professor), BCCH. November 9, 2012 – ½ hour
- "The pediatric orthopaedic examination," Resident Teaching, BCCH. December 14, 2012 – 1 hour

Dr. Richard D. Beauchamp

- “Cerebral palsy”, Resident Teaching, BCCH. April 10, 2012 – 1 hour
- “Sports injuries”, Running Room, Vancouver. April 10, 2013 – 1 hour
- “Arthroplasty materials”, UBC Department of Orthopaedics, Vancouver Acute Grand Rounds. April 11, 2012 – 1 hour
- “The versatility of the ilizarov external fixator in the management of lower limb deformities of bone and soft tissue in children – A perspective from a quarter century of one surgeon’s experience”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. April 18, 2012 – 1 hour
- “Nutrition, health, shoes, form”, Running Room Event. April 27-29, 2012 – 6 hours
- “Sports injuries”, Jasper RR Get Fit W/E. April 28, 2012 – 1.5 hours
- Resident Oral Exams, UBC Department of Orthopaedics, VGH. May 10 – 5 hours
- Resident Practice Orals. May 24, 2012 – 2 hours
- “Cerebral palsy”, Resident Teaching, BCCH. June 18, 2012 – 1 hour
- “Spinal dysraphism and myelomeningocele”, Resident Academic Half-Day, UBC Department of Orthopaedics, VGH. June 21, 2012 – 1.5 hours
- “What not to let your children do this summer!”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. June 27, 2012 – 1 hour
- “Cerebral palsy”, Resident Teaching, BCCH. August 14, 2012 – 1 hour
- INDE Clinical Skills PBL Tutorial: Hip & Gait, Department of Orthopaedics, VGH. October 10, 2012 – 4 hours
- “Growth plate regulation and clinical correlates”, BCCH presentation at the Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. October 10, 2012 – 1 hour
- “Cerebral Palsy”, Resident Teaching, BCCH. October 16, 2012 – 1 hour
- “Musculo-skeletal manifestations of pediatric leukemia”, “Severe upper limb extremity trauma: Amputation vs limb salvage”, “Functional outcomes in the pediatric orthopaedic literature”, “The JESS frame in foot deformity”, BCCH presentation at OPSEI Rounds, BCCH. November 6, 2012 – 1 hour
- “Case presentation: Crouch gait”, Department of Orthopaedics Education Day (Dr. Unni Narayanan, Visiting Professor), BCCH. November 9, 2012 – ½ hour

- “Case presentation: CP hemiplegia for upper extremity”, Department of Orthopaedics Education Day (Dr. Unni Narayanan, Visiting Professor), BCCH. November 9, 2012 – ½ hour (Stacey Miller, OT presented)
- Resident Oral Exams, UBC Department of Orthopaedics, VGH. November 15, 2012 – 5 hours
- “Cerebral palsy”, Resident Teaching, BCCH. December 7, 2012 – 1 hour

Dr. Kenneth Brown

- “The versatility of the ilizarov external fixator in the management of lower limb deformities of bone and soft tissue in children – A perspective from a quarter century of one surgeon’s experience”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. April 18, 2012 – 1 hour
- “What not to let your children do this summer!”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. June 27, 2012 – 1 hour
- “Bone & soft tissue tumors”, Resident Teaching, BCCH. July 19, 2012 – 1 hour
- “The lower extremity”, Resident Teaching, BCCH. August 30, 2012 – 1 hour
- “Slipped capital epiphysis”, Resident Teaching, BCCH. September 27, 2012 – 1 hour
- “Perthes, SCFE, septic hip, OM, & transient synovitis”, Resident Academic Half-Day, UBC Department of Orthopaedics, VGH. November 1, 2012 – 4 hours
- “The child with a limb deficiency”, Resident Teaching, BCCH. November 15, 2012 – 1 hour

Dr. Christine Alvarez

- “The versatility of the ilizarov external fixator in the management of lower limb deformities of bone and soft tissue in children – A perspective from a quarter century of one surgeon’s experience”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. April 18, 2012 – 1 hour
- “Paediatric hip: Are we there yet”, Department of Orthopaedic Update & Research Day, VGH. May 3-4, 2012 – 2 days
- “What not to let your children do this summer!”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. June 27, 2012 – 1 hour

ACADEMIC ACHIEVEMENTS

- “The Skeletal Dysplasias”, Resident Teaching, BCCH. July 31, 2012 – 1 hour
- “Cervical abnormalities, back pain, and the surgical treatment of spondylolysis and spondylolisthesis”, Resident Teaching, BCCH. September 13, 2012 – 1 hour
- “The upper limb”, Resident Teaching, BCCH. October 2, 2012 – 1 hour
- “CP and adult/pediatric hip osteotomy”, Department of Orthopaedic, Vancouver Acute Grand Rounds, VGH. October 3, 2012 – 1 hour
- “Growth plate regulation and clinical correlates”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. October 10, 2012 – 1 hour
- “Musculo-skeletal manifestations of pediatric leukemia”, “Severe upper limb extremity trauma: Amputation vs limb salvage”, “Functional outcomes in the pediatric orthopaedic literature”, “The JESS frame in foot deformity”, BCCH presentation at OPSEI Rounds, BCCH. November 6, 2012 – 1 hour
- “Case presentation: Vertical talus”, Department of Orthopaedics Education Day (Dr. Unni Narayanan, Visiting Professor), BCCH. November 9, 2012 – ½ hour (Dr. Alvarez/Dr. Ali, Fellow presenting)
- “The skeletal dysplasias”, Resident Teaching, BCCH. December 18, 2012 – 1 hour

Dr. Kishore Mulpuri

- “Bone and soft tissue tumor”, Resident Teaching, BCCH. April 5, 2012 – 1 hour
- “The versatility of the ilizarov external fixator in the management of lower limb deformities of bone and soft tissue in children – A perspective from a quarter century of one surgeon’s experience”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. April 18, 2012 – 1 hour
- “Hip impingement in children and adolescents: Where do we stand today”, (Dr. Harish Hosalkar, Visiting Professor presenting), Vancouver Acute Grand Rounds, Department of Orthopaedics. April 25, 2012 – 1 hour
- “Pediatric hip: Are we there yet?”, RW McGraw Lecture – Department of Orthopaedic Update and Research Day, VGH. May 4-5, 2012
- “Case discussion: Complex cases in my specialty: Upper extremity sports”, Breakout Session #4, Department of Orthopaedic Update and Research Day, VGH. May 4-5, 2012
- “What not to let your children do this summer!”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics. VGH, June 27, 2012 – 1 hour

- “The foot”, Resident Teaching, BCCH. July 12, 2012 – 1 hour
- “Pediatric orthopaedic examination”, Resident Teaching, BCCH. August 23, 2012 – 1 hour
- “Management of fractures”, Resident Teaching, BCCH. September 20, 2012 – 1 hour
- “CP and adult/pediatric hip osteotomy”, Resident Academic Half-Day, Department of Orthopaedics, VGH. October 4, 2012 – 4 hours
- INDE Clinical Skills PBL Tutorial: “Knee, Foot & Ankle”, UBC, Vancouver, BC. October 17, 2012 – 4-1/2 hours
- “Musculo-skeletal manifestations of pediatric leukemia”, “Severe upper limb extremity trauma: Amputation vs limb salvage”, “Functional outcomes in the pediatric orthopaedic literature”, “The JESS frame in foot deformity”, BCCH presentation at OPSEI Rounds, BCCH. November 6, 2012 – 1 hour
- “Limb length discrepancy”, Resident Teaching, BCCH. November 8, 2012 – 1 hour
- “Case presentation: Crouch gait” Department of Orthopaedics Education Day (Dr. Unni Narayanan, Visiting Professor), BCCH. November 9, 2012 – ½ hour (Beauchamp R, Mulpuri K, Hesketh K)
- “Case presentation: CP diplegia” Department of Orthopaedics Education Day (Dr. Unni Narayanan, Visiting Professor), BCCH. November 9, 2012 – ½ hour (Beauchamp R, Mulpuri K, Miller S)
- “Case Presentation: CP hemiplegia for upper extremity”, Department of Orthopaedics Education Day (Dr. Unni Narayanan, Visiting Professor), BCCH. November 9, 2012 – ½ hour (Mulpuri K, Pike J, O’Young, D)

Dr. Firoz Miyanji

- “The versatility of the ilizarov external fixator in the management of lower limb deformities of bone and soft tissue in children – A perspective from a quarter century of one surgeon’s experience”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. April 18, 2012 – 1 hour
- “Live surgical demonstration: MIS in AIS” (BCCH), “Hands on practical lab: MIS in Deformity (UBC), Course Co-Chairman: FOCUS: MIS for Adolescent Deformity”, BCCH/UBC, Department of Orthopaedic Update and Research Day, Vancouver, BC. May 2012 – 1 hour
- “Pediatric spine deformity – Non-scoliosis”, Resident Academic Half-Day, UBC Department of Orthopaedics, VGH. June 14, 2012 – 3 hours
- “What not to let your children do this summer!”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. June 27, 2012 – 1 hour

- “Idiopathic scoliosis”, Resident Teaching, BCCH, July 26, 2012 – 1 hour
- “Cervical abnormalities, back pain, and the surgical treatment of spondylolysis and spondylolisthesis”, Resident Teaching, BCCH. September 13, 2012 – 1 hour
- “Growth plate regulation and clinical correlates”, BCCH presentation at Vancouver Acute Grand Rounds, Department of Orthopaedics, VGH. October 10, 2012 – 1 hour
- “Idiopathic scoliosis”, Resident Teaching, BCCH. October 25, 2012 – 1 hour
- “DDH”, Resident Academic Half-Day, Department of Orthopaedics, VGH. September 19, 2012 – 4 hours
- “Cervical abnormalities, back pain, and the surgical treatment of spondylolysis and spondylolisthesis”, Resident Teaching, BCCH. December 6, 2012 – 1 hour

Dr. Shafique Pirani

- Teaching: INDE Clinical Skills PBL Tutorial: Knee, Foot & Ankle. October 19, 2012 – 3.5 hours
- Teaching: Surg 512 Global Disability, A Surgical Care. November 1, 2012 – 1.5 hours

Dr. Heather Macdonald

- Teaching: Interprofessional Health Mentors Program (ongoing for 14 months). 2012-2013 – 2 hours per week
- Teaching: FMED 423. October 29, 2012 – 1 hour
- Examination Chair, “Master’s Thesis Defence”, Experimental Medicine. April 27, 2012
- Course Facilitator, “Responsible Conduct of Research”, UBC Faculty of Graduate Studies. June 5-6, 2012

Publications

1. **Miyanji F**, Slobogean GP, Samdani AF, Betz RR, **Reilly CR**, Slobogean BL, Newton PO. Is larger scoliosis curve magnitude associated with increased peri-operative healthcare resource utilization?: A multi-center analysis of 325 adolescent idiopathic scoliosis curves. *Journal of Bone Joint Surgery [Am]*. 2012 94; (9):809-813

2. Maurer JD, Ward V, Mayson TA, Davies KR, **Alvarez CM**, **Beauchamp RD**, **Black AH**. A kinematic description of dynamic mid-foot break in children using a multi-segment foot model. *Gait & Posture*. 2012 December.
3. Chhina HK, Davis JC, **Alvarez CM**. Health related quality of life in people with hereditary multiple exostoses. *Journal of Pediatric Orthopaedics*. 2012 32;(2):210-214.
4. **Mulpuri K**, Wilkins K. The treatment of displaced supracondylar humerus fractures: evidence-based guideline. *Journal of Pediatric Orthopaedics*. 2012 32; (2):S143-52.
5. Saran N, Varghese R, **Mulpuri K**. Do Femoral or Salter Innominate Osteotomies Improve Femoral Head Sphericity in Legg-Calve-Perthes Disease? A Meta-analysis. *Clinical Orthopaedics and Related Research*. 2012 470;(9):2383-2393.
6. **Mulpuri K**, Hosalkar H, Howard A. AAOS clinical practice guideline: the treatment of pediatric supracondylar humerus fractures. *Journal of the American Academy of Orthopaedic Surgeons*. 2012 20;328-338.
7. Hosalkar H, **Mulpuri K**. Legg-calve-perthes disease: Where do we stand after 100 years?” Editorial comment. *Journal of Clinical Orthopaedic Related Research*. 2012 470; (9):2345-2346.
8. Goetz TJ, Costa JA, Slobogean G, Patel S, **Mulpuri K**, Travlos A. Contribution of flexor pollicis longus to pinch strength: An in-vivo study. *Journal of Hand Surgery*. 2012 37; 2304-2309.
9. Howard A, **Mulpuri K**, Abel MF, Braun S, Bueche M, Epps H, Hosalkar H, Mehlman CT, Scherl S, Goldberg M, Turkelson CM, Wies JL, Boyer K. The treatment of pediatric supracondylar humerus fractures. *Journal of American Academy of Orthopaedic Surgeons*. 2012 20; 320-327.
10. Vaccaro AR, Fisher CG, Angevine PD, Patel AA, **Mulpuri K**, Thomas KC, Whang PG, Prasad SK. Evidence-based recommendations for spine surgery. *Spine*. 2012 37; (15):E875-E882.
11. Samdani AF, Hwang SW, **Miyanji F**, Lonner B, Marks MC, Sponseller PD, Newton PO, Cahill PJ, Shufflebarger HL, Betz RR. Direct vertebral body derotation, thoracoplasty, or both: Which is better with respect to inclinometer and Scoliosis Research Society-22 scores?” *Spine*. 2012 37; (14):E849-53.

ACADEMIC ACHIEVEMENTS

12. Marks M, Newton PO, Petcharaporn M, Bastrom TP, Shah S, Betz R, Lonner B, **Miyani F**. Post-operative segmental motion of the unfused spine distal to the fusion in 100 patients with adolescent idiopathic scoliosis. *Spine*. 2012 37;(10):826-832.
13. Shaheen S, Jaiballa H, **Pirani S**. Interobserver reliability in Pirani clubfoot severity scoring between a paediatric orthopaedic surgeon and a physiotherapy assistant. *Journal of Pediatric Orthopaedics B*. 2012 21(4); 366-368.
14. Nishiyama KK, **Macdonald HM**, Moore SA, Fung T, **Boyd SK**, McKay HA. Cortical porosity is higher in boys compared with girls at the distal radius and distal tibia during pubertal growth: An HR-pQCT study. *J Bone Miner Res*. 2012 27;273-282.
15. **Macdonald HM**, Tan VPS. Physical activity and children's bone health: A little goes a long way. *Exerc Sport Sci Rev*. 2012 40;2-3.
16. Pauchard Y, Liphardt AM, **Macdonald HM**, Hanley DA, Boyd SK. Quality control for bone quality parameters affected by subject motion in high-resolution peripheral quantitative computed tomography. *Bone*. 2012 50;1304-10.
17. Tan VPS, **Macdonald HM**, Kim SJ, Voss C, Wharf-Higgins J, Naylor PJ, McKay HA. Muscle strength predicts radial bone structure and strength in adolescent boys and girls. *J Bone Miner Res*. 2012 27 (Suppl 1).
18. Prior J, **Macdonald H**, Zhou W, Berger C, Kovacs C, Hanley D, Anastasiades T, Kaiser S and the CaMOS Reserch Group. Combined hormonal oral contraceptive use and bone mineral density change in the pre-menopausal population – 10-year data from the Canadian multicentre osteoporosis study. *J Bone Miner Res*. 2012 27 (Suppl 1).
19. Gabel L, McKay HA, Nettlefold L, Race D, **Macdonald HM**. Lean body mass mediates associations between physical activity and bone microstructure in post-menarcheal girls. *J Bone Miner Res*. 2012; 27(Suppl 1).
20. Kim SJ, **Macdonald H**, Nettlefold L, Gabel L, McKay HA 2. Changes in cortical density and microstructure in pre- and post-menarcheal girls: A 12-month HR-pQCT study". *J Bone Miner Res*. 2012; 27 (Suppl 1).
21. Burt LA, **Macdonald MH**, Hanley DA, Boyd SK. Changes in bone mineral density and bone strength from 16 to 34 years of age, as assessed by high resolution peripheral quantitative computed tomography. *J Bone Miner Res*. 2012; 27 (Suppl 1).

22. Hoy C, **Macdonald MH**, McKay HA. A comparison of trabecular bone microstructure at the distal radius and distal tibia between healthy weight and overweight adolescents: An HR-pQCT study. *Clin Ortho Rel Res*. 2013; 471:1214-25.
23. **Macdonald MH**, Chu J, Nettlefold L, Maan E, Forbes JC, Cote H, Alimenti A. CIHR Team on HIV Therapy and Aging. Longitudinal assessment of bone mass and strength in children and adolescents perinatally infected with HIV. *J Musculoskelet Neuronal Interact*. 2013; 13:53-65.
24. **Beauchamp RD**. "Sports Injuries" Running Room Magazine, Publ. Edmonton, Alberta, 2000-Present.

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
An investigation into risk-taking behaviour, bone microstructure and fracture between the sexes: What underpins fracture in boys compared to girls during growth?	H McKay	SK Boyd, M Burrows, LC. Li, HM Macdonald , K Khan, K Mulpuri , PJ Naylor, RE Rhodes	Canadian Institutes of Health Research (2009-2013)	\$1595,133
Functional outcomes following orthopaedic surgery based on gait laboratory results versus observational gait analysis in ambulatory children in cerebral palsy: A multicenter randomized control trial	U Narayanan	C Alvarez , DL Fehlings, S Klejman, JH Wedge, AR Willan, KF Zabjek, K Mulpuri (Collaborator)	Canadian Institutes of Health and Research (CIHR) (COMP) 2009-2013	\$314,633

Gait and Plantar Pressure Outcomes of Children with Clubfoot Treated with Botulinum Toxin-A	A Black	C Alvarez	BCCH Telethon Competition	\$29,390.40 Nov 2012
Quality of Indicators in Scoliosis: A scoping review and meeting of experts	C Brauer	C Reilly	Bone & Joint Health Research Eagles Pediatric Spine Research	\$24,215 2012/2013
Pediatric Orthopaedic Research Support	C Reilly		BCCH Foundation Circle of Care	\$20,000
Sustainable Clubfoot Care in Bangladesh	S Pirani	R Mathias	CIDA	\$4,320,160 (2012-2017)
Gait and Plantar Pressure Outcomes of Children with Clubfoot Treated with Botulinum Toxin-A	A Black	J Maurer, K Davies, T Mayson, V Ward, R Beauchamp, C Alvarez,	BCCH Telethon	\$29,390 (2013-2014)
Innovation of seat cushion fabrication using 3D scanning and computerized milling	A Black	J Maurer D Cooper I Schmid	BCCH – Sunny Hill Foundation	\$30,000 2013

Rotational Profiles: Correlation between computed tomography and 3D gait measures	A Black	K Mulpuri R Beauchamp R Cairns	UBC Orthopaedic Research Excellence Fund (OREF)	\$27,975 2012
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Student Supervision

Fellows Supervised

- Dr. Sinead Boran, Clinical Fellow (July 1, 2011-June 30, 2012)
- Dr. Sumit Gupta, Clinical Fellow (August 1, 2011-July 31, 2012)
- Dr. Caroline Forsythe, Clinical Fellow (August 1, 2011-July 31, 2012)
- Dr. Michael Selby, Clinical Fellow (January 1, 2012-June 30, 2012)
- Dr. Anwar Ali, Clinical Fellow (July 1, 2012-May 1, 2013)
- Dr. Amardeep Singh, Clinical Fellow (July 1, 2012 –Present)
- Dr. Dean Mistry, Clinical Fellow (August 1, 2012-March 31, 2013)
- Dr. Ahmed Al-Turkistany, Clinical Fellow (October 1, 2012-Present)

Other

- Dr. Jasmine Allaire, Pediatric Emergency Medicine Fellow
- Dr. Vikram Subhaney, Pediatric Emergency Medicine Fellow

Residents Supervised

- UBC Orthopaedic Residency Program:
- Steven Kennedy, PGY V
- Parth Lodhia, PGY V
- Jason Strelzow, PGY I
- Brent Weatherhead, PGY IV
- Jeffrey Potter, PGY I
- Catherine O'Brien, PGY V
- Calvin Wang, PGY V
- Paul Voorhoeve, PGY IV
- David Cruickshank, PGY I
- Scott Hughes, PGY V
- Peter Grunau, PGY IV
- Jane Yeoh, PGY I

ACADEMIC ACHIEVEMENTS

- Chad Hiller, PGY IV
- Tym Frank, PGY I
- Michelle Zec, PGY III
- James Douglas, PGY V
- Luke Pugh, PGY V
- Ravi Ghag, PGY IV
- Lisa Howard, PGY I
- Gillian Simonett, UBC Peds Rehab Resident
- Paul Chapman, UBC Peds Rehab Resident
- Patricia Larouche, UoMcMaster Ortho Resident, PGY III
- Rubini Pathy, UoMcMaster Ortho Resident, PGY III
- Warda Toma, UBC Peds Resident, PGY IV
- Emily Budd, UBC PT Rehab Resident (Dr. Beauchamp's clinic on June 13)
- Kelly Zwicker, UBC Peds Resident, PGY IV
- Kelly Luu, UBC Peds Resident, PGY IV

Students Supervised

- 3rd Year Medical Students – 3
- 4th Year Medical Students – 15
- BCIT Prosthetic & Orthotic Students (Sept 27 – Nov 29, 2011) - 12
- Research Medical Students – 2
- MSc (Thesis) Student – 1
- PDF Student – 1
- PhD Student - 1

Committee Participation

Dr. Christopher Reilly

- Child and Family Research Institute, Member
- Centre for Hip Health, Member
- Royal College Subspecialty Committee, Member
- Orthopaedic Re-design Committee, BCCH, Member
- Department of Paediatric Orthopaedic Surgery, BCCH, Dept. Head
- Surgical Cabinet Meeting, Member
- Surgical Services Advisory Committee (SSAC), Member
- The Department of Pediatric Surgery Surgical Cabinet, Member

- Orthopaedic Faculty Advisory Committee, UBC Member
- Orthopaedic Academic Council, University of British Columbia, Member
- Merit & PSA Committee, UBC Department of Orthopaedics, Member
- Spina Bifida Clinic, BCCH, Consultant
- Muscular Diseases Clinic, BCCH, Consultant
- Pediatric Orthopaedic Society of North America Association of Surgical Educators, Member
- Canadian Orthopaedic Association, Member
- Scoliosis Research Society, Member
- British Columbia Medical Association, Member
- Canadian Medical Association, Member
- British Columbia Orthopaedic Association, Member
- Journal of Pediatric Orthopaedics, Pediatric Society of North America, Reviewer

Dr. Richard Beauchamp

- Shriner's Gait Lab, Sunny Hill Health Centre, Medical Director (BCCH)
- Osteoporosis Group, BCCH, Member
- Quality of Care Surgical/Neurology, BCCH, Member
- Promotions Committee, UBC Orthopaedics, Member
- BCIT Program Advisory Committee, and Prosthetic & Orthotics Program, Member
- Regional Hospital, Outreach Kootenay Lake, Consultant
- British Columbia Medical Association, Member
- British Columbia College of Physicians and Surgeons of Canada, Member
- Association of Children's Prosthesis & Orthotic Clinics (ACPOC), Member
- Canadian Medical Association, Member
- Canadian Orthopaedic Association, Member
- Pediatric Orthopaedic Society of North America, Member
- Advisory Panel, Running Room of Canada, Member
- CP Association of Canada, Sports Classifier, Member
- Gait and Clinical Motion Analysis Society, Member
- American Academy of Cerebral Palsy and Development Medicine, Member
- VANOC, Member
- Spasticity Advisory Committee, Allergan Canada, Member
- Clinical Journal of Sports Medicine, Reviewer
- Running Room, Canada, Instructor

Dr. Kenneth Brown

- Established only Canadian Center for Fitbone Surgery 2010, Member
- American Academy of Orthopaedic Surgeons, Member
- British Columbia Medical Association, Member
- Association of Bone and Joint Surgeons, Member
- Canadian Medical Association, Member
- Canadian Sarcoma Group, Member
- Children's Oncology Group – Bone Tumor Steering Committee, Soft Tissue Sarcoma Steering Committee, Member
- Limb Lengthening and Reconstructive Society ASAMI North America, Member
- Musculoskeletal Tumor Society, Member
- Orthopaedic Research Society, Member
- Pediatric Orthopaedic Society of North America, Member
- Canadian Joint Replacement Registry, Provincial Representative
- American Academy of Orthopaedic Surgeons Outcomes Committee, Member
- POSNA Outcomes Sub-Committee/AAOS Pediatrics Instrument Work Group, Pediatric Orthopaedic Society of North America, Member
- Epidemiology and Outcomes Committee, Canadian Orthopaedic Association, Member
- Site Specific Advisory Group, Canadian Committee on Cancer Staging, Member
- Journal of Bone and Joint Surgery, Reviewer
- Clinical Orthopaedics and Related Research. Reviewer
- Pediatric Blood and Cancer Journal, Reviewer
- Canadian Journal of Surgery, Reviewer
- Grant Review Committee Fond de la Recherche en Sante du Quebec
- BC Cancer Agency, Consultant

Dr. Christine Alvarez

- Trauma Division Committee, Division of Paediatric Orthopaedics, UBC
- Appointment, Reappointment, Promotion, Tenure (ARPT) Committee, UBC Department of Orthopaedics, Member
- Multiple Hereditary Exostoses (MHE) Scientific Advisory Board, Member
- Pharmaceutical Services Division (PDS), UBC, Reviewer

- Anatomy Working Group, Canadian Botulinum Toxin Conference (CBTC), Member
- Steering Committee, Canadian Botulinum Toxin Conference (CBTC), Member
- Examination Panel, Royal College of Physicians and Surgeons of Canada, Orthopaedic Surgery, Examination Board 2008-2012, Member
- Canadian Medical Association, Member
- Canadian Orthopaedic Association, Member
- Pediatric Orthopaedic Society of North America, Member
- BC College of Physicians and Surgeons, Member
- Society of Specialists, Member
- BC Orthopaedic Association, Member
- BC Medical Association, member
- Journal of Clinical Genetics, Reviewer
- Journal of Pediatric Orthopaedics, Reviewer
- Canadian Journal of Surgery, Reviewer
- Clinical Orthopaedics and Related Research, Reviewer
- Archives of Medical Research, Reviewer
- Prenatal Diagnosis, Reviewer

Dr. Kishore Mulpuri

- Centre for Hip Health, Member
- Evidence Based Medicine Committee, Pediatric Orthopaedic Society of North America, Chair
- President's Subspecialty Advisory Council, Canadian Orthopaedic Association, Member
- Pediatric Orthopedic Sub-Specialty, Canadian Orthopaedic Association, Program Committee & Chair
- Pediatric Orthopaedic Society of North America Clinical Trials Committee, Chair
- Canadian Paediatric Orthopaedic Research Group, Organizer
- Innovative Acute Care and Technologies Cluster (iACT) Steering Committee, Child and Family Research Institute, BCCH Representative
- Research Committee on Child Restraint Seat Safety, Member
- International Hip Dysplasia Institute, Medical Advisory Committee, Research Director
- American Academy of Orthopaedic Association Society on Developmental Hip Dysplasia, Committee Chair

ACADEMIC ACHIEVEMENTS

- UBC Clinical Ethics Research Board, Member
- Karnataka Medical Council, Member
- Karnataka Orthopaedic Association, Member
- Indian Orthopaedic Association, Member
- Paediatric Orthopaedic Society of India, Member
- Asia Pacific Orthopedic Association, Member
- British Columbia Medical Association, Member
- Canadian Medical Association, Member
- Pediatric Orthopedic Society of North America, Member
- Western Society for Pediatric Research, Member
- Journal of Pediatrics, Reviewer
- Journal of Spine, Reviewer
- Journal of Clinical Epidemiology, Reviewer
- Western Society for Pediatric Research, Regional Meeting, Reviewer
- Canadian Institutes of Health Research, Reviewer
- Journal of Pediatrics, Reviewer
- Journal of Children's Orthopaedics, Reviewer
- Journal of Orthopaedic Surgery, Reviewer
- Journal of Pediatric Orthopaedics, Part B, Reviewer
- Research Committee on Child Restraint Safety, Member
- Child and Family Research Institute Innovations in Acute Care and Technology Cluster, Cluster Representative

Dr. Firoz Miyanji

- British Columbia Medical Association, Member
- Canadian Orthopaedic Association, Member
- Pediatric Orthopaedic Society of North America, Canadian Member
- Pediatric Orthopaedic Society of North America, Lead Spine Panel Research Committee, Member
- Canadian Spine Society, Member
- Canadian Paediatric Spinal Deformity Study Group, Member
- American Academy of Orthopaedic Surgeons Resident/Fellow, Member
- Harms Study Group, Core Member
- Scoliosis Research Society, Candidate member
- Collaborative Spine Research Forum Advisory, Council Member
- Resident Program Committee, UBC Department of Orthopaedics, Member

Dr. Shafique P. Pirani

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

Dr. Alec Black

- Gait and Clinical Motion Analysis Society, Member

Dr. Heather Macdonald

- American Society for Bone and Mineral Research, Member
- International Bone and Mineral Society, Member
- Canadian Institutes of Health Research Doctoral Research Award and Canada Graduate Scholarships
- Master's Award Peer Review Committee, Member, November 2011-present
- Child and Family Research Institute Research Awards Committee, Member, January 2012-Present
- Clinical Journal of Sports Medicine, Reviewer, 2006-Present
- Med Sci Sports Exerc, Reviewer, 2007-Present
- Osteoporos Int, Reviewer, 2008-Present
- Journal of Bone and Mineral Research, Reviewer, 2009-Present
- Journal of School Health, Reviewer, 2010-Present
- Australia National Health and Medical Research Council, Grants Reviewer, 2012
- Sports Medicine, Reviewer, 2012

Projects and Initiatives in Progress

Dr. Christopher Reilly

- Reilly CW, Mulpuri K, Choit RL. “Trans-physal anterior cruciate ligament reconstruction in skeletally immature patients”.
- Mulpuri K, Reilly CW, Tredwell SJ. “Management of displaced supracondylar fractures of the humerus using lateral versus crossed K-wires: A prospective randomized clinical trial”. *Recruitment in progress.*
- Reilly CW, Anserimino M, Mulpuri K, Purdy FR, Tredwell SJ. “The effect of femoral nerve block on opioid requirements following anterior cruciate ligament reconstruction in the paediatric population: A double blind, prospective, randomized controlled trial”. *Recruitment in progress.*
- Mulpuri K, Anserimino M, Montgomery C, Purdy R, Lehman W, Reilly CW, Tredwell SJ. “The effect of femoral nerve block on morphine requirements following intramedullary nailing of femoral fractures in paediatric patients”. *Recruitment in progress.*
- Mulpuri K, Jain R, Dyke L, Varghese R, Miyajni F, Reilly CW. “Taping vs. splinting vs. above elbow casting for Type I supracondylar fractures of the humerus in children: A randomized controlled trial”. *Recruitment in progress.*
- Mulpuri K, Bellows DB, Valentine N, Reilly CW. “The long-term clinical and functional outcomes of children with congenital muscular torticollis following conservative treatment”. *Recruitment in progress.*
- Mulpuri K, Miyajni F, Reilly CW. “A clinical prediction model for growth arrest in pediatric physal fractures”. *Recruitment in progress.*
- Miyajni F, Reilly CW, Mulpuri K. “The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study”. *Recruitment in progress.*
- Miyajni F, Mulpuri K, Saravanja D, Newton PO, Reilly CW. “C1 lateral mass screw fixation in children: Indications, outcomes, and technique in 11 consecutive patients”. *Manuscript in progress.*
- Miyajni F, Slobogean G, Samdani A, Betz R, Reilly C, Slobogean BL, Newton P. “Larger curve magnitude is associated with increased peri-operative healthcare resource utilization: A multi-centre analysis of 422 adolescent idiopathic scoliosis curve”. *Manuscript in progress.*

Dr. Richard D. Beauchamp

- Book Chapter – “Gait” *In progress.*
- Research: Long term F/U ITW; Mid-foot Break; Hemiplegic Gait

Dr. Christine Alvarez

Data registries: I have established three data registries which did not previously exist and are now linked to other databases

- *Clubfoot*
This database has 436 patients with idiopathic and non-idiopathic clubfeet, Metatarsus Adductus, Congenital Vertical Talus, Spina Bifida. This database is linked to the Gait Lab database and the Pedobarographic database.
- *Hereditary Multiple Exostoses*
HME database stores information regarding the Phenotype-Genotype correlation in HME, anatomic burden of HME and Quality of Life in HME
- *Pedobarography*
This database consists of normal and clubfoot pedobarographic profiles of children. I have established a database of 146 normal subjects providing normal values for other researchers. This database is linked to clubfoot database and Gait Lab database

Clubfoot

- Alvarez C, DeVera Mary, Chhina HK, Williams L, Durlacher K, Kaga S. “Two-year clinical and pedobarographic outcome of children with idiopathic clubfoot treated with manipulation, casting and adjuvant Botulinum A toxin. **Proposed venue:** Journal of Bone and Joint Surgery (90% completed, data collected and preparing the manuscript)
- Case Report: Peroneal Nerve Palsy in Clubfoot Population (*data collected and preparing manuscript*).
- A Double-Blind, Randomized Control Trial Comparing Botulinum A Toxin and Placebo in the Treatment of Idiopathic Clubfoot (multicentre trial) – started in 2006, finished data collection February 2011 (*waiting for second site to finish data collection*).
- A Double-Blind, Randomized Control Trial Comparing botulinum A Toxin and Placebo in the Treatment of Idiopathic Clubfoot (multicentre trial) – ultrasound study of effect of BTX (*data collection finished, analysis and manuscript preparation underway*)
- Genetic Studies of clubfoot (CTEV) is a collaborative project with the University of Houston, Texas to explore the genetic causes of clubfoot which is in progress since 2005 (ongoing data collection)
- Adverse Events in clubfoot children treated with Botulinum toxin A under the age of two years (*manuscript preparation underway*)

ACADEMIC ACHIEVEMENTS

Hereditary Multiple Exostoses

- Genotype-Phenotype – Quality of life correlation in HME (*data collection finished, statistical analysis underway*)
- Disease specific questionnaire for Hereditary Multiple Exostoses (*ongoing data collection*)
- The First Clinical Instance of Hereditary Multiple Exostoses in families (*manuscript preparation underway*)
- The influence of gender on the anatomic burden of hereditary Multiple Exostoses
- Development of a HME Orthopaedic Severity Score (*ongoing data collection and analysis*)

Gait

- Pedobarographic profile of clubfoot patients (*data collection complete, analysis and manuscript preparation underway*)
- Gait analysis of clubfoot patients (*ongoing data collection*)
- Mid-foot Break: A clinical description and a new perspective (*ongoing data collection, analysis and manuscript preparation underway*)
- Crouch Gait in children with Cerebral Palsy (*ongoing data collection*)

Dr. Kishore Mulpuri

- Mulpuri K, Wilkins K. “The treatment of displaced supracondylar humerus fractures: Evidence-based guideline,” *Journal of Pediatric Orthopaedics*. Submitted November 10, 2011. *Work Submitted*
- Mulpuri K. “The natural history of Perthes’ disease in British Columbia.” Manuscript in progress – to be submitted to *Clinical Orthopaedics and Related Research* for their symposium in Perthes’ disease. *Work in Progress*
- Varghese RA, Dhawale AA, Zavaglia BC, Slobogean BL, Mulpuri K. “Citation classics in pediatric orthopaedics.” *Accepted for publication*
- Dhawale AA, Lescheid J, Slobogean BL, Mulpuri K. “The quality of information found on the internet for pediatric orthopaedic hip disorders.” *Data analysis in progress*.
- Mulpuri K. “Do surgical wait times affect surgical treatment and peri-operative management of patients with cerebral palsy and subluxated or dislocated hips: The surgeon’s perspective.” *Manuscript preparation*.
- McKay HA, Boyd S, Mulpuri K, Naylor PJ, Khan K, Li L, Rhodes R, Macdonald H. “An investigation into risk taking behaviour, bone microstructure, and fracture between the sexes: What underpins fracture in boys compared to girls during growth?” *Recruitment in progress*.
- Mulpuri K, Miller SD. “Health related quality of life in children with cerebral palsy undergoing surgery for dislocating hips.” *Recruitment in progress*.
- Slobogean BL, Mulpuri K. “Investigating the potential role for a physician assistant in a pediatric orthopaedic trauma clinic.” *Data analysis in progress*.
- Mulpuri K, Davidson D. “Validation and reliability testing of the Western Ontario and McMaster Osteoarthritis Scale (WOMAC) hip score in children and adolescents with Perthes’ disease.” *Recruitment in progress*.
- Mulpuri K, Reilly CW, Tredwell SJ. Management of displaced supracondylar fractures of the humerus using lateral versus crossed K-wires: A prospective randomized clinical trial.” *Recruitment in progress*.
- Reilly CW, Ansermino M, Mulpuri K, Purdy FR, Tredwell SJ. “The effect of femoral nerve block on opioid requirements following anterior cruciate ligament reconstruction in the paediatric population: A double blind, prospective, randomized controlled trial.” *Recruitment in progress*.
- Mulpuri K, Ansermino M, Montgomery C, Purdy R, Lehman W, Reilly CW, Tredwell SJ. “The effect of femoral nerve block on morphine requirements following intramedullary nailing of femoral fractures in paediatric patients.” *Recruitment in progress*.
- Varghese R, Slobogean GP, Slobogean BL, Mulpuri K. “Inter and intra-observer reliability of classification systems in Perthes’ disease.” *Data analysis in progress*.
- Mulpuri K, Jain R, Dyke L, Varghese R, Miyanji F, Reilly CW. “Taping vs. splinting vs. above elbow casting for Type I supracondylar fractures of the humerus in children: A randomized controlled trial.” *Recruitment in progress*.
- Mulpuri K, Bellows DB, Valentine N, Reilly CW. The long-term clinical and functional outcomes of children with congenital muscular torticollis following conservative treatment.” *Recruitment in progress*.

- Mulpuri K, Miyanji F, Reilly CW. “A clinical prediction model for growth arrest in paediatric physeal fractures. *Recruitment in progress*.”
- Mulpuri K, Cashin MS. “Outcomes analysis of comminuted vs. non-comminuted paediatric femur fractures treated with elastic intramedullary nail fixation”. *Protocol development*.
- Miyanji F, Reilly CW, Mulpuri K. “The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study”. *Recruitment in progress*.
- Miyanji F, Mulpuri K, Saravanja D, Newton PO, Reilly CW. “C1 lateral mass screw fixation in children: Indications, outcomes, and technique in 11 consecutive patients”. *Manuscript in progress*.

Dr. Firoz Miyanji

- Miyanji F, Mahar A, Oka R, Pring M, Wenger DR. “Biomechanical comparison of fully versus partially threaded cancellous screws for the treatment of slipped capital epiphysis”. *Submitted: Journal of Pediatric Orthopaedics*.
- Mulpuri K, Jain R, Dyke L, Varghese R, Miyanji F, Reilly CW. “Taping vs. splinting vs. above elbow casting for Type I supracondylar fractures of the humerus in children: A randomized controlled trial”. *Recruitment in progress*.
- Mulpuri K, Miyanji F, Reilly CW. “A clinical prediction model for growth arrest in paediatric physeal fractures. *Recruitment in progress*.”
- Miyanji F, Mahar A, Oka R, Newton PO. “Cervical spine instrumentation: An alternative to lateral mass screws”.
- Miyanji F, Govender P, Lewis SJ. “Anterior column reconstruction in the treatment of metastatic lesions of the upper spinal surgery”.
- Miyanji F, Lewis SJ. “Complications following the use of bioglu surgical adhesive as an adjunct to dural repair in spinal surgery”.
- Harms Study Group. “Prospective study on the surgical treatment of adolescent idiopathic scoliosis – Scoliosis outcomes database registry”.
- Harms Study Group. “Prospective study of non-operative adolescent idiopathic scoliosis patients”.

- Harms Study Group. “Prospective study of Scheurmann’s kyphosis”.
- Harms Study Group. “Prospective study of motion preservation of the thoracic spine in Adolescent Idiopathic Scoliosis”.
- Harms Study Group. “Prospective study of cerebral palsy scoliosis”.
- Miyanji F, Mulpuri K, Saravanja D, Newton PO, Reilly CW. “C1 lateral mass screw fixation in children: Indications, outcomes, and technique in 11 consecutive patients”. *Manuscript in progress*.
- Miyanji F, Slobogean G, Samdani A, Betz R, Reilly C, Slobogean BL, Newton P. “Larger curve magnitude is associated with increased peri-operative healthcare resource utilization: A multi-centre analysis of 422 adolescent idiopathic scoliosis curve”. *Manuscript in progress*.
- Miyanji F, Reilly CW, Mulpuri K. “The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study”. *Recruitment in progress*.
- An investigation into risk taking behavior, bone microstructure and fracture between the sexes: What underpins fracture in boys compared to girls during growth?” *Recruitment in progress*.

Dr. Shafique Pirani

- Uganda Sustainable Clubfoot Care Project. *Final report in progress*.
- Sustainable Clubfoot Care in Bangladesh. *Project Implementation Plan in progress*.
- The Radiographic Definition of Flat-Top Talus. *Analysis of results in progress*.
- Skeletal Development in Clubfoot Treatment. *Analysis of results in progress*.
- Evidence based guidelines for the management of clubfoot. *Systematic review in progress*.

Dr. Alec Black

- Industry – “Motion capture for animation” Taught for Vancouver Film School, 2005-Present

ACADEMIC ACHIEVEMENTS

Dr. Heather Macdonald

- Macdonald HM, Hoy CL, McKay HA. Bone acquisition in adolescence (Chapter 31). In Marcus R, Feldman R, Deptster R, Cauley J, Luckey M. Osteoporosis, Fourth Edition. Submission date: February 15, 2012. *Work accepted.*
- Kim SJ, Macdonald HM, Nettlefold L, McKay HA. A comparison of bone quality at the distal radius between Asian and Caucasian adolescents and young adults: An HR-pQCT study. Revision submitted to J Bone Miner Res, March 5, 2013. *Work submitted.*
- Tan VPS, Gabel L, Kim SJ, Ashe MC, Donaldson MG, Macdonald HM, McKay HA. Physical activity and bone strength accrual in children and adolescents: A systematic review". Analysis complete, manuscript in preparation. Anticipated submission date: April 1, 2013. *Work submitted.*
- Gabel L, McKay HA, Nettlefold L, Race D, Macdonald HM. The influence of sedentary behavior on bone microstructure and strength in children, adolescents, and young adults. Analysis complete, manuscript in preparation. *Anticipated submission date: May 1, 2013*



Division of Pediatric Otolaryngology

Faculty Members

Dr. Frederick K. Kozak, Division Head

Dr. Neil K. Chadha

Dr. Jane Lea

Dr. Jeffrey P. Ludemann

Dr. J. Paul Moxham

Highlights and Achievements

Dr. Chadha was awarded over \$94,000 in research grant funding this past year related to various clinical areas in pediatric otolaryngology. He was also appointed Director of Continuing Medical Education for the UBC Division of Otolaryngology and British Columbia Otolaryngology Society.

Dr. Kozak was named Residency Training Program Director for the UBC Division of Otolaryngology.

Dr. Jane Lea joined the Division and started the BCCH Pediatric Dizzy Clinic.

Dr. Moxham received the UBC Division of Otolaryngology Undergraduate Teaching Award.

Staff Members

Ms. Patsy Regan, Pediatric Otolaryngology Clinical Nurse

Ms. Michele Freeman, MOA to Drs. Kozak & Lea

Ms. Nancy Davies, MOA to Drs. Ludemann & Moxham

Ms. Michele Poulsen, MOA to Drs. Ludemann & Moxham

Ms. Karla Smith, MOA to Dr. Chadha

Ms. Rachelle Moshfeghi, Research Coordinator



ACADEMIC ACHIEVEMENTS

Academic Presentations

Dr. Neil Chadha

- Wan W, Lam GO, Chadha NK. Current incidence of duplicate publication in otolaryngology. Triological Society Combined Sections Meeting, Scottsdale, Arizona. January 2013
- Chadha NK. Sialendoscopy. OPSEI Academic Rounds, Vancouver. December 2012
- Chadha NK. Insight into pediatric otolaryngology research. iACT Research Cluster Retreat. CFRI, Vancouver. November 2012
- Janssen R, Hong P, Chadha NK. Bilateral bone anchored hearing aids: a systematic review. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting. Washington, DC. September 2012
- Chadha NK, Thamboo A. Can we predict sinonasal disease in cystic fibrosis patients? OPSEI Academic Rounds. Vancouver. September 2012
- Pace-Asiak P, Saxby A, Chadha NK, Kozak FK. Rhinologic manifestations of women's health. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting. Washington, DC. September 2012
- Chadha NK, Janssen R, Hong P. Bilateral bone anchored hearing aids in children. American Society of Pediatric Otolaryngology Annual Meeting. San Diego, California. April 2012
- Chadha NK. Pediatric voice disorders. BC Otolaryngology Society Clinic Day. Vancouver. April 2012

Dr. Frederick Kozak

- Santos Rui, Khashoggi Khalid, Kozak FK, Sargent M, Byrne A. Congenital inner ear malformations – A pictorial review. 112th Annual Meeting of the American Roentgen Ray Society (ARRS). Vancouver, Canada, (Electronic educational poster). April 29-May 4, 2012
- Blakely B, Rutka J, Kudrik W, Fabian C, Spafford P, Daniel S, Kozak FK. Northern otolaryngology outreach across Canada panel: BC Experience. Canadian Society of Otolaryngology and Head and Neck Surgery Annual Meeting. Toronto, Ontario. May 2012
- Kozak FK, Beers A, McBoyle M, Kakande E. Autism and hearing loss: A systematic review. Canadian Society of Otolaryngology and Head and Neck Surgery Annual Meeting (Podium). Toronto, Ontario. May 2012
- Pace-Asciak P, Bhimrao S, Kozak FK, Westerberg B. Systematic review: Do neckties among healthcare workers contribute to the spread of infection? Canadian Society of Otolaryngology and Head and Neck Surgery Annual Meeting (Poster), Toronto, Ontario. May 2012
- Kumar SB, Patterson RJ, Ibekwe T, Synnes A, Kozak FK. Role of perinatal asphyxia/hypoxia in sensorineural hearing loss in neonates. American Society of Pediatric Otolaryngology Annual Meeting. (poster). San Diego, USA. May 2012
- Santos Rui, Khashoggi Khalid, Kozak FK, Sargent M, Byrne A. Congenital inner ear malformations – A pictorial review. UBC Radiology Research Day. Vancouver, Canada, June 8, 2012. Awarded best educational fellow poster.
- Kozak FK. The history of deafness: Part one. OPSEI Academic Rounds. Vancouver, British Columbia. July 3, 2012
- Pace-Asiak P, Saxby A, Chadha NK, Kozak FK. Rhinologic manifestations of women's health. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting. Washington, DC, (Podium). September 9, 2012
- Ibekwe T, Kumar SB, Westerberg BD, Kozak FK. Prevalence of MT-RNR1 in the general population: Is there a role for screening neonates requiring aminoglycosides: A systematic review. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting. Washington, DC. (podium). September 2012
- Wongprasartsuk S, Kozak FK. Cochlear implant electrode choice for incomplete partition Type-III (IP-III): A systematic review. 65th Annual General and Scientific Meeting of the New Zealand Society of Otolaryngology Head & Neck Surgery. Wellington, New Zealand (poster). October 31-November 2, 2012
- Kozak FK. Otology clinics (panel moderator). UBC and British Columbia Otolaryngology Society Clinic Day. Vancouver, BC. November 3, 2012
- Zaidman-Zait, A, Curl D, Jamieson J, Chia R, Kozak FK. Cochlear implants for children with disabilities: Parents perspectives and satisfaction. American Speech Language Hearing Association Convention. (poster). Atlanta, Georgia. November 15, 2012
- Kozak FK. Pediatric Otolaryngology. Lecture and hands on skills seminar. St Paul's CME: Conference for Family Physicians. November 2012
- Kozak FK. Medical aspects of pediatric hearing loss. Vancouver Coastal Health. Audiology Event. Vancouver, BC. February 21, 2013

Dr. Jane Lea

- Lea J, Conlin A, Sekirov I, Restelli V, Wilmer A, Ayakar K, Turnbull L, Doyle P, Noble M, Rennie R, Schreiber W, Westerberg B. N-acetylcysteine as an adjunct to treatment in chronic suppurative otitis media: In vitro efficacy on aeruginosa and biofilms. 66th Annual meeting of The Canadian Society of Otolaryngology-Head & Neck Surgery (podium presentation). May 2012.
- Dadgostar A, Lea J, Mick P, Clarke M, Westerberg BD. Mental practice in surgical education: A pilot study in Uganda using an otologic surgery model. The 12th annual Bethune Round Table on International Surgery (poster). Toronto, Ontario. May 2012
- Zaia E, Lea J, Reid Y, Westerberg B. Superior canal dehiscence and concomitant otosclerosis: A case study. 27th Bárány Society Meeting (poster). Uppsala, Sweden. June 2012
- Lea J. Hallmarks of vertigo requiring tertiary care referral. British Columbia Otolaryngology Society Annual Meeting. Vancouver, British Columbia, November 2012. Invited speaker
- Lea J. Vertigo lecture and hands on skills seminar. St Pauls CME: Conference for Family Physicians. November 2012

Dr. Jeffrey Ludemann

- Nashon SM, Ludemann JP. Teaching children about choking hazards, 11th International Congress of the European Society of Pediatric Otorhinolaryngology. Amsterdam, Netherlands. May 2012
- Jasinovic T, Thamboo A, Scheepers L, Osiovitch H, Ludemann JP. Best management of neonatal tracheobronchial foreign bodies (poster). 11th International Congress of the European Society of Pediatric Otorhinolaryngology. Amsterdam, Netherlands. May 2012. WSMRF Western Student Medical Research Forum. Carmel, California. January 2013
- Ludemann JP. Impact of a book club on perceptions of incoming 1st year medical students. UBC Department of Surgery Chung Research Day. September 24, 2012. BC Children's Hospital OPSEI Academic Rounds. January 8, 2013

Formal Teaching

Dr. Neil Chadha

- Program Chair and Organizer - British Columbia Otolaryngology Society Clinic Day. November 2012
- INDE 410 First Year UBC Medical School Teaching. April 2012
- UBC Division of Otolaryngology Rhinology Lecture Series, Pediatric Rhinology. February 2013
- UBC Medical INDE 410, Clinical Skills in Otolaryngology. May 2012
- UBC Department of Pediatric Research Course, Systematic Reviews, BCCH. April 2012
- Program Chair and Organizer - British Columbia Otolaryngology Society Clinic Day. April 2012

Dr. Jane Lea

- UBC Medical INDE 410, Clinical Skills in Otolaryngology. April 5/2012; April 12/2012.
- INDE 410 UBC Medical School Teaching, Disorders of the Ear. May 2012, July 2012, March 2013, May 2013.
- Core academic lecturer (10 one hour lectures) during resident academic half day. September 2012 - December 2012

Dr. Jeffrey Ludemann

- Neonatal and Pediatric Airway Chevalier Jackson & CanMEDs Roles; Upper Aerodigestive Foreign Bodies; Choking Prevention Strategies; Epistaxis, UBC Pediatrics Residents. February 12, 2013
- Nasal Disorders, 3rd Year Clerkship Seminar. July 10, 2012
- Throat Disorders, 3rd Year UBC Clerkship Seminar. December 18, 2012
- Nasal Disorders, 3rd Year Clerkship Seminar. January 24, 2013
- UBC Medical INDE 410, Clinical Skills in Otolaryngology. April 2, 2013 and April 23, 2013

Dr. Paul Moxham

- Pediatric Nasal Issues. UBC Department of Pediatric Residents April 2012
- Pediatric Otolaryngology Exam Review for UBC Department of Pediatric Residents. April 2012

ACADEMIC ACHIEVEMENTS

Publications

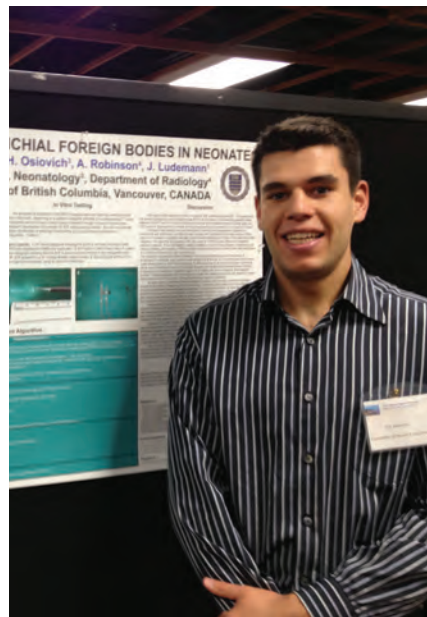
1. Goldstein D, Bachar G, **Lea J**, Shrimel M, Patel R, Gullane P, Brown D, Gilbert R, Kim J, Waldron W, Perez-Ordóñez B, Davis A, Xu W, Irish J. Outcomes of squamous cell cancer of the oral tongue managed at the Princess Margaret Hospital. *Head & Neck*. 2012 April 27. doi: 10.1002/hed.23001.
2. Bachar G, Goldstein DP, Barker E, **Lea J**, O'Sullivan B, Brown DH, Gullane PJ, Gilbert RW, Xu W, Su J, Irish JC. Squamous cell carcinoma of the buccal mucosa: Outcomes of treatment in the modern era. *Laryngoscope*. 2012 July 122(7);1552-7.
3. **Chadha NK**. An evidence-based staging system for orbital infections from acute rhinosinusitis. *Laryngoscope*. 2012 Dec; 122 Suppl 4:S95-6.
4. **Chadha NK**, James A. Adjuvant antiviral therapy for recurrent respiratory papillomatosis. *Cochrane Database Syst Rev*. 2012 Dec 12; 12:CD005053.
5. Janssen RM, Hong P, **Chadha NK**. Bilateral bone-anchored hearing aids for bilateral permanent conductive hearing loss: a systematic review. *Otolaryngol Head Neck Surg*. 2012; 147(3):412-22.
6. Hartl TT, **Chadha NK**. A systematic review of laryngomalacia and acid reflux. *Otolaryngol Head Neck Surg*. 2012; 147(4):619-26.
7. James AL, Papsin BC, Trimble K, Ramsden J, Sanjeevan N, Bailie N, **Chadha NK**. Tympanic membrane retraction: An endoscopic evaluation of staging systems. *Laryngoscope*. 2012; 122(5):1115-20.
8. Lin RJ, **Moxham JP**, **Chadha NK**. Concurrent thyroglossal duct cyst and dermoid cyst in two pediatric patients. *Int J ped otorhinolaryngol*. 2012 7(4); 196-199.
9. Chueng K, **Chadha NK**. Primary dilatation as a treatment for pediatric laryngotracheal stenosis: a systematic review. *Int J Ped Otorhinolaryngol*. 2013 Feb 28. [Epub ahead of print]
10. Saxby AJ, Pace-Asciak P, **Dar Santos RC**, **Chadha NK**, **Kozak FK**. The rhinological manifestations of women's health. *Otolaryngol Head Neck Surg*. 2013 Feb 20. [Epub ahead of print].
11. Hong P, **Chadha NK**. Tympanostomy tube care for the pediatrician. *Clinical Pediatrics* March 14, 2013, doi: 10.1177/0009922813480884.

12. Derkay CS, Volsky PG, Rosen CA, Pransky SM, McMurray JS, **Chadha NK**, Froehlich P. Current use of intralesional cidofovir for recurrent respiratory papillomatosis. *Laryngoscope*. 2013; 123(3):705-12.
13. Jasinovic T, Thamboo A, Scheepers L, Osiovitch H, **Ludemann JP**. Best management of ultra-small tracheobronchial foreign bodies in neonates. *Int J Ped Otorhinolaryngol*. 2013 77:3; 434-8.
14. Cushing S, **Lea J**. "Peripheral Vestibular Disturbances" (chapter) in O'Reilly R, Morlet T, Cushing S. *Manual of Pediatric Balance Disorders*. Plural Publishing Inc, San Diego, California. Feb 2013

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
RCT: Omeprazole for Laryngomalacia	Neil Chadha	Fred Kozak & David Israel	BCCH Telethon	\$30,000
RCT: Maxillary Expansion versus Adenotonsillectomy	Neil Chadha , Ben Pliska	David Wensley	American Association of Orthodontics	\$25,000
Research Capacity Enhancement Grant	Neil Chadha		iACT, CFRI	\$20,000
RCT: Maxillary Expansion versus Adenotonsillectomy	Neil Chadha , Ben Pliska	David Wensley	UBC Faculty of Dentistry	\$15,000
RCT: Nasal steroids and OSA	Neil Chadha		iACT, CFRI	\$4,000

Cystic Fibrosis and Pediatric Sinus Disease	Neil Chadha	Mark Chilvers & Cathie Garnis	iACT, CFRI	\$4,000
Portable Video Goggles for Recording Eye Movements	Jane Lea	Brian Westerberg, Kris Gadareh, Leo Lee & Erica Zaia	BC Balance and Dizziness Disorders society	\$5,000



Student Supervision

Fellows Supervised

- Dr. Alex Saxby, Pediatric Otolaryngology/Neurotology
- Dr. Marcela Fandino, Pediatric Otolaryngology/Neurotology
- Dr. Lalenthra Naidoo, Pediatric Otolaryngology

Residents Supervised

- Dr. Rob Mondin
- Dr. Eli Akbari
- Dr. Anali Dadgostar
- Dr. Pia Pace Asciak
- Dr. Trevor Hartl
- Dr. Vernoique Wan Fook Cheung
- Dr. Andrew Thamboo
- Dr. Kristelle Chueng
- Dr. June Lin
- Dr. Ronak Rahmanian
- Dr. Andrew Remillard
- Dr. Brent Chang
- Dr. Kimberly Liu

Students Supervised

- Dianne Valenzuela, UBC Faculty of Medicine
- Leo Lee, Co-op student
- Tim Jasinovich, UBC Undergraduate
- Shawn Zhu, UBC Faculty of Medicine, Pediatric Tracheostomy App
- Jack Sheng, UBC Faculty of Medicine, Pediatric Tracheostomy App

ACADEMIC ACHIEVEMENTS

Committee Participation

Dr. Neil Chadha

- Division of Pediatric Otolaryngology Fellowship Committee, Chair
- BCOS Meeting Planning Committee, British Columbia Otolaryngology Society, Chair
- Executive Committee, Division of Otolaryngology, Member
- Resident Training Committee, Division of Otolaryngology, Member
- Executive Committee, British Columbia Otolaryngology Society, Member
- UBC Otolaryngology Research Committee, Division of Otolaryngology, Member
- International Task-Force for Recurrent Respiratory Papillomatosis, Member
- Laryngoscope, Reviewer
- Clinical Otolaryngology, Reviewer
- Archives in Otolaryngology - Head and Neck Surgery, Reviewer
- International Journal of Pediatric Otolaryngology, Reviewer
- British Medical Journal, Reviewer

Dr. Frederick K. Kozak

- Department of Pediatric Surgery Surgical Cabinet, BCCH
- Surgical Services Advisory Committee, BCCH
- Otolaryngology Executive Committee, UBC Division of Otolaryngology
- Canadian Society of Otolaryngology Head and Neck Surgery, Council
- Canadian Society of Otolaryngology Head and Neck Surgery Annual Meeting, Scientific Program Chair
- Inter American Association of Pediatric Otolaryngology, Canadian Representative, Board Member
- Medical Advisory Group, B.C. Early Hearing Program, Co-Chair
- Clinical Services Contract (CSC) Negotiating Committee
- COSHNS 2012, Scientific Committee Judge
- UBC Division of Otolaryngology Residency Training Program Director
- Residency Education Committee, UBC Department of Surgery
- Archives of Otolaryngology, Reviewer
- International Journal of Pediatric Otorhinolaryngology, Reviewer
- Otolaryngology Head and Neck Surgery (United States), Reviewer
- Journal of Otolaryngology Head and Neck Surgery (Canadian), Reviewer

Dr. Jane Lea

- BC Balance and Dizziness Disorders Society, Advisory Committee Member
- Humanitarian Committee, Canadian Society of Otolaryngology, Member
- Otolaryngology/Neurotology working group, Canadian Society of Otolaryngology, Member
- Organizer of UBC Otolaryngology Resident Academic Half Day (Otolaryngology/Neurotology block) including scheduling, teaching and evaluation (Sept 2012-Dec 2012)
- Journal of Otolaryngology Head & Neck Surgery (Canadian), Reviewer

Dr. Jeffrey Ludemann

- BCCH Parent Advisory Committee

Dr. Paul Moxham

- Laser Safety Committee, BCC H
- Laryngoscope, Reviewer

INITIATIVES IN PROGRESS

1

The members of the division have several research and educational initiatives in progress.



Division of Pediatric Surgery

Faculty Members

Dr. Eric M. Webber, Division Head

Dr. Erik D. Skarsgard

Dr. Geoffrey K. Blair

Dr. Sonia A. Butterworth

Dr. James J. Murphy

Staff Members

Ms. Lynda Fynn

Ms. Robyn Walker

Ms. Jill Haynes

Ms. Susan Myhre

Ms. Christine Adamson

Ms. Amie Nowak

Ms. Bindy Sahota

Highlights and Achievements

Dr. Blair was appointed to the Editorial Board of the Journal of Pediatric Surgery.

Dr. Skarsgard was appointed to the Advisory Board of the Institute of Human Development, Child and Youth Health, Canadian Institutes for Health Research (CIHR)



ACADEMIC ACHIEVEMENTS

Academic Presentations

Dr. Erik Skarsgard

- “Collaborative Outcome Improvement in Pediatric Surgery”. CAPHC Annual Conference, Vancouver, Canada. October 28, 2012
- “Improving the Care of Children and Youth Through Clinical Research”. CAPHC Annual Conference, Vancouver, Canada. October 30, 2012
- “BCCH NSQIP” PHSA Board of Directors. Vancouver, Canada. December 6, 2012
- “Can we select fetuses with isolated abdominal calcification for delivery in neonatal surgical centres?” 45th Annual Meeting of the Canadian Association of Pediatric Surgeons. Victoria, Canada. September 20-23, 2012
- “Effect of timing of enteral feeding on outcome in gastroschisis.” 45th Annual Meeting of the Canadian Association of Pediatric Surgeons, Victoria, Canada. September 20-23, 2012

Lectures

Dr. Erik Skarsgard

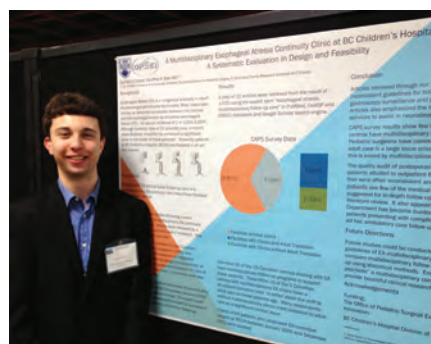
- “Initial Experience with Pediatric NSQIP in a Canadian Children’s Hospital”. 84th Annual Meeting of the Pacific Coast Surgical Association, Kauai, USA. February 17, 2013
- “Achievements in clinical research in surgery and emergency medicine. Moderator, Citizen’s Forum: PHSA and VCHA. Vancouver, Canada. March 5, 2013

Publications

1. Safavi A, Lai S, Hameed M, Schiller D, Skarsgard ED. Does operative experience during residency correlate with reported competency of recent general surgery graduates? *Can J Surg.* 2012; 55(4):S171-7.
2. Safavi A, Skarsgard E, Butterworth S. Bowel-defect disproportion in gastroschisis: does the need to extend the fascial defect predict outcome? *Pediatric Surgery International.* 2012 May; 28(5): 495-500.
3. Mills J, Safavi A, Skarsgard ED. Canadian Pediatric Surgery Network (CAPSNet). Chyllothorax after congenital diaphragmatic hernia repair: a population-based study. *J Pediatr Surg.* 2012 May; 47(5):842-6.
4. Safavi A, Synnes AR, O’Brien K, Chiang M, Skarsgard ED, Chiu PP. Canadian Pediatric Surgery Network. Multi-institutional follow-up of patients with congenital diaphragmatic hernia reveals severe disability and variations in practice. *J Pediatr Surg.* 2012 May; 47(5):836-41.
5. Mills J, Grushka J, Butterworth S. Television-related injuries in children – The British Columbia experience. *J Pediatr Surg.* 2012 May; 47(5): 991-995.
6. Akhtar J, Skarsgard ED. Canadian Pediatric Surgery Network (CAPSNet). Associated malformations and the “hidden mortality” of gastroschisis. *J Pediatr Surg.* 2012 May; 47(5):911-6.
7. Cowan KN, Puligandla PS, Laberge JM, Skarsgard ED, Bouchard S, Yanchar N, Kim P, Lee S, McMillan D, von Dadelszen P. The Canadian Pediatric Surgery Network (CAPSNet). The gastroschisis prognostic score: reliable outcome prediction in gastroschisis. *J Pediatr Surg.* 2012 Jun; 47(6):1111-1117.
8. Aljahdali A, Oviedo A, Blair GK. Gastric hamartoma of the pylorus in an infant. *J Pediatr Surg.* 2012 Jul; 47(7):E29-31.
9. Tso D, Langer M, Blair GK, Butterworth S. Sharps-handling practices among junior surgical residents: a video analysis. *Can J Surg.* 2012 Aug; 55(4):S178-83.
10. Jansen LA, Safavi A, Lin Y, Macnab YC, Skarsgard ED; the Canadian Pediatric Surgery Network (CAPSNet). Preclosure Fluid Resuscitation Influences Outcome in Gastroschisis. *Am J Perinatol* 2012 Apr; 29(4):307-12.
11. Sangha BS, Skarsgard ED, Heran MK. Transscapular Microcoil Lung Nodule Localization. *J Vasc Interv Radiol* 2012 May; 23(5):659.
12. Yong PJ, Von Dadelszen P, Carpara D, Lim K, Kent N, Tessier F, Delisle MF, Wong T, Blair G, Skarsgard ED. Prediction of Pediatric Outcome after Prenatal Diagnosis and Expectant Antenatal Management of Congenital Cystic Adenomatoid Malformation. *Fetal Diagn Ther* 2012; 31(2):94-102.
13. Skarsgard ED. Chapter 7 Gastroschisis; in *Congenital Anomalies in Canada: A Perinatal Health Surveillance Report.* The Public Health Agency of Canada.

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Career Planning and Networking Opportunities for Undergraduate Medical Students	D Duffy	G Blair	UBC AMS	\$4000
CAPSNet: Establishing best practices for gastroschisis and congenital diaphragmatic hernia (competitive renewal)	E Skarsgard	Brindle (U of Calgary), Himidan, Moore, Lee (UofT), Laberge (McGill), McMillan, Yanchar (Dalhousie)	CIHR	\$100,000
Secondary Analysis of Databases: CAPSNet	E Skarsgard	Arbour (U Vic), Brindle (U of Calgary), Bassil, Moheddin (UofT)	CIHR	\$100,000



Student Supervision

Fellows Supervised

- Jessica Mills
- Akram Aljahdali
- Jennifer Stanger

Residents Supervised

- Adela Matejcek
- Brenda Law
- Katelyn Paquette
- Alison Nutter
- Melanie Finkbeiner
- Victoria Cook
- Stephany Quinn
- Qixia Yu
- Alysha Dedhar
- Jessica Breton
- Irvin Janjua
- Kamal Abdulwahab
- Lana Shaiba
- Lanna Olson

General Surgery Residents (8 week rotations)

- Kristel Lobo-Prabhu
- Nimrod Levy
- Sarah Moore
- Eiman Zargaran
- Jaclyn Farquhar
- Tiffany Chan
- Julia Hollett
- Farhana Shariff
- Alison Wallace
- Stephanie Chartier-Plante
- Candace Haddock
- Charles Stringer
- Victoria Cheung

ACADEMIC ACHIEVEMENTS

Royal College Plastic Surgery Residents (8 week rotations)

- Krista Genoway
- Morgan Evans

Students Supervised

- Quinten Clarke

Committee Participation

Dr. Geoffrey Blair

- BCCH, ON TRAC Transition Steering Committee, Member
- Various Curriculum Renewal Committees for the Faculty of Medicine (e.g. Chair of the Phase II Flexibility Working Group, Co-Chair of the Phase III Clerkship Working Group. Member of the Curriculum Design Working Group, etc)
- Year 3 Committee UBC FoM
- Surgical Undergraduate Education Committee, Chair
- Surgical Advisory Council, Member
- CAPS Global Partnership Committee, Chair
- CAPS Workforce Committee, Member
- CMA Specialist Forum, Representative
- Agenda Setting Committee of CMA Specialist Forum, Member
- CMA General Council, CAPS Representative
- Editorial Board of the Journal of Pediatric Surgery, Member
- International network on EA (INoEA), Member

Dr. Sonia Butterworth

- BC Children's Hospital NICU Complex Nutrition Committee
- BC Children's Hospital Children's Intestinal Rehabilitation Program
- Pharmacy, Therapeutics and Nutrition Committee
- BC Children's Hospital Trauma Committee
- BC Children's Hospital Diaphragmatic Pacing Program
- Pediatric Oncofertility Committee

- General Surgery Residency Education Committee
- Associate Program Director, General Surgery
- Pediatric Surgery Residency Education Committee
- Pediatric Surgery Program Director
- Children's Oncology Group Surgical representative, BCCH Site
- Canadian Association of Pediatric Surgeons, Publications Committee

Dr. James Murphy

- Pharmacy, Therapeutics and Nutrition Committee
- Transfusion Committee
- Resident Education Committee (Pediatric Surgery)
- Child Quality and Safety Committee
- Surgical Suites Quality and Safety Committee
- Transfusion Medicine Subcommittee on Blood Contingency
- Department of Surgery Curriculum Group Clinical Faculty Appointment and Promotion Committee
- Canadian Association of Pediatric Surgeons-Publications Committee

Dr. Erik Skarsgard

- Department of Pediatric Surgery, Head
- Innovative Technology OR Committee, Chair
- Surgical Services Advisory Committee, Chair
- Pediatric Surgery Executive Committee, Chair
- BCCH Surgical Cabinet, Chair
- Radiology Review Committee (LMC), Chair
- BCCH Search Committees for Heads of Anesthesia, Dentistry, Orthopedics, Chair
- Medical Advisory Committee, Member
- BCCHF Allocations Committee, Member
- BCCHF Board of Directors, Member
- BCCH BioBank Executive Committee, Member
- Centre for Surgical Research, Dept of Surgery, UBC, Co-chair
- Organizing Committee, WB and MH Chung Department of, Co-chair,
- Surgery Research Symposium
- Surgical Advisory Committee, Member

- A&P Committee, Department of Surgery, Member
- Merit Review Committee, Department of Surgery, Member
- Surgical representative to the UBC Clinical Investigator Program (CIP)
- Examination Board of the RCPSC (Pediatric Surgery), Vice Chair
- Specialty Committee for Pediatric Surgery, RCPSC, Member
- American Pediatric Surgical Association (APSA), Governor, 2012-15
- New Technology Committee, APSA, Member
- The Canadian Association of Pediatric Surgeons, Director, 2012-15
- The Canadian Pediatric Surgery Network (CAPSNet), Director
- Advisory Council (Pediatric Surgery) to the American College of Surgeons (ACS), Member
- ACS NSQIP (BCCH site), Surgeon Co-champion
- Canadian Congenital Anomalies Surveillance Network, Member
- Advisory Group (Health Canada)
- CIHR Institute Advisory Board (Institute of Human Development, Child and Youth Health), Member
- North American Fetal Therapy Network (NAFTNet), Member
- RCPSC Examination Board for Pediatric General Surgery, Vice Chair
- Canadian Institutes of Health Research (Clin A), Grant Reviewer
- Canadian Cystic Fibrosis Foundation, Grant Reviewer
- Sparks: The Children's Medical Research Charity (London, UK), Grant Reviewer

- Journal of Pediatric Surgery, Ad hoc Manuscript Reviewer
- Journal of Pediatrics, Ad hoc Manuscript Reviewer
- Fetal Diagnosis and Therapy, Ad hoc Manuscript Reviewer
- Canadian Journal of Surgery, Ad hoc Manuscript Reviewer

Dr. Eric Webber

- Mortality Review Committee, Chair
- Surgical Services Safety Quality of Care Committee, Member
- Surgical Services Advisory Committee, Member
- Resident Appeals Committee, Chair
- Surgical Advisory Committee, Member
- BC Clinical Competence Program, Member External Review Team
- Pacific Association of Pediatric Surgeons Publications Committee, Member
- Royal College of Physicians and Surgeons of Canada Accreditation Committee, Steering Committee Member
- General Surgery Specialty Committee, Chair
- Surgical Foundations Advisory Committee, Nucleus member
- Specialty Standards Review Committee, Member
- Task Force on Postgraduate Medical Education Terminology, Member
- Summit on the future of general surgery, Co-chair





Division of Pediatric Plastic Surgery

Faculty Members

Dr. Cynthia Verchere, Division Head

Dr. Jugpal Arneja

Dr. Sean Bristol

Dr. Kevin Bush

Dr. Douglas J Courtemanche

Dr. Mark Hill

Staff Members

Ms. Norine Mayede, Division Administrative Assistant & Medical Office Assistant to Dr. Verchere

Dr. Marija Bucevska, Research Coordinator

Ms. Rupinder Parhar, Medical Office Assistant to Dr. Courtemanche

Ms. Sonya Datt, Medical Office Assistant to Dr. Arneja

Ms. Kamille Sandhu, Office Assistant

Highlights and Achievements

Dr. Verchere has succeeded in advocating for changes of the standards for fireplace glass safety. December 2011 Industry standards voluntarily changed by the Hearth Patio Barbecue Association to include screens with all fireplaces.

Dr. Arneja was named to the Editorial Board of Plastic and Reconstructive Surgery Global Open-Ed and the Canadian Journal of Plastic Surgery.

Academic Presentations

Dr. Jugpal Arneja

- “Hyperhidrosis: A surgeon’s perspective.” Pediatric Allergy and Dermatology Conference, Whistler, BC. April 2012
- “Scars: A surgeon’s perspective.” Pediatric Allergy and Dermatology Conference, Whistler, BC. April 2012
- “Management of bites in children.” 9th Pediatric Emergency Medicine Update, Vancouver, BC. May 2012
- “Leadership in Canadian urology: What is the right stuff?” Canadian Urological Association, Banff, Alberta. June 2012
- “Leadership trends in Canadian academic surgery: Do division heads and program directors have the tools necessary to provide effective leadership?” Canadian Society of Plastic Surgeons, Toronto, Ontario. June 2012
- “Ambulatory cleft lip surgery: A value analysis and applications to the health care system.” American Cleft Palate-Craniofacial Association, San Jose, California. April 2012. Canadian Association of Pediatric Health Centres (CAPHC) Annual Meeting, Vancouver, British Columbia. October 2012
- “Pediatric flexor tendon injuries: A 10 year analysis at BC Children’s Hospital.” Canadian Society of Plastic Surgeons, Toronto, Ontario. June 2012

Dr. Cynthia Verchere

- “Are upper extremity surgeons adequately trained in intra-operative fluoroscopy utilization and safety awareness?” Canadian Society of Plastic Surgeons 66th Annual Meeting, Toronto, Ontario. June 2012
- “Outcomes following antenatal diagnosis of ultrasonographically isolated cleft lip with or without cleft palate.” American Society of Human Genetics Meeting, San Francisco, USA. November 2012
- “Radiation doses in high risk pediatric patients.” 51st Annual Meeting of the Northwest Society of Plastic Surgeons (NWSPS). Maui, USA. February 20, 2013
- “The CanMEDS “health Advocate” role: How even a surgeon might make a difference.” OPSEI Academic Rounds. April 2013

Dr. Douglas Courtemanche

- “Summer student research project cycle.” Summer Student Recruitment Night OPSEI-UBC. November 2012
- “How to use a computer without touching it: A potential application in the operating room.” OPSEI Academic Rounds. February 2013

Lectures

Dr. Jugpal Arneja

- “Vascular Anomalies.” UBC Division of Otolaryngology Grand Rounds. Vancouver, BC. October 2012
- “Suture lab-workshop.” BC Children’s Hospital, Pediatric Emergency Department. Vancouver, BC. September 2012

Publications

1. **Arneja JS.** Pharmacologic therapies for infantile hemangioma: Is there a rational basis? *Plast Recon Surg.* 2012 April; 129:e724.
2. **Arneja JS.** Where have we arrived in the care of vascular anomalies a generation after Mulliken’s classification system? *Can J Plast Surg.* 2012 20(2); 65.
3. McInnes CW, **Courtemanche DJ, Verchere CG, Bush K, Arneja JS.** Reconstructive or cosmetic plastic surgery: Factors influencing the type of practice established by Canadian plastic surgeons. *Can J Plast Surg.* 2012 20(3); 163.
4. Gregory TN, Liu T, Machuk A, **Arneja JS.** What is the ultimate fate of presented abstracts? The conversion rates of presentations to publications over a five-year period from three North American plastic surgery meetings. *Can J Plast Surg.* 2012 20;(1).
5. Song D, Abedi N, Macadam S, **Arneja JS.** How many work hours are requisite to publish a manuscript? *PRS GO.* Feb. 2013.

ACADEMIC ACHIEVEMENTS

6. Hynes SL, Narasimhan K, Courtemanche DJ, **Arneja J.** Complicated infantile hemangiomas of the lip: Outcomes of early versus late resection. *Plast Recon Surg.* 2013 Mar; 131(3):373e-9e.
7. Song D, Evans R, **Arneja JS.** Delayed extensor pollicis longus tendon rupture following nondisplaced distal radius fracture in a child. *Hand.* 2013 (8); 242-244.

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Radiation Doses in High Risk Pediatric Patients	C. Verchere	L. Jansen D. Courtemanche C. Reilly A. Robinson	CFRI: 2012 iACT Trainee Clinical Investigator Seed Grant Award	\$2,700
Sup-ER Splint Study	C. Verchere	G. Martin	OPSEI: Summer Student Research Program	\$1,600
The Burn Survival Kit: A High-Tech Algorithm for Low Income Countries	C. Verchere	R. Evans	Grand Challenges Canada Rising Star Competition	\$100,000



Project Title	PI	Team	Granting Agency	Amount
Normative Measurement of Mouth Opening in a Canadian Paediatric Population	D. Courtemanche	R. Evans	OPSEI: Summer Student Research Program	\$4,800
The Role of Post-Operative Imaging in the Assessment and Management of Outcomes Following Mandibular Fracture	D. Courtemanche	R. Barton	OPSEI: Summer Student Research Program	\$1,600

Student Supervision

Fellows Supervised

- Dr. Robin Evans (July 2011 – June 2012)
- Dr. Claudia Malic (July 2012 – June 2013)

Committee Participation

Dr. Jugpal Arneja

- Medical Advisory Committee (MAC), BC Children's Hospital. 2012-present
- Canadian Society of Plastic Surgeons - 2012 Annual Meeting- Program Committee. 2012
- BCCH Design & Transition Strategy Team, BC Children's Hospital. 2011-present
- Provincial Surgical Advisory Council (PSAC), BC Children's Hospital Representative. 2010-present
- Surgical Data Management Committee, BC Children's Hospital. 2010-present
- Pediatric Surgical Executive Committee (PSEC), BC Children's Hospital. 2010-present
- Surgical Services Advisory Council (SSAC), BC Children's Hospital. 2010-present
- Department of Surgery Manpower Committee (Co-chair), BC Children's Hospital. 2010-present
- Child Health Leadership Team, BC Children's Hospital. 2010-present

Dr. Douglas Courtemanche

- Surgical Data Management Committee, BC Children's Hospital
- Biohazard Exposure Control Committee, Provincial Health Services Authority

Dr. Cynthia Verchere

- Plastic Surgery Residency Committee, Member. January 2006-present
- Burn Program ad hoc Committee (VGH/BCCH). January 1996-present





Division of Pediatric Urology

Faculty Members

Dr. Andrew E MacNeily, Division Head

Dr. Kourosh Afshar

Dr. John ST Masterson

Staff Members

Ms. Heidi Scott, Pediatric Urology Nurse Clinician

Dr. Souzan Baharlou, Pediatric Urology Research Associate

Dr. Maryam Noaparast, Pediatric Urology Research Associate

Ms. Danielle Baghii, Administrative Assistant

Ms. Maria Chaperon, Administrative Assistant

Highlights and Achievements

As the only pediatric urology service in British Columbia, the Division of Pediatric Urology at BC Children's performed more than 800 surgical procedures and cared for over 5,000 children in our ambulatory clinic this year. Last year realized many successes for our small team which are detailed in this report.

Dr. Afshar was appointed to the position of Associate Chief of Surgery - Quality and Safety, an important administrative position in our organization. He has also assumed the role of BCCH Surgeon Champion for National Surgical Quality Improvement (NSQIP).

Dr. MacNeily continues on as Head of the Division of Pediatric Urology, Vice Chair Education and Clinical Affairs for the Dept of Urological Sciences, as well as President of the NorthWest Urologic Society. He was also appointed to the position of Chair of the Royal College Specialty Committee in Urology which oversees all 12 Canadian Urology Residency training programs.

We bid farewell to Dr. Jennie Mickelson in April 2012 who is pursuing other career options in the lower mainland of British Columbia.

The Division of Pediatric Urology continues to play a major educational role within both the UBC Department of Urological Sciences and the Department of Pediatric Surgery at the undergraduate and postgraduate levels. A total of 15 residents from our UBC training program rotated at BCCH participating in ambulatory clinics, surgery, urodynamic assessments, ward and emergency consultations as well as a variety of scheduled academic sessions. In 2012-13 we hosted 31 elective medical students from UBC and across Canada.

The Division of Pediatric Urology supported and organized a Visiting Professor in Robotics, Dr. Thomas Lendvay. During Dr. Lendvay's visit a demonstration robotic nephrectomy was carried out at VGH. Dr. Lendvay presented at Surgical Suites Grand Rounds, combined Department of Urological Sciences/Department of Surgery Grand Rounds and teaching sessions with the Urology Residents.

Academic Presentations

- Welk B, Kodama R, **MacNeily AE**: “The newly graduated Canadian urologist: Underemployed and overtrained?” Canadian Urological Association, Banff, Alberta. June 2012
- Melnyk M, Mickelson J, **MacNeily AE**: “Trends in matching to urology residency in Canada: Are we becoming non-competitive?” Canadian Urological Association, Banff, Alberta. June 2012
- Robinson M, **MacNeily AE**, **Afshar K**, McInnes C, Lennox P, Carr N, Skarllicki D, **Masterson J**, Arneja J: “Leadership in Canadian Urology: What is the right stuff?” Canadian Urological Association, Banff, Alberta. June 2012
- Hoag N, **Afshar K**, Youssef D, **Masterson J**, Murphy J, **MacNeily AE**: “Cystic intratesticular lesions in pediatric patients: A retrospective case series.” Canadian Urological Association, Banff, Alberta. June 2012
- Bidnur S, Wu C, Rassekh R, Mickelson J, **MacNeily AE**: “Hemorrhagic cystitis secondary to BK virus: A case report of management with intravesical Cidofovir in a pediatric patient.” Canadian Urological Association, Banff, Alberta. June 2012
- Melnyk M, Mickelson J, **MacNeily AE**: Trends in matching to urology residency in Canada: Are we becoming non-competitive?” NorthWest Urological Association, Seattle, Washington. December 2012
- Hoag N, **MacNeily AE**, Figueroa V, **Afshar K**: “VURD syndrome: Does it really preserve long-term renal function?” NorthWest Urological Association, Seattle, Washington. December 2012
- Hamidzadeh R, **Afshar K**, **MacNeily AE**: “Staged buccal mucosa graft urethroplasty for salvage hypospadias repair: challenging cases with modest outcomes.” NorthWest Urological Association, Seattle, Washington. December 2012
- Hoag N, Harriman D, **MacNeily AE**, Goldenberg SL, Gourlay WA: “Perceptions and attitudes toward the impact of clinical fellows on urology resident training.” NorthWest Urological Association, Seattle, Washington. December 2012

Lectures

Dr. Andrew MacNeily

- “Pediatric Voiding Dysfunction.” BC Pediatrics Society, Vancouver, British Columbia. September 2012
- “Health benefits of circumcision: HIV, HPV and HSV2.” American Urological Association, Atlanta, Georgia. May 2012. Keynote speaker
- “Complications of lower urinary tract reconstruction in children.” Chinese Urological Association, Guangzhou, China. November 2012. Member of an invited delegation of the Canadian Urological Association.
- “Circumcision indecision: What have we learned from the trials in Africa?” Western Urologic Forum, Tucson, USA. March 2013
- “Circumcision indecision: What we have learned from the RCT’s in Africa”, “An idiots guide to ambiguous genitalia” ; “ The challenge of transitioning care for pediatric neurogenic bladder.” Department of Urology, University of Washington, Seattle, Washington. April 12-14 2012

Dr. Kourosh Afshar

- “Pediatric urology updates on UTI.” St Paul’s Hospital CME course, Vancouver, British Columbia. November 2012

Formal Teaching

Dr. Andrew MacNeily

- Urology Resident Academic Half Day Seminar: Classification and Management of Ambiguous Genitalia & Health Benefits of Circumcision in Developing Countries. May 2012
- Chief Resident Mock Oral preparatory examinations. June 2012
- Phase IV MD Urology Lecture “Voiding Dysfunction & BPH”. February 2013
- Urology resident academic half day seminar: Royal College CPD and Choosing an Academic Vs. Community Career. February 2013
- Chief Resident Mock Oral preparatory examinations. March 2013

ACADEMIC ACHIEVEMENTS

Dr. Kourosh Afshar

- Evidence Based Surgery Surgical Foundation Talk. April 2012
- Medical student INDE 410. May 2012
- Chief Resident Mock Exam. June 2012
- Resident Academic Half day. September 2012
- Phase IV MD Urology Lecture "Voiding Dysfunction & BPH". October 2012
- Resident Mock Exam. November 2012

Publications

1. Longpre M, Nguan A, **MacNeily AE**, **Afshar K**. Prediction of the outcome of antenatally diagnosed hydronephrosis: A multivariable analysis. *Journal of Pediatric Urology*. 2012 Apr; 8(2):135-9.
2. Jafari S, Buxton JA, **Afshar K**, Copes R, Baharlou S. Tattooing and risk of hepatitis B: a systematic review and meta-analysis. *Can J Public Health*. 2012 May-Jun; 103(3):207-12.
3. Robinson M, **MacNeily AE**, Goldenberg SL, Black P. Status of robotic assisted surgery among Canadian urology residents. *CUA Journal*. 2012 Jun; 6(3):160-7.
4. Hennessey K, **Afshar K**, Williams A, **MacNeily AE**. Duplicate publications: A survey of redundancy in the journal of urology. *CUA Journal*. 2012 Jun; 6(3):177-80.
5. **MacNeily AE**. The role of uroflowmetry in the diagnosis of lower urinary tract disorders in children. *Journal of Urology*. 2012 Jun; 187(6):1960-1.
6. Hoag N, Mamut A, **Afshar K**, Amling C, Mickelson JJ, **MacNeily AE**. Trends in urology resident exposure to open surgery for index procedures: A tale of two countries. *J Surg Educ*. 2012 Sep; 69(5):670-5.
7. **Afshar K**, Stothers L, **Scott H**, **MacNeily AE**. Cranberry juice for the prevention of pediatric urinary tract infection: A randomized controlled trial. *Journal of Urology*. 2012 188; 1584-7.
8. Metcalfe C, **MacNeily AE**, **Afshar K**. A reliability assessment of the international reflux grading system. *Journal of Urology*. 2012 188; 1490-92.
9. Kavanagh A, **Afshar K**, **Scott H**, **MacNeily AE**. Bladder neck closure in conjunction with enterocystoplasty and mitrofanoff diversion for complex incontinence: closing the door for good. *Journal of Urology*. 2012 188; 1561-6.
10. Welk B, Kodama R, **MacNeily AE**. The newly graduated Canadian urologist: Over-trained and underemployed? *Can Urol Assoc J*. 2013 Jan-Feb; 7(1-2):E10-5.
11. Tran H, Kavanagh A, Steinbok P, **Afshar K**. Pelvic dural ectasia leading to bilateral ureteric obstruction in the pediatric patient. *Can Urol Assoc J*. 2013 Jan-Feb; 7(1-2):E115-7.
12. Hoag N, Hamidizadeh R, **MacNeily AE**. Undergraduate exposure to urology: Impact of the distributed model of medical education in British Columbia. *CUA Journal*. 2013 Feb 7; 20-5.
13. **MacNeily AE**. Paging Dr Google. *CUA Journal*. 2013 Mar-Apr; 7(3-4):106-7.

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Treatment of Persistent Urinary Incontinence in Children	P Steinbok, AE MacNeily		BC Medical Services Foundation	\$50,000
Autonomic Nervous System and Voiding dysfunction	K Afshar		CFRI	\$3200
Autonomic Nervous System and Voiding dysfunction	K Afshar		Canadian Urologic Association	\$50,000

Student Supervision

Residents Supervised

- Dinesh Samerasekara
- Paul Gustafson
- Reza Hamidizadeh
- Samir Bidnur
- Nathan Hoag
- Alex Kavanagh
- Michelle Longpre
- Brian Mayson
- Meagan Melnyk
- Ryan Flannigan
- Chuck Metcalfe
- Mike Robinson
- Jason Sea
- Henry Tran
- Hilary Brotherhood
- David Youssef
- David Harriman

Students Supervised

- | | |
|------------------------|-----------------|
| • K.S. Nathwani | • A. Wong |
| • S. Hill | • G. Chan |
| • L. Crook | • T. Roston |
| • N. Wong | • B. Chan |
| • S. Taylor | • Y. Wang |
| • G. Ko | • J. Palmer |
| • K. Berg | • F. Issa |
| • R. Horan | • L. Karisallen |
| • D. Mikhail | • C. Feehan |
| • T. Tsang | • R. Berkeley |
| • M. Kovalik | • K. Shoults |
| • M. Chan | • G. Khaira |
| • K. Lawson | • H. Wu |
| • A Van der Westhuizen | • K. Murphy |
| • S. Lin | |

Committee Participation

Dr. Kourosh Afshar

- Research Committee, Department of Urological Sciences, Member, UBC Sep.2006-present
- Residency Research Program: Department of Urological Sciences, Director, UBC Sep. 2006-present
- UBC Department of Urologic Sciences Post-graduate Training Committee, Member, Jan 2009-present
- Surgical Suite Quality of Care Committee, Chair, 2012-present
- Surgical Suite Data Management Committee, Member, 2012-present
- BC Children's Hospital, Associate Chief of Surgery, 2012-present

Dr. Andrew MacNeily

- UBC Dept of Urological Sciences Post-graduate Training Committee, Member, 2000-2013
- Dept Urological Sciences Promotion and Tenure committee, Member, 2008-2013

ACADEMIC ACHIEVEMENTS

- Dept of Urological Sciences Executive Council, Member, 2009-2013
- Divisional Representative, BCC H Surgical Services Advisory Committee, Divisional Representative, 2005-2013
- Education and Clinical Affairs Dept of Urologic Sciences, Vice-Chair, 2011-2014
- NorthWest Urologic Society, President, 2012-2013
- Canadian Urological Association, Executive at Large: BC Representative, 2011-2014
- Canadian Urological Association Guidelines Committee, Executive Member, 2011-2014
- Canadian Urol Association Journal, Section Editor (Training & Education), 2011–2016
- Royal College Specialty Committee on Urology, Chair, 2012-2014
- Youth Transition Project Group, Specialist Member, 2012-2013
- Dept Urological Sciences representative UBC summative peer review of teaching committee, 2012.

Dr. John Masterson

- Department of Urologic Sciences Representative/Champion, Mentoring Program Working Group, 2007-present
- Surgical Advisory Committee, Department of Surgery, Member, 2002-present
- STI (Strategic Teaching Initiatives) Committee, Department of Surgery, Chair, 2002-present
- Clinical Faculty Appointment and Promotion Committee, 2006-present
- UBC Undergraduate Curriculum Committee, Alternate Member, 2009-present
- Gender Assessment Committee, Member, 1985-present
- “Circle of Care” \$ 10,000 Foundation donor, Physician Member, 2009-present
- Pediatric Surgical Executive Committee, Member, 2009-2012
- Pediatric Surgical Executive Committee, Chair, 2010-2012
- Surgical Data Management Committee, Member, 2009-2012
- Surgical Data Management Committee, Chair, 2010-2011
- Surgical Cabinet Committee, Member, 2009-2012
- Surgical Cabinet Committee, Chair, 2009-2012
- Surgical Services Advisory Committee, Member, 2009-2012
- Department of Pediatric Surgery, Interim Chair, 2010-2012

- BCCH Design & Transition Strategy Team, Member, 2010-2012
- Child Health BC Steering Committee, Member, 2010-2012
- Child Health Executive Committee, Member, 2010-2012
- Child Health Leadership Team, Member, 2010-2012
- Child Health Management Team, Member, 2010-2012
- Child Health Safety and Quality of Care Committee, Chair, 2010-2012
- Informed Consent Task Force, Member, 2010-2012
- Multi-Organ Children’s Transplant Program, Member, 2010-2012
- Provincial Surgical Advisory Council, Member, 2010-2012
- Sedation Suite Steering Committee, Member, 2010-2012
- Surgical Data Management Committee, Member, 2010-2012
- Surgical Services Core Leadership, Member, 2010-2012
- Surgical Suite Planning Group, Member, 2011-2012
- Member, BCCH Pediatric NSQIP Work Group, Member, 2011-2012
- Motility Review Committee, Member, 2011-2012
- Inter Area Planning Team, Member, 2011-2012



OPSEI Report

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