

OPSEI



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## ANNUAL ACHIEVEMENTS REPORT

2011-2012

The Office of Pediatric Surgical Evaluation and Innovation





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# OPSEI TEAM

2011-2012



**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.*



**MR. 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

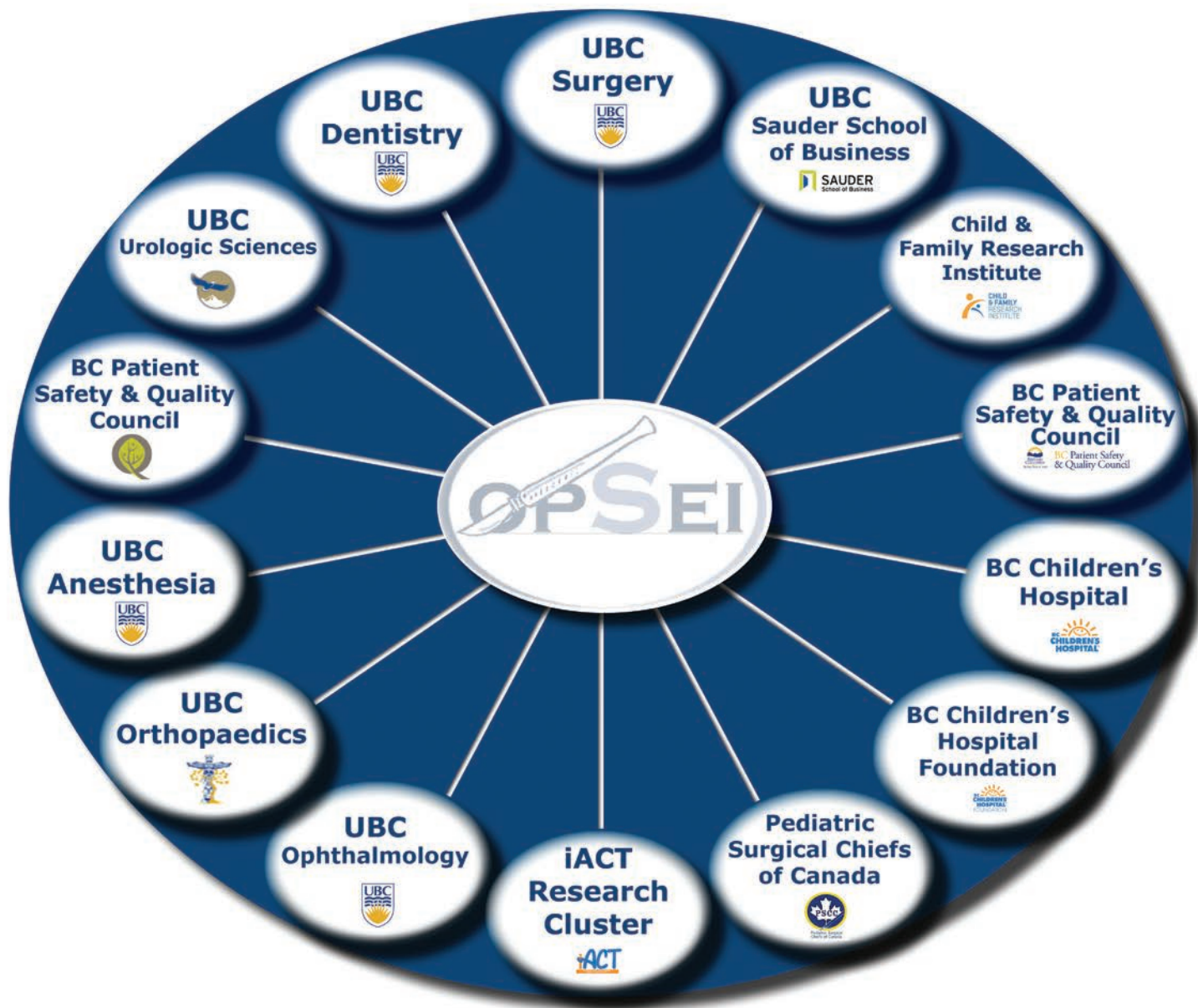
*Responsible for maintaining surgical database used for various research studies and projects.*



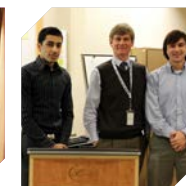
**MR. DEREK CHIU**  
Science Coop Student

*Responsible for assisting operations research analyst and providing project support.*

## PARTNERS IN PEDIATRIC SURGICAL INNOVATION



## CLINICAL RESEARCH AND EDUCATION



April 1, 2012 marked the seventh year for the Office of Pediatric Surgical Evaluation and Innovation! OPSEI continues to support an environment which fosters student and faculty partnerships in clinical research and education. In 2011, the Department of Pediatric Surgery became BC Children's Hospital largest summer student program hosting 24 summer students. Students and their faculty mentors were involved in clinical research projects ranging from predicting occlusion therapy outcomes to a quality assurance study on pain management. Following the intensive summer research program, many students presented their projects at the Western Medical Student Research Forum.

Summer Students and Faculty Supervisor Project	Supervisor	Student
International Surgical Capacity Project	Dr. Gandhi	Devon Rasmussen
ADC Mapping in Hydrocephalus	Dr. Cochrane	Calvin Tong
Brain Biopsy Management	Dr. Singhal	Michael Yang
Resection of Cerebellar Astrocytomas	Dr. Steinbok	Jaspreet Mangat
Diminished access to the operating room	Dr. Butterworth	Rachel Kim
Pediatric Flexor Tendon Injuries	Dr. Arneja	Michelle Lai
Migration of Diagnosis X Cases	Dr. Masterson	Lea Harper
Outcomes following the Fontan Procedure	Dr. Campbell	Freda Wong
20 years of Cancer patients at BCCH who received ototoxic medication	Dr. Kozak	Melanie McBoyle
The pLACE study	Dr. Courtemanche	Jen Rurak

RCT - Nasal preparations for flexible nasendoscopy	Dr. Chadha	Gilbert Lam
Virtual PBL	Dr. Mickelson	Rachel Lim
Virtual PBL	Dr. Mickelson	Anu Ghuman
Men's Health in Urology	Dr. Mickelson	Emily Mackie
Men's Health in Urology	Dr. Mickelson	Darren Chan
Safer Healthcare: Innovation, Evaluation + Documentation: (SHIELD) project	Dr. Skarsgard	Kristen DeGirolamo
Cutting for Stone Project	Dr. Ludemann	Tin Jasynovic
Cutting for Stone Project	Dr. Ludemann	Ashley Caufin
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Kristen DeGirolamo (Captain)
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Jennifer Yam (Captain)
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Steven Rathgeber (Captain)
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Indy Sekhon
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Megan Neufeld
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Joanne Bleackley
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Serge Makarenko
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Evan Shao
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Katherine Shoults
Lights, Camera, Surgery	Dr. Blair, Dr. Masterson, Mr. Duffy	Megan Maruyama

# LIGHTS, CAMERA, SURGERY PROGRAM



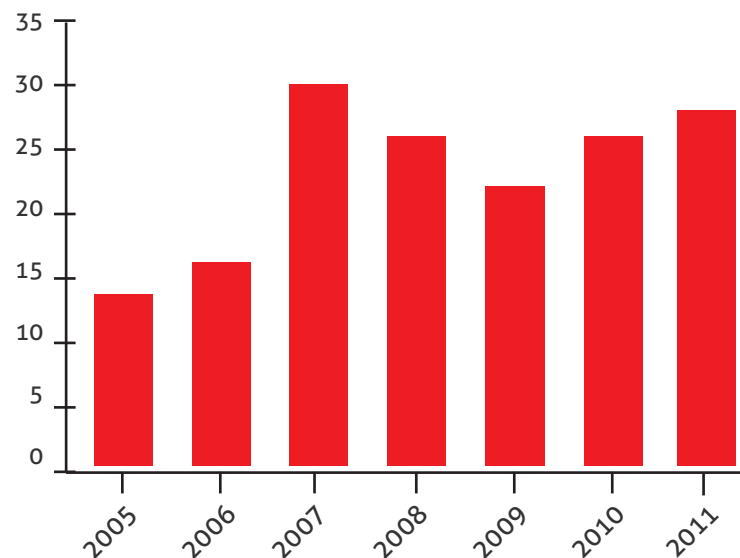
During the final year of funding for the Lights, Camera, Surgery program the group of twelve students managed to produce 25 surgical training videos. Over the three years of funding for the program, our students produced a total of 66 educational videos which are now hosted on UBC Medicol and the PHSA Mediasite.

Student Name	Video Title	Division/Department	Supervisor
Jennifer Yam, Steven Rathgeber, Kristin DeGirolamo	Hypospadias repair	Ped Urology	Dr. Afshar/Scott
	Laparoscopic pyeloplasty	Ped Urology	Dr. Afshar/Scott
	Tourniquet use	Ped Plastics Surgery	Dr. Courtemanche
	Dismembered pyeloplasty	Ped Urology	Drs. MacNeily/Afshar
	Breaking bad news	Ped Gen Surgery	Dr. Butterworth
	Cholesteatoma	Ped Otolaryngology	Drs. Kozak/Chadha
	Tonsillectomy	Ped Otolaryngology	Drs. Kozak/Chadha
	Bilateral Myringotomy and Tympanostomy Tube Insertion	Ped Otolaryngology	Drs. Kozak/Chadha
	Normal anatomy of the head and neck	Ped Otolaryngology	Drs. Kozak/Chadha
Joanne Blakely, Evan Shao, Katherine Shoults	Catheter Ablation	Ped Cardiology	Dr. Sanatani
	How to do an ECG	Ped Cardiology	Dr. Sanatani
	Central line insertion with ultrasound	Ped Anesthesia	Dr. Reimer
	Cholesteatoma	Ped Otolaryngology	Drs. Kozak/Chadha
	VSD Repair	Ped Cardiac Surgery	Dr. Gandhi
	Endoscopic drainage of orbital cellulitis and sub-periosteal abscess	Ped Otolaryngology	Drs. Kozak/Chadha
Indy Sekhon, Serge Makarenko	Repair of the AV canal defect	Ped Cardiac Surgery	Dr. Gandhi
	Cecostomy Care	Ped Gen Surgery	Ms. Nowak
	Cecostomy	Ped Gen Surgery	Ms. Nowak
	Informed Consent	Ped Gen Surgery	Dr. Blair
	Orchidopexy	Ped Urology	Dr. MacNeily
Michiko Maruyama, Megan Neufeld	Hand Exam	Ped Plastics Surgery	Dr. Verchere
	Nail Bed Repair	Ped Plastics Surgery	Dr. Verchere
	Scoliosis Day 1	Ped Orthopedics	Dr. Miyanji
	Scoliosis Day 2	Ped Orthopedics	Dr. Miyanji
	Surgical Safety Checklist	Ped Gen Surgery	Drs. Blair/Hill
Will Hall, Rachel Kim	ER Videos	Ped Emergency	Dr. Doan



# CHILDREN'S CIRCLE OF CARE AND THE HOSPITAL MATCHING PROGRAM

Circle of Care Members from Anesthesia, Dentistry and Surgery



*OPSEI is committed to training tomorrow's health care professionals today!*



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 28 donors contribute to the Children's Circle of Care Program within the Departments of Pediatric Anesthesia, Pediatric Dentistry and Pediatric Surgery for 2011. Their generous donations, along with the matching gifts, have raised a total of \$329,680.

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

### UGANDA HEARING HEALTH CARE PROGRAM

The Uganda Hearing Health Care Program returned to Uganda in October 2011 to continue their ongoing partnership with the Otolaryngology Department at Mulago Hospital and to provide continuing medical education to ENT surgeons, clinical officers and audiologists from around Uganda.

The most recent trip was focused heavily on education as the OPSEI supported group provided a temporal bone course, a sinus course, a clinical officer course and specific otolaryngology training for nurses and anesthesiologists. With 15 team members from ENT surgery, anesthesiology, nursing, biomedical engineering and audiology, the group also supported Uganda staff in their clinical care at Mulago Hospital and at regional facilities in Mbale and Jinja.

The main health concerns addressed were chronic ear infections complicated by perforated ear drums and ear drainage issues. For the pediatric patients this was particularly problematic as it negatively impacted both school learning activities and social development with other children. The team even witnessed occasions in which children no longer attended school. Students were either sent home by the teacher or chose not to attend class hoping to avoid teasing from their peers because of ear discharge.

Additionally, other ENT surgical conditions were seen and treated. These conditions included masses of the neck, nose and sinus. Procedures which were undertaken were done in concert with the local Ugandan surgical team.







## UGANDA SUSTAINABLE TRAUMA ORTHOPAEDIC PROGRAM

The Uganda Sustainable Trauma Orthopaedic Program (USTOP) travelled to Uganda twice in the 2011-12 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.

The primary objective of USTOP's visit in October 2011 was to support the Division of Plastic Surgery as they work with Ugandan colleagues to establish the first plastic surgery residency program in sub-Saharan Africa, outside of South Africa. During the trip the team hosted a hand surgery workshop and travelled to Soroti in northern Uganda, to provide educational support to reconstructive operations done in regional hospitals.

The group returned in February 2012, hosting a three day basic bioskills workshop for residents and nurses. Meetings with parliament officials, members of the Ugandan Ministry of Health and country representatives from the World Health Organization helped to build support for ensuring adequate resources are allocated to prevent and treat orthopaedic trauma in Kamapala.



On Thursday, November 17, 2011 the Innovations in Acute Care and Technology (iACT) research cluster at BC Children's Hospital and the Child and Family Research Institute hosted

their second annual research day. iACT was honored to have Dr. William Mackenzie from the Department of Orthopedics at the Alfred I. Dupont Hospital for Children chair the event. The forum highlighted the thirteen innovative research projects from iACT-funded faculty and trainees.

## ACADEMIC ACHIEVEMENTS

### Academic Presentations

- O'Hara N. Building partnership to improve perioperative capacity. Clinton Global Initiatives University, Washington, DC. March 30, 2012.
- O'Hara N. Summer research projects in pediatric surgery. UBC Surgical Club, Vancouver, BC. January 11, 2012.
- O'Hara N. The state of plastic surgery in Uganda. UBC Plastic Surgery Grand Rounds. Vancouver, BC. December 13, 2011.
- O'Hara N. Evaluating the capacity for an international patient program at BC Children's Hospital. Innovations in Acute Care and Technologies Research Day, Vancouver BC. November 17, 2011.
- O'Hara NN, Dubowitz G, Ozgediz D, Lipnick MS, Mijumbi C, Kaggwa S, Beyeza T, Westerberg B. Bonding with the Neglected Stepchild: Improving surgery and perioperative care in Uganda through international academic partnerships. Global Health Conference. Montreal. November 15, 2011.

- O'Hara N. Lights, Camera, Surgery! A three year journey. UBC Celebrate Research Week, Vancouver, BC. November 13, 2011.

### Honours and Awards

- O'Hara N. Walter H. Gage Memorial Travel Award, UBC.
- O'Hara N. Paul Harris Fellowship, Rotary International.

### Publications

1. 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. Canadian Journal of Surgery. May 2012.
2. 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. Journal of Investigative Medicine. Vol 60, Number 1, January 2012.

### Committee Participation

#### Damian Duffy

- Member, BC Children's Hospital United Way Fundraising Committee
- Executive Director, Pediatric Surgical Chiefs of Canada
- Chair, BC Children's Hospital Foundation Fellowship Allocation Committee
- Member, Pediatric Surgical Executive Committee
- Member, Pediatric General Surgery Residency Training Committee
- Member, BC Children's Hospital Excellence in Education Awards Committee
- Member, Executive Committee, Innovations in Acute Care and Technology Research Cluster, CFRI
- Member, Advocacy Committee, UBC Association of Administrative and Professional Staff



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Bindy Sahota

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- Executive Committee, Innovations in Acute Care and Technology Research Cluster, CFRI
  - Member, UBC Resident Education Committee
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Nathan O'Hara

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- 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
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### Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Lights, Camera, Surgery: Production of Surgical Videos within the OR Setting	Dr. Geoffrey Blair	Mr. Damian Duffy, Dr. John Masterson	UBC Summer Student Internship Award	\$25,900
Evaluation of capacity for international patient care at BC Children's Hospital.	Dr. Sanjiv Gandhi	Mr. Damian Duffy, Dr. Nathan O'Hara, Mr. Devon Rasmussen	UBC Summer Student Research Award	\$3,600
Evaluation of capacity for international patient care at BC Children's Hospital.	Mr. Devon Rasmussen	Mr. Damian Duffy, Dr. Nathan O'Hara, Dr. Sanjiv Gandhi	iACT Clinical Investigator Seed Grant	\$1,700

Total Funding

**\$31,200**



*Our care and innovative approaches build on the latest research in the field.*

## **FACULTY MEMBERS:**

Dr. Andrew I.M. Campbell  
Dr. Sanjiv K. Gandhi, Division Head

## **OTHER STAFF MEMBERS:**

Ms. Celia Magraw, Administrative Assistant  
Ms. Theresa Bazin, Research Assistant and Surgical Scheduling Coordinator

## **Highlights and Achievements**

In July 2010, Dr. Sanjiv Gandhi joined the staff of the Division of Pediatric Cardiovascular and Thoracic Surgery as Head. Several new clinical initiatives were introduced in 2010. Over the past 2 years, the division has continued to see an increase in case numbers, including a significant increase in referrals from Western provinces outside of British Columbia. 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. With the dedication of the entire Cardiac Sciences staff, the Surgical Division was able to perform over 230 open heart operations and a total of 350 cases in 2011.

In April 2012, a team from BC Children's, including members of the Divisions of Cardiac Surgery, Anesthesiology, Cardiology, and ICU, as well as nurses from the Operating Room, ICU, and representatives from Perfusion and OPSEI embarked on a medical mission to Cho-Ray Hospital in Ho Chi Minh City, Vietnam.

In January 2011, Dr. Andrew Campbell also assumed the role of co-director of the Cardiac Surgery Residency program of the University of British Columbia.

## **Formal Teaching**

- Dr. Sanjiv Gandhi: ECLS Course - Pediatric Mechanical Ventricular Assistance
- Dr. Sanjiv Gandhi: Formal weekly PICU Cardiac Surgery Teaching Rounds
- Dr. Andrew Campbell: Congenital Cardiovascular Pathology Lab, UBC Medical School, Vancouver, BC
- Dr. Andrew Campbell: Cardiovascular Block, UBC Medical School, Vancouver, BC. February - March 2012





## Publications

1. Morales DL, Almond CS, Jaquiss RD, Rosenthal DN, Naftel DC, Massicotte MP, Humpl T, Turrentine MW, Tweddell JS, Cohen GA, Kroschwitz R, Devaney EJ, Canter CE, Fynn-Thompson F, Reinhartz O, Imamura M, Ghanayem NS, Buchholz H, Furness S, Mazor R, Gandhi SK, Fraser CD Jr. Bridging children of all sizes to cardiac transplantation: the initial multicenter North American experience with the Berlin Heart EXCOR ventricular assist device. *J Heart Lung Transp.* 2011; 30(1): 1-8.
2. Gandhi SK and Epstein DJ. Ventricular Assist Device Support in Children. In: *Pediatric Critical Care Medicine: Basic Science and Clinical Evidence*. In press.
3. Gandhi SK and Siewers R.D. Anomalies of Systemic Venous Drainage. In: Kaiser LR, Kron IL, and Spray TL. (eds.) *Mastery of Cardiothoracic Surgery* (3rd edition). Philadelphia: Lippincott-Raven. In press.
4. Gandhi SK, Faro A, and Huddleston CB. Pediatric Lung Transplantation. In: Coran AG et al. (eds.) *Pediatric Surgery* (7th edition). Philadelphia: Elsevier, 2012: 671-683.
5. Holmes AA, Co S, Human DG, Leblanc JG, Campbell AI. The Contegra conduit: Late outcomes in right ventricular outflow tract reconstruction. *Ann Pediatr Cardiol.* 2012 Jan; 5(1): 27-33.
6. Mivelaz Y, Lim KI, Templeton C, Campbell AI, Potts JE, Sandor GG. A population-based review of tetralogy of fallot with absent pulmonary valve: is prenatal diagnosis really associated with a poor prognosis? *Ultrasound Obstet Gynecol.* 2012 Feb 3.
7. Harris KC, Campbell AI. Images in clinical medicine. Thrombosis of a mechanical mitral valve. *N Engl J Med.* 2011 Dec 15; 365(24): e45.
8. Holmes AA, Hung T, Human DG, Campbell AI. Kingella kingae endocarditis: A rare case of mitral valve perforation. *Ann Pediatr Cardiol.* 2011 Jul; 4(2): 210-212.
9. Carpes LF, Kozak FK, Leblanc JG, Campbell AI, Human DG, Fandino M, Ludemann JP, Moxham JP, Fiori H. Assessment of vocal fold mobility before and after cardiothoracic surgery in children. *Arch Otolaryngol Head Neck Surg.* 2011 Jun; 137(6): 571-575.

10. Glass HC, Bowman C, Chau V, Moosa A, Hersh AL, Campbell AI, Poskitt K, Azakie A, Barkovich AJ, Miller SP, McQuillen PS. Infection and white matter injury in infants with congenital cardiac disease. *Cardiol Young.* 2011 Oct; 21(5): 562-571.

## Fellows Supervised

- Dr. Takashi Sasaki, Tokyo, Japan

## Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
International Surgical Patient Capacity Project	Dr. Sanjiv Gandhi	Devon Rasmussen, Damian Duffy, John Masterson Nathan O'Hara	iACT	\$3,200

## Clinical clerks

- Mark Lawson 3rd year UBC medical student Jan 4, 2011 Jan 16, 2011
- Morgan Schellenberg 4th year Queens Medical student Jan 10, 2011 Jan 21, 2011
- Irwin Janjua 3rd year UBC medical student Feb 28, 2011 Mar 13, 2011
- Ada Lam 4th year UBC medical student Feb. 28, 2011 Mar 11, 2011
- Su Yuan 4th year University of Calgary Mar 14, 2011 Mar 25, 2011
- Megan Hill 3rd year UBC medical student Mar 28, 2011 Apr 10, 2011
- Kewan Aboulhosn 4th year UBC medical student Mar 28, 2011 Apr 8, 2011
- Katie Lin 4th year University of Auckland, medical student May 23, 2011 June 17, 2011
- Nancy Wang 4th year Cambridge University medical student July 18, 2011 August 12, 2011
- Jack Chang 3rd year UBC medical student April 26, 2011 May 8, 2011



- Ali Bunney 3rd year UBC medical student June 20, 2011 July 3, 2011
- Chris Fox 3rd year UBC medical student July 18, 2011 July 31, 2011
- Jessica Paul 3rd year UBC medical student September 19, 2011 October 2, 2011
- Rachel Li 3rd year UBC medical student October 17, 2011 October 29, 2011
- Maria Anderson 3rd year UBC medical student November 14, 2011 November 27, 2011
- Nicole Smith 3rd year UBC medical student December 12, 2011 December 24, 2011
- Namrata Jhamb 3rd year UBC medical student January 16, 2012 January 29, 2012
- Gurpreet Khaira 3rd year UBC medical student February 17, 2012 February 25, 2012
- Jennifer Tam 4th year UBC medical student March 5, 2012 March 30, 2012
- Renee Nason 3rd year UBC medical student March 12, 2012 March 25, 2012

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#### Research students [Student Name, Research Topic]

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- Freda Wong, Fontan outcomes, April 2011

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#### Committee Participation

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##### Dr. Andrew Campbell

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- 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
- Cardiac Quality Assurance Committee, BC Children's Hospital, Co- Chair
- Western Canadian Children's Heart Network, Member
- Western Canadian Children's Heart Network, Chair Research

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##### Dr. Sanjiv Gandhi

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- 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

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#### Initiatives in Progress

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##### International Surgical Patient Capacity Project

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##### Development of Pediatric Mechanical Ventricular Assist Device and Cardiac Transplant Program

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## DEPARTMENT OF PEDIATRIC DENTISTRY



### FACULTY MEMBERS:

Dr. Douglas Johnston, Department Head  
 Dr. Phoebe Tsang  
 Dr. Jong-Hyun Ban  
 Dr. Karen Campbell

### OTHER 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. Wa S. Cheung, Active pediatric dentist  
 Dr. Sam Chiang, Consulting orthodontist  
 Dr. Theresa P. Chiang, Active 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. Raymon Grewal, Active oral and maxillofacial surgeon  
 Dr. Rosamund Harrison, Active pediatric dentist  
 Dr. Paul Helpard, Consulting orthodontist



Dr. Bon Bob Hu, Associate GP  
 Dr. Elsa Hui-Derkson, Active pediatric dentist  
 Dr. John T. W. Hung, Active GP  
 Dr. Richard Kramer, Active pediatric dentist  
 Dr. Young Kuah, Active orthodontist and pediatric dentist  
 Dr. Declan Lawlor, Active oral and maxillofacial surgeon  
 Dr. Louisa Leung, Provisional active pediatric dentist  
 Dr. Angelina Loo, Active orthodontist  
 Dr. William MacDonald, Active oral and maxillofacial surgeon, MD  
 Dr. Graham Matheson, Active oral and maxillofacial surgeon  
 Dr. Kavita Mathu-Muju, Provisional pediatric dentist  
 Dr. Peter Munns, Consulting periodontist  
 Dr. Eugene Marks, Active oral and maxillofacial surgeon  
 Dr. Resa Nouri, Active pediatric dentist  
 Dr. Gerry Pochynok, Active pediatric dentist  
 Dr. Paul Pocock, Active Orthodontist  
 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  
 Dr. Perry Trester, Active oral and maxillofacial surgeon  
 Dr. Gerry Wittenberg, Active, oral and maxillofacial surgeon

## Highlights and Achievements

The Graduate Program in Pediatric Dentistry had its inaugural class begin in August, 2010 with three students in each class. The Program is a three year specialty certification that requires the completion and defense of a Master of Science thesis as well as sitting the Fellowship Examinations of the Royal College of Dentists of Canada. The first year students are Drs. Ella Choi, Jonathan Woo and Amin Salmasi. The second year class includes Drs. Nancy Vertel, Winnie Zhao and Carter Ng. The first year of the Program is focused at UBC Faculty of Dentistry and has a high didactic component. Years two and three will be focused at BC Children's as well as community based care. The students will be treating patients in the clinic and the dental OR as well as taking call with the GPRs.

## Lectures

- Dr. Johnston lectured to the fourth year class in the DMD Program at UBC, PAC S 430 on professionalism. The lecture focused on special needs patients that are treated in the hospital and by specialists in the community.
- Dr. Johnston lecture to Emergency Physicians on Dental Emergencies on May 12, 2012 at the Robson Campus of UBC.

## Formal Teaching

- With the initiation of the Graduate Program, all of our staff are involved in teaching. Dent 516, Case Review and Treatment Planning is lead by Drs. Campbell and Johnston. This is a two hour course that runs weekly in the third term of the first and second year graduate program. Students present a complex case on Power Point which leads to discussion and often alternate treatment plans.
- Drs. Joy Richman and Ed Yen share a full year course with the first year Graduate Students on Craniofacial Growth and Development, Dent 524. Drs. Richman and Yen each have a full term, half day seminar with the students.

- Clinical training for the graduate students begins at UBC in their first year, Dent 780. Light sedation is provided to appropriate patients in the form of nitrous oxide/oxygen alone or in combination with midazolam required. Supervision is provided in three half days per week by Drs. Gartner, Campbell and Mathu-Muju.
- Third term first year is the first exposure the graduate student have to hospital dentistry at BC Children's Hospital, Dent 783. Two of the three students treat patients in the clinic and the OR on Tuesdays and one student works in the clinic on Wednesdays. During their second and third year, three students treat patients in the OR or the clinic. Also during their second and third year, students will rotate in cleft lip and palate clinic, hemophilia clinic, anesthesiology and pediatrics.

## Publications

1. Harrison RL , Veronneau J, Leroux B. "Design and implementation of a dental caries prevention trial in remote Canadian Aboriginal communities" TRIAL S 11. 1-9, 2010.
2. Lin D, Harrison RL . "Evaluability Assessment of a Dental Prenatal Program" Can J Dent Hygiene 44. 201-06, 2010.

## Abstracts

1. Costa LRR S, Harrison R, Aleksejuniene J. Analgesic use by children following dental treatment under general anesthesia, J Dent Res 89 (Spec Iss B) Abstract #1574, 2010.
2. Wallace B, MacEntee M, Harrison R. Investigating the sustainability of community dental clinics for the underserved. J Dent Res 90 (Spec Iss B) Abstract #3111, 2011.
3. Veronneau J, Harrison R, Leroux B. Caries status of children in a randomized prevention trial. J Dent Res 90 (Spec Iss B) Abstract #352, 2011.
4. Harrison R, Veronneau J, Leroux B. Delivering behavioural interventions in a caries-prevention trial in a remote setting. J Dent Res 90 (Spec Iss B) Abstract #1789, 2011.



### Residents Supervised

Dr. Shan Sun (Pediatrics)

### GPRs (Adult)

Dr. Cornel Ciocarlan-Gabor

Dr. Valentin Dabuleanu

Dr. Jan Kantoch

Dr. Austin Lee

### Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Barriers to Access to Care in BC	Drs. Karen Campbell and Nancy Vertel		UBC Faculty of Dentistry	\$15,500

### Students Supervised

- Jaspreet Cheema
- Amanda Huminicki
- Sara Sarvari
- Colins Vasquez
- Shima Amel-Gharib
- Nicholas Piemontesi
- Amy Bellamy
- Jana Lamb
- Yili Wang
- Dr. Manu Dua
- Melody Weimer
- Dr. Anu Korada
- Zina Alkafaji
- Fatema Chherawala
- Scott Kim

### Committee Participation

Dr. Douglas Johnston

- SSAC , Surgical Cabinet
- Medical Department Head, BCCH
- Peer Review Committee
- Graduate Studies Committee UBC,
- Graduate Director's Committee UBC,
- Pediatric Hospital Dental Chief's of Canada Committee

### Initiatives in Progress

The dental desensitization project continues. The preliminary results of a scientific initiative supported by OPSEI by Drs. Castro and Salmasi were presented to Resident's Day. They won first prize out of 13 research presentations across Vancouver. The study will continue and may become part of a Master of Science project for a Graduate Pediatrics Dental Student.

# DIVISION OF PEDIATRIC SURGERY



## FACULTY MEMBERS:

Dr. Eric M. Webber, Division Head  
Dr. Geoffrey K. Blair  
Dr. Sonia A. Butterworth  
Dr. James J. Murphy  
Dr. Erik D. Skarsgard

## OTHER STAFF MEMBERS:

Ms. Lynda Fynn  
Ms. Robyn Walker  
Ms. Jill Haynes  
Ms. Susan Myhre  
Ms. Christine Adamson  
Ms. Rozana Lee  
Ms. Bindy Sahota  
Dr. Arash Safavi



Committed to providing the highest quality patient care, conducting innovative medical research, and providing the best training to our surgeons and physicians.

## Highlights and Achievements

- In 2012 Dr. Skarsgard was appointed Surgeon-in-Chief for BCCH.
- In 2011 Dr. Butterworth received the A.D. Mackenzie Award from the UBC Department of Surgery, awarded for Outstanding contribution to undergraduate and postgraduate education in the Department of Surgery.
- In 2011 Dr. Monica Langer completed her subspecialty residency in Pediatric General Surgery and passed and received her subspecialty certification from the Royal College of Physicians and Surgeons of Canada.
- In 2011 Dr. Akram Aljahdali began his two year subspecialty residency in Pediatric Surgery.
- Under Dr. Blair's leadership as the chair of the Royal College Specialty Committee in Pediatric General Surgery the name of this subspecialty was changed to "Pediatric Surgery", and subsequently the name of our division has changed to parallel this.
- In April 2011, Dr Blair led a small group of Surgery and Anesthesia staff from BCCH to Uganda for a 15 day Pediatric Surgery Camp: "Camp Weebale" (Weebale means 'thank you' in Lugandan). They partnered with a team from Uganda to provide specialized surgical and anesthesia care to 200 Ugandan children. Our senior subspecialty resident, Dr Monica Langer, and one of the General Surgery residents, Dr Gareth Eeson, were part of the team. It was a wonderful two weeks of collaboration, care and learning for both the Canadian and Ugandan participants. This was the second such project with our Ugandan partners, and another "camp" is being organized for 2013.

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**Invited Lectures**


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**Dr. Geoffrey Blair**


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- UBC Surgical Grand Rounds. "Undergraduate Surgical Education: We're not in Kansas Anymore!" November 23rd, 2011
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**Dr. Sonia Butterworth**


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- OPSEI: Laparoscopic Diaphragmatic pacing for Pediatric Spinal Cord Injury, May 2011
  - Emergency Medicine Update: Controversies in pediatric Trauma, May 2011
  - 4th Annual Dr. Nis Schmidt UBC General Surgery Update: Pediatric Surgery, December 2, 2011
  - National Defense, Canadian Forces Trauma Training Centre (West); Pediatric Trauma March 5th, 2012
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**Dr. James Murphy**


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- Sophia Chan, Bing Hsieh, Theodore Leung, Timothy Ip, Derek Yau, Dr. James Murphy, and Rizhi Wang: Material Issues in Intravenous Catheters and Ethanol Lock Therapy. 29th Annual Conference of the Canadian Biomaterials Society, Vancouver, B.C. June 2011. (Presented by Sophia Chan (4th year UBC Engineering student))
  - Murphy JJ, Altit G, Zerhouni, S: The Intra-thoracic Kidney: Should We Fix It? Presented at the 43rd Annual Meeting of the Canadian Association of Pediatric Surgeons, Ottawa, Ontario, September 2011. (Presented by Gabriel Altit (McGill pediatrics resident))
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**Dr. Erik Skarsgard**


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- **44th Annual Meeting of the Canadian Association of Pediatric Surgeons, Ottawa, Canada Sept. 23-25, 2011:**
    - \* "Chylothorax Following Congenital Diaphragmatic Hernia Repair: A Population-based Study" (podium presentation by J. Mills resident, Skarsgard-senior author)
    - \* "Multi-institutional follow up of congenital diaphragmatic hernia (CDH) patients reveals severe disability and variation in practice" (poster presentation by A. Safavi resident, Skarsgard-senior author)
    - \* Associated Malformations And The "Hidden Mortality" Of Gastroschisis (podium presentation by J. Akhtar, Skarsgard-senior author)
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- \* Antenatal Ultrasound Predictors Of Bowel Injury In Gastroschisis (podium presentation by A. Safavi resident, Skarsgard-senior author)
  - \* CAPSNet update to CAPS members
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- Keynote address to BCCHF donor event at Chieng Family Auditorium "Behind the Stethoscope" October 25, 2011
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- Presentation to the Scientific Advisory Board to CFRI. "Innovations in Acute Care and Technology" Research Cluster Report October 17, 2011
  - Presentation to CFRI Board of Governors. "Innovations in Acute Care and Technology: Progress in Clinical Research" January 12, 2012
  - City-wide Grand Rounds: Fetal gene therapy
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**Dr. Eric Webber**


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- Keynote address to BCCHF donor event at Chieng Family Auditorium "Behind the Stethoscope" January 19, 2012
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**Formal Teaching**


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**Dr. Geoffrey Blair**


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**Undergraduate**


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- Medicine Phase IV
  - Lectures in Ambulatory Problems in Pediatric Surgery and Bowel Obstruction in Children (4.5 hours)
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**Postgraduate**


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- Pediatric Surgery resident education sessions (one hour weekly)
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**Nurses**


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- 3R Nursing "Eduquick" program: 2 lectures (1 hr)
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**Dr. Sonia Butterworth**


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**Undergraduate**


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- Medical Student Problem Based Learning block 2012 (24 hours)
  - Medicine Phase IV (Surgery Block)
  - Lectures in Ambulatory Problems in Pediatric Surgery and Bowel Obstruction in Children (4.5 hours)
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Postgraduate

- Critical Care Resident Academic Half Day – the Acute Abdomen, February 9, 2012
  - Core Surgical Residents CRASH course – Leadership and Communication in the Operating Room, October 2011
  - Core Surgical Residents CRASH course – Surgical residents as teachers, bedside teaching, November 2011
  - Advanced Trauma Life Support – instructor, October 2011
  - Pediatric Surgery resident education sessions (one hour weekly)
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## Nurses

- 3R Nursing “Eduquick” program: 2 lectures (1 hr)
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## Dr. James Murphy

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Undergraduate

- Medicine Phase IV (Surgery Block)
  - Lectures in Ambulatory Problems in Pediatric Surgery and Bowel Obstruction in Children (4.5 hours)
  - Medicine Phase IV (Pediatrics Block)
  - Pediatric Surgical Case Studies (10.5 hr)
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## Postgraduate

- Pediatric Oncology Fellows: Pediatric surgery tutorial (1 hr)
  - Core Surgery residents: Principles of Surgery Seminar – Pediatric Surgery
  - Pediatric Surgery resident education sessions (one hour weekly)
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## Nurses

- 3R Nursing “Eduquick” program: 1 lecture (0.5 hr)
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## Dr. Erik Skarsgard

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Undergraduate

- Medicine Phase IV (Surgery Block)
  - Lectures in Ambulatory Problems in Pediatric Surgery and Bowel Obstruction in Children (4.5 hours)
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Postgraduate

- Maternal-Fetal Medicine fellows: Surgical treatment of congenital anomalies (1.5 hr)
  - Core Surgery Orientation lecture: How to conduct a research project (1 hr)
  - General Surgery certification exam candidates: Review course in Pediatric Surgery (1 hr)
  - Surgical residents as teachers course: Developing a research question, and privacy protection in research (1 hr)
  - Otolaryngology residents academic half day: Esophageal atresia and tracheoesophageal fistula (1 hr)
  - Neonatology fellows academic half day: Canadian Pediatric Surgery Network (1 hr)
  - Pediatric and Surgery residents: ATLS providers’ course (abdominal, pediatric trauma lectures) (2 hr)
  - Pediatric Surgery resident education sessions (one hour weekly)
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## Nurses

- 3R Nursing “Eduquick” program: 4 lectures (2 hr)
  - BCCH CNE course: Abdominal wall defects lecture (1 hr)
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## Dr. Eric Webber

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Undergraduate

- Medicine Phase IV (Surgery Block)
  - Lectures in Ambulatory Problems in Pediatric Surgery and Bowel Obstruction in Children (4.5 hours)
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## Postgraduate

- Pediatric Surgery resident education sessions (one hour weekly)
- 

## Nurses

- 3R Nursing “Eduquick” program: 1 lecture (0.5 hr)
-

## Publications

1. 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. Epub 2012 Feb 3. PubMed PMID: 22310905.
2. Fixler T, Menaker RJ, Blair GK, Wright JG. Pediatric surgical capacity and demand: analysis reveals a modest gap in capacity and additional efficiency opportunities. *Healthc Q.* 2011 Oct;14 Spec No 3:28-34.
3. Wright JG, Menaker RJ; Canadian Paediatric Surgical Wait Times Study Group. Waiting for children's surgery in Canada: the Canadian Paediatric Surgical Wait Times project. *CMAJ.* 2011 Jun 14;183(9):E559-64. Epub 2011 May 2. PubMed PMID: 21543299; PubMed Central PMCID: PMC3114932.
4. Heran MK, Sangha BS, Mayo JR, Blair G, Skarsgard ED. Lung nodules in children: video-assisted thoracoscopic surgical resection after computed tomography-guided localization using a microcoil. *J Pediatr Surg.* 2011 Jun;46(6):1292-7. PubMed PMID: 21683242.
5. Kwan K, Wu C, Duffy D, Masterson J, Blair GK. Lights, camera, surgery: a novel pilot project to engage medical students in the development of pediatric surgical learning resources. *J Pediatr Surg.* 2011 May;46(5):962-5.

Dr. Sonia Butterworth

6. Heran MK, Pham TH, Butterworth S, Robinson A. Use of a microporous polytetrafluoroethylene catheter balloon to treat refractory esophageal stricture: a novel technique for delivery of mitomycin C. *J Pediatr Surg.* 2011 Apr;46(4):776-9. PubMed PMID: 21496555.
7. Safavi A, Skarsgard E, Butterworth S, Canadian Pediatric Surgery Network. Bowel-defect disproportion in gastroschisis: does the need to extend the fascial defect predict outcome? *Pediatr Surg Int* 2012; 28(5): 495-500.

Dr. James Murphy

8. Rozmus J, Dix D, Popescu O, Langer M, and Murphy JJ: Multiple persistent ganglioneuromas arising from the spontaneous maturation of metastatic neuroblastoma. *Journal of Pediatric Hematology and Oncology* , 33(11), E1-3, 2011.

9. Safavi A, Beaudry P, Jamieson D, and Murphy JJ: Traumatic pseudoaneurysms of the liver and spleen: Is routine screening warranted? *Journal of Pediatric Surgery*, 46(5): 938-941, 2011.

10. Murphy JJ: The Bronchial Blocker: Why Won't It Come Out? *Journal of Pediatric Surgery*, 46(12), 2426-2428, 2011.

Dr. Erik Skarsgard

11. Brindle ME, Brar M, Skarsgard ED; Canadian Pediatric Surgery Network (CAPSNet). Patch repair is an independent predictor of morbidity and mortality in congenital diaphragmatic hernia. *Pediatr Surg Int.* 2011 Sep;27(9):969-74.

12. Levine DS, Metzger DL, Nadel HR, Oviedo A, Adam MJ, Skarsgard E. Novel use of F-DOPA PET/CT imaging in a child with paraganglioma/pheochromocytoma syndrome. *Pediatr Radiol.* 2011 Oct;41(10):1321-5.

13. Baird R, Eeson G, Safavi A, Puligandla P, Laberge J-M, Skarsgard ED, Canadian Pediatric Surgery Network. Institutional Practice and Outcome Variation in the Management Of Congenital Diaphragmatic Hernia and Gastroschisis in Canada: A report from the Canadian Pediatric Surgery Network (CAPSNet). *J Pediatr Surg*;46(5):801-7, 2011.

14. Heran MK, Sangha BS, Mayo JR, Blair G, Skarsgard ED. Lung nodules in children: video-assisted thoracoscopic surgical resection after computed tomography-guided localization using a microcoil. *J Pediatr Surg* 2011 Jun; 46(6):1292-7.

15. 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* 2011 Nov 17.

16. Baird R, Puligandla P, Skarsgard E, Laberge JM; Canadian Pediatric Surgical Network. Infectious complications in the management of gastroschisis. *Pediatr Surg Int.* 2012 Apr;28(4):399-404.

17. Safavi A, Langer M, Skarsgard ED. Endoloop versus endostapler closure of the appendiceal stump in pediatric laparoscopic appendectomy. *Can J Surg* 2012 Feb;55(1):37-40.

18. 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.

19. Safavi A, Skarsgard E, Butterworth S, Canadian Pediatric Surgery Network. Bowel-defect disproportion in gastroschisis: does the need to extend the fascial defect predict outcome? *Pediatr Surg Int* 2012; 28(5): 495-500.

20. Sangha BS, Skarsgard ED, Heran MK. Transscapular microcoil lung nodule localization. *J Vasc Interv Radiol*. 2012 May;23(5):659.

Dr. Eric Webber

21. Macneily AE, Alden L, Webber E, Afshar K. The surgical personality: comparisons between urologists, non-urologists and non-surgeons. *Can Urol Assoc J*. 2011 Jun;5(3):182-5.

### Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Surgical Residents as Teachers (SRA T): Implementing an Educators' Curriculum for Surgical Residents	Jarvis-Selinger	Sonia Butterworth (co-PI)	UBC - TLEF	\$70,000
Lights, Camera, Surgery	Geoffrey Blair	Duffy, Kwon, Masterson, Wong	UBC-TLEF	\$25,000
Variations in the diagnosis and management of appendicitis at Canadian Pediatric Emergency Departments	Geoffrey Blair (co-PI)	Graham Thompson U of C, (PI) and National Research team	University of Calgary Seed Grant -	\$15 623.95

Secondary Analyses of Databases: CAPSNet	Erik Skarsgard	Arbour, Bassil, Brindle, Greenwood	CIHR	\$100,000
Evidence based Practice Improvement in Quality (EPIQ): Congenital Diaphragmatic Hernia and CAPSNet	Erik Skarsgard	Klassen, Moore, Puligandla, Ungar	CIHR	\$889,580 (under consideration)
Safer Healthcare through Innovation, Evaluation and Documentation (SHIELD): Safety scalpel evaluation	De Girolamo (Skarsgard supervisor)		UBC SSRP Program	\$8,000

### Clinical Trainees

Pediatric Surgery Subspecialty Residents Supervised (2 year accredited residency)

- Dr. Monica Langer (to Jun 30, 2011)
- Dr. Jessica Mills
- Dr. Akram Aljahdali (from Jul 1, 2011)

Residents Supervised General Surgery (8 week rotations)

- Brett Mador
- Benjamin Matthew

- Joseph Ojah
- Sylvia Galindo
- Karl Langer
- Megan Thwaitesq
- Ekua York
- Nori Bradley
- Kristel Lobo-Prabhu

Plastic Surgery (8 week rotations)

- Jorga Zabojoja
- Krista Genoway



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**Pediatrics (4 week rotations)**

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- Genevieve Ernst
- Elliot Bogusz
- Emily Budd
- Dianna Louie
- Danya Fox
- Bahar Torabi
- Kelly Chow
- Kristopher Kang
- Jovan Vuksic
- Haley deVries
- Jatinder Grewal
- Jacqueline Wong
- Haillie Coltin
- Aaron St. Laurent
- Matthew Sibley
- Tatiana Sotindjo
- Katrina Stockley

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**Medical Students Supervised  
Third year Clerkship  
(2 week rotations)**

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- Annie Gallie
- Megan Hill
- Stephanie Hiebert
- Suze Berkhout
- Maralyn Hope
- Aaron Gropper
- Mary Glen
- Ali Bunney
- Rodolfo Dominguez
- Ali Bunney
- Rodolfo Dominguez
- Craig Haddon
- Jessica Paul
- Henry Stringer
- Rachel li
- Lea Harper

- Elyse Goldberg
- Leslie Anderson
- Laura Riley
- Amandeep Ghuman
- Kali Romano
- Theodore Jankowski
- Gurpreet Khaira
- Margaret Zhang
- Ida Molavi
- Azadeh Arjmandi
- Disha Mehta

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**Fourth Year Medical Student  
Selectives (4 week Rotations)**

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- Elliott Bogusz
- Kevin Lee
- David Colvin
- Sasha Litwin
- Shazeen Suleman

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**Research Trainees  
Residents Supervised**

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**Dr. Geoffrey Blair**

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- Brett Mador
- Akram Aljahdali
- Gareth Eeson
- Monica Langer

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**Dr. James Murphy**

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- Monica Langer
- Karl Langer
- Arash Safavi
- Norah Bradley
- Kelley Zwicker
- Gabriel Altit
- Siham Zerhouni

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**Dr. Erik Skarsgard**

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- Arash Safavi

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**Students Supervised**

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**Dr. Geoffrey Blair**

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- Quinten Clarke- "Tissue transillumination"
- Michiko Maruyama and Megan Neufeld- "Surgery safety Checklist" video production
- Indy Sekhon and Serge Makarenko- "Informed Consent" video production
- Kelvin Kwan "Lights, camera, surgery: a novel pilot project to engage medical students in the development of pediatric surgical learning resources."

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**Dr. Sonia Butterworth**

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- David Tso
- Rachel Kim
- Connor Forbes
- Steven Rathenberg

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**Dr. James Murphy**

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- Brent Chang
- Sophia Chan
- Bing Hsieh
- Theodore Leung
- Timothy Ip
- Derek Yau

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**Dr. Erik Skarsgard**

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- Kristin DeGirolamo
- Jordan Cheng

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**Committee Participation**

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**Dr. Geoffrey Blair**

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**UBC**

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- Chair, Flexibility Working Group, UBC Faculty of Medicine Implementation Task Force for Curriculum Renewal
- Member, Working Group Chairs Committee, UBC Faculty of Medicine Implementation Task Force for Curriculum Renewal
- Member, Curriculum Design Working Group, UBC Faculty of Medicine Implementation Task Force for Curriculum Renewal

- Member, Executive, Canadian Undergraduate Surgical Education Committee.
- Member, Branch Advisory Committee, UBC Branch for International Surgery
- Chair and Director, UBC Surgical Undergraduate Education Committee
- Member Pediatric Surgery Residency Education Committee

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#### National/International

- Chair, Royal College of Physicians and Surgeons of Canada Specialty Committee in Pediatric Surgery
- Canadian Association of Paediatric Surgery representative on Canadian Medical Association Specialty Forum
- Member, Agenda Setting Committee of CMA Specialty Forum
- Chair, Canadian Association of Paediatric Surgeons Global Partnership Committee
- Member, Canadian Association of Paediatric Surgeons Workforce Committee
- Past President and Executive Member, Canadian Association of Paediatric Surgeons
- Member, Executive, Wait Times Alliance
- Member, Program Advisory Board, International Conference on Surgical Education and Training

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#### Dr. Sonia Butterworth

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#### BCCH

- Member, BCCH NICU Complex Nutrition Committee
  - Member, BCCH Intestinal Rehabilitation Program
  - Member, BCCH Pediatric Oncofertility Committee
  - Member, BCCH Trauma Program Committee
  - Member, BCCH Oversight Committee for Diaphragmatic Pacing
  - Member, BCCH Pharmacy, Therapeutics and Nutrition Committee
  - Member, CCBP Biobank Scientific Committee
  - Member, BCCH Peripheral Parental Nutrition Subcommittee
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#### UBC

- Program Director, Pediatric Surgery Residency Program
- Chair Pediatric Surgery Residency Education Committee
- Associate Program Director, General Surgery Residency Program
- Member, General Surgery Residency Education Committee
- Member, Faculty of Medicine Resident Appeals Committee

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#### National/International

- Children's Oncology Group Surgical representative, BCCH Site
- Member, Canadian Association of Pediatric Surgeons publication committee
- Member, Canadian Association of Pediatric Surgery Program Directors Committee
- Member, American Pediatric Surgical Association of Program Directors
- Member, Children's Intestinal Rehabilitation Program

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#### Dr. James Murphy

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#### BCCH

- Member, Pharmacy, Therapeutics and Nutrition Committee
- Member, Transfusion Committee
- Member, Child Quality and Safety Committee
- Member, Surgical Suites Quality and Safety Committee
- Member, Transfusion Medicine Subcommittee on Blood Contingency
- Member, Surgical Suites Advisory Committee

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#### UBC

- Member, Department of Surgery Curriculum Group
- Member, Clinical Faculty Appointment and Promotion Committee
- Member, Pediatric Surgery Residency Education Committee

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#### National/International

- Member, Canadian Association of Pediatric Surgeons-Publications Committee

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#### Dr. Erik Skarsgard

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## BCCH

- Surgeon in Chief, Department of Pediatric Surgery, BCCH
  - Member, BCCH Foundation Board
  - Member, Child Health Executive Committee
  - Chair, Innovations in Acute Care and Technology (iACT) cluster-CFRI
  - Chair, Innovative Technology OR Committee, BCCH
  - Chair, Surgical Services Advisory Committee
  - Chair, Pediatric Surgery Executive Committee
  - Member, BCCH Surgical Cabinet
  - Member, Scientific Steering Committee-Child and Family Research Institute
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- Member, Medical Advisory Committee, BCCH
  - Member, Allocations Committee, BCCH Foundation
  - Physician Chair, Executive Committee BCCHF Miracle Weekend Committee
  - Surgical Chair, BCCH Mortality Review Committee

## UBC

- Co-chair, Centre for Surgical Research, Dept of Surgery, UBC
- Co-chair, Organizing Committee, WB and MH Chung Department of Surgery Research Symposium
- Program Director Pediatric Surgery Residency Program
- Member, Surgical Advisory Committee, Department of Surgery
- Member, Finance Committee, Department of Surgery
- Member Faculty Mentoring Program, Faculty of Medicine, UBC
- Executive Member, BC Biobank Working Group

## National/International

- Vice Chair, Examination Board of the Royal College of Physicians and Surgeons of Canada (Pediatric General Surgery)
  - Member, Specialty Committee for Pediatric General Surgery, the Royal College of Physicians and Surgeons of Canada
  - Director, Canadian Association of Pediatric Surgeons
  - Governor, American Pediatric Surgical Association
  - Member, Finance Committee American Pediatric Surgical Association
  - Member, New Technology Advisory Committee American Pediatric Surgical Association
  - Member, the Canadian Congenital Anomalies Surveillance Network
  - Advisory Group (Health Canada)
- 

## Dr. Eric Webber

## BCCH

- Member, Mortality Review Committee
- Member, Partners in Care Committee

## UBC

- Associate Dean, Postgraduate Medical Education
- Member, Faculty of Medicine Faculty Executive
- Chair, Faculty of Medicine Residency Education Committee
- Member, International Medical Graduate Task Force
- Member Pediatric Surgery Residency Education Committee

*Range of specialized expertise that can only be found at a hospital dedicated solely to children.*



**FACULTY MEMBERS:**  
Dr. Paul Steinbok, Head  
Dr. Doug Cochrane  
Dr. Ash Singhal

**OTHER STAFF MEMBERS:**  
Ms. Helen McGregor

## Lectures

- Singhal A, Bowen-Roberts T, Steinbok P, Cochrane DD: Natural history of syringomyelia in pediatric patients. CNSF meeting, Vancouver, June 2011.
- Ocal E, Pillai S, Cochrane D, Singhal A, Dunham C, Steinbok P. Stridor at birth predicts grave outcome in neonates with myelomeningocele. CNSF Vancouver June 2011.
- Cochrane DD. The Quality Imperative. Board & Executive Quality Learning Series, BC PS&QC. Kelowna June 2011.
- Cochrane DD. Introduction for Dr P Steinbok, ISPN President, ISPN, Goa India, October 2011.

- Pillai S, Steinbok P, Singhal A, Cochrane D: Mercedes Benz pattern craniosynostosis: diagnosis, management and outcome. ISPN meeting, Goa India – October 2011.
- Pillai S, Singhal A, Byrne A, Dunhan C, Cochrane D, Steinbok P. Diffusion Weighted Imaging and pathological correlation in Pediatric Medulloblastomas -“They are not always restricted!” ISPN Goa India 2011.
- Ocal E, Tamburrini G, Steinbok P: Stridor presenting at birth in neonates with myelomeningocele: preliminary results of an international survey. ISPN meeting, Goa India, October 2011.
- Pillai S, Metrie M, Dunham C, Sargent M, Hukin J, Steinbok P : Intracranial tumors in infants: long-term survival, functional outcome, and its predictors. ISPN meeting, Goa India, October 2011.
- Cochrane DD. Health Quality Councils Funding and Research Priorities. Canada’s Virtual Forum on Patient Safety and Quality Improvement. Edmonton November 4, 2011.
- Singhal A, Desapriya E, Pike I. A National Analysis of Pediatric Injuries Related to Child Restraint Seats: Are Children at Higher Risk for Injury Outside the Vehicle Than Inside? AANS Pediatric Section – Austin, December 2011.
- Singhal A, Yang M, Cochrane D. Does Optic Nerve Sheath Diameter on MRI Decrease with Improved Pediatric Hydrocephalus? AANS Pediatric Section – Austin, December 2011.
- Singhal A, Bowen-Roberts T, Steinbok P, Byrne A, Cochrane DD. Natural History of Syringomyelia in Pediatric Patients AANS Denver 2011.
- Singhal A, Mitra A, Cochrane D, Steinbok P. Ring Apophyseal Fracture in Pediatric Lumbar Disc Herniation – A Common Entity. AANS Denver, 2011.
- Cochrane DD, Kulkarni A. The Impact of Hydrocephalus. Is technical excellence sufficient? ASPN Lanai 2011.
- Drake J, Cochrane DD, Singhal A, Kulkarni A, and the Canadian Pediatric Neurosurgery Study Group. Consensus definitions of complications for accurate recording and comparisons of surgical outcomes. ASPN Lanai 2011.

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### Invited Lectures

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Dr. Paul Steinbok

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- Invited faculty – FLANC/AANS Pediatric Section course – Trujillo, Peru. 1) Temporal lobe epilepsy surgery 2) Medulloblastoma 3) Hemispherectomy 4) Tethered cord syndrome. May13-15, 2011
  - Invited faculty – EPNS course – Limerick, Ireland. 1) Tectal tumours 2) My worst epilepsy case 3) Medical treatment of spasticity 4) Selection for SDR and ITB 5) Techniques of rhizotomy. May 30-June 3, 2011
  - Invited keynote speaker - Russian Pediatric Neurosurgical Society Meeting, Kazan, Russia. 1. Role of ISPN in neurosurgical education 2. Epilepsy surgery in young infants 3. Occult filum terminale syndrome. June 8-10, 2011
  - Invited keynote speaker – 9th Brazilian Congress on Pediatric Neurosurgery. 1. Canadian perspective on MOMS trial 2. Medulloblastoma 3. Epilepsy Surgery in children. July 27-30, 2011
  - Visiting professor – Universidade Federal de Minas Gerais, Belo Horizonte, Brazil. 1. Epilepsy surgery in children. 2. Management of spastic cerebral palsy. 3. MOMs study and implications. September 9, 2011
  - Invited speaker, WFNS interim meeting, Porto Galinhas, Brazil – Pineal tumours in children. September 18, 2011
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### Publications

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1. Foroughi M, Wong A, Steinbok P, Singhal A, Sargent MA, Cochrane DD. Third ventricular shape: a predictor of endoscopic third ventriculostomy success in pediatric patients. *J Neurosurg Pediatr.* 2011 Apr;7(4):389-96.
  2. Foroughi M, Henderson G, Sargent MA, Steinbok P. Spontaneous regression of septum pellucidum/forniceal Pilocytic astrocytomas – possible role of cannabis inhalation. 2011 *Child Nerv Syst.* – Apr;27(4):671-9.
  3. Adirim T, Singhal A, Cochrane DD, Steinbok P. Pediatric patients with poor neurological status and AVM hemorrhage: an outcome analysis. *Journal of Neurosurg Pediatrics.* 2011, 7: 462-467.
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4. Singhal A, Adirim T, Cochrane D, Steinbok P. Pediatric patients with poor neurological status and arteriovenous malformation hemorrhage: an outcome analysis. *J Neurosurg Pediatr.* 2011 May;7(5):462-7.
  5. Steinbok P, Seal SKF, Courtemanche DJ: Split calvarial bone grafting in patients less than 1 year of age: technical note and use in craniofacial surgery for craniosynostosis. 2011 Jul;27(7):1149-52.
  6. Pillai S, Singhal A, Byrne AT, Dunham C, Cochrane DD, Steinbok P. Diffusion-weighted imaging and pathological correlation in pediatric medulloblastomas-”They are not always restricted!”. *Childs Nerv Syst.* 2011 Sep;27(9):1407-11.
  7. Daniels JP, Hunc K, Cochrane DD, Carr R, Shaw NT, Taylor A, Heathcote S, Brant R, Lim J, Ansermino J. Identification by families of pediatric adverse events and near misses overlooked by health care providers. *CMAJ* 2011, DOI:10.1503/cmaj.110393.
  8. Ocal E, Irwin B, Cochrane D, Singhal A, Steinbok P. Stridor at birth predicts poor outcome in neonates with myelomeningocele. *Childs Nerv Syst.* 2012 Feb;28(2):265-71.
  9. Ocal E, Irwin B, Cochrane D, Singhal A, Steinbok P. Stridor at birth predicts poor outcome in neonates with myelomeningocele. *Can J Neurol Sci.* 35: Suppl.1-S69 2011.
  10. Stritzke AI, Dunham CP, Smyth JA, Steinbok P. Congenital stridor in the context of Chiari malformation Type II: the etiological role of vernix caseosa granulomatous meningitis. *J Neurosurg Pediatr.* 2011 Oct;8(4):372-6.
  11. Singhal A, Bowen-Roberts T, Steinbok P, Byrne A T, Cochrane D D, Kerr J M. Natural history of untreated syringomyelia in pediatric patients. *Neurosurgical Focus.* 2011 Dec;31(6):E13.
  12. Singhal A, Anish M, Cochrane D, Steinbok P: Ring Apophyseal Fracture in Pediatric Lumbar Disc Herniation - A Common Entity. *Can J Neurol Sci.* 35: Suppl.1-S65 2011.
  13. Steinbok P, Pillai S, Singhal A, Cochrane D: Mercedes Benz pattern craniosynostosis: diagnosis, management and outcome. *Can J Neurol Sci.* 35: Suppl.1-S71 2011.
  14. Cochrane DD. Right-left discrimination. *J Neurosurg* 115:193-194, 2011.
  15. Cochrane DD. Why do we still have radiolucent shunt components *J Neurosurg Pediatrics* 7: 563-564, 2011.
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16. Steinbok P: Commentary: 'Does loss of spasticity matter? A 10 year follow-up after selective dorsal rhizotomy in cerebral palsy' by Kristina Tedroff". Developmental Medicine & Child Neurology. 2011.
17. Steinbok P: Commentary: 'The Value of Post-Operative MR in Tethered Cord: A Review of 140 Cases' by P. David Halevi, Suhas Udayakumaran, Liat Ben-Sira, Shlomi Constantini. Child Nerv Syst. 2011
18. 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 Mar 13. doi: 10.1002/stem.1081 [Epub ahead of print].
19. Singhal A, Steinbok P: Supratentorial primitive neuroectodermal tumors. In ISPN guide – web.publication ([www.ISPNeurosurgery.org](http://www.ISPNeurosurgery.org))

### Honours and Awards

#### Dr. Paul Steinbok

- BCCH Award of Distinction for family centered care

#### Dr. Doug Cochrane

- UBC Faculty of Medicine Award
- Distinguished Achievement Award Service to the University and Community

### Formal Teaching

#### Fellows Supervised

- E Ocal
- W Suryaningtyas
- K Al-Kharazi

#### Residents Supervised

- T Ailon
- E Ocal
- W Suryaningtyas
- K Al-Kharazi

#### Residents Supervised

- T Ailon

#### Student Supervised

##### Michael Yang

- Optic Sheath Diameter as a Proxy for Treatment Response in Hydrocephalus
- Computer Assisted Fundoscopic Examination (CAFÉ) – a randomized study

##### Andrew Wong

- Complications – the role of definitions in defining event reporting 2011

##### Calvin Tong

- Extruding Gelfoam: a head bump from a failed ETV 2011
- Recurring Concomitant Aneurysmal Bone Cyst and Fibrous Dysplasia of the Occipital Bone: A Case Report and Brief Review of the Literature 2011
- Endoscopic Fenestration of Cavum Velum Interpositum Cysts: A Case Study of Two Symptomatic Patients
- Spinal Cord Infarction Remote from Maximal Compression in a Patient with Morquio syndrome: A Case Report 2011 – submitted
- Changes in apparent diffusion coefficient, lateral ventricular volume, and extent of t2 periventricular hyperintensity after endoscopic third ventriculostomy in children. 2011

##### Jaspreet Manget

- Surgical resection of pediatric cerebellar astrocytomas

### Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Cross Canada study of Thalamic Tumors in children	Steinbok (PI)		Brain Tumor Foundation of Canada	\$25,000

Project Title	PI	Team	Granting Agency	Amount
Thalamic brain tumors in Canada in the MRI era	Steinbok (PI)		Research Network and Childhood Cancer Foundation	\$117,985
Cross Canada study of Thalamic Tumors in children	Steinbok (PI)		Brain Tumor Foundation of Canada	\$25,000
Long-term follow-up of ambulatory children with spastic diplegia: Efficacy of treatment	Steinbok (Co-PI)		Shriners International Headquarters	\$49,343 US
Long-term outcomes of children with brain tumours diagnosed in the 1st year of life	Steinbok (PI)		OPSEI	\$5,000
Fellowship in Pediatric Neurosurgery 2011/2012	Steinbok (PI)		Fellowship allocation Committee at BC Children's Hospital	\$61,400
Management of parental anxiety in the surgical waiting area	A. Singhal		OPSEI	\$5021

Impact of early follow-up intervention on post concussion pediatric symptoms: A feasibility study	Ms. Patricia Mortenson	A. Singhal	BCCH Telethon Projects Award	\$23,212
Medulloblastoma A BCCH Retrospective Study	Dr. Chris Dunham	A. Singhal	BCCH Hospital Telethon Projects Award	\$29,951
Incidence and Types of Adverse Events in Children in Large Community Hospitals	Cochrane D (co-PI)		CPSI	\$248,775

### 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
- Provincial Medical Affairs Committee, PHSA, Member
- PHSA Executive Committee, Member
- BC Patient Safety Taskforce, BCCH, Member
- MAC Executive Committee, BCCH, Member
- Stereotaxic Radiosurgery Team, BCCH, Member
- Stereotactic Operations Working Group, BCCA, Member
- Research and Education Advisory Council, BCCH, Member
- Site Research and Education Space Planning Committee, BCCH, Member
- Canadian Society of Telehealth, Founding Member
- ROAR S, Vancouver Richmond Health Board, Member
- BC Patient Safety and Quality Officer

- BC Patient Safety and Quality, Member
- Provincial Medical Affairs Committee, Member
- BC Patient Safety Taskforce, Member
- Board of the Canadian Patient Safety Institute, Board 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
- Alpha Omega Alpha Honor Medical Society, Member
- Canadian Medical Protective Association, Member
- Alberta College of Physicians and Surgeons, Member
- Canadian Neurosurgical Society, Member
- Congress of Neurological Surgeons, Member
- International Society of Pediatric Neurosurgery, Member
- Congress of Neurological Surgeons, Member
- American Society of Pediatric Neurosurgery Study Group, 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

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#### Dr. Ash Singhal

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- 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 2010
- Child's Nervous System, Reviewer
- Examination Committee, Royal College of Physician and Surgeons of Canada
- Board Member, ThinkFirst (Injury Prevention Society)

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#### Dr. Paul Steinbok

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- 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
  - International Society for Pediatric Neurosurgery – President elect – became President November 2010
  - 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
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## FACULTY ON-SITE:

Dr. Maryam Aroichane  
Dr. Jane Gardiner  
Dr. Christopher Lyons (Department Head)

## FACULTY, OFF-SITE:

Dr. Roy Cline  
Dr. Alan Demco  
Dr. Peter Dolman (Oculoplastics, Orbit)  
Dr. Ross Kennedy  
Dr. Patrick Ma (retina)  
Dr. Katherine Paton (ocular oncology)  
Dr. Megan Rees  
Dr. David Rossman (Oculoplastics, Orbit)  
Dr. Aron Tischler

## CONSULTING FACULTY:

Dr. David Albiani (retina)  
Dr. Duncan Anderson (Neuro-ophthalmology)  
Dr. Simon Lam (retina)  
Dr. David Maberley (retina)  
Dr. Andrew Merkur (retina, ERG)

Dr. Jack Rootman (orbit)  
Dr. William Ross (retina)

## AFFILIATIONS:

- Visual Impairment Program:  
Dr. Carey Matsuba  
-Research Department:  
Dr. Debbie Giaschi

## ORTHOPTIC STAFF:

Christy Giligson  
Andrea Quan  
Vaishali Metha  
Debbie Zylich  
Coral Crawford

## ELECTROPHYSIOLOGY STAFF:

Richard Gonzalez

## ADMINISTRATIVE STAFF:

Courtney Conroy  
Jennifer Ali  
Dolores Latham  
Natalie Wong  
Joan Baldos

## Highlights and Achievements

This has been another successful year for the Department of Ophthalmology at BC Children's Hospital.

Clinically, we cared for 8,967 outpatient visits. As a group, we performed 914 surgical procedures in the operating rooms, a 23% decrease on the previous year, reflecting decreasing OR time allocation to Ophthalmology over that period.

Teaching is an important element of our academic mission. In the 2011-2012 period, we trained four post-graduate fellows in pediatric ophthalmology and strabismus, one each from Switzerland, the United Kingdom, Australia and Saudi Arabia. In addition, Neurology and Neuro-ophthalmology Fellows were taught in the Department.

At any one time, two UBC Ophthalmology residents come to do a 6-week rotation in pediatric ophthalmology and strabismus. In addition, the majority of staff members contribute to UBC medical student education.

In September 2011 we hosted the seventh UBC biennial Vancouver International Pediatric Ophthalmology and Strabismus conference. Invited guest speakers from Montreal, London UK, Manchester and San Francisco, and most of our local faculty addressed topical as well as controversial issues in our sub-specialty over this two-day conference held at the UBC Robson Square Campus. One hundred and twenty participants came from across Canada and USA for this popular meeting.

Several members of the Department fulfilled the academic mandate of UBC and BCCH, delivering invited lectures, eponymous lectures and teaching on visiting lectureships and professorships around the world.

We contributed to the administrative process within the university and the hospital, the majority of Staff members participating in committee work. We have had further discussions with regard to the department move to a new location on the hospital campus, hoping that this will remain geographically convenient for patients. We also look forward to continuing the fruitful interactions we currently enjoy with the other clinicians working at BC Children's Hospital.

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Dr. Maryam Aroichane

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- Invited Speaker. Vancouver Pediatric Ophthalmology Meeting, Vancouver, September 2011. Brown's Syndrome Revisited.
  - Research Day. UBC Department of Ophthalmology, Vancouver, 2011. Anisocoria, a familial trait?
  - Clinical teaching to medical students, ophthalmology residents and fellows in pediatric ophthalmology, in particular neuro-ophthalmology.
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Dr. Roy Cline

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- Invited Speaker. Canadian Society of Ophthalmic Registered Nurses, June, 2011. Amblyopia and Strabismus.
  - Invited Speaker, Trinity Western University, Physiology Department, Langley, BC, October 2011. Amblyopia and Strabismus.
  - International Orthoptic Society Meeting, Toronto, ON, November 2011. Non-committant Strabismus.
  - Surgical & Clinical Teaching to Fellows and residents, Surgery: Adult & Pediatric Strabismus with adjustable suture, Clinical: Pediatric Vision Screening, Amblyopia and Strabismus, Complicated Strabismus Repairs and Transpositions, Management of Pediatric Cataracts.
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Dr. Peter Dolman

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- Keynote Lecturer, British Ocular Plastics Society BOPSS, Cardiff, Wales, May, 2011. Dysthyroid optic neuropathy. A history perspective and overview. Local Anesthesia and Hot Wire Cautery in Surgery. Cosmetic and functional Blepharoplasties. Orbital myositis. Endonasal DCR: trends and controversies.
  - Invited Speaker, Colombian Association of Oculoplastic Surgery, Bucaramanga, Colombia, June, 2011. Orbital Trauma and its management. Thyroid Orbitopathy Management. Endonasal approaches. Endonasal controversies. What's new in Thyroid Eye Disease. Orbital Lymphoproliferative Disease.
  - Invited Speaker, Brazil Institute of Oculoplastics and Orbital Surgery, San Paolo, Brazil, September, 2011. Eyelid Trauma and its management.
  - Invited Speaker, Indian Orbital and Oculoplastics Society, Vivak, India, November, 2011.
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- Visiting Professor, University of Zurich, 150 Year Anniversary Symposium, Zurich, Switzerland, March, 2012. Dysthroid Optic Neuropathy: new findings and treatment. Orbicularis biopsies for mitochondrial myopathies. Trends in Lacrimal Surgery.
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- Resident oculoplastics rounds every month. Resident and fellows orbit rounds every 2 months.
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Dr. Jane Gardiner

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- Invited Speaker. St. Paul's Hospital, Parent Education Meeting for JIA, Vancouver, June 2011.
  - Invited Speaker. BC Children's Hospital, Clinical Assistant Training Session, Vancouver, November 2011. Retinopathy of Prematurity.
  - Invited Speaker. Vancouver Pediatric Ophthalmology Meeting, Vancouver, September 2011. Juvenile Idiopathic Arthritis & Uveitis.
  - Clinical teaching to medical students, ophthalmology residents and fellows in the area of ocular AIDS and in pediatric ophthalmology, in particular retinopathy of prematurity.
  - Teaching of doctors and other medical staff while on projects in the third world.
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Dr. Debbie Giaschi

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- Invited Speaker. The Canadian Orthoptic Society Workshops, Vancouver, June 2011. Testing, testing: the science behind clinical tests of stereopsis, contrast sensitivity and visual acuity.
  - Invited Speaker. The Canadian Orthoptic Society Annual Meeting, Vancouver, June 2011. What can we tell patients about 3D TV?
  - Invited Speaker. Developmental Neurosciences and Child Health Research Day, Child and Family Research Institute, Vancouver, October 2011. Amblyopia: a new approach to an old problem.
  - Invited Speaker. UBC Neuropsychiatry Grand Rounds, Vancouver, April 2011. Developmental dyslexia. Current teaching involves Undergraduate Arts/Science and Medical students. Tutor, Brain and Behaviour block of the 2nd year problem-based learning curriculum. Supervised Summer/ Undergraduate and Graduate students and one Postdoctoral fellow.
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Dr. Christopher Lyons

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- Visiting Professor, University of Western Ontario Clinical Day: GV Simpson Lectureship in Ophthalmology, London, Ontario, April 2011. Can My Child See? Acute Strabismus. Disc Swelling in Childhood.
  - Visiting Professor, Sick Children's Hospital, Resident and Fellows' Teaching Session, Toronto, Ontario, April 2011. Craniopharyngioma in Childhood.
  - Visiting Professor, 22nd Annual Jack Crawford Day, Sick Children's Hospital, Jack Crawford Lecture, Toronto, Ontario, April 2011. Infantile Aphakes and Pseudophakes: What lies ahead in the teenage years? Childhood Glaucoma: Issues in transition to Adulthood.
  - Visiting Professor, 35th Seminar, Department of Ophthalmology King Saud University Riyadh and Saudi Ophthalmological Society, May 2011. Neurofibromatosis and the Eye. Craniopharyngioma. Acquired Comitant Esotropia: is there a tumour? Retinal Dystrophies: childhood presentations.
  - UBC Department of Ophthalmology and Visual Sciences, Grand Rounds Presentation, Vancouver, BC, May 2011. The Child with swollen discs.
  - Canadian Ophthalmological Society, TCOS Dr John Pratt-Johnson annual Lecture, June 2011. Where the Wild Things Are: When Esotropia Misbehaves.
  - Visiting Professor, California Pacific Medical Center, San Francisco, June 2011. Grand Rounds Presentation. Resident teaching: Case presentations.
  - Visiting Professor, Smith Kettlewell Research Institute, San Francisco, June 2011. Adult patients with esotropia: Lessons from childhood strabismus.
  - Organizer, Pediatric Ophthalmology and Strabismus Conference, Vancouver, BC, September 2011. Strabismus: The challenges of incomitance. Disc swelling in childhood. When Esotropia misbehaves.
  - Invited Guest Lecturer, Universities of Rotterdam and Nijmegen International course, New Developments in Ophthalmology, Curacao, Netherlands Antilles, October 2011. Optic Disc Swelling in Childhood. When Esotropia trips you up.
  - Clinic-based teaching of 3rd year UBC medical students, four hours per week. Tuesday am.
  - Daily clinic-based teaching of Ophthalmology Residents and Fellows.
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- Surgical instruction of Ophthalmology Residents and Fellows.
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- Weekly Residents' teaching Rounds and Fellows' teaching conference. Wednesday am.
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- Weekly Fellows' teaching Rounds. Friday am.
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Dr. Patrick Ma

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- Invited Speaker, Atlantic Eye Symposium 3rd Annual Meeting, Halifax, Nova Scotia, September 2011. Management of IOL and Lens Complications. Surgery for Diabetic Retinopathy. 10 ways to stay out of trouble managing retinal problems.
  - Invited Speaker, UBC Ophthalmology Research Day, Vancouver, BC, April 2011. Computerized dynamic Amsler grid for macular assessment in patients with neovascular age related macular degeneration and cystoid macular edema – a pilot study.
  - Keynote Speaker, Novartis 11th International AMD and Retina Congress, Lisbon, Portugal, November 2011. AMD treatments.
  - Keynote Speaker, Bausch & Lomb Canada Dialogues in Retina Consultancy Meeting, Boston, MA, August 2011. Stellaris PC.
  - Clinical instruction Ophthalmology, special interest in diseases and surgery of the retina and vitreous. Clinical optics for ophthalmology residents. Pediatric Retinal Diseases.
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Dr. Megan Rees

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- Guest Speaker, Canadian Ophthalmological Annual Meeting, The Canadian Orthoptic Society Workshops, Vancouver, BC, June 2011. Halting Myopia Progression Review.
  - Invited Speaker, UBC Department of Ophthalmology Pediatric Ophthalmology and Strabismus Conference, Vancouver, BC, September 2011. Halting Myopia Progression.
  - Invited Speaker, BC Optometric Society, Pediatric Ophthalmology Review, 2011.
  - 3rd year UBC medical students, Clinical Skills Teaching, 2002 – present.
  - Participator in and Organizer of Ophthalmology Pediatric Resident Rounds, Eye Care Centre, Vancouver General Hospital, Vancouver, BC, 1993 – present.
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- Weekly 2nd and 3rd year medical student office teaching, 2003 – present.
- UBC Medical Student Job Shadow program, 2004 – present.
- Ophthalmology Resident Teaching in office, 2008 – present.

Dr. David Rossman

- Invited Speaker, Canadian Ophthalmological Annual Meeting, The Canadian Orthoptic Society, Vancouver, BC, June 2011. Update on Graves Orbitopathy.
- Ophthalmology UBC Resident Wet Lab Teaching, Basic Oculoplastic Techniques, 1 hour session in November 2011.

### Publications

Dr. Maryam Aroichane

1. Ophthalmic Complications of Pediatric Otitis Media. Pollock T(F), Kim P (F), Sargent M, Aroichane M, Lyons CJ, Gardiner J. JAAPOS June 2011 15(3)272-5.

Work in Progress:

2. Anisocoria, a familial trait? Pollock N, Aroichane M.
3. A case of bilateral Acute Retinal Necrosis (ARN) in a neonate. To be submitted to JAAPOS. Talbot R, Aroichane M.

Dr. Roy Cline

4. Comer, R., Kim, P., Cline, R., Lyons, C. Cataract Surgery in the First Year of Life: Aphakic Glaucoma. C.J.O. Apr. 2011; 46.
5. Cline R, Sketchley M, The characteristics of amblyopia in congenital esotropia syndrome. (Submitted to CJO for publication).

Work in Progress:

6. Waterfowl of Westham Island – photographic essay (1/10th completed).
7. Incidence of over-correction after treatment of double elevator palsy.
8. Incidence of over-correction after surgery for congenital esotropia.
9. Characteristics of amblyopia in the treatment of infantile esotropia (submitted)
10. Management of restrictive strabismus due to Jones tubes.

Dr. Peter Dolman

11. Dolman PJ, Response to Letter on Ocular Motility, Ophthalmology 2012; in press.
12. Wiwatwongwana A, Esdaile J and Dolman PJ, Intravenous Immunoglobulin in Orbital Wegener's Granulomatosis: a case report. Can J Ophthalmol 2012; in press.
13. Rodriguez R, White VA, Dolman PJ. Blastomycosis of the Eyelid, a case report, Can J Ophthalmol 2012; in press.
14. Dolman PJ, Cahill K, Czyz CN, Douglas R et al. Reliability of estimating ductions in thyroid eye disease: An International Thyroid Eyed Disease Society Multicenter Study, Ophthalmology 2011: Sept, e pub ahead of press.
15. Fayers T, Dolman PJ. Validity and Reliability of the TED-QOL: a new three item questionnaire to assess quality of life in thyroid eye disease. Br J Ophthalmol 2011;95:1670-1674.
16. Moloney G, Dolman PJ. Eyelid deformities from pyodermitis pyostomatitis vegetans, Clin Experiment Ophthalmol. 2011 Dec;39(9):910-1.

Books: Chapters:

17. Peter Dolman. Orbital Trauma, Atlas of Orbital Surgery, Rootman, 2012
18. Peter Dolman. Endonasal DCR. Oculoplastics Atlas, Lucarelli et al, 2011

Dr. Jane Gardiner

19. Pollock T, Kim P, Sargent M, Aroichane M, Lyons CJ, Gardiner JA, Ophthalmic complications of otitis media in children, JAAPOS, 2011 June; 15(3): 272-75.

Work in Progress:

20. Risk Factors for Retinal Detachment post Laser for ROP. Wittenberg L, Aghajanian J, Gardiner JA – data collected and analysed, manuscript about to be started.

Dr. Deborah Giaschi

21. Secen J, Culham J, Ho C, Giaschi D. (2011) Neural correlates of the multiple object tracking deficit in amblyopia. Vision Research 51:2517-2527.
22. Hayward J, Truong G, Partanen M, Giaschi D. (2011) Effects of speed, age and amblyopia on the perception of motion defined form. Vision Research 51:2216-23.

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23. Giaschi D, Narasimhan S. (2011) Using motion perception in the treatment of amblyopia. International Orthoptic Congress, in press.
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24. Narasimhan S, Giaschi D. (2011) The effect of dot speed and density on the maturation of global motion perception. *Journal of Vision* 11(15):53 doi: 10.1167/11.15.53.
- 
25. Partanen M, Bjornson B, Edgell D, Fitzpatrick K, Giaschi D. (2011) The cortical basis for the dichotic pitch deficit in developmental dyslexia. *Brain Development Conference*, pg 35.
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26. Partanen M, Fitzpatrick K, Edgell D, Bjornson B, Giaschi D. (2011) The cortical basis for the dichotic pitch deficit in developmental dyslexia. *Cognitive Neuroscience Conference*.
- 
27. Narasimhan S, Harrison E, Giaschi D. (2011) Quantitative measurement of interocular suppression in children with amblyopia. *Journal of Vision* 11(11):410 doi:10.1167/11.11.410.
- 

Work Submitted:

28. Giaschi D, Narasimhan S, Lo R, Lyons C, Gardiner J, Aroichane M, Wilcox L. Sparing of course stereopsis in children with amblyopia. *Vision Science Society* submitted Dec 2011.
29. Narasimhan S, Wilcox L, Solski A, Harrison E, Giaschi D. Fine and course stereopsis follow different developmental trajectories in children. *Vision Science Society* submitted Dec 2011.
30. Partanen M, Prevost D, Von Grunau M, Giaschi D. The line motion illusion in children with developmental dyslexia. *Dyslexia* submitted October 2011, revision in progress.
31. Partanen M, Edgell D, Field L, Giaschi D. Visual and auditory temporal processing abilities in families with a history of developmental dyslexia. *Journal of Experimental Psychology; Human Perception and Performance* submitted October 2011.
32. Partanen M, Fitzpatrick K, Edgell D, Bjornson B, Giaschi D. Cortical basis for the dichotic pitch deficit in developmental dyslexia. *Brain and Language* submitted October 2011.
33. Narasimhan S, Giaschi D. the effect of dot speed and density on the development of global motion perception. *Vision Research* submitted October 2011, revision in progress.
34. Narasimhan S, Harrison E, Giaschi D. Quantitative measurement of interocular suppression in children with amblyopia. *Vision Research* submitted November 2011, revision in progress.
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Work in Progress:

35. Wilcox L, Solski A, Giaschi D. the development of course stereopsis in school age children.
36. Giaschi D, Narasimhan S, Wilcox L. Course stereopsis in amblyopia.
37. Harrison E, Wilcox L, Giaschi D. review article on the development of binocular vision.
38. Giaschi D, Field L, Edgell D, Partanen M, Bjornson B. Genetic linkage analysis in families with dyslexia based on a temporal processing phenotype.
39. Regan D, Narasimhan S, Giaschi D. The effect of occlusion therapy on visual acuity in amblyopic children with gaze defects.
40. Giaschi D, Ho C, Narasimhan S, Lyons C, Gardiner J, Cline R, Aroichane M,. The effect of occlusion therapy on motion deficits in children with amblyopia.
41. Meier K, Giaschi d. Optimization of global motion tasks for interstudy comparison in children.
42. Lo R, Meier K, Giaschi D,. Neural correlates of motion defined form perception.
43. Farrokhyar G, Giaschi D. Comparison of two popular clinical tests of stereoacuity.
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Dr. Christopher Lyons

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44. Smith M, Heran MK, Connolly MB, Heran HK, Friedman JM, Jett K, Lyons CJ, Steinbok P, Armstrong L. Cerebrovasculopathy in NF1 Associated with Ocular and Scalp Defects *Am J Med Genet* 2011;155A:380-5.
- 
45. Robitaille J, Zheng B, Wallace K, Beis M, Tatidil C, Yang J, Sheldow C, Siebert L, Levin A, Lam W, Artur B, Lyons CJ, Jaakola E, Tsilou E, Williams C, Weaver R, Shields C, Guernsey D. The role of Frizzled 4 mutations in Familial Exudative Retinopathy and Coats Disease. *Brit J Ophthalmol* 2011 95(4):574-9.
- 
46. Comer R (F), Kim P (F), Cline R, Lyons CJ. Cataract surgery in the first year of life: aphakic glaucoma and visual outcomes. *Can J Ophthalmol* 2011 46(2) 148-52.
- 
47. Ophthalmic Complications of Pediatric Otitis Media. Pollock T (F), Kim P (F), Sargent M, Aroichane M, Lyons CJ, Gardiner J. *JAAPOS* June 2011 15(3)272-5.
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48. Genetic-environmental interaction in a unique case of Muenke syndrome with intracranial hypertension. Agochukwu NB, Solomon BD, Zajackowska-Kielska A, Lyons CJ, Pollock T, Singhal A, Van Allen MI, Muenke M. *Childs Nerv Syst* 2011; 27 (12)2183-5.

Papers in progress:

49. MitomycinC- augmented glaucoma drainage implant in childhood- a retrospective review. Pollock T (F), Lyons CJ
50. Against the rule astigmatism in children seen in a tertiary clinic correlates with significant systemic abnormalities. Kim P (F), Gardiner J, Aroichane M, Lyons CJ, (F) Denotes UBC Pediatric Ophthalmology Fellow.

Books:

51. The Pineal Gland and Melatonin: Recent Advances in Development, Imaging, Disease and Treatment” edited by Turgut M and Kumar R. Nova Publishers 2012. Melatonin and ocular physiology. Brennan R, Lyons CJ.
52. Pediatric Neurology Ed. O Dulac, Elsevier. 1: Wiwatwongwana A, Lyons CJ: Cranial Nerves and Ocular motility. 2: Lyons CJ, Wiwatwongwana A: Optic nerve and visual Pathways, proof stage.
53. Pediatric Ophthalmology. Eds. Hoyt CS and Taylor D. Elsevier. 1: Lyons CJ, Chang W, Rootman J. Orbital disease in Childhood. 2: Lyons CJ, Rootman J. Other mesenchymal abnormalities. 3: Lyons CJ, Rootman J. Metastatic, Secondary and Lacrimal Gland Tumors. 4: Lyons CJ, Rootman J. Histiocytic, Hematopoietic and Lymphoproliferative Disorders. 5: Lyons CJ, Rootman J. Cystic lesions and ectopias. 6: Lyons CJ, Rootman J. Inflammatory Disorders. 7: Lyons CJ, Frederick D. Lid and orbital infantile hemangiomas and other vascular diseases of the orbit.

Predicting occlusion therapy outcomes for children with amblyopia	Deborah Giaschi		Canadian Institutes of Health Research	\$73,423
PDF support (S. Narasimhan)	Deborah Giaschi		Marquerite Adamson Trust	\$1,890
Brain mechanisms underlying human motion perception	Deborah Giaschi		NSERC	\$62,000 pending
VEGF Trap-Eye in subjects with Macular edema secondary to Central retinal Vein Occlusion (CRVO)	Patrick Ma		Regeneration	\$50,000
Pazopanib eye drops for the treatment of neovascular age related macular degeneration (AMD)	Patrick Ma		GSK	\$50,000

### Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Brain mechanisms underlying human motion perception	Deborah Giaschi		NSERC	\$21,600

### Students, Residents & Fellows Supervised

Students:

2nd year medical students were supervised every Tuesday morning with Dr Rees. 3rd and 4th year students were supervised every Tuesday morning with Dr. Lyons, every other Wednesday morning with Dr. Aroichane and every Thursday morning with Dr Gardiner. Dr. Ma supervises a student every Wednesday. Dr. Rossman supervises a 3rd year student for a half day every week. Drs. Cline and Dolman supervise one 3rd year student one day a week.

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Elective Students:

Drs Aroichane, Cline, Kennedy, Lyons, Ma, Rees, Rossman and Tischler supervised elective students periodically.

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## Dr. Deborah Giaschi

- Kimberly Meier – MA candidate
  - Ryan Lo – NSERC summer student; work-study student
  - Houman Rashidian – summer student
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## Orthoptic students 2011-2012:

- Rawn Stokoe
  - Lindsay Groff
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## Residents:

Every year, all PGY 3 & PGY 4 UBC residents rotate through Pediatric ophthalmology for an 8 week period. During these rotations, Drs S. Levasseur, S. Schendel, L. Mok, A. Butler and A. Ko were supervised by Drs Aroichane, Cline, Gardiner, Kennedy, Lyons, Ma and Rees.

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Fellowship supervision/teaching

## Dr. Maryam Aroichane

- Jean Chuo, Canada July 2010 – June 2011
  - Olunfunmilola Ogun, Nigeria, July 2010 – June 2011
  - Simone Hohermuth, Switzerland, May 2010 – July 2011
  - Lisa Scoppettuolo, England, July 2010 – July 2011
  - Hughie Tsang,, Australia, July 2011 – September 2012
  - Elham Al-Qatani, Saudi Arabia, January 2012 – December 2012
  - Michael Dreyer, Australia, Mar 2011 – July 2011
  - Taim Muayqil, Alberta, July 2011 – June 2012
  - Mishal Abu Al-Maleh, British Columbia, July 2011 – June 2012
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## Dr. Peter Dolman

- Helena Kordic, Switzerland, January 2011 – July 2011
  - Pari Shams, England, July 2011 – January 2012
  - Suriyasnata Rath, India, January 2012 – July 2012
- 

## Dr. Jane Gardiner

- Simone Hohermuth, Switzerland, May 2010 – July 2011
  - Lisa Scoppettuolo, England, July 2010 – July 2011
  - Hughie Tsang,, Australia, July 2011 – September 2012
  - Elham Al-Qatani, Saudi Arabia, January 2012 – December 2012
- 

## Dr. Deborah Giaschi

- Sathyasri Narasimhna, Postdoctoral Fellow
- 

## Dr. Christopher Lyons

- Simone Hohermuth, Switzerland, May 2010 – July 2011
  - Lisa Scoppettuolo, England, July 2010 – July 2011
  - Hughie Tsang,, Australia, July 2011 – September 2012
  - Elham Al-Qatani, Saudi Arabia, January 2012 – December 2012
- 

## Dr. Patrick Ma

- Michael Butler, Canada, July 2010 – June 2011
  - Adrian Fung, Australia, July 2010 – June 2011
  - James Leong, Australia, July 2011 – June 2012
  - Keton Laud, United States, July 2011 – June 2012
- 

## David Rossman

- Adnan Pirbhai, Canada, July – December 2011
  - Suriyasnata Rath, India, January 2012 – July 2012
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Committee Participation

## Dr. Maryam Aroichane

- Fellow, Royal College of Physicians and Surgeons of Canada
  - Fellow, College of Physicians and Surgeons of British Columbia
  - President of the Canadian Orthoptic Council
  - Examiner for orthoptists certification in June 2010 and June 2011
  - Member, 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

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#### Dr. Roy Cline

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- Fellow, Royal College of Physicians and Surgeons of Canada
- Provincial Representative, Canadian Orthoptic Council, 1994 – present
- Examination Committee, Canadian Orthoptic Council, 1994 –present
- Member, American Orthoptic Council
  - Public Relations Committee
  - Training and Accreditation Committee
  - Planning committee “AAO Sunday Symposia”
- Member VGH Executive Committee, 2002 – present
- Member, VGH Undergraduate Teaching Committee, 2005 – present

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#### Dr. Peter Dolman

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- Division Head of Oculoplastics, UBC Ophthalmology and Vision Science, 2009 – present
- Director of Fellowship Programs, UBC Ophthalmology, 2001 – 2012
- Medical Director of Treatment Room, UBC Ophthalmology, 2009 – 2012
- Member, Eye Care Centre OR Operating Room Advisory Committee, 2002 – 2012
- Member, Departmental Clinical Faculty Promotions Committee, 2001 – 2012
- Member, Residency Selection Committee, UBC Ophthalmology, 2000, 2005 – 2007, 2012
- Member, VGH Ophthalmology Advisory Committee, 1992 – 2012
- Member, Eye Care Centre Surgical Day Care Committee, 1991 – 2012
- Fellow, Royal College of Physicians and Surgeons of Canada

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#### Dr. Jane Gardner

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- Member, UBC Ophthalmology and Vision Science, Head Search Committee 2011 – 2012

- UBC Undergraduate Director, Department of Ophthalmology and Vision Science, 2010 – present
- Member, UBC Ophthalmology Continuing Education Committee, 2008 present
- Resident Interview Committee, UBC Ophthalmology, 2011, 2012
- Examiner, Royal College of Physicians and Surgeons of Canada Fellowship, 2007 -present
- Member, Canadian Ophthalmological Society
- Member, American Association of Pediatric Ophthalmology and Strabismus
- Secretary/Treasurer, Canadian Association of Pediatric Ophthalmology, 2008 – present
- Medical Director, Orthoptics Training Program, BCCH, July 2006 – present
- Member, Canadian Orthoptic Council Admissions and Training Committee, 2009 – present
- Member, British Columbia Children’s Hospital Ophthalmology Staff Committee 2000 – present
- Examiner, RSPSC Fellowship, 2007 - present
- Fellow, Royal College of Physicians and Surgeons of Canada

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#### Dr. Debbie Giaschi

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- Member, Research Day Organizing Committee, UBC Department of Ophthalmology and Visual Sciences, 2011 - present
- Faculty coordinator, NSERC Undergraduate Student Research Award coordinator, UBC Medicine, 2007 - present
- Member, High Field MRI Centre Protocol Review committee, UBC, 2004 - present
- Chair, CFRIF protocol review committee, 2011 – present
- Member, Child and Family research Imaging Facility Executive, 2011 – present
- Member, CFRI Neurons to Neighbourhoods cluster advisory committee, 2009 – 2011
- Member, Teaching Evaluation Committee, Psychology, 2008 – present
- Member, Ophthalmology Executive Advisory Committee, 2011 – present
- Member, Residency Training Committee, Ophthalmology, 1998 – present
- Mentor, Faculty of Medicine, School of Audiology and Speech Sciences, 2005 – present



- Member, Medical Genetics Supervisory Committee, 2011 – present
- Member, Neuroscience Supervisory Committee, 2011 – present
- Member, Audiology Supervisory Committee, 2011 – present
- UBC Internal Review (Office of the VP research), October 2011

Manuscript Reviewer:

- Perception, 2008 – present
- Clinical Physiology and Functional Imaging, 2008 – present
- Investigative Ophthalmology and Vision Science, 2009 – present

Grant reviewer:

- EA Baker (CNIB), 2010 - current

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Dr. Ross Kennedy

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

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Dr. Christopher Lyons

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- Director, UBC Dept. of Ophthalmology and Vision Science, Residency Training January 1999 – April 2011
- Member UBC Ophthalmology Residency Selection sub-committee 1997-2011
- Member, UBC Ophthalmology Staff Committee
- Member, UBC Ophthalmology Advisory Committee
- Member, UBC Ophthalmology Manpower Committee
- Member of the Written Exam Committee and Oral Exam Committee, RCPSC (Ophthalmology)
- Head, BCCH Department of Ophthalmology 1995 – present
- 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, 2001 – present
- Member, RCPSC Written Exam Committee Vancouver representative, 1996 – present
- Examiner, RCPSC Ophthalmology, 2000 – 2010
- Fellow, Royal College of Physicians and Surgeons of Canada
- Member, BC Society of Eye Physicians & Surgeons
- Fellow, Royal College of Ophthalmologists (UK)
- Fellow, Royal College of Surgeons (Glasgow)
- Member, Canadian Ophthalmological Society
- Member, Canadian Association of Pediatric Ophthalmology
- Member, American Association for Pediatric Ophthalmology and Strabismus

Reviewer (journal articles):

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

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Dr. Megan Rees

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- Member, Canadian Ophthalmological Society, 1987 - Present
- Member, Society of Specialist Physicians and Surgeons of BC, 1992 - Present
- Member, American Pediatric Ophthalmologic Society, 1995 - Present
- Member, Canadian Association of Pediatric Ophthalmologists, 1995 - Present
- Member, B.C. Society of Eye Physicians and Surgeons, 1994 - Present
- Member, The Federation of Medical Women of Canada, 1995 - Present
- Fellow, The Royal College of Physicians and Surgeons of Canada, 1991 - Present

- Fellow, Royal College of Physicians and Surgeons of British Columbia, 1991 - Present
- Member, The Canadian Medical Association, 1991 - Present
- Member, The British Columbia Medical Association, 1991 - Present
- Member, Canadian Orthoptic Council, 1993 - Present
- Honorary President of the Canadian Orthoptic Society (TCOS), 2001 - Present

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Dr. David Rossman

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

Orthopaedic Team



## FACULTY MEMBERS:

Dr. Christopher W. Reilly, Associate Professor, Department Head  
Dr. Richard D. Beauchamp, 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  
Mr. Alec Black, Clinical Instructor  
Dr. Heather Macdonald, Assistant Professor

## OTHER STAFF MEMBERS:

Jeane Zabukovec, Research Manager  
Clint Hazen, Research Assistant  
Michael Nitikman, Research Assistant  
Sameer Desai, Research Assistant  
Harpreet Chhina, Research Assistant  
Brenda Whitworth, Administrative Secretary  
Ram Johal, MOA to Dr. C. Reilly  
Judy Woodward, MOA to Dr. R. Beauchamp  
Jotie Marigen / Ivy Ho, MOA to Dr. K. Brown  
Marilynn Timbrell, MOA to Dr. C. Alvarez  
Jennifer Farr, MOA 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  
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

## Highlights and Achievements

### Dr. Firoz Miyanji

- 2011 St. Giles Young Investigator Award, pediatric Orthopaedic Society of North America (POSNA)

## Presentations

### Dr. Christopher Reilly

- Miyanji F, Dhawale A, Slobogean B, Reilly C. "Complications of posterior vertebral column resection in children with severe spinal deformity – a single center experience". Scoliosis Research Society Annual Meeting, Louisville, Kentucky, September 14-17, 2011.
- Miyanji F, Dhawale A, Slobogean B, Reilly C. "Poster presentation – Complications of posterior vertebral column resection in children with severe spinal deformity – a single center experience". Canadian Orthopaedic Association annual Meeting, St. John's, Newfoundland, July 2011.
- Miyanji F, Slobogean G, Samdani A, Betz R, Reilly C. "Poster presentation – Larger Curve Magnitude is associated with Increased Peri-operative Healthcare Resource Utilization: A Multi-center Analysis of 422 Adolescent Idiopathic Scoliosis Curve". Canadian Orthopaedic Association Annual Meeting, St. John's, Newfoundland, July 2011.

### Dr. Richard D. Beauchamp

- Mayson TA, Black AH, Ward V, Maurer J, Davies KR, Beauchamp RD, Alvarez C. "The Determinants of Crouch Gait in Children with Cerebral Palsy", American Academy of Cerebral Palsy and Developmental Medicine, Las Vegas, Nevada, October 12-15, 2011.





- Miyanji F, Dhawale A, Slobogean B, Reilly C. “Complications of posterior vertebral column resection in children with severe spinal deformity – a single center experience”. Scoliosis Research Society Annual Meeting, Louisville, Kentucky, September 14-17, 2011.
- Miyanji F, Dhawale A, Slobogean B, Reilly C. “Poster presentation – Complications of posterior vertebral column resection in children with severe spinal deformity – a single center experience”. Canadian Orthopaedic Association annual Meeting, St. John’s, Newfoundland, July 2011.
- Miyanji F, Slobogean G, Samdani A, Betz R, Reilly C. “Poster presentation – Larger Curve Magnitude is associated with Increased Peri-operative Healthcare Resource Utilization: A Multi-center Analysis of 422 Adolescent Idiopathic Scoliosis Curve”. Canadian Orthopaedic Association Annual Meeting, St. John’s, Newfoundland, July 2011.

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#### Dr. Richard D. Beauchamp

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- Mayson TA, Black AH, Ward V, Maurer J, Davies KR, Beauchamp RD, Alvarez C. “The Determinants of Crouch Gait in Children with Cerebral Palsy”, American Academy of Cerebral Palsy and Developmental Medicine, Las Vegas, Nevada, October 12-15, 2011.
- Mayson TA, Black AH, Ward V, Maurer J, Davies KR, Beauchamp RD, Alvarez C. “Retrospective Assignment of GMFCS”, American Academy of Cerebral Palsy and Developmental Medicine”, Las Vegas, Nevada, October 12-15, 2011.

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#### Dr. Christine Alvarez

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- Mayson TA, Black AH, Ward V, Maurer J, Davies KR, Beauchamp RD, Alvarez C. “The Determinants of Crouch Gait in Children with Cerebral Palsy”, American Academy of Cerebral Palsy and Developmental Medicine, Las Vegas, Nevada, October 12-15, 2011.
- Mayson TA, Black AH, Ward V, Maurer J, Davies KR, Beauchamp RD, Alvarez C. “Retrospective Assignment of GMFCS”, American Academy of Cerebral Palsy and Developmental Medicine”, Las Vegas, Nevada, October 12-15, 2011.

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#### Dr. Kishore Mulpuri

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- Mulpuri K. “Supracondylar Fractures”, Pediatric Orthopaedic Society of North America Annual Meeting – One-Day Course on Evidence Based Pediatric Orthopaedics Course, Montreal, Quebec, May 11, 2011.
- Saran N, Varghese R, Mulpuri K. “Operative intervention improves outcomes of Perthes Disease: A meta analysis”. Pediatric Orthopaedic Society of North America Annual Meeting, Montreal, Quebec, May 11-14, 2011.
- Varghese R, Dhawale A, Zavaglia B, Slobogean B, Mulpuri K. “Citation classics in pediatric orthopaedics”, Pediatric Orthopaedic Society of North America Annual Meeting, Montreal, Quebec, May 11-14, 2011.
- Varghese R, Rao A, Slobogean B, Mulpuri K. “Obstacles to full-text publication in a peer reviewed journal following presentation of abstracts at the Pediatric Orthopaedic society of North America Annual Meetings 2003-2005”, Pediatric Orthopaedic Society of North America Annual Meeting, Montreal, Quebec, May 11-14, 2011.
- Miyanji F, Mulpuri K, Shah S, Marks M, Samdani A, Shufflebarger H, Newton P. “Poster presentation – Baseline data variability in prospective multi-center databases: how comparable is the data between different centers?” IMAST, Copenhagen, Denmark, July 2011.
- Mulpuri K, Cashin M, Chambers H, Joseph B, Graham 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”, 65th Annual Meeting of the American Academy of CP and Developmental Medicine, Las Vegas, Nevada, October 12-15, 2011.

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#### Dr. Firoz Miyanji

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- Miyanji F, Samdani A, Marks M, Newton P. “Minimally invasive surgery for AIS: a prospective comparison with standard open posterior surgery”. Scoliosis Research Society Annual Meeting, Louisville, Kentucky, September 14-17, 2011.
- Miyanji F, Dhawale A, Slobogean B, Reilly C. “Complications of posterior vertebral column resection in children with severe spinal deformity – a single center experience”. Scoliosis Research Society Annual Meeting, Louisville, Kentucky, September 14-17, 2011.



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## Lectures

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### Dr. Christopher Reilly

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- “Thoracolumbar Spine Trauma”, “Cervical Fixation Challenges in Children”, and “The Role for Thoracoscopic Release in Pediatric Deformity”, 20th Annual G. Wilbur Westin Lectureship, Resident Academic Day, Los Angeles, California, April 15-16, 2011.
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### Dr. Richard Beauchamp

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- Maurer JD, Black AH, Alvarez CM, Ward V, Davies KR, Mayson TA, Beauchamp RD. 39th Annual Paediatric Orthopaedic Seminar & Townsend Lecture, “Can we classify Mid-foot break using a multi-segment foot model?” Alberta Children’s Hospital, October 21, 2011.
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### Dr. Christine Alvarez

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- Alvarez C. 39th Annual Paediatric Orthopaedic Seminar & Townsend Lecture, “Botulinum Toxin-A in setting of Idiopathic Clubfoot Management”. Alberta Children’s Hospital, October 21, 2011.
  - Chhina HK, Davis JC, Alvarez CM. “39th Annual Paediatric Orthopaedic Seminar & Townsend Lecture, “quality of Life in Hereditary Multiple Exostoses”. Alberta Children’s Hospital, October 21, 2011.
  - Maurer JD, Black AH, Alvarez CM, Ward V, Davies KR, Mayson TA, Beauchamp RD. 39th annual paediatric Orthopaedic Seminar & Townsend Lecture, “Can we classify Mid-foot break using a multi-segment foot model?” Alberta Children’s Hospital, October 21, 2011.
  - O’Brien C, Alvarez CM. “The influence of gender on the anatomic burden of Hereditary Multiple Exostoses”. CORA, St. John’s, Newfoundland, August 2011.
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### Dr. Kishore Mulpuri

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- Faculty, Pediatric Emergency Medicine Update, Vancouver, B.C., April 29-30, 2011.
  - Moderator, POSNA One-Day Course on Evidence-based Pediatric Orthopaedics, Montreal, Q.C., May 11, 2011.
  - Organizer, Pediatric Program, Canadian Orthopaedic Association Annual Meeting 2011, St. John’s, Newfoundland, July 7-9, 2011.
- 

- Chair, International Hip Dysplasia Institute Research meeting, Orlando, Florida, December 5-6, 2011.
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### Dr. Firoz Miyanji

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- Invited Speaker: “Evolving Trends in Scoliosis”, Grand Rounds, IWK Center, Halifax, Nova Scotia, November 2011.
  - Invited Lecturer: “MIS in Pediatric Deformity”, Canadian Orthopaedic Association Annual Meeting, St. John’s, Newfoundland, July 2011.
  - Invited Lecturer: “Evolution of spinal deformity surgery”, CAET Annual Meeting, Vancouver, British Columbia, June 2011.
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### Dr. Shafique Pirani

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- International Guest Speaker: “MR Evaluation of Changes in Tarsal Anlagen and Soft Tissues”, “The Pirani Clubfoot Severity Score”, “Pitfalls Using the Ponseti Method”, “The Uganda Sustainable Clubfoot Care Project”. Nordic Advanced Instructional Clubfoot Course/2nd Nordic Ponseti Clubfoot Course. St. Olvas Hospital, Trondheim, Norway, April 28-29, 2011.
  - Invited Speaker: “History of the Ponseti method”, “the Effects of Casting on Bones and Soft Tissues”, “Physician Demonstration of the Ponseti Casting Method”, “The Difficult Clubfoot”, “How to Recognize and Treat Relapses”. 21st Annual Baltimore Limb Deformity Pre-Course, and Ponset Clubfoot Course. Baltimore, Maryland, August 31, 2011.
  - Invited Speaker: “Ponseti Clubfoot Treatment by Orthopaedic Officers: Prospective Cohort Study in Uganda”, “The Uganda Sustainable Clubfoot Care Project”. 6th International Clubfoot Congress, XXV SICOT Triennial World Congress. Prague, Czech Republic, September 6-9, 2011.
  - Invited Speaker: “Pathoanatomy and functional anatomy of the Clubfoot”, “Assessing the Clubfoot – The Pirani Score”, “MRI of Clubfoot during Ponset Method”, “Workshop: technique, practice with model and instructors”, “Complicated form of clubfoot (arthrogripotic, combined, clubfoot in elder age children”, “The Uganda Sustainable clubfoot Care Project”. 1st Ukrainian Ponset Method Course. Odessa, Ukraine, September 15-16, 2011
  - Keynote Speaker: Clubfoot Management Using the Ponseti Method: A hands-on Course, Halifax, Nova Scotia, May 9, 2011  
1. “Etiology, Pathoanatomy of Clubfoot and Subtalar Joint Kinematics”
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2. "Outcomes: Short term outcomes, Long term outcomes, Ponseti Method vs. Surgery"
  3. "Monitoring Correction: Pirani classification, Dimeglio"
  4. "Post-Correction Orthoses"
  5. "Complex idiopathic (atypical) clubfoot and other difficult presentations"
  6. "Practical issues: running a clubfoot clinic"
- 
- Keynote Speaker: International Pediatric Foot Symposium, National Training Institute, Nasr City, Cairo, Egypt, October 13-14, 2011
    1. "MRI of Ponseti treated clubfeet and Pirani scoring"
    2. "Manipulation and casting technique"
    3. "Common management errors"
    4. "Difficult clubfoot"
    5. "Common Pediatric Foot Problems: ankle fractures in children"
    6. "Common Pediatric Foot Problems: Hallux valgus"
    7. "Common Pediatric Foot Problems: Vertical talus"
    8. "Common Pediatric Foot Problems: Tarsal coalition"
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## Formal Teaching

### Dr. Christopher Reilly

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- "Scoliosis in Muscular Dystrophy", UBC Grand Rounds, Department of Orthopaedics, VGH, April 13, 2011 – 1 hour.
  - "Breakout Session #3: Common Community Pediatric Injuries", UBC Orthopaedic Update/Research Day, Vancouver, BC, May 6, 2011 (Chair) – 1.25 hours.
- 
- "The Pediatric Orthopaedic Examination", Resident Teaching, BC Children's Hospital, May 20, 2011 – 1 hour.
- 
- "Bone & Soft Tissue Tumors", Resident Teaching, BC Children's Hospital, August 12, 2011 – 1 hour.
- 
- "Slipped Capital Epiphysis", Resident Teaching, BC Children's Hospital, September 30, 2011 – 1 hour.
- 
- "Distraction osteogenesis: Mechanical induction of new bone formation" (presented by Drs. Sinead Boran and Caroline Forsythe, Orthopaedic Fellows, BCCH OPSEI Rounds, November 1, 2011.
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- "Knee, Foot & Ankle", UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, November 4, 2011 – 3.5 hours.
- 
- "Bone Dysplasias", BCCH Department of Orthopaedics Education Day with Visiting Professor: Dr. William Mackenzie, BCCH, November 18, 2011.
- 
- "Congenital Scoliosis", Resident Teaching, BC Children's Hospital, January 20, 2012 – 1 hour.
- 

### Dr. Richard Beauchamp

- 
- "Session 6: What's New in My Subspecialty? Part 2 Evidence for Hip Surveillance in Children in Cerebral Palsy", UBC Orthopaedic Update/Research Day, Vancouver, BC – 1.25 hours.
- 
- "Idiopathic Scoliosis", Resident Teaching, BC Children's Hospital, July 26, 2011 – 1 hour.
- 
- "The Pediatric Orthopaedic Examination", Resident Teaching, BC Children's Hospital, September 13, 2011 – 1 hour.
- 
- "The Child with a Limb Deficiency", Resident Teaching, BC Children's Hospital, October 25, 2011 – 1 hour.
- 
- "Hip & Gait", UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, October 26, 2011 – 3.5 hours.
- 
- "Distraction osteogenesis: Mechanical induction of new bone formation" (presented by Drs. Sinead Boran and Caroline Forsythe, Orthopaedic Fellows, BCCH OPSEI Rounds, November 1, 2011.
- 
- "Knee, Foot & Ankle", UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, November 2, 2011 – 3.5 hours.
- 
- "Bone Dysplasias", BCCH Department of Orthopaedics Education Day with Visiting Professor: Dr. William Mackenzie, BCCH, November 18, 2011.
- 
- "The Pediatric Orthopaedic Examination", Resident Teaching, BC Children's Hospital, January 10, 2012 – 1 hour.
- 
- "Cerebral Palsy", Resident Teaching, BC Children's Hospital, February 21, 2012 – 1 hour.
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Dr. Kenneth Brown

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- “Interesting Upper & Lower Extremity Reconstruction Cases”, UBC Department of Orthopaedics Grand Rounds, VGH, April 6, 2011 – 1 hour.
- “Management of Fractures”, Resident Teaching, BC Children’s Hospital, April 21, 2011 – 1 hour.
- “Breakout Session #2: Oncology for the Community Surgeon” (Instructor), UBC Orthopaedic Update/Residents Day, Vancouver, BC, May 5, 2011 – 2 hours.
- “Limb Length Discrepancy”, Resident Teaching, BC Children’s Hospital, July 14, 2011 – 1 hour.
- “The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse”, Resident Teaching, BC Children’s Hospital, August 25, 2011 – 1 hour.
- “The Upper Limb”, Resident Teaching, BC Children’s Hospital, October 6, 2011 – 1 hour.
- “Shoulder, Elbow & Wrist”, UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, October 14, 2011 – 3.5 hours.
- “Distraction osteogenesis: Mechanical induction of new bone formation” (presented by Drs. Sinead Boran and Caroline Forsythe, Orthopaedic Fellows, BCCH OPSEI Rounds, November 1, 2011.
- “Bone & Soft Tissue Tumors”, Resident Teaching, BC Children’s Hospital, November 17, 2011 – 1 hour.
- “Bone Dysplasias”, BCCH Department of Orthopaedics Education Day with Visiting Professor: Dr. William Mackenzie, BCCH, November 18, 2011.
- “Slipped Capital Epiphysis”, Resident Teaching, BC Children’s Hospital, February 16, 2012 – 1 hour.
- “The Skeletal Dysplasias”, Resident Teaching, BC Children’s Hospital, March 22, 2012 – 1 hour.

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Dr. Christine Alvarez

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- “The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse”, Resident Teaching, BC Children’s Hospital, April 28, 2011 – 1 hour.

- “Breakout Session #3: Common Community Pediatric Injuries” (Instructor), UBC Orthopaedic Update/Research Day, Vancouver, BC, May 6, 2011 – 1.25 hours.
- “Child Health BC: Cerebral Palsy & Hip Surveillance Workshop”, May 26-27, 2011 – 2 days.
- “Management of Fractures”, Resident Teaching, BC Children’s Hospital, June 16, 2011 – 1 hour.
- “The Skeletal Dysplasias”, Resident Teaching, BC Children’s Hospital, August 2, 2011 – 1 hour.
- “The Lower Extremity”, Resident Teaching, BC Children’s Hospital, September 20, 2011 – 1 hour.
- “Distraction osteogenesis: Mechanical induction of new bone formation” (presented by Drs. Sinead Boran and Caroline Forsythe, Orthopaedic Fellows, BCCH OPSEI Rounds, November 1, 2011.
- “The Skeletal Dysplasias”, Resident Teaching, BC Children’s Hospital, November 15, 2011 – 1 hour.
- “Bone Dysplasias”, BCCH Department of Orthopaedics Education Day with Visiting Professor: Dr. William Mackenzie, BCCH, November 18, 2011.
- “The Upper Limb”, Resident Teaching, BC Children’s Hospital, January 31, 2012 – 1 hour.
- “The Lower Extremity”, Resident Teaching, BC Children’s Hospital, March 13, 2012 – 1 hour.

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Dr. Kishore Mulpuri

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- “The Skeletal Dysplasias”, Resident Teaching, BC Children’s Hospital, April 7, 2011 – 1 hour.
- “Management of the Hip in Cerebral Palsy: The Need for Hip Surveillance”. Department of Pediatric Grand Rounds, BC Children’s Hospital, April 29, 2011 – 1 hour.
- “Evaluating the Limping Child”, BCCH Pediatric Emergency Update, April 30, 2011 – 1 hour.

- 
- “Breakout Session #2: Evidence Based Orthopaedics - “Clinical Practice Guidelines in Orthopaedics and Evidence-based Medicine”, Department of Orthopaedics Update/Research Day, Vancouver, B.C., May 5, 2011 – 1.5 hours.
- 
- “Breakout Session #3: Common Community Pediatric Injuries” (Instructor), UBC Orthopaedic Update/Research Day, Vancouver, BC, May 6, 2011 – 1.25 hours.
- 
- “Child Health BC: Cerebral Palsy & Hip Surveillance Workshop”, May 26-27, 2011 – 2 days.
- 
- “The Upper Limb”, Resident Teaching, BC Children’s Hospital, June 2, 2011 – 1 hour.
- 
- “The Child with a Limb Deficiency”, Resident Teaching, BC Children’s Hospital, July 21, 2011 – 1 hour.
- 
- “Management of Fractures”, Resident Teaching, BC Children’s Hospital, September 8, 2011 – 1 hour.
- 
- “Hand & Systemic Examination”, UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, October 19, 2011 – 3.5 hours.
- 
- “Leg Length Discrepancies”, Resident Teaching, BC Children’s Hospital, October 20, 2011 – 1 hour.
- 
- “Behind the Stethoscope” Event (Guide & Presenter), BCCH Foundation, October 25, 2011 – 5 hours.
- 
- “Hip & Gait”, UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, October 28, 2011 – 3.5 hours.
- 
- “Distraction osteogenesis: Mechanical induction of new bone formation” (presented by Drs. Sinead Boran and Caroline Forsythe, Orthopaedic Fellows, BCCH OPSEI Rounds, November 1, 2011.
- 
- “Bone Dysplasias”, BCCH Department of Orthopaedics Education Day with Visiting Professor: Dr. William Mackenzie, BCCH, November 18, 2011.
- 
- “Management of Fractures”, Resident Teaching, BC Children’s Hospital, December 1, 2011 – 1 hour.
- 
- “Leg Length Discrepancies”, Resident Teaching, BC Children’s Hospital, January 27, 2012 – 1 hour.
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#### Dr. Firoz Miyanji

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- “Congenital Scoliosis”, Resident Teaching, BC Children’s Hospital, April 1, 2011 – 1 hour.
- 
- “Breakout Session 2: Emerging Evidence in My Sub-Specialty”, UBC Ortho Update/Residents Day, Vancouver, BC, May 5, 2011 - .5 hour.
- 
- “The Lower Extremity”, Resident Teaching, BC Children’s Hospital, June 9, 2011 – 1 hour.
- 
- “Congenital Scoliosis”, Resident Teaching, BC Children’s Hospital, August 23, 2011 – 1 hour.
- 
- “Lights, Camera, Surgery Video”, OPSEI Rounds, BCCH, October 4, 2011 – 1 hour.
- 
- “Spine & Segmental Dermatomes”, UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, October 5, 2011 – 3.5 hours.
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- “Spine & Segmental Dermatomes”, UBC INDE 420 Musculoskeletal Clinical Skills, Gordon & Leslie Diamond Health Care Centre, VGH, October 7, 2011 – 3.5 hours.
- 
- “Idiopathic Scoliosis”, Resident Teaching, BC Children’s Hospital, October 18, 2011 – 1 hour.
- 
- “Distraction osteogenesis: Mechanical induction of new bone formation” (presented by Drs. Sinead Boran and Caroline Forsythe, Orthopaedic Fellows, BCCH OPSEI Rounds, November 1, 2011.
- 
- “Bone Dysplasias”, BCCH Department of Orthopaedics Education Day with Visiting Professor: Dr. William Mackenzie, BCCH, November 18, 2011.
- 
- “The role of the Orthopaedic Surgeon in Diagnosing Child Abuse”, Resident Teaching, BC Children’s Hospital, November 24, 2011 – 1 hour.
- 
- “Idiopathic Scoliosis”, Resident Teaching, BC Children’s Hospital, February 9, 2012 – 1 hour.
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- “Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis”, Resident Teaching, BC Children’s Hospital, March 29, 2012 – 1 hour.
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Dr. Shafique Pirani

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- “Surgery & Anesthesia in Uganda”, 2nd Annual Conference, Paetzold Centre, VGH, April 2, 2011.
  - “Hands-on Course: Clubfoot Management using the Ponseti Method, Halifax NS, May 9, 2011 – 1 day.
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### Publications

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Dr. Christopher Reilly

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1. Varghese R, Chang J, Miyanji F, Reilly CW, Mulpuri K. “Publication of abstracts submitted to the annual meeting of the Pediatric Orthopaedic Society of North America: Is there a difference between accepted versus rejected abstracts?” *Journal of Pediatric Orthopaedics*, April/May 31(3):334-340, 2011.
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Dr. Richard Beauchamp

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2. Books - Monthly “Sports Injuries” Running Room Magazine, Publ. Edmonton, Alberta, 2000-Present.
- 

Dr. Christine Alvarez

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3. Chhina HK, Davis JC, Alvarez CM. “Health Related Qualify of Life in people with hereditary Multiple Exostoses”, *Journal of Pediatric Orthopaedics*, 2012;32(2):210-214.
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Dr. Kishore Mulpuri

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4. Davidson D, Mulpuri K, Mathias RG. “Skeptical Thinking Series: An introduction to skeptical thinking in the evaluation of claims”. *Journal of Pediatric Orthopaedics Part B*, 2011;20:191-193.
  5. Mulpuri K, Slobogean BL, Tredwell SJ. “The epidemiology of non-accidental trauma in children”. *Clinical Orthopaedics and Related Research*, 2011;469:756-767.
  6. Varghese R, Chang J, Miyanji F, Reilly CW, Mulpuri K. “Publication of abstracts submitted to the annual meeting of the Pediatric Orthopaedic Society of North America: Is there a difference between accepted versus rejected abstracts?” *Journal of Pediatric Orthopaedics*, April/May 31(3):334-340, 2011.
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7. Cashin MS, Kelley SP, Douziech JR, Varghese RA, Hamilton QP, Mulpuri K. “Levels of evidence in pediatric orthopaedic journals: Where are we now?” *Journal of Pediatric Orthopaedics*, 2011;31(6):721.
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8. Fisher CG, Vaccaro AR, Whang PG, Prasad SK, Angevine PD, Mulpuri K, Thomas KC, Patel AA. “Evidence-based recommendations for spine surgery”. *Spine*, 2011;36(14):E897-903.
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9. Howard A, Mulpuri K et al. “Guideline on the treatment of pediatric supracondylar humerus fractures”. *American Academy of Orthopaedic Surgeons*, November 16, 2011, February 14, 2012.
- 

10. Mulpuri K. “New pediatric supracondylar humerus fractures clinical practice guideline”. *American Academy of Orthopaedic Surgeons Nowl Nov* 2011;5(11). February 14 2012.
- 

11. Saran N, Varghese R, Mulpuri K. “Do Femoral or Salter Innominate Osteotomies Improve Femoral Head Sphercity in Legg-Calve-Perthes Disease? A Meta-analysis”, *Clin Orthop Relat Res*. March 31, 2012 [Epub ahead of print].
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12. Mulpuri K, Varghese V. “Book Chapter - Neuromuscular disorders: Obstetric brachial plexus palsy”. In S. Sivananthan, E. Sherry, P. Warnke, & M.D. Miller (Eds), *Mercer’s Textbook of Orthopaedics* (2012: p615-618). London: Edward Arnold (Publishers) Ltd.
- 

13. Mulpuri K, & Kelley S. “Book Chapter – Hip disorders in children: Developmental coax vara”. In S. Sivananthan, E. Sherry, P. Warnke, & M.D. Miller (Eds), *Mercer’s Textbook of Orthopaedics* (2012:p652). London: Edward Arnold (Publishers) Ltd.
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14. Mulpuri K, & Kelley, S. “Book Chapter – Knee disorders in children: Blount’s disease”. In S. sivananthan, E. Sherry, P. Warnke, & M.D. Miller (Eds), *Mercer’s Textbook of Orthopaedics* (2012:p670-671), London: Edward Arnold (Publishers) Ltd.
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Dr. Firoz Miyanji

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15. Hwang S, Samdani A, Lonner B, Miyanji F, Stanton P, Marks M, Bastron T, Newton P, Betz R, Cahill P. “Impact of direct vertebral body derotation on rib prominence: are preoperative factors predictive of changes in rib prominence?” *Spine*, Jan 37(2):E86-89, 2012.
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16. Samdani A, Hwang S, Miyanji F, Lonner B, Marks M, Sponseller P, Newton P, Cahill P, Shuffelbarger H, Betz R. "Direct vertebral body derotation or both: which is better with respect to inclinometer and SRS-22 scores?" *Spine* 2012 (accepted).
17. Varghese R, Chang J, Miyanji F, Reilly CW, Mulpuri K. "Publication of abstracts submitted to the annual meeting of the Pediatric Orthopaedic Society of North America: Is there a difference between accepted versus rejected abstracts?" *Journal of Pediatric Orthopaedics*, April/May 31(3):334-340, 2011.
18. Takahashi J, Newton PO, Ugrinow VL, Bastrom TP, Harms Study Group. "Selective thoracic fusion in adolescent idiopathic scoliosis: Factors influencing the selection of the optimal lowest instrumented vertebra". *Spine* February 18, 2011 [Epub ahead of print].
19. Clements DH, Marks M, Newton P, Betz RR, Lenke L, Shuffelbarger H, Harms Study Group. "Did the Lenke Classification change scoliosis treatment?" *Spine* February 24, 2011 [Epub ahead of print].
20. Book Chapter – Miyanji F. "The Pediatric Cervical Spine: Back Pain in Children and Adolescents; Operative treatment of Spondylolysis and Spondylolisthesis" *Orthopaedic Knowledge Update 4: Pediatrics*. American Academy of Orthopaedic Surgeons, May 2011.

Dr. Heather Macdonald

21. Macdonald HM, Nishiyama KK, Hanley DA, Boyd SK. "Changes in trabecular and cortical bone microarchitecture associated with 18-months of teriparatide therapy in postmenopausal women with osteoporosis". *Osteoporosis International* 2011;22:357-62. FA (IF:4.997).
22. \*Macdonald HM, Nishiyama KK, Kang J, Hanley DA, Boyd SK. "Age-related patterns of trabecular and cortical bone loss differ between sexes and skeletal sites: A population-based HR-pQCT study". *Journal of Bone and Mineral Research* 2011;22:357-62. FA (IF:7.056).
23. Schackenburg KE, Macdonald HM, Ferber R, Wiley JP, Boyd SK. "Bone quality and muscle strength in female athletes with lower limb stress fractures". *Medicine and Science in Sports and Exercise* 2011;43:2110-19. CA (IF: 4.106).

24. 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." *Journal of Bone and Mineral Research* 2012; 27:273-282. ca (if: 7.056).
25. Macdonald HM, Tan VPS. "Physical activity and children's bone health: A little goes a long way." *Exercise and Sport Sciences Reviews* 2012; 40:2-3. FA (Invited contribution) FA (IF: 3.825).
26. 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; doi: 10.1016/j.bone.2012.03.003.

#### Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Pediatric Orthopaedic Research Support	CW Reilly		BCCH Foundation Circle of Care (NC)	\$10,000
Pediatric Orthopaedic Research Support	K. Mulpuri		BCCH Foundation Circle of Care (NC)	\$10,000
Pediatric Orthopaedic Research Support	R. Beauchamp		BCCH Foundation Circle of Care (NC)	\$10,000
A clinical prediction model for growth arrest in paediatric physeal fractures	K. Mulpuri	S. Miller	POSNA Clinical Trial Planning Grant (educ) (COMP) 2011	\$15,000

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	S.K. Boyd, M. Burrows, L.C. Li, H.M. Macdonald, K. Khan, K. Mulpuri, P-J. Naylor, R.E. Rhodes	Canadian Institutes of Health Research (2009-2013)	\$595,133
Health related quality of life in children with cerebral palsy undergoing surgery for dislocated hips	K. Mulpuri	S. Miller	UBC Department of Orthopaedics Research Excellence Fund (OREF) (COMP) 2011	\$22,389
A clinical prediction model for growth arrest in paediatric physeal fractures	K. Mulpuri	C.W. Reilly, F. Miyanji	UBC Department of Orthopaedics Research Excellence Fund (OREF) (COMP) 2011	\$35,000
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, D.L. Fehlings, S. Klejman, J.H. Wedge, A.R. Willan, K.F. Zabjek, K. Mulpuri	Canadian Institutes of Health and Research (CIHR), (COMP) 2009-2013	\$314,633

Establishing the correlation HRQOL-Genotype-Phenotype in individuals with hereditary Multiple Exostoses	C. Alvarez		UBC Department of Orthopaedics Research Excellence Fund (OREF) (COMP) 2011	\$15,000
Development of HME Orthopaedic Severity Score	C. Alvarez		UBC Department of Orthopaedics Research Excellence Fund (OREF) (COMP) 2012	\$28,000
Diffusion MRI as a predictor of physeal injury prognosis	F. Miyanji		(POSNA) St. Giles Young Investigator Award (COMP) 2011	\$10,000
Midfoot Break: A Clinical Description and a New Perspective	A. Black	R. Beauchamp, C. Alvarez, J. Maurer, V. Ward, T. Mayson, K. Davies	BCCH Telethon, (COMP), 2011-2012	\$24,900
Midfoot Break: A Clinical Description and a New Perspective	R. Beauchamp	A. Black, C. Alvarez, J. Maurer, V. Ward, T. Mayson, K. Davies	iAct (COMP) 2011-2012	\$8,100



The Determinants of Crouch Gait in Children with Cerebral Palsy	T. Mayson	R. Beauchamp, A. Black, J. Maurer, V. Ward	BCCH Telethon, (COMP) 2011-2012	\$13,873.58
How Do We Walk? Interactive Learning Module for Children with Neuromuscular Disorders	A. Black	R. Beauchamp, C. Alvarez, J. Bizzochi, J. Goodnough, D. Sanderson, V. Ward, T. Mayson, K. Davies	UBC Teaching and Learning Enhancement Fund (COMP) 2011-12	\$41,053
Rotational Profiles: Correlation between computed tomography and 3D gait measures	A. Black	K. Mulpuri, R. Beauchamp, R. Cairns	UBC Orthopaedic Research Excellence Fund (OREF), (COMP) 2012	\$27,975
Update of pressure measurement system for clinical use	A. Black		BCCH-Sunny Hill Foundation (NON-COMP) 2012	\$186,000

### Fellows Supervised

- Dr. Jonathan Lescheid (Canada), 1-year Clinical Fellow (completed June 30, 2011)
- Dr. Ali Chaudhary (Saudi Arabia), 1-year Clinical Fellow (self) (completed July 31, 2011)
- Dr. Ashok Acharya, 1-year Clinical Fellow, 6-month Clinical Fellow (completed July 31, 2011)
- Dr. Sinead Boran, 1-year Clinical Fellow (July 1, 2011-June 30, 2012)
- Dr. Sumit Gupta, 1-year Clinical Fellow (August 1, 2011-July 31, 2012)
- Dr. Caroline Forsythe, 1-year Clinical Fellow (August 1, 2011-July 31, 2012)
- Dr. Michael Selby, 1-year Clinical Fellow (January 1, 2012-June 30, 2012)

### 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
- 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

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### Students

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- 3rd Year Medical Students – 3
- 4th Year Medical Students – 15
- BCIT Prosthetic & Orthotic Students (September 27 – November 29, 2011) – 12
- Research Medical Students –

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### Committee Participation

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#### Dr. Christopher Reilly

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- 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, University of British Columbia 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

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#### Dr. Richard D. Beauchamp

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- 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

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#### Dr. Kenneth Brown

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- 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

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#### Dr. Christine Alvarez

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- 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

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#### Dr. Kishore Mulpuri

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- 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
- Paediatric Orthopaedics Sub-Specialty, Canadian Orthopaedic Association, Program Committee and 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
- 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 Orthopaedic Association, Member
- British Columbia Medical Association, Member
- Canadian Medical Association, Member
- Pediatric Orthopaedic 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

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#### Dr. Firoz Miyanji

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- British Columbia Medical Association, Member
- Canadian Orthopaedic Association, Member
- Pediatric Orthopaedic Society of North America, Canadian 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

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#### Dr. Shafique Pirani

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- 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

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#### Mr. Alec Black

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- Gait and clinical Motion Analysis Society, Member

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#### Dr. Heather Macdonald

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- 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-June 2012
- Child and Family Research Institute Research Awards Committee, Member, January 2012-Present
- Medicine and Science in Sports and Exercise, Reviewer, 2007-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

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#### Projects and Initiatives in Progress

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#### Dr. Christopher Reilly

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Work In Progress: Completed Projects with Manuscripts in Progress

- Reilly CW, Mulpuri K, Choit RL. Trans-Physeal Anterior Cruciate Ligament Reconstruction in Skeletally Immature Patients.

Work In Progress – Projects 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.
- Mulpuri K, Jain R, Dyke L, Varghese R, Miyaji 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, Miyaji F, Reilly CW. "A clinical prediction model for growth arrest in pediatric physal fractures". Recruitment in progress.
- Miyaji 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.
- Miyaji 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.
- Miyaji 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 Beauchamp

- Book Chapter – "Gait" (in process)
- Research: Long term F/U ITW; Mid-foot Break; Hemiplegic Gait

Dr. Christine Alvarez

Work in Progress  
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)

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

## Work Submitted:

- Mulpuri K, Wilkins K. "The treatment of displaced supracondylar humerus fractures: Evidence-based guideline", Journal of Pediatric Orthopaedics. Submitted November 10, 2011.

## Work in Progress: Projects in Progress

- 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.
- 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.

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Dr. Firoz Miyanji

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Work submitted:

- 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.

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Work in Progress:

- 1. 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 physal 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.

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Dr. Shafique Pirani

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- A reliable and valid method of evaluating amount of deformity in the congenital clubfoot (90% complete).

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Mr Alec Black

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- Maturation of Gait in children following rotationplasty, 2002-Present
- Implementation of multi-segmented foot model using Visual 3D
- Quantification Mid-foot break in children with Cerebral Palsy

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Dr. Heather Macdonald

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- Mulpuri K, Zabukovec J, Miyanji F, Reilly C, Macdonald HM, Hoy C, Race D, McKay HA. A comparison of bone geometry and microstructure between the dominant and non-dominant radius of children. Accepted for podium presentation at the 2012 Canadian Orthopaedic Association Annual Meeting.
- Nishiyama KK, Macdonald HM, Hanley DA, Boyd SK, Hr-pQCT measured bone microarchitecture and estimated bone strength can classify post-menopausal women with and without previous forearm fractures. Accepted for podium presentation at the 2012 Canadian Orthopaedic Association Annual Meeting.
- Schipilow J, Liphardt AM, Kan M, Buie H, Macdonald H, Boyd S. Bone microarchitecture, estimated bone strength, and muscle strength in elite female athletes: a HR-pQCT study. Submitted to the European Congress on Sports Medicine, February 13, 2012.

- Macdonald HM, Moore SA, Hoy C, McKay HA. Bone acquisition in adolescence (Chapter 31). In Marcus R, Feldman R, Dempster R, Cauley J, Luckey M. Osteoporosis, Fourth Edition. Submission date: February 15, 2012.
- Hoy C, Macdonald HM, 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. Clinical Orthopaedics and Related Research. Submission date: March 1, 2012.
- Voss C, Wharf Higgins J, Naylor PJ, Sandercock G, Gibbons S, Rhodes R, Macdonald H, Sulz L, Tan V, McKay H. Differences in health-related fitness and physical activity between Canadian and English 15-year olds. Submitted to the International Conference on Physical Activity and Public Health. Submission date: March 26, 2012.
- Voss C., Wharf Higgins J, Naylor PJ, Race D, Gibbons S, Rhodes R, Macdonald H, Sulz L, McKay H. Is the bus an overlooked source of active transport to school in Canadian youth? Submitted to the International Conference on Physical Activity and Public Health. Submission date: March 26, 2012.
- Gabel L, McKay H, Nettlefold L, Race D, Macdonald H. Sedentary behaviour negatively predicts bone microstructure in adolescent girls. Submitted to the North American Society for Pediatric Exercise Medicine Annual Meeting. Submission date: March 29, 2012.
- Gabel L, McKay H, Nettlefold L, Race D, Macdonald H. Lean body mass mediates associations between physical activity, sedentary behaviour and bone microstructure in post-menarcheal girls. Submitted to the American Society of Bone and Mineral Research Annual Meeting. Submission date: March 28, 2012.

#### Work in progress

- Tan VPS, 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: May 1, 2012.

## DIVISION OF PEDIATRIC OTOLARYNGOLOGY



*We use the latest guidelines for medical treatment and the most advanced techniques for surgical treatment.*



#### FACULTY MEMBERS:

Dr. Frederick K. Kozak, Division Head  
 Dr. Jeffrey P. Ludemann  
 Dr. J. Paul Moxham  
 Dr. Neil K. Chadha

#### STAFF MEMBERS:

Ms. Patsy Regan, Pediatric Otolaryngology Clinical Nurse  
 Ms. Michelle Freeman, MOA to Dr. Kozak  
 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 Dar Santos, Research Co-ordinator for Drs. Chadha & Kozak

#### Highlights and Achievements

##### Dr. Neil Chadha

- Awarded iACT Research Capacity Enhancement Grant
- Summer student selected for both the University of British Columbia Summer Student Research Program Grant and Child and Family Research Institute Student Research Grant, the UBC SSRP grant was accepted.
- Festschrift honored Dr. Cotton on November 4-6, 2011.

The Office of Pediatric Surgical Evaluation and Innovation



## Presentations

### Dr. Neil Chadha

- “Bilateral bone anchored hearing aids in children.” European Society of Pediatric Otolaryngology Annual Meeting, Amsterdam, Netherlands. May 2012.
- “Pediatric voice disorders.” British Columbia Otolaryngology Society Annual Meeting, Vancouver, British Columbia. April 2011.
- “Mechanical dilatation for laryngotracheal stenosis.” American Society of Pediatric Otolaryngology, San Diego, USA. April 2012.
- “A new staging system for orbital infections from acute rhinosinusitis.” Robin T. Cotton Festschrift, Boston, USA. November 2011.
- “Laryngomalacia and reflux: a systematic review and meta-analysis.” American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting. San Francisco, USA. September 2011.
- “Risk factors for sudden sensorineural hearing loss.” Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Victoria, British Columbia. May 2011.
- “Randomized controlled trial to assess mental preparation before resident mastoidectomy.” Canadian Society of Otolaryngology-Head and Neck Surgery Annual Meeting, Victoria, British Columbia. May 2011.
- “An live animal training model for laryngotracheal reconstruction.” American Society for Pediatric Otolaryngology Annual Meeting, Chicago, USA. May 2011.
- “Kurz titanium ossiculoplasty in pediatric ossicular reconstruction.” Triological Society Annual Meeting at COSM. Chicago, USA. April 2011.
- “Classifications of tympanic membrane retraction do not correlate with hearing loss.” Triological Society Annual Meeting at COSM, Chicago, USA. April 2011.
- “Bone anchored hearing systems.” BC Early Hearing Program Annual Meeting, Vancouver, British Columbia. April 2011.

### Dr. Frederick Kozak

- “Ototoxicity as a predictor of outcome in patients with osteosarcoma treated with cisplatin.” OPSEI Academic Rounds, Vancouver, British Columbia. April 4, 2011.

- “Acute otitis externa: Diagnosis and treatment.” PeerView in Review. April 12, 2011. On line Video Presentation [www.peerviewpress.com/r190](http://www.peerviewpress.com/r190)
- “Can the degree of hearing loss following cisplatin treatment for osteosarcoma predict outcome?” ASPO, Chicago, USA. April 2011.
- “The otorhinolaryngologic manifestations of the tourette syndrome. 1st Congress of CEORL-HNS”. Barcelona, Spain. July 2-6, 2011.
- “Atraumatic Insertion of Cochlear Impants.” 1st Congress of CEORL-HNS. Barcelona, Spain. July 2-6, 2011.
- “Management Strategy for Canal Stenosis.” 1st Congress of CEORL-HNS. Barcelona, Spain. July 2-6, 2011.
- “Management of the retracted tympanic membrane.” Current Techniques in Temporal Bone and Middle Ear Surgery. September 8-9, 2011.
- “Management of complications of otitis media.” Current Techniques in Temporal Bone and Middle Ear Surgery. September 8-9, 2011.
- “Endoscopic drainage of orbital cellulitis and sub-periosteal abscess.” OPSEI Academic Rounds, Vancouver, British Columbia. October 4, 2011.
- “Pediatric Vertigo/Dizziness” . Otolaryngology Grand rounds, Vancouver, BC February 15, 2012.

### Dr. Jeffrey Ludemann

- Nashon, S.; Adler, D.; Ludemann, J. & Scott, S. (2011). Students’ understanding and interpreting of choking in children by grade fives. Presented at the 2011 CSSE Annual Conference, Fredrickton, New Brunswick, Canada, May 2011.
- Nashon SM, Adler D, Ludemann JP, Scott S. IC Web Based Education: Investigating Students’ Understanding and Interpretation of Choking in Children - Lessons Beyond Cultural Borders. presented by Dr. Samson Nashon in Mombaza, Kenya at: IIGWE2011 (ICT and Informatics in a Globalized World of Education), August 2011

## Formal Teaching

### Dr. Frederick K. Kozak & Dr. Neil Chadha

- UBC Division of Otolaryngology Pediatric Otolaryngology Lecture Series: Auditory Neuropathy Spectrum Disorder.
- Temporal bone course (Dr. Chadha)

- INDE 410 First Year UBC Medical School Teaching April 5 and 7, 2011.

Dr. Jeffrey Ludemann

- UBC Division of Otolaryngology Pediatric Otolaryngology Lecture Series. October 14, 2011: a. Chevalier Jackson & CanMEDs roles; b. Foreign Bodies; c. Neonatal and Pediatric Airway
- UBC Oral Surgical Exams for Third Year (Phase IV) Clerks, Dec 22, 2011
- Ear Disorders, 3rd year clerkship seminar, May 3, 2011

### Publications

1. Lin RJ, Krall R, Westerberg BD, Chadha NK, Chau JK. Systematic review and meta-analysis of the risk factors for sudden sensorineural hearing loss in adults. *Laryngoscope*. 2012 Mar;122(3):624-35.
2. Wong AW, Allegro J, Tirado Y, Chadha N, Campisi P. Objective measurement of motor speech characteristics in the healthy pediatric population. *Int J Pediatr Otorhinolaryngol*. 2011 Dec;75(12):1604-11.
3. Chadha NK, Papsin BC, Jiwani S, Gordon KA. Speech detection in noise and spatial unmasking in children with simultaneous versus sequential bilateral cochlear implants. *Otol Neurotol*. 2011 Sep;32(7):1057-64.
4. Tirado Y, Chadha NK, Allegro J, Forte V, Campisi P. Quality of life and voice outcomes after thyroid ala graft laryngotracheal reconstruction in young children. *Otolaryngol Head Neck Surg*. 2011 May;144(5):770-7.
5. Carpes LF, Kozak FK, Leblanc JG, Campbell AI, Human DG, Fandino M, Ludemann JP, Moxham JP, Fiori H. Assessment of vocal fold mobility before and after cardiothoracic surgery in children. *Arch Otolaryngol Head Neck Surg*. 2011 Jun;137(6):571-5.
6. Allan LL, Stax AM, Zheng DJ, Chung BK, Kozak FK, Tan R, van den Elzen P. CD1d and CD1c expression in human B cells is regulated by activation and retinoic acid receptor signaling. *J Immunol*. 2011 May 1;186(9):5261-72.
7. BD Westerberg, J Chau FK Kozak. Sensorineural Hearing Development in Infectious Disease: Congenital and Pediatric Infections Handbook of Growth and Growth Monitoring in Health and Disease. VR Preedy (ed.) Chapter 84. 1395-1415, December 2011.
8. Tan NWH, Turvey S, Bryne AT, Ludemann JP, Kollmann TR. Staphylococcus aureus nasal septal abscess complicated by extradural abscess in an infant. *J Otolaryngol Head Neck Surg*. 2012 Feb;41(1):e7-12.

9. McInnes CW, Benson AD, Verchere CG, Ludemann JP, Arneja JS. Management of Congenital Midline Cervical Cleft. *J Craniofac Surg*. 23(1), e36-38. Jan 2012.

### Residents Supervised

Dr. Frederick K. Kozak

### National and International Otolaryngology Resident Electives

- Dr. Jeffrey Yu, Year 4 University of Alberta, December 19-23, 2011
- Dr. Harry Powell, Year 5 Registrar, London England, March 19-30, 2012

### Otolaryngology Head and Neck Surgery

- A. Remillard; T. Hartl; R. Mondin; R. Rahmanian; E. Akbari; K. Cheung; A. Thamboo; V. Wan Fook Cheung; J. Lin; A. Dadgostar; A. Sharma; P. Pace-Asciak

### Other Specialties

#### R1

- Anya Vanali – VGH & Jayde Wiedemann - UBC

#### R2

- Nureen Pirbhai – UBC; Demitri Perez – UQ; Andrea Szewchuk – UBC Family; Quoc Nguyen – UBC Dental

2011 Summer Student Lights, Camera, Surgery Program: Video Productions:

### Surgical Treatment of Recurrent Cholesteatoma

Students:

- Evan Shao (UBC Med 2014)
- Joanne Bleackley (UBC Med 2014)
- Katherine Shoultz (UBC Med 2014)

Mentors:

- Dr. Frederick Kozak & Dr. Sanjiv Kumar Bhimrao

### Sub-periosteal Abscess

Students:

- Evan Shao (UBC Med 2014); Joanne Bleackley (UBC Med 2014); Katherine Shoultz (UBC Med 2014)

Mentors:

- Dr. Neil Chadha & Dr. Frederick Kozak

Tonsillectomy

## Students:

- Kristin DeGirolamo (UBC Med 2013); Steven Rathgeber (UBC Med 2013); Jennifer Yam (UBC Med 2013)

## Mentors:

- Dr. Neil Chadha, Dr. Frederick Kozak, Dr. Jeff Ludemann, Dr. Paul Moxham

Bilateral Myringotomy and Tympanostomy Tube Insertion

## Students:

- Will Hall & Rachel Kim (UBC Med 2014)

## Mentors:

- Dr. Neil Chadha & Dr. Frederick Kozak

Medical Students Supervised

Dr. Frederick K. Kozak

**3rd Year**

- Stephanie Wise UBC, Alex Sun UBC, Sarah Mark UBC, Peter Rose UBC, Rajinder Chandra UBC, Christine Henderson UBC, Mohammadali, Khorasani UBC, Sepehr Khorsami UBC, Sabrina Yao UBC, Alex Sun UBC, Sarah Mark UBC, Colleen Sweeney UBC, Mark Robinson UBC, Jennifer Tam UBC, Che (Carrie) Liu University of Calgary, Michael Ross UBC, Leslie Leung UBC, Teresa Liang UBC, Kathleen Newmach UBC, Jonathan Chi UBC, Thomas Hung UBC, Allison Lee UBC, Andy Chen UBC, Steven Rathgeber UBC, Dean Velko UBC, Blair Fulton UBC, Jesse Bittman UBC, Ryan Truant UBC, Sarah Foster UBC, Clark funnel UBC, Jianna He UBC, Alvin Cheung UBC, Dimas Yusuf UBC, Anne Nguyen UBC, Amy Passmore UBC, Ian Anderson UBC, Christine Sorial UBC, Charmaine Wong UBC

**4th Year**

- Mary Rendell UBC, Julia Panczuk UBC, Deepak Manhas UBC, Kelley Zwicker UBC, Jon Lubin UBC, Natalee Wietz-Bessette UBC, Amir Teschekker UBC, Jonathan Bastim UBC, Kimberly Luu University of Western, Brent Chang UBC, Jonathan Bastin UBC, Daverishi Pahwa U of S, Jacalynne Hernandez-Lee UBC, Stephanie Wise UBC, Jeffrey Yu University of Alberta, Kelly Luu UBC, Becky Chen UBC, Sharon Yong UBC, Medical Students, Sarah Hoof University of Glasgow

Dr. Jeffrey Ludemann

- May 2011-Aug 2011, I supervised two undergrad students, Tin Jasinovich and Ashley-Rose Caufin, as research assistants

Research Students

Dr. Frederick Kozak

- Melanie McBoyle: June - August 2011 (Autism and Peripheral Hearing Loss)
- Demitrie Pereira (1st Year Medical Student Brisbane, Australia): October 24 to December 31, 2011 (Choanal Atesia in BC)

Pediatric Otolaryngology Fellows

Dr. Frederick Kozak

- Dr. Sanjiv Kumar Bhimrao: July 1-December 31, 2011
- Dr. Sarin Wongprasartsuk: January 1 – March 31, 2012
- Dr. Titus Ibekwe September – December 2011

Pediatric Otolaryngology Fellows

Drs. Frederick Kozak, Jeffrey Ludemann, Paul Moxham, Neil Chadha

- Dr. Jane Lea: January –March 2012

Masters Students Co-Supervised

Dr. Frederick Kozak

Dr. Sahar Atashband

MHSc Program 2010-2011

School of Population and Public Health, University of British Columbia

**Major Paper:** Guidelines for the management of epistaxis in children under 14 years; Information for primary care physicians with focus on office based treatment

Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Research Capacity Enhancement Grant	N.K. Chadha		iACT	\$20,000

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## Committee Participation

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### Dr. Neil Chadha

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- Member, UBC Otolaryngology Research Committee, Division of Otolaryngology
  - Member, Clinical Informatics Advisory Committee, BCCH
  - Member, Cidofovir International Clinical Guideline Development Task-Force
  - Member, International Task-Force for Recurrent Respiratory Papillomatosis
  - Scientific Committee Judge, COSHNS 2012
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### Dr. Frederick Kozak

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- Department of Pediatric Surgery Surgical Cabinet, BCCH
  - Chair, Division of Pediatric Otolaryngology Fellowship Committee
  - Surgical Services Advisory Committee, BCCH
  - Medical Staff Association Nominating Committee, BCCH
  - Medical Staff Association Site Redevelopment Working Party, BCC H
  - Selection Committee for UBC Division of Otolaryngology Chair
  - Executive Committee, UBC Otolaryngology
  - National Council Member, Canadian Society of Otolaryngology Head and Neck Surgery
  - Scientific Chair, Canadian Society of Otolaryngology Head and Neck Surgery Annual Meeting
  - Board Member, Inter American Association of Pediatric Otolaryngology, Canadian Representative
  - Co-Chair, Medical Advisory Group, B.C. Early Hearing Program
  - Conference Planning Committee, Pediatric Sensorineural Hearing Loss in BC: The Development of a Provincial Standard of Care, Child Health B.C.
  - Clinical Services Contract Negotiating Committee
  - Scientific Program Chair CSO
  - Selection Committee, UBC Division of Otolaryngology Chair
  - Scientific Committee Judge, COSHNS 2012
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### Dr. Jeffrey Ludemann

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- BCCH Parent Advisory
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### Dr. Paul Moxham

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- Executive Committee, UBC Otolaryngology
  - Selection Committee, UBC Division of Otolaryngology Chair
  - Laser Safety Committee, BCC H
  - Postgraduate Otolaryngology Education (RPC) Committee, UBC
  - Full Faculty Residency Education Committee, UBC
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## Initiatives in Progress

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### Dr. Frederick Kozak

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- Cochlear implants for children with disabilities: Parent perspectives & satisfaction
  - Role of perinatal asphyxia/hypoxia in sensorineural hearing loss in Autism and Audiology: A systematic review
  - Rhinological manifestations of women's health
  - Incomplete partition 3 and cochlear implantation
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### Dr. Paul Moxham

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- Audit of tonsillectomy pain management and outcomes
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### Dr. Jeffrey Ludemann

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- Educating children about choking Hazards (website phases II and III, with UBC Department of Education)
  - An App for pediatric tracheostomy care: Development of an iPhone/iPad teaching tool
  - Bronchial casts review
  - First branchial anomalies review
  - Impact of Cutting for Stone bookclubs on incoming UBC Medical Students
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## Journals Reviewed

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### Dr. Neil Chadha

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- Laryngoscope
  - Clinical Otolaryngology
  - Archives in Otolaryngology - Head and Neck Surgery
  - International Journal of Pediatric Otolaryngology
  - British Medical Journal
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## Dr. Frederick Kozak

- Archives of Otolaryngology.
- International Journal of Otorhinolaryngology.
- Rural and Remote Health.
- Otolaryngology Head and Neck Surgery (United States)
- BMC Ear, Nose and Throat Disorders
- Journal of Otolaryngology Head and Neck Surgery (Canadian)

## Dr. Paul Moxham

- Laryngoscope
- Journal of Otolaryngology-Head & Neck Surgery (Canadian)
- International Journal of Pediatric Otolaryngology

## Other Noteworthy Endeavors 2011-2012

### Dr. Neil Chadha

- British Columbia Pediatric Voice Clinic (Lead Clinician)
- BCCH Multi-disciplinary Pediatric Obstructive Sleep Apnea Clinic (Lead Clinician)
- Dr. Frederick Kozak
- UBC Medical School Undergraduate Student Mentor
- Medical/Surgical Director, Cochlear Implant Program BCCH
  1. St Paul's Hospital: 2011CME Hot Topics in ENT Director
  2. Current Techniques in Temporal Bone & Middle Ear surgery Course Co- Director September 8-9, 2011

### Dr. Jeffrey Ludemann

- Organization of UBC Otolaryngology Residents Pediatric Lecture Series, Fall 2011

### Dr. Paul Moxham

- UBC Otolaryngology Residency Program Director



## 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. Lee Heng, Office Assistant  
 Ms. Kamille Sandhu, Office Assistant

## Highlights and Achievements

The Division of Plastic Surgery has had a busy and productive year again. We especially enjoyed having our clinical fellow, Robin Evans with us for a year and Marija Bucevska, who joined our division as a research coordinator in the summer of 2011.

We were active in research this year, with several ongoing studies in different phase of completion. Some of this year's achievements include:

- Too Hot for Tots: Evaluation of a Pediatric Burns Prevention Resource. The study was successfully completed demonstrating that Too Hot for Tots! resources improved parental and caregiver knowledge, attitudes and practices concerning burns prevention for young children. The study enabled the launch of the Too Hot for Tots! (THFT) burn prevention campaign in March 2012.
- SUP-ER splinting: Does the use of a splint that encourages supination and external rotation in children with congenital brachial plexus injury have benefit? This study retrospectively reviewed and proved there is clinical and statistical benefit of splinting. It laid the grounds for a multicenter prospective study, which is in preparation.
- Preferred site of central venous access device port implantation in the pediatric population: Upper vs. lower chest. The study is ongoing having more than half of the projected enrollment completed.
- Predictors of early readmission and death in pediatric patients following discharge from hospital. This study aims to determine risk factors for readmission and death within 30 days of discharge from BCCH. It was funded through the 2011 UBC SSRP.
- Normative measurement of mouth opening in a Canadian pediatric population is an ongoing study that received the iAct grant in 2011.
- Surgical outcomes of patients with incomplete cleft lip and incomplete cleft palate. The study investigates whether the outcomes of this rare group are similar to the patients with isolated cleft palate or to the patients with cleft lip and palate.
- Quantitative and qualitative outcomes of operating room allocation methodology (ORAM): The study showed that ORAM does reallocate OR time to best manage elective surgical waitlists based on priority.
- Leadership trends in Canadian academic surgery. This research aims to describe the demographics, training, work profile, background and career trajectory of leaders within Canadian academic surgery.
- Pediatric flexor tendon injuries: A 10 year analysis at British Columbia's Children's Hospital. This study was funded through the 2011 CFRI SSRP.

## Presentations

- 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. International Confederation for Plastic, Reconstructive and Aesthetic Surgery, Vancouver, British Columbia. May 2011.
- Hynes SL, Narasimhan K, Arneja J. Complicated Hemangiomas of the Lip: Outcomes of Early vs. Late Surgical Excision. International Confederation for Plastic, Reconstructive and Aesthetic Surgery, Vancouver, British Columbia. May 2011.
- 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 5-year Period from Three North American Plastic Surgery Meetings. International Confederation for Plastic, Reconstructive and Aesthetic Surgery, Vancouver, British Columbia. May 2011.
- Courtemanche DJ. Primary reconstruction of the cleft nostril sill. IPRA S, Vancouver, British Columbia. May 23, 2011.
- Courtemanche DJ, Doesberg M. The logistics of managing a vascular anomalies clinic. IPRA S, Vancouver, British Columbia. May 25, 2011.
- Arneja JS, Goto J, Chen S, Masterson J, Ryckman F. What is the Optimal Method of Allocating Operating Room Time? National Association of Children's Hospitals (NACHRI) Annual Meeting, Bellevue, WA. October 2011.
- Lai MA, Sikora, S, Arneja J. Pediatric Flexor Tendon Injuries: A 10 Year Analysis at BC Children's Hospital. Western Regional Meeting, Carmel, USA. January 2012.
- 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. Western Regional Meeting, Carmel, CA. January 2012.
- Arneja JS, Mitton, C. Ambulatory Cleft Lip Surgery: A Value Analysis and Applications to the Health Care System. American Cleft Palate-Craniofacial Association, San Jose, USA. April 2012.

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### Invited Lectures

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Dr. Jugpal Arneja

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- “Leadership Trends in Canadian Academic Neurosurgery.” Canadian Pediatric Neurosurgery Study Group Meeting, Whistler, BC. March 2012.
  - “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.
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### Publications

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1. 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 2011; 19 (suppl A, Summer 2011): 38A.
  2. Hynes SL, Narasimhan K, Arneja J. Complicated hemangiomas of the lip: Outcomes of early vs. late surgical excision. Can J Plast Surg 2011; 19 (suppl A, Summer 2011): 32A.
  3. 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 5-year period from three North American plastic surgery meetings. Can J Plast Surg 2011; 19 (suppl A, Summer 2011):22A.
  4. McInnes CW, Benson A, Verchere C, Ludemann J, Arneja JS. Management of congenital midline cervical cleft. J. Craniofac Surg. (in press, 2011).
  5. Arneja JS, Gosain AK. Different treatment approaches to management of hemangiomas of the nasal tip: Reply. Plast Recon Surg 127:2508, 2011.
  6. Arneja JS. Management of complicated facial hemangiomas with Beta-Blocker (Propranolol) therapy: Reply. Plast Recon Surg 127:1742, 2011.
  7. McInnes CW, Reynolds RA, Arneja JS. Management of pelvic heterotopic ossification post-myocutaneous flap reconstruction of sacral pressure ulcer. Can J Plast Surg 19:60, 2011.
  8. Lai MA, Sikora S, Arneja J. Pediatric Flexor Tendon Injuries: A 10 Year Analysis at BC Children’s Hospital. J Investigative Med 2012; 60: 130.
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9. 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 2011; 19 (suppl A, Summer 2011): 38A. J Investigative Med 2011; 59: 136.
  10. Hynes SL, Narasimhan K, Arneja J. Complicated Hemangiomas of the Lip: Outcomes of Early vs. Late Surgical Excision. Can J Plast Surg 2011; 19 (suppl A, Summer 2011): 32A.
  11. 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 5-year Period from Three North American Plastic Surgery Meetings. Can J Plast Surg 2011; 19 (suppl A, Summer 2011): 22A.
  12. Arneja JS. Pharmacologic Therapies for Infantile Hemangioma: Is There a Rational Basis? Plast Recon Surg 129: e724, 2012.
  13. 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 5-year Period from Three North American Plastic Surgery Meetings. Can J Plast Surg 20: 33, 2012.
  14. McInnes CW, Benson A, Verchere C, Ludemann J, Arneja JS. Management of Congenital Midline Cervical Cleft. J. Craniofac Surg 23:e36, 2012.
  15. Arneja JS, Gosain AK. Different treatment approaches to management of Hemangiomas of the Nasal Tip: Reply. Plast Recon Surg 127:2508, 2011.
  16. Arneja JS. Management of complicated facial hemangiomas with Beta-Blocker (Propranolol) therapy: Reply. Plast Recon Surg 127:1742, 2011.
  17. McInnes CW, Reynolds RA, Arneja JS. Management of pelvic heterotopic ossification post-myocutaneous flap reconstruction of sacral pressure ulcer. Can J Plast Surg 19:60, 2011.
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## Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Predictors of readmission and death in pediatric in-patients	Courtemanche		UBC Summer Research Student Funding	\$3,000
Vascular Anomalies Clinic	Courtemanche		BCCH Plastic Surgery Summer Student Funding	
Management of Infantile Hemangiomas with Beta-blocker therapy	Courtemanche (co-PI)		Rare Disease Foundation Microgrant	\$1,750
Scalpel Safety	Courtemanche (co-PI)		iAC T Synergy Grant	\$10,000

## Committee Participation

## Dr. Jugpal Arneja

- 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





*The division of Pediatric Urology provides a full range of diagnostic and urologic treatment services for children.*

### FACULTY MEMBERS:

Dr. Andrew E MacNeily, Division Head

Dr. Kourosh Afshar

Dr. John ST Masterson

Dr. Jennifer J Mickelson

### STAFF MEMBERS:

Ms. Heidi Barber, Pediatric Urology Nurse Clinician

Dr. Souzan Baharlou, Pediatric Urology Research Associate

Dr. Noosheen Mohajerani, Pediatric Urology Research Associate

Ms. Danielle Baghii, Administrative Assistant

Ms. Maria Lopes Chau, Administrative Assistant

Ms. Maria Chaperon, Administrative Assistant

Ms. Patricia Lizama, 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.

Some notable highlights include the following: Dr. Masterson completed his two year term in the position of interim head, Dept of Pediatric Surgery, a time intensive position of great responsibility. Dr. Afshar completed his final term as President of Pediatric Urologists of Canada (PUC) our national subspecialty organization. Dr. Mickelson served on no fewer than 8 UBC undergraduate curriculum committees, most notably as the Dept of Urological Sciences Undergraduate Educational Director. She was awarded a Canadian Urological Association scholarship to pursue research on e-learning in Urology. 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 Vice President of the NorthWest Urologic Society. For their sustained academic productivity, both Dr Afshar and Dr MacNeily were promoted to the ranks of Associate Professor and Full Professor, respectively.

Academic productivity was excellent with a total of 14 abstract presentations, 6 invited lectures, 13 peer-reviewed publications, and 5 new or ongoing grants.

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 BCC H participating in ambulatory clinics, surgery, urodynamic assessments, ward and emergency consultations as well as a variety of scheduled academic sessions. In 2010-11 we hosted 38 elective medical students from UBC and across Canada.

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### Presentations

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- 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 American Urological Association, Washington DC May 2011.
- 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. Canadian Urological Association Montreal PQ June 2011.
- Metcalfe C, MacNeily AE, Afshar K; A reliability assessment of the international vesicoureteric reflux grading system Canadian Urological Association Montreal PQ June 2011.
- Faddegon S, MacNeily AE, Afshar K: Determinants of Surgical Complications in Pediatric Renal Transplantation Canadian Urological Association Montreal PQ June 2011.
- Robinson M, MacNeily AE, Goldenberg SL, Black P: Status of Robotic Assisted Surgery Among Canadian Urology Residents Canadian Urological Association Montreal PQ June 2011.
- Hoag N, Mamut A, Afshar K, Amling C, Mickelson J, MacNeily AE: Trends in Urology Resident Exposure to Open Surgery for Index Procedures: A tale of Two Countries. Canadian Urological Association Montreal PQ June 2011.

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- Afshar K, Stothers L, Scott H, MacNeily AE: Cranberry Juice for the Prevention of Pediatric Urinary Tract Infection: A Quadruple Blind Randomized Controlled Trial. Western Section of the American Urological Association Vancouver BC Aug 2011.
  - Faddegon S, MacNeily AE, Afshar K: Determinants of Surgical Complications in Pediatric Renal Transplantation American Academy of Pediatrics Section on Urology Boston Ma Oct 2011.
  - Metcalfe C, MacNeily AE, Afshar K; A reliability assessment of the international vesicoureteric reflux grading system American Academy of Pediatrics Section on Urology Boston Ma Oct 2011.
  - 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. American Academy of Pediatrics Section on Urology Boston Ma Oct 2011.
  - Afshar K, Stothers L, Scott H, MacNeily AE: Cranberry Juice for the Prevention of Pediatric Urinary Tract Infection: A Quadruple Blind Randomized Controlled Trial. American Academy of Pediatrics Section on Urology Boston Ma Oct 2011.
  - MacNeily AE, Hoag N, Mamut A, Afshar K, Amling C, Mickelson J: Trends in Urology Resident Exposure to Open Surgery for Index Procedures: A tale of Two Countries. NorthWest Urological Society Portland Oregon USA Dec 2011.
  - 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. NorthWest Urological Society Portland Oregon USA Dec 2011.
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### Lectures

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Dr. Kourosh Afshar

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- Saint Paul's Hospital CME conference: Pros and Cons of Circumcision. Nov 2011.
  - Pediatric Urology Session: Canadian Urological Association Annual Meeting Montreal June 2011: Use of Cranberry Juice in Prevention of UTI.
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Dr. Andrew MacNeily

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- Victoria Division of Urology – “Transition care for spina bifida patients” April 2011.
- Invited faculty lecturer to the XIV Brazilian Congress of Pediatric Urology. Presented 3 lectures over 2 days: “There is no need for concomitant augmentation cystoplasty in conjunction with bladder outlet surgery”, “Posterior Urethral valves – Case reviews” and “Consequences of Lower Urinary Tract Reconstruction for Neurogenic Bladder” Rio De Janeiro Brazil June 3-4 2011.
- Invited debator: “We are performing too many augmentation cystoplasties for neurogenic bladder with little benefit to patient quality of life” Western Section American Urological Association Vancouver BC August 2011.
- Western Urologic Forum: “Is a Fellowship a Necessary Step after Residency?” Park City Utah March 2012.

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Dr. Jennie Mickelson

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- “Medical Education Scholarship: Beginner’s Tips”. OPSEI Academic Rounds. Vancouver BC. September 6, 2011.

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Formal Teaching

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Dr. Kourosh Afshar

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- First year INDE 410, Genito-Urinary and Renal Problems in Children. April 2011
- FERGU lecture Development of Urinary tract: Clinical correlations. May 2011
- First year INDE 410, Male genitor urinary exam. May 2011
- Voiding Dysfunction and BPH. June 2011
- UBC Departments of Surgery, Urology and Orthopedics, May 11, 2011
- UBC Departments of Surgery, Urology and Orthopedics. May 18, 2011
- UBC Departments of Surgery, Urology and Orthopedics. May 25, 2011
- UBC department of Pediatrics. May 10, 2011

- Academic half day: Department of Urologic Sciences: Urinary tract infections in children April 1st 2011.

- Senior residents mock oral exam April 2011.

- Department of Urologic Sciences Evidence Based Journal Clubs: Nov. 2011.

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Dr. Andrew MacNeily

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- INDE 410. Clinical Skills: The male genital examination. May 2011
- FERGU 1011 Week Four wrap up lecture. May 2011
- FERGU 1011 Week Four Tutor Chair. May 2011
- Urology Resident Academic Half Day Seminar: Classification and management of ambiguous genitalia. April 2011
- Urology Resident Mock OSCE oral examiner. November 2011
- Urology Resident Academic Half Day Seminar: Pediatric UTI’s and Vesicoureteral Reflux. January 2012

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Dr. Jennie Mickelson

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- FERGU Lecture . FER GU case wrap up lecture. Undergraduate. May 6, 2011. (2hrs)
- FERGU Lecture . FER GU case wrap up lecture. Undergraduate. May 14, 2011. (2hrs)

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Publications

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1. MacNeily AE: Familial incontinence Journal of Urology June 2011 185(6):2306-7 wrote invited editorial.
2. Longpre M, Nguan A, MacNeily AE, Afshar K: Prediction of the Outcome of Antenatally Diagnosed Hydronephrosis: A Multivariable Analysis. The Journal of Pediatric Urology 2012 Apr;8(2):135-9. Created clinical database, co-wrote manuscript.
3. Robinson M, MacNeily AE, Goldenberg SL, Black P: Status of Robotic Assisted Surgery Among Canadian Urology Residents CUA Journal In press accepted Dec 2011 mentored resident researcher, co-wrote article.

4. 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. Established database, Conceived project, mentored resident trainee, presented abstract co-wrote manuscript. Journal of Urology In Press Accepted Jan 2012.
5. Hennessey K, Afshar K, Williams A, MacNeily AE: Duplicate Publications: A survey of Redundancy In the Urological Literature. Conceived project, mentored resident trainee, co-wrote manuscript. CUA Journal In Press accepted Jan 2012.
6. Metcalfe C, MacNeily AE, Afshar K: A reliability assessment of the international reflux grading system. Participated in study, mentored resident trainee, co-wrote manuscript. Journal of Urology In Press accepted Jan 2012.
7. MacNeily AE: The role of uroflowmetry in the diagnosis of lower urinary tract disorders in children. Journal of Urology In Press accepted Feb 2012. Wrote invited editorial.
8. Afshar K, Stothers L, Scott H, MacNeily AE: Cranberry Juice for the Prevention of Pediatric Urinary Tract Infection: A Randomized Controlled Trial. Conceived of project, co-PI on peer reviewed grant, accrued patients, co-wrote manuscript. Journal of Urology In Press, accepted Feb 2012.
9. 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 Conceived project, mentored resident trainee, co-wrote manuscript. Journal of Surgical Education In Press, accepted April 2012.
10. MacNeily A, Webber E, Alden L, Afshar K,: The Surgical Personality: Comparisons between Urologists, Non-Urologists and Non-Surgeons. CUAJ Vol 5, 3 June 2011 pp182-185.
11. Andrew Macnab, Babak Shadgan, Kourosh Afshar, and Lynn Stothers, "Near-Infrared Spectroscopy of the Bladder: New Parameters for Evaluating Voiding Dysfunction," International Journal of Spectroscopy, vol. 2011, Article ID 814179, 8 pages, 2011. doi:10.1155/2011/814179.
12. Chew BH, Zavaglia B, Sutton C, Masson RK, Chan SH, Hamidizadeh R, Lee JK, Arsovska O, Rowley VA, Zwirewich C, Afshar K, Paterson RF. Twenty-year prevalence of diabetes mellitus and hypertension in patients receiving shock-wave lithotripsy for urolithiasis. BJU Int. 2011 Jun 2. doi:10.1111/j.1464-410X.2011.10291.x. [Epub ahead of print] PubMed PMID: 21635683.

13. Rasmussen D, Duffy D, O'Hara N, Chen S, Masterson J, Gandhi S. Evaluation of capacity for international patient care at BC Children's Hospital. Journal of Investigative Medicine & Volume 60, Number 1, January 2012.

### Honours and Awards

- MacNeily AE. UBC Dept of Urologic Sciences: Undergraduate Teacher of the Year 2010-2011. In recognition of outstanding teaching acclaimed by the UBC undergraduate medical students
- Five Star Poster Award – Canadian Urological Association meeting Montreal PQ June 2011 Hoag N, Mamut A, Afshar K, Amling C, Mickelson J, MacNeily AE. Trends in Urology Resident Exposure to Open Surgery for Index Procedures: A tale of Two Countries. Awarded to best posters in the training and education session.
- Third Place Winner: Miley B. Wesson /Olympus Resident Essay Contest. Western Section American Urological Association meeting Vancouver BC Aug 2011. Hoag N, Mamut A, Afshar K, Amling C, Mickelson J, MacNeily AE. Trends in Urology Resident Exposure to Open Surgery for Index Procedures: A Tale of Two Countries.
- First Place – Best paper: Western Urologic Forum Park City Utah March 2012. MacNeily AE, Kodama R, Welk BK: Is a Fellowship a Necessary Step after Residency Training?

### Grant Funding Received

Project Title	PI	Team	Granting Agency	Amount
Treatment of Persistent Urinary Incontinence in Children. 2005-2012	P Steinbok A MacNeily	H Garton, MP, Leonard, M, Vassilyadi, R Milner, M Sargent, J Drake,, E	BC Medical Services Foundation	\$49,983



A prospective trial on the use of biofeedback in the management of Pediatric Dysfunctional Voiding . 2011	K Afshar A MacNeily		UBC Urology Research Education and Development Fund	\$10,000
Virtual Problem Based learning-A needs assessment exploring on-line PBL group learning. 2011-2012	JJ Mickelson	AE MacNeily, K, Afshar, W Gourlay, J Masterson	UBC Teaching and Learning Enhancement Fund	\$10,920
Psychological Impact of Surgical Cancellations on Families. 2010	K. Afshar		Child and Family Research Institute	\$8,000
Lights, Camera, Surgery: Production of Surgical Education Videos within the OR Setting	J Masterson		UBC Teaching and Learning Enhancement Fund	\$14,850

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### Residents Supervised

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- Dr Dinesh Samerasekara
- Dr. Paul Gustafson
- Dr. Reza Hamidizadeh
- Dr. Samir Bidner
- Dr. Nathan Hoag
- Dr. Alex Kavanagh
- Dr. Michelle Longpre
- Dr. Brian Mayson
- Dr. Meagan Melnyk
- Dr. Ryan Flannigan
- Dr. Chuck Metcalfe
- Dr. Mike Robinson
- Dr Jason Sea
- Dr Kelly Zwicker

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### Students Supervised

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- Ashman, B (UBC-3)
- Atwal, P (UBC-4)
- Biggs, C (UBC-3)
- Brooks, E (UBC-3)
- Chin, C (UBC-3)
- Cordes, R (UBC-3)
- Czerwinski, M (UWO)
- Dojcinovic (UBC-3)
- Draht, L (UBC-3)
- Flannigan, R (Calgary)
- Han, R (UBC-4)

- Hoffer, D (Ottawa)
  - Kim, S (McMaster)
  - Larsen, D (UBC-3)
  - Lau, P (UWO)
  - Lee, S (UBC-4)
  - Leung, K (Queens)
  - Mader, P (UBC-3)
  - Martinka, P (UBC-4)
  - McGarry, P (Queens)
  - Murray, D (UBC-4)
  - Nelson, H (UBC-3)
  - Paras, E (UBC-3)
  - Robinson, M (UBC-3)
  - Samilski, J (UBC-3)
  - Sasges, D (Toronto)
  - Scanlan, F (UBC-4)
  - Stockley, K (UBC-4)
  - Thong, N (UBC-3)
  - Toosi, B (UBC-3)
  - Tran, H (UBC-4)
  - Vaughan, M (UBC-3)
  - Warshawski, T (Calgary)
  - Watts, A (UBC-3)
  - Wu, C (UBC-3 DPL)
  - Yan, H (Toronto)
  - Yip, D (UBC-3)
  - Yokogawa, T (UBC-3)
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## Committee Participation

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### Dr. Kourosh Afshar

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- Member of Research Committee, Department of Urological Sciences, UBC Sep.2006-present
  - Director Residency Research Program: Department of Urological Sciences, UBC Sep. 2006-Present
  - Member UBC Department of Urologic Sciences Post-graduate training Committee Jan 2009-Present
  - Member UBC/C&W Clinical Research Ethics Board Oct 2009- present
  - Clinical Record Committee, BC Children's Hospital Oct., 2004-2011
  - President Pediatric Urologists of Canada: July2010- Present
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### Dr. Andrew MacNeily

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- Member, UBC Dept of Urological Sciences Post-graduate Training Committee. 2000-2012
  - Member, Dept Urological Sciences Promotion and Tenure committee. 2008-2012
  - Member, Dept of Urological Sciences Executive Council. 2009-2012
  - Divisional Representative, BCC H Surgical Services Advisory Committee. 2005-2012
  - Vice-Chair, Education and Clinical Affairs Dept of Urologic Sciences. 2011-2014
  - Vice-President, NorthWest Urologic Society. 2010-2012
  - Executive at Large: BC Representative, Canadian Urological Association. 2011-2014
  - Committee Member, Canadian Urological Association Guidelines. 2011-2014
  - Section Editor (Training and Education), Canadian Urological Association Journal. 2011–2016
  - Editorial Board Member, The Journal of Pediatric Urology. 2011-2013
  - UBC Dept of Urologic Sciences representative – Canadian Council of University Urology Chairs Montreal PQ. June 2011
  - UBC Dept of Urologic Sciences representative – CUA Residency affairs committee Montreal PQ. June 2011
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### Dr. John Masterson

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#### Service to the University: Faculty of Medicine

- 2007-present Department of Urologic Sciences Representative/Champion, Mentoring Program Working Group
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#### Department of Surgery

- Member, Surgical Advisory Committee, Department of Surgery. 2002-present
  - Chair, STI (Strategic Teaching Initiatives) Committee, Department of Surgery. 2002-present
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#### Division of Urology

- Member, Resident Training Committee. 2000-present
- 

#### Department of Urologic Sciences

- Clinical Faculty Appointment and Promotion Committee. 2006-present
  - Alternate Member, UBC Undergraduate Curriculum Committee. 2009-present
- 

#### Service to the B.C.'s Children's Hospital

- Member, Gender Assessment Committee. 1985-present
  - Physician Member, "Circle of Care" \$ 10,000 Foundation donor. 2009-present
  - Member, Pediatric Surgical Executive Committee. 2009-2010
  - Chair, Pediatric Surgical Executive Committee. 2010-present
  - Member, Surgical Data Management Committee. 2009-2010
  - Chair, Surgical Data Management Committee. 2010-present
  - Member, Surgical Cabinet Committee. 2009-2010
  - Chair, Surgical Cabinet Committee. 2009-present
  - Member, Surgical Services Advisory Committee. 2009-present
  - Interim Chair, Department of Pediatric Surgery. 2010-2012
  - Member, BCCH Design & Transition Strategy Team. 2010-present
  - Member, Child Health BC Steering Committee. 2010-present
  - Member, Child Health Executive Committee. 2010-present
  - Member, Child Health Leadership Team. 2010-present
  - Member, Child Health Management Team. 2010-present
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- Chair, Child Health Safety and Quality of Care Committee. 2010-present
- Member, Informed Consent Task Force. 2010-present
- Member, Multi-Organ Children's Transplant Program. 2010-present
- Member, Provincial Surgical Advisory Council. 2010-present
- Member, Sedation Suite Steering Committee. 2010-present
- Member, Surgical Data Management Committee. 2010-present
- Member, Surgical Services core Leadership. 2010-present
- Member, Surgical Suite Planning Group. 2011-present
- Member, BCCH Pediatric NSQIP Work Group. 2011-present
- Member, Motility Review Committee. 2011-present
- Member, Inter Area Planning Team. 2011-present

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#### Dr. Jennifer Mickelson

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- Department of Urologic Sciences representative, UBC BMB Library Advisory Committee. 2011-present
  - Co-chair, Flexibility Working Group – Dean's Task Force on Curriculum Renewal. 2010-present
  - Week Chair – FER GU urology weeks (3 & 4), Year 1 FERGU Block. 2010-present
  - Department of Urologic Sciences representative, UBC Year 4 Undergraduate Committee. 2009-present
  - Department of Urologic Sciences representative, UBC Year 3 undergraduate Committee. 2009-present
  - Department of Urologic Sciences representative, UBC Undergraduate Surgical Education Committee. 2010-present
  - Director of Undergraduate Education, UBC Department of Urologic Sciences. 2010-present
  - Member, UBC Department of Urologic Sciences Education Committee. 2009-present
  - Undergraduate Education Representative, UBC Department of Urologic Sciences Advisory Committee. 2010--present
  - Editorial Board Member, Medical Post. 2011--present.
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# OPSEI Report

The Office of Pediatric Surgical Evaluation and Innovation  
950 West 28th Ave  
Vancouver BC  
V6H 3V4  
Tel 604.875.2345  
Fax 604.875-3032

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