

ANNUAL ACHIEVEMENTS REPORT



The Office of Pediatric
Surgical Evaluation and
Innovation at BCCH



2014 / 15 & 2015 / 16



THE OFFICE OF PEDIATRIC SURGICAL EVALUATION AND INNOVATION ANNUAL ACHIEVEMENTS REPORT



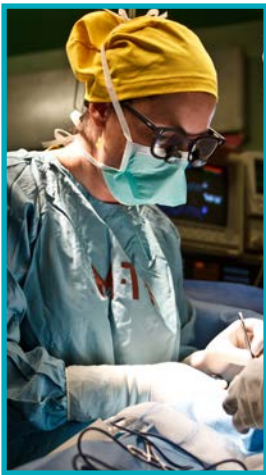


TABLE OF CONTENTS

OPSEI TEAM	4
OPSEI PARTNERS	6
CHILDREN'S CIRCLE OF CARE	7
CLINICAL RESEARCH AND EDUCATION - SUMMER STUDENTS	8
DIVISION OF PEDIATRIC CARDIOVASCULAR & THORACIC SURGERY	10
DEPARTMENT OF PEDIATRIC DENTISTRY	22
DIVISION OF PEDIATRIC NEUROSURGERY	34
DEPARTMENT OF PEDIATRIC ORTHOPAEDIC SURGERY	46
DIVISION OF PEDIATRIC OTOLARYNGOLOGY	94
DIVISION OF PEDIATRIC PLASTIC SURGERY	110
DIVISION OF PEDIATRIC SURGERY	118
DIVISION OF PEDIATRIC UROLOGY	132
DEPARTMENT OF PEDIATRIC OPHTHALMOLOGY	144

YEAR IN REVIEW

MEET THE TEAM



DR. ERIK SKARSGARD **CHIEF OF PEDIATRIC 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-less normal distribution.



DAMIAN DUFFY **EXECUTIVE DIRECTOR**

Responsible for all OPSEI business operations and overall program management.



LENNY ZHOU **OPERATIONS ENGINEERING** **MANAGER**

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



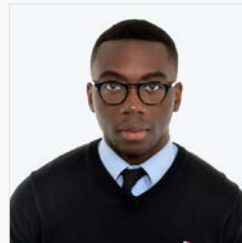
AMIN MARDAN **SYSTEMS ANALYST**

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



BINDY SAHOTA **ACADEMIC ADMINISTRATIVE** **ASSISTANT**

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



BABABUNMI FASHOLA **PROGRAM COORDINATOR**

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



ROSEANNE LIM **SCIENCE CO-OP STUDENT**

Responsible for supporting research projects and hospital efficiency initiatives.

OUR VALUES

OPSEI aims to establish and maintain a unique position for BC Children's Hospital as a leader nationally and internationally in the delivery of high quality pediatric surgical care. It is an investment in conducting clinical research that contributes to the effectiveness, quality, equity, end, efficiency of pediatric surgical care and outcomes in BC. As innovators, we plan to expand the frontiers of pediatric surgical knowledge and understanding. As teachers, we will enthusiastically involve the educational community in our endeavors to inspire and engage surgical trainees. We will cultivate learning opportunities to enrich the academic community in Pediatric Surgery.

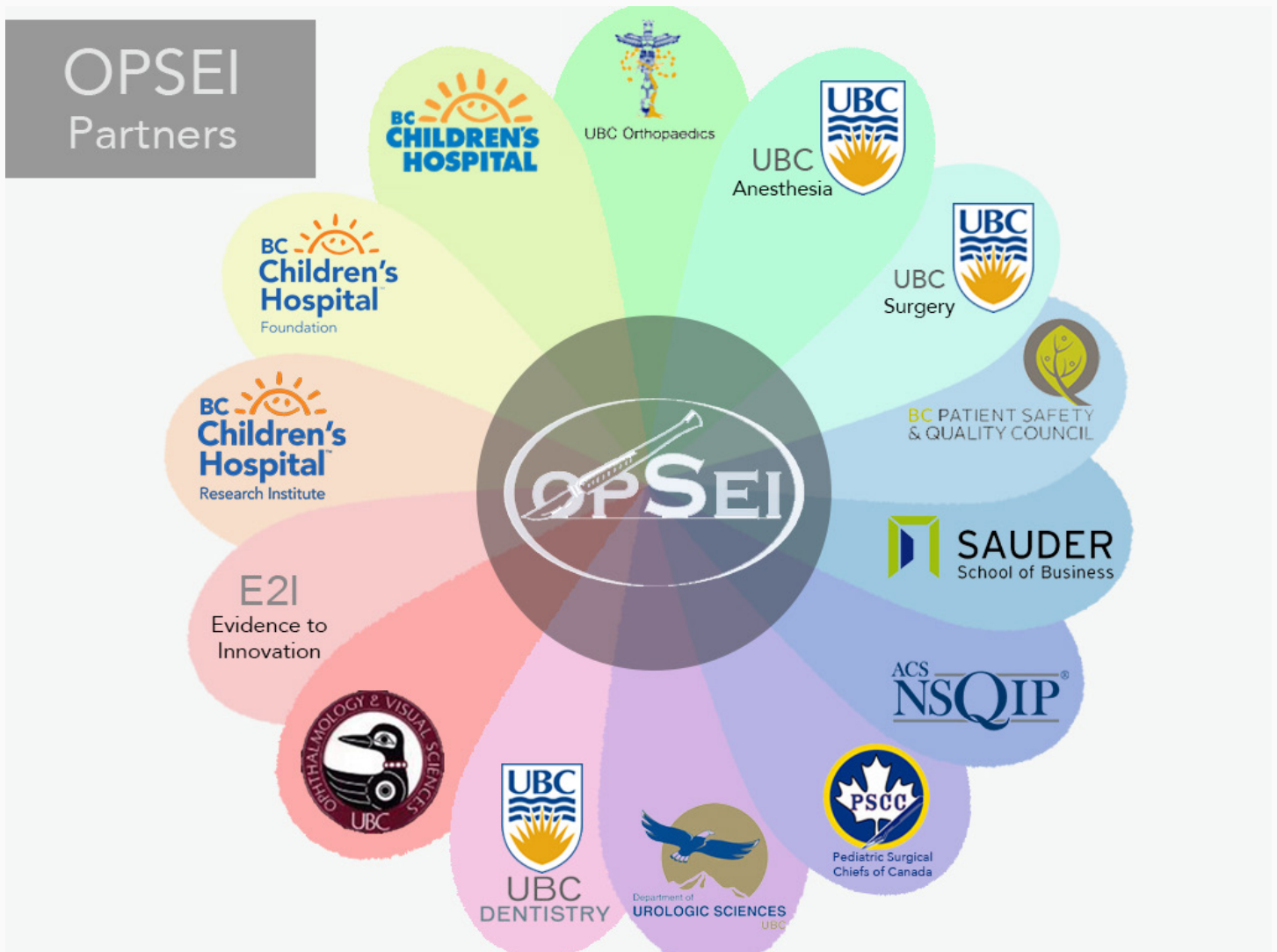
- ✓ Strive for excellence in education
- ✓ Advance Pediatric Surgical discoveries
- ✓ Test new technologies
- ✓ Evaluate surgical outcomes
- ✓ Address utilization and access to care issues, for example, simulation and operational research
- ✓ Improve the practice of surgery



OPSEI PARTNERS

COLLABORATION

We are working in partnership with our employees, our patients, their families, and our health care and educational partners to improve the delivery of care to the children that we serve. With our partners throughout BC much has been accomplished.

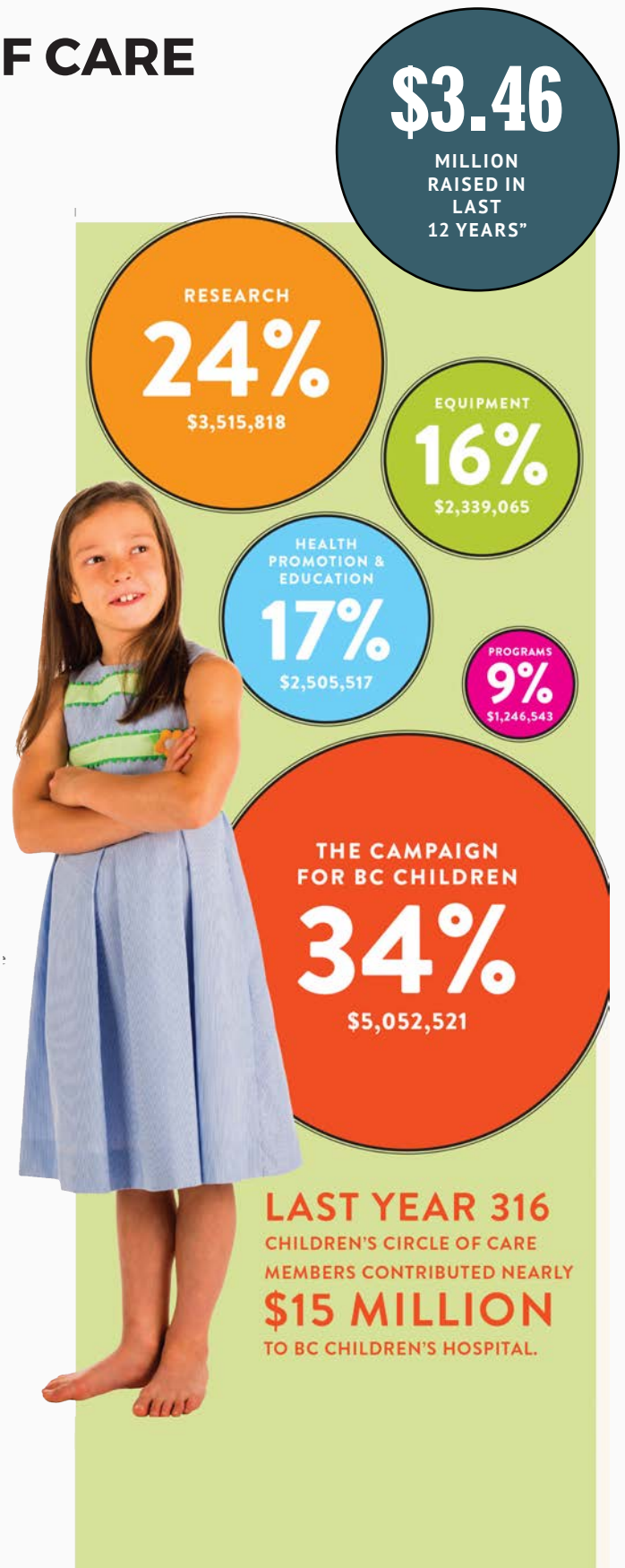
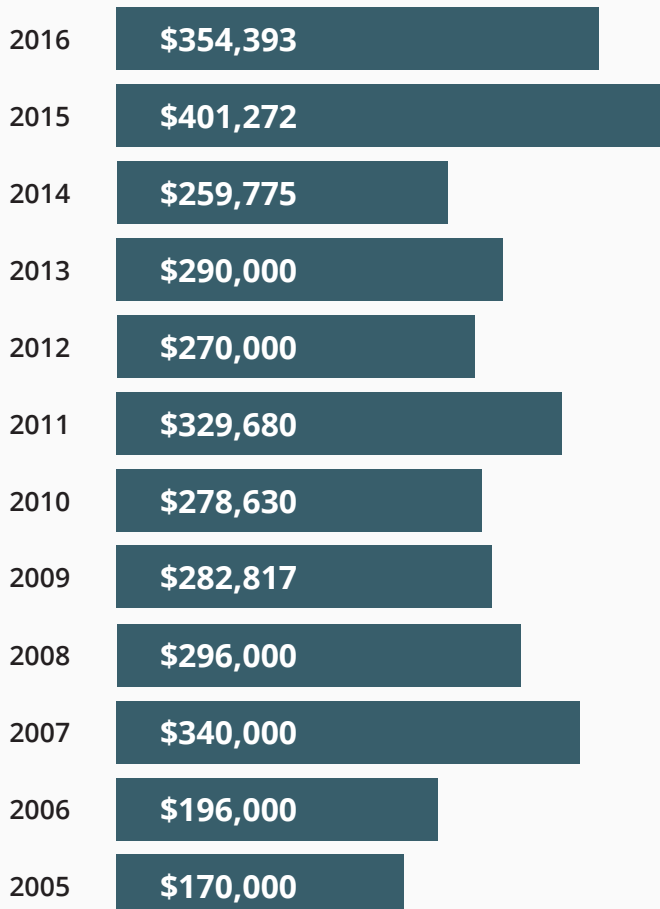


CHILDREN'S CIRCLE OF CARE

COMMUNITY

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 29 donors contribute to the Children's Circle of Care Program within the Departments of Pediatric Anesthesia, Pediatric Dentistry and Pediatric Surgery for 2015 & 2016. Their generous donations, along with the matching gifts, have raised a total of \$401,272 (2015) and \$354,393 (2016).

AMOUNT RAISED BY YEAR FROM DEPARTMENTS OF ANESTHESIA, DENTISTRY AND SURGERY



CLINICAL RESEARCH AND EDUCATION

SUMMER STUDENTS

For twelve years, the Office of Pediatric Surgical Evaluation and Innovation continues to foster collaborations between students and faculty. These relationships are mutually beneficial educationally, while remaining clinically productive through research. This year proved to be no different in our facilitation of excellent research which has given many student the opportunity to present at the Western Medical Student Research Forum and other conferences.



AMANDA RIBEIRO

Pediatric Plastic Surgery
Soroti, Uganda Household Survey



IRENA ZIVKOVIC

NSQIP
Implementing Chlorohexidine For
Pre-operative cleansing in Pediatrics



AMOS FROESE VAN DIJK

Pediatric Anesthesia



DAPHNE LU

Pediatric ENT Surgery
Costochondral Arthroplasty
of the Temporomandibular Joint



FORSON CHAN

Pediatric Plastic Surgery
Costochondral Arthroplasty
of the Temporomandibular Joint



MACKENZIE CAULFIELD

Soroti Uganda Logistics Survey



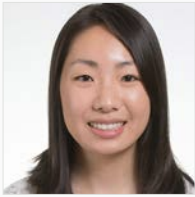
JONG WOOK LEE

Pediatric ENT Surgery
Cytokine Profiling in
Pediatric Laryngeal Diseases



MONIQUE MARGUERIE

Pediatric Neurosurgery
Ventricular Shunting
For Hydrocephalus

**SEO YOUNG (SANDRA) KIM**

Pediatric Surgery
Timely Emergency and Urgency
Surgery Access for Acutely Ill Patients

**CHI (LISA) JIN**

Pediatric ENT Surgery
Comparison of Vaccination Status
in Pediatric Cochlear Implant

**DAN COJOCARU**

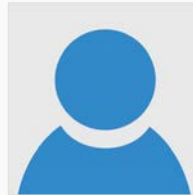
Pediatric Surgery
Students as Future Educational
Leaders: Developing Learning

**ALYKHAN RAJWANI**

Plastic Surgery
Soroti Uganda
Patterns of Care

**KARAN D'SOUZA**

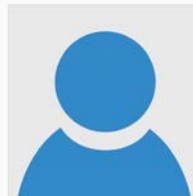
Pediatric Surgery
Teacher-Learner Contract for
Observerships in the Clinical Setting

**ANGELA MACCAN**

OPSEI
Soroti, Uganda
Household Survey

**PAIGE DEAN**

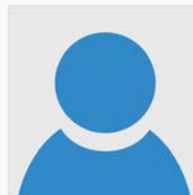
Pediatric Surgery
Enhancing Quality of Surgical
Experience with Telehealth

**LINDSAY BJORSON**

Plastic Surgery
Is it safe to re-access sodium
bicarbonate vials

**CHEE FUNG (DAVID) MO**

Pediatric Surgery
Enhancing Quality of Surgical
Experience with Telehealth

**NICOLE WIERKS**

Plastic Surgery
Reconstructing
Journal Club

**JANINE ROLLER**

Pediatric Plastic Surgery
Characteristics of Validated QOL
PROMs in Pediatric Plastic Surgery

DIVISION OF PEDIATRIC CARDIOVASCULAR & THORACIC SURGERY

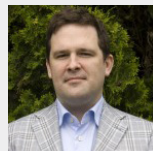
2014-2015



FACULTY MEMBERS:



Dr. Sanjiv K. Gandhi, Division Head, Clinical Professor, UBC



Dr. Andrew I.M. Campbell, Assistant Professor, UBC

STAFF MEMBERS:

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

- ***Ms. Emily Tai, NP***
- ***Ms. Misty Reis, NP***

01 TEACHING ACTIVITIES

ANDREW CAMPBELL	2014W CARD – CONGENITAL WEEK CAPTAIN, EXAM SETTING	25HRS
------------------------	--	-------

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

- | | |
|------------------------|---|
| ANDREW CAMPBELL | <ul style="list-style-type: none"> <i>Campbell: Keynote speaker: Developing a VAD and ECMO program. 5th Shanghai International Symposium on Minimally Invasive Cardiac Surgery. Children's Hospital of Fudan University, Shanghai, China. September 19-21, 2014</i> <i>Campbell: Alanna De Mello, Andrew Campbell, Kathy Lee-Son, Michael Zappitelli, Peter Skippen, Sanjiv Gandhi, Cherry Mammen. Epidemiology of Cardiac Surgery Associated Acute Kidney Injury in Neonates: A Prespective Cohort Study. Oral and poster presentation January 2015 Medical Student Medical Research Forum, Carmel, California</i> <i>Campbell: Robynn Geier, Ala Al-Lawati, Anthony Holmes, Alison Wallace, Andrew Campbell. A Retrospective Review of the Surgical Outcomes of PDA Ligation. Heart & Lung Scientific Symposium 2015, Vancouver BC, March 26 – 27, 2015. Poster Presentation</i> <i>Campbell: Gandhi, S, Campbell AIM, Harris V, Kato H. "Do Children Undergoing Open Heart Surgery Routinely Require Blood Products?". Poster presentation at the CHSS Annual Meeting to be held October 19-20, 2014 Chicago Illinois.</i> |
| SANJIV GANDHI | <ul style="list-style-type: none"> <i>Gandhi: Harris K.C., Holowachuk S., Pitfield S., Sanatani S., Froese N.R., Potts J.E., and Gandhi S.K. Should Early Extubation be the Goal for all Children, Including Neonates, Undergoing Surgery for Congenital Heart Disease? Presented 2014 American Association for Thoracic Surgery</i> <i>Gandhi: Kato H., Harris V.J., Campbell A., and Gandhi S.K. Do Children Undergoing Open Heart Surgery Routinely Require Blood Products? Presented 2014 Congenital Heart Surgeons' Society</i> <i>Gandhi: Eckhard U., Marino G., Gandhi S.K., Campbell A, and Overall C.M. The Human Heart N-Terminome: A New Strategy to Identify Human Proteome Project "Missing Proteins" Using N-Terminal Peptides. Presented 9th Central and Eastern European Proteomics Conference, 2015</i> |

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CANADIAN INSTITUTES OF HEALTH RESEARCH	ABNORMAL BRAIN DEVELOPMENT IN NEWBORNS WITH CONGENITAL HEART DISEASE	C	798,370	2009-2014	S. MILLER	A. CAMPBELL, R. GRUNAU, K. POSKITT, A. SYNNE
UBC FACULTY OF MEDICINE'S SUMMER STUDENT RESEARCH PROGRAM (FOM SSRP)	FOLLOWING RENAL TRANSPLANTATION: THE PREDICTIVE VALUE OF PERIOPERATIVE VARIABLES IN A PEDIATRIC POPULATION	C	3,600	2015		A. CAMPBELL

COMMITTEE PARTICIPATION

SERVICE TO THE UNIVERSITY

ANDREW CAMPBELL

- Member, UBC Cardiac Surgery Residency Program Committee. Sep 2005 - present
- Mentor, Careers in Action, Career Counselling Program, Faculty of Medicine, University of British Columbia. July 2007 – present
- Program Director, Cardiac Surgery Residency and Fellowship Program. Jan. 2011 – present
- Careers in Action, Career Counseling Program, Faculty of Medicine, UBC, Mentor
- University of British Columbia Cardiac Surgery Residency Program Committee, Director Mentor, Careers in Action, Career Counselling Program, Faculty of Medicine, University of British Columbia. July 2007 – present
- Program Director, Cardiac Surgery Residency and Fellowship Program. Jan. 2011 – present
- Careers in Action, Career Counseling Program, Faculty of Medicine, UBC, Mentor
- University of British Columbia Cardiac Surgery Residency Program Committee, Director

SANJIV GANDHI

- Member, UBC Cardiac Surgery Residency Program Committee. Sep 2005 - present
- Mentor, Careers in Action, Career Counselling Program, Faculty of Medicine, University of British Columbia. July 2007 – present
- Program Director, Cardiac Surgery Residency and Fellowship Program. Jan. 2011 – present

SERVICE TO THE HEALTH PROFESSIONAL AND HEALTH AUTHORITIES

ANDREW CAMPBELL

- Member, ECLS Working Group Committee, BC Children's Hospital. May 2007 – present
- Member Credentials Committee, BC Children's Hospital. Jan 2008 – present
- Chair, Critical Patient Safety Event Review, BC Women's Hospital. May 2010 – present
- Chair, Critical Patient Safety Event Review, BC Children's Hospital. Aug. 2010 - present
- Executive Member, Children's Heart Network – volunteer support for families with children with congenital heart disease. April 2008 - present
- Credentials Committee, BC Children's Hospital, Member
- ECLS Steering Committee, BC Children's Hospital, Member
- ECLS Working Group Committee, BCCH, Member

COMMITTEE PARTICIPATION con't**SERVICE TO THE HEALTH PROFESSIONAL AND HEALTH AUTHORITIES****SANJIV
GANDHI**

- *Member, ECLS Working Group Committee, BC Children's Hospital. May 2007 – present*
- *Member Credentials Committee, BC Children's Hospital. Jan 2008 – present*
- *Chair, Critical Patient Safety Event Review, BC Women's Hospital. May 2010 – present*
- *Chair, Critical Patient Safety Event Review, BC Children's Hospital. Aug. 2010 - present*
- *Executive Member, Children's Heart Network – volunteer support for families with children with congenital heart disease. April 2008 - present*
- *BC Children's Hospital Surgical Cabinet, Member*
- *BC Children's Hospital Acute and Critical Care Committee, Member*
- *BC Children's Hospital ECLS Steering Committee, Member*
- *BC Children's Hospital Jehovah's Witnesses Guidelines Committee, Member*
- *BC Children's Hospital Clinical Oversight Group, Co-Chair*
- *BC Children's Hospital Clinical Planning and Development Team Committee, Member*
- *BC Children's Hospital Surgical Cabinet, Member*
- *ECLS Steering Committee, BC Children's Hospital, Member*
- *Jehovah's Witnesses Guidelines Committee, BC Children's Hospital, Member*
- *Clinical Oversight Group, BC Children's Hospital, Co-Chair*
- *Clinical Planning and Redevelopment Team, BC Children's Hospital, Member*

SERVICE TO THE COMMUNITY**REVIEWER****ANDREW
CAMPBELL**

- *Canadian Journal of Cardiology, Reviewer, 2006 - present*
- *Annals of Thoracic Surgery, Reviewer, 2006 – present*
- *Heart and Stroke Foundation, Grant Reviewer, 2006 - present*
- *Journal of the American College of Cardiology, Reviewer, 2010 – present*
- *Cardiology of the Young, Reviewer, 2011 – present*

**SANJIV
GANDHI**

- *Editor, Arrhythmia Innovation Center, CTSNet*
- *Guest Reviewer Annals of Thoracic Surgery*
- *Guest Reviewer Journal of Thoracic and Cardiovascular Surgery*
- *Guest Reviewer Pediatric Pulmonology*
- *Guest Reviewer Pediatric Cardiology*
- *Guest Reviewer Pediatric Transplantation*
- *Guest Reviewer The Journal of Pediatrics*
- *Guest Reviewer Innovations in Cardiac Surgery*
- *Guest Reviewer Canadian Journal of Cardiology*

03 COMMITTEE PARTICIPATION con't

MEMBERSHIPS ON COMMITTEES / SOCIETIES

ANDREW CAMPBELL	<ul style="list-style-type: none"> • <i>Western Canadian Children's Heart Network, Member</i> • <i>Western Canadian Children's Heart Network, Chair Research Committee</i>
SANJIV GANDHI	<ul style="list-style-type: none"> • <i>Western Canadian Children's Heart Network, Member</i> • <i>Western Canadian Children's Heart Network Database Steering Committee, Member</i> • <i>Western Canadian Children's Heart Network Clinical Operations Committee, Member</i> • <i>BC Institute for Heart and Lung Health Steering Committee, Member</i> • <i>American Association of Thoracic Surgery, Member</i> • <i>American Association of Thoracic Surgery Education Committee, Member</i> • <i>Society of Thoracic Surgeons, Member</i> • <i>Congenital Heart Surgeons' Society, Member</i> • <i>Southern Thoracic Surgery Association, Member</i>

INITIATIVES IN PROGRESS:

- **CAMPBELL:** Waiting for details of article "Care of Adults with Congenital Heart Disease" accepted for publication, September 2016 issue BC Medical Journal – Jasmine Grewal, AIM Campbell
- **CAMPBELL:** Frederick K Kozak; J.Paul Moxham; Mark Chilvers; David F Wensley; Michael Seear; Andrew I.M. Campbell; Jeffrey P Ludemann. Casting a look at Pediatric Plastic Bronchitis. International Journal of Pediatric Otorhinolaryngology. – submission notification May 7/2015
- **CAMPBELL:** I.E. Dijke, R.E. Hoeppli, T. Ellis, J. Pearcey, Q. Huang, A.N. McMurchy, K. Boer, A.M.A. Peeters, G. Aubert, I. Larsen, D.B. Ross, I. Rebeyka, A. Campbell, C.C. Bean, M.K. Levings, L.J. West. Discarded Human Thymus Is a Novel Source of Stable and Long-lived Therapeutic Regulatory T Cells. American Journal of Transplantation. – pending publication June 2015
- **GANDHI:** Hybridizing the Hybrid Procedure. J Thorac Cardiovasc Surg. 2016; 151(2): In press
- **Gandhi:** It's Not Just a Shunt but Sometimes it Should Be. J Thorac Cardiovasc Surg. 2016; In press

PUBLICATION RECORDS

ANDREW
CAMPBELL

1. Campbell: Asghari P, Scriven DR, Sanatani S, Gandhi SK, Campbell AI, Moore ED. Nonuniform and variable arrangements of ryanodine receptors with mammalian ventricular couplons. *Circ. Res.* 2014 Jul 7;115(2):252-62 IMPACT FACTOR:11.089
2. Campbell: Algra SO, Groenedaal F, Schouten ANJ, Jansen NJG, Campbell AIM, Gandhi SG, DeVries LS, McQuellen P, Miller S. Minimizing the risk of pre-operative brain injury in neonates with aortic arch obstruction. *The Journal of Pediatrics*; 11-Oct-2014 (accepted)
3. Campbell: Carreras, Erick M., Duncan, Walter J., Ognjenka Djurdev, Campbell, Andrew I.M. Cardiac Strangulation Following Epicardial Pacemaker Implantation: A Rare Pediatric Complication. *The Journal of Thoracic and Cardiovascular Surgery*; Oct 2014 -14-833R2 (accepted)
4. Campbell: Ronak Rahmanian, Jack Zheng, Neil K Chadha, Frederick K Kozak, Andrew I.M. Campbell, Jeffrey P Ludemann. False carina: A distinct variant of tracheal bronchus. *International Journal of Pediatric Otorhinolaryngology*; Jan 25, 2015

SANJIV
GANDHI

1. Gandhi: Harris K.C., Holowachuk S., Pitfield S., Sanatani S., Froese N.R., Potts J.E., and Gandhi S.K. Early Extubation in Neonates, Infants, and Children Undergoing Surgery for Congenital Heart Disease. *J Thorac Cardiovasc Surg.* 2014; In press
2. Gandhi: Asghari P., Scriven D., Sanatani S., Gandhi S.K., Campbell A.I.M., and Moore E. Dynamic Reorientation of Ryanodine Receptors in Ventricular Couplons. *Circulation Research.* 2014; 115(2): 252-262
3. Gandhi: Algra S.O., Haas F., Poskitt K.J., Groenendaal F., Schouten A.N., Jansen N.J., Azakie A., Gandhi S.K., Campbell A., Miller S.P., McQuillen P.S., and de Vries L.S. Minimizing the Risk of Preoperative Brain Injury in Neonates with Aortic Arch Obstruction. *J Pediatr.* 2014 Dec; 165(6): 1116-1122

BOOK CHAPTERS

SANJIV
GANDHI

1. Gandhi S.K. and Epstein D.J. Ventricular Assist Device Support in Children. In: D.S. Wheeler et al. (eds.), *Pediatric Critical Care Medicine*. London: Springer-Verlag, 2014: 441-451

MISCELLANEOUS PUBLICATIONS

ANDREW
CAMPBELL

1. Campbell: "Cardiac Surgery-Associated Acute Kidney Injury in Neonates [amp] Infants: Comparison of Creatinine and Urine Output Criteria". Poster presentation at the American Society of Nephrology (ASN), ASN Kidney Week 2014 Annual Meeting November 13-16, 2014 Philadelphia, Pennsylvania
2. Campbell: Larkins, N, Campbell AIM, Krahn, G, Skippen, P, Gandhi, S, Mammen, C. Renal Replacement Therapy Following Cardiac Surgery: A Local Review of Outcomes and Renal Recovery. For presentation at the CSN Annual General Meeting from April 23-26, 2014 Vancouver

SANJIV
GANDHI

1. Gandhi: Gandhi S.K. The Hybrid Strategy: Too Little too Early and too Much too Late? (editorial). *J Thorac Cardiovasc Surg.* 2015; 149: 1111
2. Gandhi: It's Not Just a Shunt but Sometimes it Should Be... (editorial). *J Thorac Cardiovasc Surg.* 2015; In press

DIVISION OF PEDIATRIC CARDIOVASCULAR & THORACIC SURGERY

2015-2016

FACULTY MEMBERS:

- *Dr. Andrew I.M. Campbell, Assistant Professor, University of British Columbia*
- *Dr. Sanjiv K. Gandhi, Division Head, Clinical Professor, University of British Columbia*

STAFF MEMBERS:

- *Ms. Allison Jamieson, Research Assistant and Surgical Scheduling Coordinator*
- *Ms. Stephanie Ingham, Office Administrative Assistant*
- *Ms. Tessa Diaczun, NP*
- *Ms. Misty Reis, NP*
- *Ms. Emily Tai, NP*
- *Ms. Lisa Papau, NP*



HIGHLIGHTS AND ACHIEVEMENTS:

Congratulations to Dr. Campbell on being recipient of the A.D. McKenzie Clinical Teaching Award in recognition of outstanding clinical teaching of medical students and residents.

INITIATIVES IN PROGRESS:

- **CAMPBELL:** Peyvandi S, De Santiago V, Chakkarapani E, Chau V, Campbell A, Poskitt KJ, Xu D, Barkovich AJ, Miller S, McQuillen P. Prenatal diagnosis of critical congenital heart disease lowers the risk of pre-operative brain injury and promotes brain development. The Journal of the American Medical Association Pediatrics. 2015 [In Press]
- **GANDHI:** Gandhi S.K. It's Not Just a Shunt but Sometimes it Should Be... (Editorial). J Thorac Cardiovasc Surg. 2015; In press.
- **Gandhi:** Gandhi S.K. Hybridizing the Hybrid Procedure (editorial). J Thorac Cardiovasc Surg. 2016; 151(2): In press.

01

TEACHING ACTIVITIES

FELLOWS SUPERVISED

ANDREW
CAMPBELL

- Dr. Hideyuki Kato – July 1, 2015 – June 30, 2016
- Dr. Ala Al-Lawati – July 1, 2015 – June 30, 2016
- Dr. Merav Dvir-Orgad – cardiology fellow, shadowing – Jun 1-12, 2015 & Jun 22 – 26, 2015

RESIDENTS SUPERVISED

CLINICAL CLERKS YEAR 3

ANDREW
CAMPBELL \
SANJIV
GANDHI

- Pak To Ho, UBC Mar 30 to April 19, 2015
- Clara Westwell-Roper, UBC March 30 to April 12, 2015
- Mihailo Veljovic, UBC July 6 to July 26, 2015
- Deepak Bhangu, UBC August 17 to September 6, 2015
- Ted Wu, UBC September 28 to October 18, 2015
- Elisabeth De Marchi, UBC October 19 to November 8, 2015
- Milan Aspe, UBC November 9 to November 29, 2015
- Krista Dewar, UBC November 30 to December 20, 2015
- Sophia Dhalla, UBC January 25 to February 14, 2016
- Stephanie Wong, UBC February 15 to March 6, 2016
- Ailin Li, UBC March 7 to March 27, 2016

CLINICAL CLERKS YEAR 4

- Tom Woodgate, University College London April 27, 2015 to May 10, 2015
- Aine Goggins, Queen's University of Belfast July 6 to July 31, 2015
- Rhea D'Costa, McMaster University August 3 to August 14, 2015
- Katrina Dutkiewicz, UBC August 17 to August 30, 2015
- Lara Des Roches, UBC September 21 to October 4, 2015
- Kenneth Lee, UBC October 19 to November 1, 2015
- Christine Tong, UBC December 7 to December 20, 2015
- Christina Hodge, Australian National University January 4 to January 29, 2016
- Zeeshanefatema Somji, University of Dundee February 8 to March 6, 2016
- Ryan Uyeno, UBC March 21 to April 3, 2016

01 TEACHING ACTIVITIES con't

STUDENTS SUPERVISED

ANDREW CAMPBELL \ SANJIV GANDHI	• Harjot Bedi, 1st yr UBC medical student	June 18, 2015
	• Ericka Steels, 1st yr UBC medical student	August 5, 2015
	• Ateshia Walker, 2nd yr medical student	September 16, 2015

RESEARCH STUDENTS

ANDREW CAMPBELL \ SANJIV GANDHI	• Erick Carreras - Relationship of Perioperative Variables and Discharge Renal Function in Pediatric Renal Transplantation: A Single-Centre Study
	• Boyuan Zheng - Relationship of Perioperative Variables and Discharge Renal Function in Pediatric Renal Transplantation: A Single-Centre Study
	• Robynn Geier - A Retrospective Review of the Surgical Outcomes of PDA Ligation

FORMAL TEACHING

ANDREW CAMPBELL	• Annual International Symposium on Congenital Heart Disease, St. Petersburg
	• American Association of Thoracic Surgery Annual Meeting, San Francisco
	• American Association of Thoracic Surgery Annual Meeting, Philadelphia
	• American Association of Thoracic Surgery Annual Meeting, San Diego
	• Canadian Cardiovascular Congress Annual Meeting, Toronto
	• PBL Tutoring Workshop, UBC, Vancouver
	• Rodent Biology and Husbandry Course, UBC Animal Care Centre
	• American Association of Thoracic Surgery Annual Meeting
	• American Association of Thoracic Surgery Annual Meeting, Philadelphia
	• International Conference on Residency Education, Quebec City
SANJIV GANDHI	• Lectures on Atrial Septal Defects, Ventricular Septal Defects, Tetralogy of Fallot, Anomalous Pulmonary Venous Drainage, Single Ventricle Physiology, Cardiac Anatomy, Embryology, and Development - Cardiothoracic Residency teaching conferences and Cardiac ICU Nursing conferences
	• Weekly bedside teaching conferences given to cardiology, critical care medicine, and cardiothoracic surgery fellows 2002-present
	• Weekly bedside teaching conferences given to cardiac ICU nurses 2007-present

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

**SANJIV
GANDHI**

- *Invited speaker: Cannulation & Initiating ECLS. ECLS Program 2015 – Training Course For ECLS Specialists & Physicians, BC Children's Hospital, Vancouver BC, May 26, 2015*
- *Invited speaker: Tetralogy of Fallot. Cardiac Education Day, Cardiac PICU Nurses. June 11, 2015*

GRANTING AGENCY	TITLE	YEAR	PI	CO-PI
UBC FACULTY OF MEDICINE'S SUMMER STUDENT RESEARCH PROGRAM (FOM SSRP)	FOLLOWING RENAL TRANSPLANTATION: THE PREDICTIVE VALUE OF PERIOPERATIVE VARIABLES IN A PEDIATRIC POPULATION	2,800	2016	A. CAMPBELL

03 COMMITTEE PARTICIPATION

SERVICE TO THE UNIVERSITY

**ANDREW
CAMPBELL**

- *University of British Columbia Cardiac Surgery Residency Program Committee, Co-Director*
- *Member, UBC Cardiac Surgery Residency Program Committee*
- *Mentor, Careers in Action, Career Counselling Program, Faculty of Medicine, UBC*
- *Careers in Action, Career Counseling Program, Faculty of Medicine, UBC, Mentor*
- *Program Director, Cardiac Surgery Residency and Fellowship Program*

SERVICE TO THE HEALTH PROFESSIONAL AND HEALTH AUTHORITIES

**SANJIV
GANDHI**

- *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*
- *BC Children's Hospital Acute and Critical Care Committee, Member*
- *BC Children's Hospital Clinical Planning and Development Team Committee, Member*
- *BC Institute for Heart and Lung Health Steering Committee, Member*

03 COMMITTEE PARTICIPATION con't

SERVICE TO THE HEALTH PROFESSIONAL AND HEALTH AUTHORITIES

ANDREW
CAMPBELL

- *Credentials Committee, BC Children's Hospital, Member*
- *ECLS Working Group Committee, BC Children's Hospital, Member*
- *Member, Search Committee for Head of Pediatric Cardiac Surgery, BCCH Member, Credentials Committee, BC Children's Hospital*

SERVICE TO THE COMMUNITY

MEMBERSHIPS ON COMMITTEES / SOCIETIES

ANDREW
CAMPBELL

- *Western Canadian Children's Heart Network, Member*
- *Member, Western Canadian Children's Heart Network*

SANJIV
GANDHI

- *American Association of Thoracic Surgery, Member*
- *American Association of Thoracic Surgery Education Committee, Member*
- *Society of Thoracic Surgeons, Member*
- *Congenital Heart Surgeons' Society, Member*
- *Southern Thoracic Surgery Association, Member*
- *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*

SANJIV
GANDHI

REVIEWER

- *Annals of Thoracic Surgery, Guest Reviewer*
- *Journal of Thoracic and Cardiovascular Surgery, Guest Reviewer*
- *Pediatric Cardiology, Guest Reviewer*
- *Pediatric Pulmonology, Guest Reviewer*
- *Pediatric Transplantation, Guest Reviewer*
- *The Journal of Pediatrics, Guest Reviewer*
- *Innovations in Cardiac Surgery, Guest Reviewer*
- *Canadian Journal of Cardiology, Guest Reviewer*
- *Surgical editorial advisor for Pediatric Cardiology*

04 PUBLICATION RECORDS

REFEREED PUBLICATIONS

ANDREW
CAMPBELL

1. Kozak F, Moxham P, Chilvers M, Wensley D, Seear M, Campbell A, Ludemann J. Casting a look at Pediatric Plastic Bronchitis. *International Journal of Pediatric Otorhinolaryngology*. Oct 2015; 79(10) 1658-61. doi 10.1016
2. Dijke IE, Hoeppli R, Ellis T, Pearcey J, Huang Q, McMurphy A, Boer K, Peeters A, Aubert G, Larsen I, Ross D, Rebeyka I, Campbell A, Bean C, Levings M, West L. Discarded Human Thymus Is a Novel Source of Stable and Long-lived Therapeutic Regulatory T Cells. *American Journal of Transplantation*. 2016 Jan; 16(1): 58-71 doi: 10.1111/ajt. 13456
3. Jasinovic T, Kozak F, Moxham P, Chilvers M, Wensley D, Seear M, Campbell A, Ludemann J. Casting a look at pediatric plastic bronchitis. *International Journal of Pediatric Otorhinolaryngology*. July 23, 2015
4. Care of Adults with Congenital Heart Disease. *BC Medical Journal*. September 2016

SANJIV
GANDHI

1. Gandhi S.K. The Hybrid Strategy: Too Little too Early and too Much too Late? (Editorial). *J Thorac Cardiovasc Surg*. 2015; 149: 1111
2. Moodley, S., Duncan W., and Gandhi S.K. Levoatriocardinal Vein in D-Transposition of the Great Arteries. *Cardiology in the Young*. In press.

MISCELLANEOUS PUBLICATIONS

ANDREW
CAMPBELL

1. Hoeppli R, Dijke IE, Huang Q, Campbell A, West L, Levings M. Tailoring Homing Capacity of Thymic Regulatory T Cells by Expansion in Cytokine-enriched Culture Conditions. (ABSTRACT)

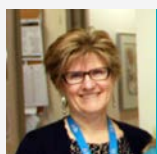


DEPARTMENT OF PEDIATRIC DENTISTRY

2014-2015



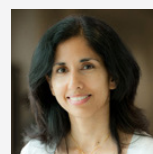
FACULTY MEMBERS:



Dr. Karen Campbell,
Department
Head, Assistant
Professor UBC



Dr. Winnie Zhao



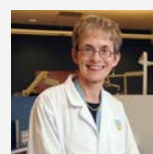
Dr. Kavita Mathu-Muju



Dr. Phoebe Tsang



Dr. Nancy Vertel



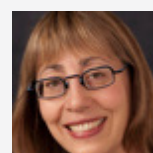
Dr. Rosamund Harrison,
Professor and Head,
Oral Health Sciences
Pediatric Dentistry Chair



Dr. Elsa Hui-Derksen



**Dr. WaSham
Cheung**



Dr. Joy Richman,
Professor UBC

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 Dental anesthesiologist
- **Dr. Sam Chiang**, Consulting orthodontist
- **Dr. Theresa Chiang**, Active pediatric dentist
- **Dr. Ed Chin**, Active pediatric dentist
- **Dr. Jason Choi**, Provisional Active oral and maxillofacial surgeon
- **Dr. Jeff Coil**, Active endodontist
- **Dr. Lisa Coveney**, Active pediatric dentist
- **Dr. Hasnain Dewji**, Active pediatric dentist
- **Dr. Joel Fransen**, Temporary endodontist
- **Dr. Leo Fung**, Provisional consulting prosthodontist
- **Dr. Janice Garrett**, Associate GP
- **Dr. Anita Gartner**, Active pediatric dentist
- **Dr. Geoff Grant**, Provisional active pediatric dentist
- **Dr. Paul Helpard**, Consulting orthodontist
- **Dr. John Hung**, Active, GP
- **Dr. Ben Kang**, Provisional active oral and maxillofacial surgeon
- **Dr. Christine Kim**, Provisional active pediatric dentist
- **Dr. Young Kuah**, Active orthodontist and pediatric dentist
- **Dr. Louisa Leung**, Active pediatric dentist
- **Dr. Angelina Loo**, Active orthodontist
- **Dr. David MacDonald**, Provisional consulting oral radiologist
- **Dr. William McDonald**, Active oral and maxillofacial surgeon
- **Dr. Reza Nouri**, Active pediatric dentist
- **Dr. Carter Ng**, Temporary pediatric dentist
- **Dr. Benjamin Pliska**, Provisional active orthodontist
- **Dr. Gerry Pochynok**, Active pediatric dentist
- **Dr. Paul Pocock**, Active orthodontist
- **Dr. Mark Reichman**, Active oral and maxillofacial surgeon
- **Dr. Bradford Scheideman**, Temporary pediatric dentist
- **Dr. Dorothy Sonya-Hoglund**, Active orthodontist and oral radiologist
- **Dr. Isaac Tam**, Provisional Active pediatric dentist
- **Dr. Tim Tam**, Active pediatric dentist
- **Dr. Priscilla Walsh**, Provisional active periodontist
- **Dr. David Yang**, Provisional associate oral maxillofacial surgeon
- **Dr. Jennifer Yee**, Provisional active pediatric dentist

PAST/CURRENT TRAINEES IN PEDIATRIC DENTISTRY:**CLASS OF 2014**

- **Dr. Ella Choi**
- **Dr. Amin Salmasi**
- **Dr. Johnathan Woo**

CLASS OF 2015

- **Dr. Jennifer Park**
- **Dr. Shan Sun**
- **Dr. Andrew Wong**

CLASS OF 2016

- **Dr. Zina Alkafaji**
- **Dr. Kunal Chander**
- **Dr. Anu Korada**

CLASS OF 2017

- **Dr. Mazin Algahtani**
- **Dr. Nida Amir**
- **Dr. Tila Bahri-Iraei**
- **Dr. Sara Makhdoom**

HIGHLIGHTS AND ACHIEVEMENTS:

DR. WONG

Dr. Andrew Wong (Class of 2015) was awarded the “Keith Titley Graduate Student Research Fellowship” for 2014, based on his peer-reviewed research abstract “Lifelong tooth replacement patterns and the effect of LiCl in the leopard gecko”. His research was carried out in the Richman Lab at Life Sciences Institute, UBC under the supervision of Dr. Joy Richman.

DR. PARK

Dr. Jennifer Park (Class of 2015) was the winner of the CFRI Trainee Research Poster Rounds for her moderated poster presentation in the MSc student category. Her research poster was entitled “An analysis of dental emergencies managed by BC Children’s Hospital”, completed under the supervision of Dr. Karen Campbell.

DR. WOO

Dr. Johnathan Woo (Class of 2014) was the co-winner of the CAPD-3M ESPE Graduate Student Research Award for his presentation entitled “The use of optical projection tomography in evaluating the normal growth of facial prominences in chick embryos” at the September 2014 AGM of the Canadian Academy of Pediatric Dentistry in Montreal, PQ. His research was carried out in the Richman Lab at Life Sciences Institute, UBC under the supervision of Dr. Joy Richman.

DR. HARRISON

Dr. Rosamund Harrison received the BCDA Service Award: for 4 years of Service (2010-14) BCDA Access to Care Committee. Dr. Harrison is also Head, Department of Oral Health Sciences, Faculty of Dentistry, UBC.

DR. RICHMAN

Dr. Joy Richman's post-doc Theresa Grieco was awarded NIH F32 fellowship and her summer research student, Julien Kim (UBC DMD candidate) won the CIHR-IMHA summer research award in 2014.

In March 2015, Dr. Richman advanced from Vice-President to President of the Canadian Association of Dental Research

01 TEACHING ACTIVITIES

GRADUATE STUDENTS SUPERVISED IN 2014-15

PRINCIPAL SUPERVISOR	STUDENT	PROGRAM	YEAR	CO-SUPERVISOR(S)/ COMMITTEE MEMBER
KAREN CAMPBELL	JENNIFER PARK 2015 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTRY	2012-15	ROSAMUND HARRISON RAN GOLDMAN TRACY WONG
KAREN CAMPBELL	MAZIN ALGAHTANI 2017 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTRY	2014-17	MARIO BRONDANI ROSAMUND HARRISON
KAVITA MATHU-MUJU	SHAN SUN 2015 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTRY	2012-15	ROSAMUND HARRISON HEATHER BUSH BRENDA POON
KAVITA MATHU-MUJU	ZINA ALKAFABI 2016 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTRY	2013-16	ROSAMUND HARRISON
JOY RICHMAN	ANDREW WONG 2015 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTRY	2012-15	VIRGINIA DIEWERT
NANCY FORD	ANU KORADA 2016 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTRY	2013-16	JOY RICHMAN VIRGINIA DIEWERT
ADRIANA MANO	KUNAL CHANDER 2016 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTRY	2013-16	KAREN CAMPBELL RICK CARVALHO
ADRIANA MANO	SARA MAHKDOOM 2017 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTR	2014-17	KAREN CAMPBELL RICK CARVALHO
LEANNE DONNELLY	NIDA AMIR 2017 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTR	2014-17	KAVITA MATHU-MUJU
LEANNE DONNELLY	TILA BAHRI IRAEI 2017 CANDIDATE	MSC/DIPLOMA PEDIATRIC DENTISTR	2014-17	KAVITA MATHU-MUJU

DMD STUDENTS SUPERVISED:

PRINCIPAL SUPERVISOR	STUDENT	PROGRAM	YEAR	CO-SUPERVISOR(S)/ COMMITTEE MEMBER
KAREN CAMPBELL	JORDAN CHENG CFRI SUMMER RESEARCH STUDENT	UBC - DMD 2017 CANDIDATE	2014	N/A

01 TEACHING ACTIVITIES con't

OTHER STUDENTS SUPERVISED:

2015 TOTAL CLASS OF 2015 - UBC DMD CANDIDATES – 56 STUDENTS HAD OBSERVATIONAL ROTATIONS TO THE DEPARTMENT FROM SEPTEMBER 2014 TO FEBRUARY 2015

**JOY
RICHMAN**

- *PhD students supervised:*
Adrian Danescu, Sarah Gignac
- *Post-doctoral Fellows Supervised:*
Theresa Grieco, Stephen Drain, Sara Hosseini-Farahabadi, Layne Myhre, John Abramyan

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

**ROSAMUND
HARRISON**

- *Dr. Rosamund Harrison: "Motivational interviewing and vulnerable populations."*
Saskatchewan Dental Assistants Association, Saskatoon, SK April 2014

**KAREN
CAMPBELL**

- *Dr. Karen Campbell: "Pediatric Dentistry - where it all begins" BC Women's & Children's Family Practice Medicine Residents February 2015*

**JOY
RICHMANL**

- *Dr. Joy Richman: Cellular and Physiological Sciences Seminar – "Evo-Devo studies on the teeth and jaws of reptiles", November 2014*
- *Dr. Joy Richman: OPSEI Academic Rounds – "Chicken Little: Using the mighty chicken embryo to unravel the causes of human congenital abnormalities" December 2014*
- *Dr. Joy Richman: Royal Ontario Museum Paleontology research group – "Evo-Devo studies on the teeth and jaws of reptiles", March 2015*

GRANTING AGENCY	TITLE		YEAR	PI	CO-PI
CIHR OPERATING GRANT	KUNGATSIAJUK: SUPPORTING THE HEALTHY SMILES OF NUNATUKAVUT CHILDREN	\$167,000/ YEAR	2011-14	D MARTIN, M MCNALLY, H CASTLEDEN, DALHOUSIE U	R. HARRISON (COLLABORATOR)
CFRI	iACT TRAINEE CLINICAL INVESTIGATOR SEED GRANT	\$5,600	2015	ZOE BROWN	KAREN CAMPBELL, MYLES CASSIDY, DAMIAN DUFFY, TRISH PAGE, DIANE HART, NICK WEST
NIH	PATTERING THE REPTILIAN DENTITION IN 4D	\$47,000 USD	2014	THERESA GRIECO	JOY RICHMAN (SUPERVISOR)

03 COMMITTEE PARTICIPATION

SERVICE TO THE UNIVERSITY

KAREN CAMPBELL	<ul style="list-style-type: none"> • <i>Chair, Admissions committee for Graduate Pediatric Dentistry</i> • <i>Member, UBC CTEC Graduate Studies Committee</i> • <i>Member, Complex Prosthodontics Committee</i> • <i>Ad hoc reviewer for Pediatric Dentistry</i> • <i>Ad hoc reviewer for International Journal of Dentistry</i> • <i>Expert panel member for OASIS project and reviewer for JCanadian Dental Association</i> • <i>Editorial board member and reviewer for Dental Traumatology</i> • <i>Royal College of Dentists of Canada: examiner for Pediatric Dentistry</i>
ROSAMUND HARRISON	<ul style="list-style-type: none"> • <i>Department Head, Oral Health Sciences, UBC: ex officio member for Committees in the Faculty of Dentistry</i>

04 PUBLICATION RECORDS

JOY RICHMAN	<ul style="list-style-type: none"> • <i>Abramyan, J., Thivichon-Prince, B. and Richman, J. M. (2015). Diversity in primary palate ontogeny of amniotes revealed with 3D imaging. J Anat. doi: 10.1111/joa.12291</i>
KAREN CAMPBELL	<ul style="list-style-type: none"> • <i>Campbell, KM: How to manage a traumatically displaced primary incisor. J Can Dent Assoc 2014;80:e63</i>
WASHAM CHEUNG	<ul style="list-style-type: none"> • <i>Woo J, Cheung WS. Bilateral focal mucinosis on the palate of a 2-year-old child: a case report. Int Journal Paed Dent 2015; 24: 70-72</i> • <i>Tam J, Cheung WS, Senger C, Reichman M, Campbell KM. Melanotic neuroectodermal tumour of infancy: a case report. J Can Dent Assoc 2015;81:f7</i>
ROSAMUND HARRISON	<ul style="list-style-type: none"> • <i>Harrison, R. Motivational interviewing (MI) compared to conventional education (CE) has potential to improving oral health behaviors. J Evid Based Dent Pract 14: 2014</i> • <i>Schroth RJ, McNally M, Harrison R. "Pathway to Oral Health Equity for First Nations, Métis, and Inuit Canadians: Knowledge Exchange Workshop". J Can Dent Assoc 80:f1, 2015</i> • <i>Salmasi A, Harrison R, Brondani M: They stole her teeth! An exploration of adults with developmental disability experiences with dental care. Spec Care Dentist 2015 doi:10.1111/scd.12115</i>
CHOI E	<ul style="list-style-type: none"> • <i>Choi E, Ford NL: Measuring absorbed dose for i-CAT CBCT examinations in child, adolescent and adult phantoms. Dentomaxillofacial Radiology 2015(44). Doi: 10.1259/dmfr.20150018</i>

04 PUBLICATION RECORDS con't

MISCELLANEOUS PUBLICATIONS

ROSAMUND
HARRISON

1. Sun S, Bush HM, Harrison R, Poon B, Mathu-Muju KR. *Professional Uncertainty in Providing Dental Care for Special Needs Children. J Dent Res 94 (Spec Iss A) Abstract #4203, 2015*

JOY
RICHMAN

1. Richman, J. *Conversion of maxillary to frontonasal identity involves induction of a secreted protein, Peptidase Inhibitor 15, Gordon Research Conference on Craniofacial Development and Tissue Regeneration, Il Ciocco, Italy, May 1, 2014*
2. Adrian Danescu, Sara Farahabadi-Hosseini, Joy Marion Richman. *Mutant forms of human WNT5A expressed in chicken cause craniofacial defects, Society for Developmental Biology, July 2014*
3. Layne Myhre, Joy Richman. *Differential effects of Wnt proteins on initiation and maintenance of facial cartilage, Society for Developmental Biology, July 2014*
4. Theresa Grieco, Geoffrey Young, Joy Richman. *Jaw-wide dental patterning in the leopard gecko and its modulation by canonical Wnt signaling Society for Developmental Biology, July 2014*
5. Stephen Drain, Suresh Nimmagadda, Joy Richman. *Peptidase Inhibitor 15 protein induces polydactyly in avian embryos via a SHH-independent mechanism Society for Developmental Biology, July 2014*
6. John Abramyan, Joy Richman. *Distinct Pattern of Primary Palate and Nasal Cavity Ontogeny in Reptile Embryos*
7. Andrew C. Wong, Theresa M. Grieco, Joy M. Richman. *Tooth replacement patterns and the effect of LiCl in the leopard gecko (Eublepharis macularius) Society for Developmental Biology, July 2014*
8. Richman, J. M., T. Grieco and A. Wong. *Regulation of tooth initiation, eruption and replacement in the gecko. IADR, Boston, March 2015, Oral presentation and session chair*

INITIATIVE IN
PROGRESS:**K. CAMPBELL: Current research projects in Dentistry:**

- Co-investigator: "Study to examine the effects of Child Life Interventions on children's anxiety levels at induction of anesthesia"
- Principal investigator: "An analysis of dental emergency cases managed by the Department of Dentistry, BC Children's Hospital"
- Principal Investigator: "Dental care beyond BC Children's Hospital: The transition experience for young adults with special health care needs"
- Clinical Audit: "A closer look at a year of GA cases completed by Dentistry"

DEPARTMENT OF PEDIATRIC DENTISTRY

2015-2016

01 TEACHING ACTIVITIES

PAST/CURRENT TRAINEES IN PEDIATRIC DENTISTRY:

CLASS OF 2018

- *Dr. Alwaleed Abushanan*
- *Dr. Charis Luk*
- *Dr. Don He*
- *Dr. Randa Soussou*

CLASS OF 2017

- *Dr. Mazin Algahtani*
- *Dr. Nida Amir*
- *Dr. Tila Bahri-Iraei*
- *Dr. Sara Mahkdoom*

DSATP 2017

- *Dr. Jon Campbell*

DSATP 2016

- *Dr. Kanwar Sadana*

CLASS OF 2016

- *Dr. Zina Alkafaji*
- *Dr. Kunal Chander*
- *Dr. Anu Korada*

CLASS OF 2015

- *Dr. Jennifer Park*
- *Dr. Shan Sun*
- *Dr. Andrew Wong*

CLASS OF 2014

- *Dr. Ella Choi*
- *Dr. Amin Salmasi*
- *Dr. Jonathan Woo*

CLASS OF 2013

- *Dr. Carter Ng*
- *Dr. Nancy Vertel*
- *Dr. Winnie Zhao*

RESIDENTS SUPERVISED 2015-16 | UBC MSC IN CRANIOFACIAL SCIENCE CANDIDATES:

PRINCIPAL SUPERVISOR	STUDENT	TITLE	CO-INVESTIGATORS
KAREN CAMPBELL	JENNIFER PARK	AN ANALYSIS OF DENTAL EMERGENCY CASES MANAGED AT BC CHILDREN'S HOSPITAL	T. WONG, R. GOLDMAN, R. HARRISON
A. MANSO	KUNAL CHANDER	EFFECT OF ARTIFICIAL SALIVA AGING ON DENTIN SHEAR BOND STRENGTH FLEXURAL STRENGTH AND DIAMETRAL TENSILE STRENGTH OF RESTORATIVE GLASS IONOMER CEMENTS	R. CARVALHO, K. CAMPBELL
KAREN CAMPBELL	MAZIN ALGAHTANI		M. BRONDANI, R. HARRISON
KAREN CAMPBELL	SARA MAKHDOOM	EFFECT OF LIGHT CURING SYSTEMS ON BULK CURE COMPOSITE MATERIALS	R. CARVALHO, K. CAMPBELL
M. BRONDANI	ALWALEED ABUSHANAN	PEDIATRICIAN KNOWLEDGE ABOUT INFANT ORAL HEALTH	K. CAMPBELL Q. DOAN

01 TEACHING ACTIVITIES con't

POST-DOCS STUDENTS:

SUPERVISOR	STUDENT	DURATION
JOY RICHMAN	JOHN ABRAMYAN	SEPTEMBER 2011 - AUGUST 2015 *NIH F32 PDF AWARD
JOY RICHMAN	THERESA GRIECO	JANUARY 2014 – PRESENT **NIH F32 AWARD JANUARY 2015
JOY RICHMAN	KIRSTIN BRINK	OCTOBER 2015 – SEPTEMBER 2018 *KILLAM AND MSFHR POSTDOCTORAL FELLOW

UBC PHD STUDENTS:

PRINCIPAL SUPERVISOR	STUDENT	TITLE	DURATION
JOY RICHMAN C. ROSKELLY P. HOODLESS C. ROBERTS	ADRIAN DANESCU	WNT SIGNALING AND THE CONTROL OF FACIAL MORPHOGENESIS	SEPT. 2012 – PRESENT *CIHR-CGS-D AWARD 2016-2013
JOY RICHMAN T.M. UNDERHILL J. KOPP T. O'CONNER	SARAH GIGNAC	THE ROLE OF NON-CANONICAL WNT SIGNALING IN LIMB DEVELOPMENT	SEPT. -2014 PRESENT **4 YEAR FELLOWSHIP SEPT. 2015

UBC MSC STUDENTS:

PRINCIPAL SUPERVISOR	STUDENT	TITLE	DURATION
JOY RICHMAN V. DIEWERT C. GREGORY EVANS	ANDREW WONG	LONGITUDINAL STUDIES OF TOOTH ERUPTION IN GECKOS	SEPT. 2012 – AUGUST 2015
JOY RICHMAN N.FORD V. DIEWERT	ANU KORADA	HUMAN SKULL DEVELOPMENT	SEPT. -2013AUGUST 2016
JOY RICHMAN B. PLISKA V. DIEWERT	CARLY DOOL	HUMAN PALATE DEVELOPMENT	JUNE 2014 –AUGUST 2016

01 TEACHING ACTIVITIES con't

UBC MSC STUDENTS con't:

PRINCIPAL SUPERVISOR	STUDENT	TITLE	DURATION
KAVITA MATHU-MUJU	SHAN SUN	ACCESS TO CARE FOR CHILDREN WITH SPECIAL HEALTH CARE NEEDS IN BRITISH COLUMBIA	H. BUSH, B. POON, ROSAMUND HARRISON
KAVITA MATHU-MUJU	ZINA ALKAFABI	RETROSPECTIVE REVIEW AND COMPARISON OF UBC ORAL SEDATION PROTOCOLS WITH OTHER GRADUATE TRAINING PROGRAMS	ROSAMUND HARRISON
NIDA AMIR	NIDA AMIR	QUALITATIVE ANALYSIS OF CHILDHOOD DENTAL CARE EXPERIENCES OF INCARCERATED WOMEN IN BC	KAVITA MATHU-MUJU
L. DONNELLY	TILA BAHRI	SURVEY OF DENTAL HEALTH OF CHILDREN OF INCARCERATED WOMEN IN BC	KAVITA MATHU-MUJU
KAVITA MATHU-MUJU	CHARIS LUK	EFFECT OF PREOPERATIVE INTERVENTION IN REDUCING THE PARENT AND CHILD'S ANXIETY FOR ORAL SEDATION	ROSAMUND HARRISON, S. SUN
J. ALEKSEJUNIENE	RANDA SOUSSOU	WAITING-ROOM BASED DENTAL HEALTH PROMOTION FOR CAREGIVERS AT UBC	ROSAMUND HARRISON KAVITA MATHU-MUJU

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

SUN S	<ul style="list-style-type: none"> "BC General Dentists' ability to provide care to children with special health care needs" CAPD Annual General Meeting, Halifax NS September 2015
PARK J	<ul style="list-style-type: none"> "The 'W5' of pediatric hospital dental emergencies: A quantitative and qualitative analysis" CAPD Annual General Meeting, Halifax NS September 2015
CHEUNG WS	<ul style="list-style-type: none"> "Soft tissue lesions" UBC Graduate Orthodontics program - November 16, 2015
KAREN CAMPBELL	<ul style="list-style-type: none"> "Pediatric Dentistry - where it all begins" Pediatric Family Medicine Residents - Feb 2016 "Pediatric Dentistry - Partners in care" Hem/Onc Academic Rounds - Feb 2016 Campbell KM & Class of 2017: "Dentistry for pediatric transplant patients" - Multi-organ transplant rounds - Feb 2016

02

SCHOLARLY & PROFESSIONAL ACTIVITIES cont

GRANTING AGENCY	TITLE		YEAR	PI	CO-PI
CIHR	BIOLOGICAL MECHANISMS TO INCREASED RISK OF CLEFTING	639,005	2012-2017	J RICHMAN	N FORD
FRANCE CANADA RESEARCH FOUNDATION	UNLIMITED TOOTH REPLACEMENT IN CROCODILIAN EMBRYOS	12,000	2015- 2016	J RICHMAN	FRANCE – CANADA COLLABORATION
FOUNDATION	EMBRYOS	312,870	2011-2016	J Richman	

04

PUBLICATION RECORDS

REFEREED PUBLICATIONS

JOY
RICHMAN

1. Danescu A, Mattson M, Dool C, Diewert V.M, Richman J.M.(2015). Analysis of human soft palate morphogenesis supports regional regulation of palatal fusion. *Journal of Anatomy*. 227: 474-486
2. Nimmagadda S.N*, Buchtová M*, Fu K, Geetha-Loganathan P, Hosseini-Farahabadi S, Trachtenberg A, Kuo WP, Vesela I, Richman J.M, *First two authors contributed equally.(2015). Identification and functional analysis of novel facial patterning genes in the duplicated beak chicken embryo. *Developmental Biology*. 407: 275-288
3. Abramyan J, Richman JM. (2015). Recent insights into the morphological diversity in the amniote primary secondary palates. *Developmental Dynamics*. 244: 1457-1468a
4. Abramyan J, Thivichon-Prince B, Richman JM. (2015). Diversity in primary palate ontogeny of amniotes revealed with 3D imaging. *J of Anatomy*. 226: 420-433

MAH TSANG

1. Mah J, Tsang P. Visual schedule system in dental care for patients with Autism. *J Clin Ped Dent* 2016;40 (5); 259-65

TAM J,
CHEUNG
WS, KAREN
CAMPBELL

1. Tam J, Cheung WS, Senger C, Reichman M, Campbell KM. Melanotic neuroectodermal tumour of infancy: a case report. *J Can Dent Assoc* 2015 (April); 81: f7

SUN S,
CHEUNG WS

1. Sun S, Cheung WS. Congenital granular cell epulis: a case report. *Oral Health* 2016 (January); 8 - 10

04

PUBLICATION RECORDS con't

SUN S,
MATHU-
MUJU K,
HARRISON R

1. Sun S, Mathu-Muju K, Harrison RL, Poon B. BC General Dentists' Ability to Provide Care to Children with Special Health Care Needs. BCDA Publications, February 2016.

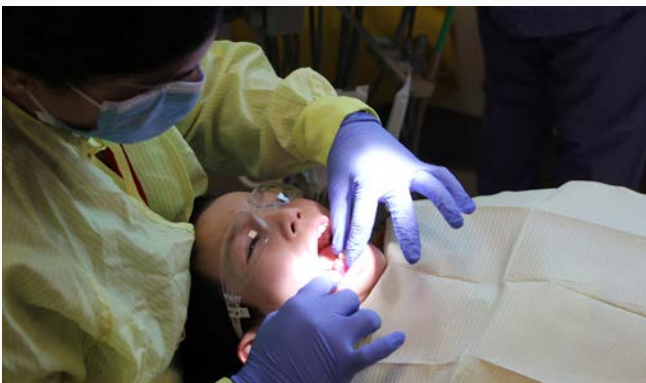
KAVITA
MATHU-
MUJU

1. Mathu-Muju KR, Li HF, Nam LH, Bush HM. Visualizing the Comorbidity Burden in Children with Autism Spectrum Disorder Receiving Dental Treatment under General Anesthesia. *Pediatric Dentistry*. Volume 38 (2), Mar/Apr 2016, pp. 217-222
2. Mathu-Muju KR, Mcleod J, Walker ML, Chartier M, Harrison RH. The Children's Oral Health Initiative: An Intervention to Address the Challenges of Early Childhood Caries in Canada's First Nations and Inuit Communities. *Can J Public Health* 2016;107(2):e188-e193 doi: 10.17269/CJPH.107.5299
3. Mathu-Muju KR, Friedman JW, Nash DA. Current Status of Adding Dental Therapists to the Oral Health Workforce in the United States. *Curr Oral Health Rep* (2016) 3:147-154. DOI 10.1007/s40496-016-0091-1
4. Mathu-Muju KR. Declarative Title: There is High Patient Acceptance of Care Provided by Dental Auxiliaries and Students. *Journal of Evidence Based Dental Practice*. (2016), doi:10.1016/j.jebdp.2016.09.004

MISCELLANEOUS PUBLICATIONS

JOY
RICHMAN

1. Richman J.M, Hosseini-Farahabadi S, Gignac S, Danescu A. (2016). Using the chicken embryo to model autosomal dominant Robinow Syndrome. Gordon Research Conference on Craniofacial Development and Tissue Engineering, Poster presentation, March 2016.
2. Danescu A, and Richman J.M. (2016) Intrinsic mechanisms of facial narrowing. Gordon Research Conference on Craniofacial Development and Tissue Engineering, Poster presentation, March 2016
3. Grieco T, Richman J.M. (2016) Experimental perturbation of tooth renewal in the gecko. Gordon Research Conference on Craniofacial Development and Tissue Engineering, Poster presentation, March 2016



DIVISION OF PEDIATRIC NEUROSURGERY

2014-2015



FACULTY MEMBERS:

Dr. Doug Cochrane, Division Head, Professor Emeritus UBC



Dr. Ash Singhal, Clinical Assistant Professor, UBC



Dr. Paul Steinbok, Professor UBC

STAFF MEMBERS:

- ***Ms. Helen McGregor, Administrative Manager***
- ***Mr. Ross Hengel, Research Coordinator***
- ***Dr. Vesna Popovska, Research Manager***

HIGHLIGHTS AND ACHIEVEMENTS:

THIS YEAR (2015 – 2014) WITNESSED SIGNIFICANT ACADEMIC AND PEDAGOGICAL CONTRIBUTIONS BY THE DEPARTMENT OF PEDIATRIC NEUROSURGERY. AMONG OTHERS:

DEPARTMENT

The Neurosurgery department trained three undergraduate summer students and three post-graduate students in 2014. In doing so, the department provided well over 200 hours of trainer contact in the year.

DR. STEINBOK

Dr. Steinbok supervised and generated the idea that won the Raimondi Award for best paper published by a young neurosurgeon. This was for his work with Tu and Tamburrini on the Management of post-operative pseudomeningoceles.

DR. COCHRANE

In addition to direct student training, the division of neurosurgery, through ***Dr. Doug Cochrane*** was involved in several curriculum innovation efforts. Curriculum renewal was carried out for BC Patient Safety and Quality, the curriculum of the Physician Leadership program (Sauder School of Business) was revised along with the creation of the Board and Executive Learning series (BC Patient Safety and Quality Council).

01 TEACHING ACTIVITIES

PEDIATRIC NEUROSURGERY:

FELLOWS SUPERVISED

- Christopher Bonfield, Fellow BCCH. Jul-Dec 2014

RESIDENTS SUPERVISED

- Albert Tu, Resident UBC
- Navid Khezri, Resident UBC
- Dr Steinbok Administered oral exams to residents in Oct 2014

STUDENTS SUPERVISED

- Thomas Lou, Summer student – Detection of radiopaque markers on plain radiographs
- Cassandra Yoon, Summer student – Ureaplasma shunt infection
- Elizabeth Sayson, Summer student – ophthalmological outcomes associated with treatment of pineal tumors in children

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

DOUG COCHRANE

- Jun: Using Data for system quality and safety: Peer review in diagnostic imaging in BC. CIHI eHealth Symposium on data for quality and safety. CIHI – COACH symposium
- Oct: A comparison of prophylactic and symptomatic detethering of patients with lumbosacral lipomas in a modern era. CNS Pediatric Section. Tu A, Hengel R, Cochrane D. Boston, MA
- Jun: Wound complications in lipomyelomeningocele treatment: the BC Children's Hospital's experience 1986-2012, SRHSB. Uppsala, Sweden
- Jun: Radiographic predictors of early versus late clinical deterioration in lumbosacral lipomas. SRHSB. Uppsala, Sweden
- Jun: A comparison of prophylactic and symptomatic detethering of patients with lumbosacral lipomas in a modern era. SRHSB. Uppsala, Sweden
- Jun: Shunt infection caused by Ureaplasma. Case Discussion, Preconference. SRHSB. Uppsala, Sweden
- Jun: Multiple shunt failures – psoriasis, cochlear implant and post CPC hemiparesis. Case Discussion, Preconference. SRHSB. Uppsala, Sweden
- Sept: Shunt and tethered cord. What the Spinal Cord Clinic is on the lookout for. Spina Bifida and Hydrocephalus Association of Canada. Vancouver, BC
- Oct: Life after the Spina Bifida Clinic. Spina Bifida and Hydrocephalus Association of Canada, Vancouver, BC
- Oct: A comparison of prophylactic and symptomatic detethering of patients with lumbosacral lipomas in a modern era.. Tu A, Hengel R, Cochrane D. CNS Pediatric Section Boston, MA
- Oct: Radiographic Predictors of Early and Late Deterioration in Lumbosacral Lipomas. Tu A, Hengel R, Cochrane D. Boston, MA
- Nov: A Comparison of Prophylactic and Symptomatic Detethering of Patients. with Lumbosacral Lipomas in a Modern Era. Tu A, Hengel R, Cochrane D. ISPN, Rio de Janeiro, Brazil

02

SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

PAUL
STEINBOK

- *May 24-25, 2014: 4th Annual North American Regional Caribbean Congress on Epilepsy (NARCCE) – St. Lucia. Epilepsy surgery in children*
- *May 26 –30, 2014: ESPN course – Birmingham, UK. 1) Tectal tumours 2) Medical treatment of spasticity 3) Selection for SDR and ITB 4) Videos – SDR, pineal tumor*
- *Oct 9-10, 2014: Invited faculty - ISPN course, Tokyo, Japan: 1) Craniosynostosis classification and work-up 2) Long term outcomes for craniopharyngioma 3) Spinal dysraphism case presentations*
- *Oct 16-17, 2014: Invited faculty - ISPN course, Bhubaneswar, India: 1) Indications and techniques for SDR and intrathecal baclofen 2) Cerebellar astrocytoma 3) Diagnosis and work up of posterior fossa tumours 4) Spinal cord tumour – video session 5) Posterior fossa tumour case presentations 6) Moya Moya syndrome 7) Intracranial cavernomas case presentations*
- *Oct 16-17, 2014: Invited speaker – Indian pediatric neurosurgical society annual meeting, Bhubaneswar, India. Occult tethered cord syndrome*
- *Nov 9, 2014: Invited faculty - ISPN pre-congress course on neuro-oncology -. 1. Surgical management of cerebellar astrocytoma and hydrocephalus 2. Case presentation – posterior fossa tumor*
- *Dec 4-5, 2014: Invited faculty – Comprehensive Clinical Neurosurgery Review. Krakow, Poland 1) Brain tumors in children 2) Hydrocephalus 3) Pineal region tumors 4) Case selection for rhizotomy 5) Oral exams –sessions on 3 different topics – posterior fossa tumors, suprasellar arachnoid cyst and skull lesions*

GRANTING AGENCY	TITLE		YEAR	PI	CO-PI
CIHR	SURGERY QUALITY OUTCOME REPORTS (SQORS): LOW-COST EVALUATION AND SPREAD OF A SURGERY OUTCOMES IMPROVEMENT PROGRAM. CIHR (PHE PARTNERSHIPS FOR HEALTH SYSTEM IMPROVEMENT, HEALTH SERVICES AND POLICY RESEARCH, HEALTH SYSTEMS/SERVICES)	C 399,500	2014-2017	PRESTON R	PRESTON R, COCHRANE DD, BLACKBURN DF, DORMUTH CR, MACLURE M, MARCELLUS LM.
SPINA BIFIDA AND HYDROCEPHALUS ASSOCIATION OF CANADA	MANAGEMENT OF LUMBOSACRAL LIPOMA AT BCCH	C 4,485	2014	COCHRANE D	ROSS HENGEL
PCORI	A RANDOMIZED CONTROLLED TRIAL OF ANTERIOR VERSUS POSTERIOR ENTRY SITE FOR CSF SHUNT INSERTION	C 1,788,173	2014-2017	WHITEHEAD	HCRN INVESTIGATORS
UBC TEACHING AND LEARNING ENHANCEMENT FUND	EVALUATING UBC STUDENT ACHIEVEMENT IN THE SUMMER RESEARCH PROGRAM	C 14,832	2015	ASH SINGHAL	N/A

03 COMMITTEE PARTICIPATION

DOUG COCHRANE

- *Alberta Children's Hospital Foundation, Referee for Grants*
- *Alpha Omega Alpha Honor Medical Society 1975 - present*
- *American Journal of Sports Medicine, Referee for Articles*
- *British Columbia Patient Safety Taskforce, PHSA, Member*
- *Canadian Journal of Neurosurgical Sciences, Referee for Articles and Books*
- *Canadian Medical Protective Association 1975 - present*
- *Hydrocephalus Clinical Research Network, Advisory Committee*
- *Institute of Patient Safety, University of Toronto, Advisory Board Member*
- *International Infant Hydrocephalus Study, Data Management Committee*
- *Management of Myelomeningocele Study, Outcome Review Committee*
- *Medical Research Council of Canada, Referee for Grants*
- *Neurosurgery, Referee for Articles*
- *Patient Safety and Quality Officers*
- *Pediatric Neurosurgery, Referee for Articles*
- *Provincial Surgical Services Committee, PHSA, Member*
- *Spina Bifida Association of Canada, Referee for Grants*
- *Stereotactic Operations Working Group, BCCA, Member*
- *Stereotaxic Rediosurgery Team, BCCH, Member*
- *UBC Resident Education Committee, Division of Neurosurgery, Member*
- *University of Toronto Centre for Patient Safety, Board Member*
- *Reviewer: Canadian Journal of Neurosurgical Sciences, Pediatric Neurosurgery, Alberta Children's Hospital Foundation, Medical Research Council of Canada, American Journal of Sports Medicine, Neurosurgery*

JOHN KESTLE

- *American Board of Pediatric Neurosurgery, Director*
- *Child's Nervous System, Editorial Board*
- *Hydrocephalus Clinical Research Network, Chair*
- *International Infant Hydrocephalus Study, Data Management Committee*
- *Journal of Neurosurgery: Pediatrics, Editorial Board*
- *Management of Myelomeningocele Study, Outcome Review Committee*
- *UBC Resident Education Committee, Division of Neurosurgery, Member*

03

COMMITTEE PARTICIPATION con't

**ASH
SINGHAL**

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

**PAUL
STEINBOK**

- *BCCH Foundation, Finance Committee Member*
- *BCMA Tariff Committee, Member*
- *Brain Tumor Group, BCCA , Member*
- *Canadian Journal of Neurological Sciences, Reviewer*
- *Canadian Patient Safety Institute Board -Chair*
- *Childs Nervous System, Reviewer, Editorship*
- *Child Health Executive Council, BCCH, Member*
- *Children's Cancer Study, BCCA , Neurosurgical Representative*
- *Division of Neurosurgery, BCCH, Head*
- *International Society for Pediatric Neurosurgery, Executive Committee Member*
- *International Society for Pediatric Neurosurgery, President elect – became President*
- *Journal of Cerebral, Section Editor*
- *Journal of Neurological Sciences (Turkish), Editorship*
- *Journal of Pediatric Neurosciences (Indian), Editorship*
- *Medical Advisory Board member – Best Doctors of Canada*
- *Neurosciences Patient Based Care Unit, BCCH, Medical Director*
- *Neurosurgery Resident Education Committee, UBC, Member*
- *Neurosurgery, Reviewer*
- *November 2010*
- *Pediatrics, Reviewer*
- *Pediatric Neurosurgery Guide, Section Editor*

PUBLICATION RECORDS

REFEREED PUBLICATIONS

ASH
SINGHAL

1. Singhal A, Hengel AR. *Neurointensive Care for Head Injuries. In: Pediatric Neurosurgery Tricks of the Trade* (Cohen, A. eds). Thieme Publishers. New York, 2014
2. Beca J, McSharry B, Erickson S, Yung M, Schibler A, Slater A, Wilkins B, Singhal A, Williams G, Sherring C, Butt W; Pediatric Study Group of the Australia and New Zealand Intensive Care Society. *Hypothermia for Traumatic Brain Injury in Children-A Phase II Randomized Controlled Trial. Crit Care Med.* 2015 Mar 23. [Epub ahead of print]

PAUL
STEINBOK

1. Sharma J, Bonfield C, Hukin, J, Singhal A, Steinbok P: Intracystic interferon- α treatment leads to neurotoxicity in craniopharyngioma: A case report and review of the literature. *J Nsurg Pediatrics*: 2015 in press
2. Long-term outcome after selective dorsal rhizotomy in children with spastic cerebral palsy. Ailon T, Beauchamp R, Miller S, Mortenson P, Kerr JM, Hengel AR, Steinbok P. *Dev Med Child Neurol* 2015 Mar;31(3):415-23. doi: 10.1007/s00381-015-2614-9. Epub 2015 Jan 14
3. Kerr, JM, Ukpeh, H, Steinbok P: Spinal extradural arachnoid cyst presenting as recurrent abdominal pain. *Child Nerv, Syst.* 2015 Mar 31 [epub ahead of print]
4. Bonfield, C; Sharma C; Singhal A; Cochrane D; Steinbok P: Minimizing Blood Transfusions in the Surgical Correction of Craniosynostosis: a Single Center Experience. AANS/CNS Pediatric Section Meeting Amelia Island, USA December 2014
5. Tu A, Tamburrini G, Steinbok P: Management of postoperative pseudomeningoceles: an international survey study. *Child Nerv. Syst.* 2014 30 (11) 1791-801

DOUG
COCHRANE

1. Van Dijk M., Muniak AM, Cochrane D, Hamilton A, Schwarz S, O'Connor P, & Sahjpaul R. (2014). What would I want for my surgery? *Canadian Journal of Surgery*, 57(4), E147-E147" (Urbach et al. (2014)

MISCELLANEOUS PUBLICATIONS

PAUL
STEINBOK

1. Letter to Editor: Steinbok P Incidental Findings on Preoperative Computed Tomography for Nonsyndromic Single-Suture Craniosynostosis by Magge et al. *J Craniofac Surg.* 2015 Jan;26(1):328-9
2. Letter to Editor: Steinbok P Healing calvarial eosinophilic granuloma or healing skull fracture? *Childs Nerv Syst.* 2015 Apr [Epub ahead of print]
3. Conference Proceeding: Steinbok P, Gopalikrishnan CV, Hengel R, Vitali A, Hukin J: Bilateral thalamic gliomas in the MRI era: Canadian experience. *Child Nerv System* 2014; 30:1931
4. Conference Proceeding: Tu, A; Tamburrini G; Steinbok P: Pseudomeningoceles – What should we do? ISPN annual meeting, Rio de Janeiro, Brazil November 2014

DEPARTMENT OF PEDIATRIC NEUROSURGERY

2015-2016

FACULTY MEMBERS:



Dr. Patrick McDonald,
Division Head, Associate
Professor UBC



Dr. Ash Singhal,
Clinical Assistant Professor, UBC



Dr. Paul Steinbok,
Professor UBC



Dr. Doug Cochrane,
Professor Emeritus UBC

STAFF MEMBERS:

- **Ms. Helen McGregor,** Administrative Manager
- **Mr. Alexander Cheong,** Research Coordinator
- **Dr. Vesna Popovska,** Research Manager

HIGHLIGHTS AND ACHIEVEMENTS:

THIS YEAR (2016-2015) WITNESSED CONTINUED CONTRIBUTIONS IN RESEARCH, TEACHING AND LEADERSHIP IN THE DIVISION OF PEDIATRIC NEUROSURGERY. THESE INCLUDE:

DR. MCDONALD

Dr. Patrick McDonald assumed the role of Division Head for Pediatric Neurosurgery in January 2016. Dr. McDonald joined the Division after heading the Pediatric Neurosurgery Program at Winnipeg Children's Hospital for 14 years.

DR. SINGHAL

Dr. Ash Singhal continued to lead the Trauma Program at BC Children's Hospital, receiving Canada's first award of Distinction from Accreditation Canada

DR. STEINBOK

Dr. Paul Steinbok received the University of the West Indies Vice Chancellor's Award. This prestigious award is given to people of Caribbean heritage who have made significant contributions within their organizations and communities. pseudomeningoceles.

DR. COCHRANE

After a distinguished 30 year career in pediatric neurosurgery, including terms as the Head of Surgery and Head of Pediatric Neurosurgery at BC Children's as well as Chair of the BC Patient Safety and Quality Council, among many other leadership roles, **Dr. Douglas Cochrane** left BC Children's to assume a position in neurosurgery at the Hospital for Sick Children in Toronto.

01 TEACHING ACTIVITIES

PEDIATRIC NEUROSURGERY:

FELLOWS SUPERVISED	<ul style="list-style-type: none"> • Christopher Bonfield, Fellow BCCH. Jun-2014 – Jun 2015 • Sudheesh Ramachandran, Fellow BCCH. Jun 2015 – Jun 2016 • Julia Radic, Fellow BCCH. Jun 2015 – Present
RESIDENTS SUPERVISED	<ul style="list-style-type: none"> • Navid Khezri, Resident UBC • Danny Mendelsohn, Resident UBC • Tasha-Kay WalkerPalmer, Resident University of West Indies
STUDENTS SUPERVISED	<ul style="list-style-type: none"> • David Mo, Summer student – Assessment of trauma team leader characteristics • Jennifer Liang, Summer student – Evaluating student achievement in summer research programs at BCCH • Monique Marguerie, Summer student – Review of ventricular shunting for hydrocephalus • Bryan Renne, Summer student – Review of mutism cases after posterior fossa tumor resection in children

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE		YEAR	PI	CO-PI
CIHR	SURGERY QUALITY OUTCOME REPORTS (SQORS): LOW-COST EVALUATION AND SPREAD OF A SURGERY OUTCOMES IMPROVEMENT PROGRAM. CIHR (PHE PARTNERSHIPS FOR HEALTH SYSTEM IMPROVEMENT, HEALTH SERVICES AND POLICY RESEARCH, HEALTH SYSTEMS/SERVICES)	399,500	2014-2017	PRESTON R	PRESTON R, COCHRANE DD, BLACKBURN DF, DORMUTH CR, MACLURE M, MARCELLUS LM
PCORI	A RANDOMIZED CONTROLLED TRIAL OF ANTERIOR VERSUS POSTERIOR ENTRY SITE FOR CSF SHUNT INSERTION	1,788,173	2014-2017	WHITEHEAD	PATRICK MCDONALD
UBC TEACHING AND LEARNING ENHANCEMENT FUND	EVALUATING UBC STUDENT ACHIEVEMENT IN THE SUMMER RESEARCH PROGRAM	14,832	2015	ASH SINGHAL	
NIH	THE INVESTIGATION OF SEVERAL NOVEL BIOMARKERS IN THE MANAGEMENT AND TREATMENT OF CSF SHUNT INFECTION	2,043,343	2016-2022	SIMON, T	PATRICK MCDONALD

03

COMMITTEE PARTICIPATION

**DOUG
COCHRANE**

- *Alberta Children's Hospital Foundation, Referee for Grants*
- *Alpha Omega Alpha Honor Medical Society 1975 - present*
- *American Journal of Sports Medicine, Referee for Articles*
- *British Columbia Patient Safety Taskforce, PHSA, Member*
- *Canadian Journal of Neurosurgical Sciences, Referee for Articles and Books*
- *Canadian Medical Protective Association 1975 - present*
- *Hydrocephalus Clinical Research Network, Advisory Committee*
- *Institute of Patient Safety, University of Toronto, Advisory Board Member*
- *International Infant Hydrocephalus Study, Data Management Committee*
- *Management of Myelomeningocele Study, Outcome Review Committee*
- *Medical Research Council of Canada, Referee for Grants*
- *Neurosurgery, Referee for Articles*
- *Patient Safety and Quality Officers*
- *Pediatric Neurosurgery, Referee for Articles*
- *Provincial Surgical Services Committee, PHSA, Member*
- *Spina Bifida Association of Canada, Referee for Grants*
- *Stereotactic Operations Working Group, BCCA, Member*
- *Stereotaxic Rediosurgery Team, BCCH, Member*
- *UBC Resident Education Committee, Division of Neurosurgery, Member*
- *University of Toronto Centre for Patient Safety, Board Member*
- *Reviewer: Canadian Journal of Neurosurgical Sciences, Pediatric Neurosurgery*
- *Alberta Children's Hospital Foundation, Medical Research Council of Canada, 23. American Journal of Sports Medicine, Neurosurgery*

**PATRICK
MCDONALD**

- *Canadian Neurosurgical Society- Secretary Treasurer*
- *Canadian Bioethics Society- Board of Directors*
- *UBC National Core for Neuroethics- Faculty Member*
- *Canadian Journal of Neurological Sciences- Editorial Board*
- *Canadian Journal of Neurological Sciences- Reviewer*
- *Canada Research Chairs Program- College of Reviewers*
- *Canadian Neurosciences Federation- Scientific Program Committee- Annual Congress*

03 COMMITTEE PARTICIPATION con't

ASH SINGHAL

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

PAUL STEINBOK

- *BCCH Foundation, Finance Committee Member*
- *BCMA Tariff Committee, Member*
- *Brain Tumor Group, BCCA, Member*
- *Canadian Journal of Neurological Sciences, Reviewer*
- *Canadian Patient Safety Institute Board -Chair*
- *Childs Nervous System, Reviewer, Editorship*
- *Child Health Executive Council, BCCH, Member*
- *Children's Cancer Study, BCCA, Neurosurgical Representative*
- *Journal of Neurological Sciences (Turkish), Editorship*
- *Journal of Pediatric Neurosciences (Indian), Editorship*
- *Medical Advisory Board member – Best Doctors of Canada*
- *Neurosciences Patient Based Care Unit, BCCH, Medical Director*
- *Neurosurgery, Reviewer*
- *November 2010*
- *Pediatrics, Reviewer*
- *Pediatric Neurosurgery Guide, Section Editor*



PUBLICATION RECORDS

REFEREED PUBLICATIONS

DOUGLAS
COCHRANE

1. Luo WT, Almack R, Mawson JB, Cochrane DD. Radiographic Detectability of Retained Neuropatties in a Cadaver Model. *World neurosurgery*. 2015 Aug 31;84(2):405-11
2. Hankinson EV, Lyons CJ, Hukin J, Cochrane DD. Ophthalmological outcomes of patients treated for pineal region tumors. *Journal of Neurosurgery: Pediatrics*. 2016 May;17(5):558-63

PAUL
STEINBOK

1. Steinbok P. Craniopharyngioma in Children: Long-term Outcomes. *Neurologia medico-chirurgica*. 2015 Sep;55(9):722
2. Steinbok P, Durity F, Kestle J, Cochrane DD. Pediatric neurosurgery at British Columbia's Children's Hospital. *Child's Nervous System*. 2015 Sep 1;31(9):1419-27
3. Steinbok P, Zerah M. Editorial for annual special issue on posterior fossa tumors. *Child's Nervous System*. 2015 Oct 1;31(10):1659.
4. Steinbok P, Gopalakrishnan CV, Hengel AR, Vitali AM, Poskitt K, Hawkins C, Drake J, Lamberti-Pasculli M, Ajani O, Hader W, Mehta V, McNelly PD, McDonald PJ, Ranger A, Vassilyadi M, Atkinson J, Ryall S, Eisenstat DD, Hukin J. Pediatric thalamic tumors in the MRI era: a Canadian perspective. *Child's Nervous System*. 2016 Feb 1;32(2):269-80

ASH
SINGHAL

1. Singhal A, Hengel AR, Steinbok P, Cochrane DD. Intraoperative ultrasound in pediatric brain tumors: does the surgeon get it right?. *Child's Nervous System*. 2015 Dec 1;31(12):2353-7
2. Liang J, Singhal A. Regression of ventriculomegaly following medical management of a patient with Hurler syndrome. *Journal of Neurosurgery: Pediatrics*. 2016 May;17(5):537-9

PATRICK
MCDONALD

1. McDonald PJ. Ventriculoperitoneal shunt failure from spontaneous knotting of the peritoneal catheter. *CMAJ*. 2016 March 15; 188(5)

MISCELLANEOUS PUBLICATIONS

PAUL
STEINBOK

1. Steinbok P. Letter to the editor Re: ICP monitoring guidelines for TBI. *Child's Nervous System*. 2016 Feb 1;32(2):225
2. Steinbok P. Letter to the editor Re: citations for the literature on spontaneous spinal epidural hematoma by Babayev et al.(2016). *Child's Nervous System*. 2016 Jun 1;32(6):1019



DEPARTMENT OF PEDIATRIC ORTHOPAEDIC SURGERY

2014-2015



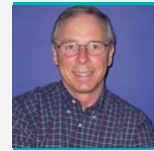
FACULTY MEMBERS:



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



Dr. U.K. Kishore Mulpuri, Associate Professor UBC



Dr. Richard D. Beauchamp, Clinical Professor UBC



Dr. Anthony Cooper, Clinical Assistant Professor UBC



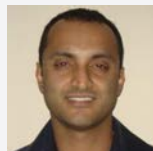
Dr. Christine M. Alvarez, Clinical Associate Professor UBC



Dr. Firoz Miyanji, Clinical Assistant Professor UBC



Dr. Alec Black, Clinical Instructor UBC



Dr. Arvinder Ghag, Clinical Instructor UBC



Dr. Lise Leveille, Clinical Instructor UBC



Dr. Shafique P. Pirani, Clinical Professor UBC

STAFF MEMBERS:

- **Emily Schaeffer**, Research (for Drs. Reilly and Mulpuri)
- **Sameer Desai**, Research (for Dr. Miyanji)
- **Janice Andrade**, Research (for Drs. Reilly and Mulpuri)
- **Harpreet Chhina**, Research (for Dr. Alvarez and Dr. Cooper)
- **Alyssa Howren**, Research (for Dr. Alvarez)
- **Brenda Whitworth**, Administrative Secretary
- **Michele Stark**, MOA to Dr. C. Reilly
- **Judy Woodward**, MOA to Dr. R. Beauchamp
- **Marilynn Timbrell**, MOA to Dr. C. Alvarez
- **Jennifer Farr**, MOA to Dr. K. Mulpuri and Dr. A. Cooper
- **Valerie Walsh**, MOA to Dr. F.

- Miyanji and Dr. A. Ghag*
- **Anna Stonehouse**, MOA to Dr. S. Pirani
 - **Cory Savitsky**, RN, Nurse Clinician
 - **Brenda Willms**, RN, Nurse Clinician
 - **Melissa Merrells**, RN, Clinic Nurse
 - **Jennifer Dunlop**, Nurse Practitioner
 - **Fidel Brooks**, Cast Technician
 - **Ricardo Botia**, Cast Technician
 - **Shelina Kabani**, Orthopaedic Clinic
 - **Manjit Bains**, Orthopaedic Clinic
 - **Kyla Oughton**, Orthopaedic Clinic
 - **Stacey Miller**, PT, CP Hip Surveillance
 - **Kim Hesketh**, PT, CP Ortho Clinic
 - **Maria Juricic**, PT, Ortho Clinic
 - **Daphne O'Young**, OT, Ortho Clinic

HIGHLIGHTS AND ACHIEVEMENTS:

DR. REILLY

Crystal Ball Event, BCCH Foundation, Vancouver, BC, November 27, 2014. Funds raised for EOS machine

DR. TREDWELL

Stephen J. Tredwell Visiting Professor Education Day, BCCH Department of Orthopaedics, Vancouver, BC, November 13-14, 2014 (Guest Visiting Professor: Dr. Alain Dimeglio)

DR. MULPURI

American-British-Canadian (ABC) Travelling Fellowship, The American Orthopaedic Association, 2015

DR. MIYANJI

Masters of Health Sciences (MHS), University of British Columbia, School of Population and Public Health, 2013-Present

01 TEACHING ACTIVITIES

LECTURES:

**CHRIS
REILLY**

- *"Skeletal Dysplasias", Resident/Fellow/Medical Student Teaching, BCCH, Vancouver, BC, May 27, 2014*
- *"Congenital Scoliosis", Resident/Fellow/Medical Student Teaching, BCCH, Vancouver, BC, July 15, 2014*
- *"Skeletal Dysplasias", Resident/Fellow/Medical Student Teaching, BCCH, Vancouver, BC, November 18, 2014*
- *"The Hip and Spine in Cerebral Palsy", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 27, 2014 – Attendee (Presenters: Dr. A. Ghag and Dr. A. Cooper)*
- *OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. "Advanced imaging research in orthopaedic surgery at BC Children's Hospital" (Presenter: Agnes d'Entremont); "The oblique plane deformity in SCFE: which slips are too severe to pin?" (Presenter: Dr. Anthony Cooper), and "Osteochondritis dissecans: innovative imaging modality" (Presenter: Dr. Patricia Larouche), BCCH Vancouver, BC, April 1, 2014*
- *Conflicts of Interest in Surgical Research", BCCH Radiology-Pathology Correlation Rounds, Vancouver, BC, April 22, 2014*
- *"Controversies, Conundrums and Ditzels in Spine and Spinal Cord Trauma", (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, April 23, 2014*
- *"Audit of emergent and urgent surgery at BCCH: Is access timely?", Summer Student Presentations @ OPSEI Rounds, Vancouver, BC (Attendee), January 6, 2015 (Moderator: Dr. A. Cooper)*
- *"Swollen Joint: The Holiday Gift Nobody Wanted!", UBC Pediatric Grand Rounds @ BCCH, Vancouver, BC, January 30, 2015 (Presenter: Dr. L. Phillips, Ortho Fellow)*
- *"The STELLA Award Report", STELLA Scholarship Presentations @ OPSEI Rounds (Attendee), BCCH, Vancouver, BC, February 3, 2015 (Presenter: Dr. A. Cooper)*
- *"Computer Guided Surgery" (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, February 4, 2015*
- *"Advances in Limb Reconstruction Surgery" (Attendee), BCCH Surgical Suites Grand Rounds, Vancouver, BC, February 17, 2015 (Speaker: Dr. A. Cooper)*
- *"What's HIP in Arthroscopy" (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, February 25, 2015*
- *"The Pediatric Orthopaedic Examination", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, March 31, 2015*

01

TEACHING ACTIVITIES con't

LECTURES:

RICHARD

BEAUCHAMP

- "Harder Lecture", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, April 2, 2014
- "Heather McDonald Kids #s", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, April 16, 2014
- "NSQIP Rounds", BCCH OPSEI Rounds, Vancouver, BC, April 19, 2014
- "SCI", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, April 23, 2014
- "Pelvic Fractures", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, May 7, 2014
- "RCT", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, May 14, 2014
- "Resident Research", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, May 28, 2014
- "Running Injuries", Running Room, North Vancouver, BC, June 3, 2014
- "Femur #s", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, June 4, 2014
- "Communication", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, June 17, 2014
- "Cerebral Palsy", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, June 17, 2014
- "Cerebral Palsy", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, August 12, 2014
- "Resident Learning", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, September 10, 2014
- "Cerebral Palsy", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, September 16, 2014
- "SLAP Lesion", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, September 18, 2014
- "Hyaluronic Acid in OA", Vancouver, BC, September 24, 2014
- "Spinal Research", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 8, 2014
- "Total Ankle", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 15, 2014
- "Attempts at GR", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 22, 2014
- "Respectful Workplace", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 29, 2014
- "Meniscal Replacement", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 5, 2014
- Case Presentation, BCCH Department of Orthopaedics' Stephen J. Tredwell Visiting Professor Education Day, November 14, 2014
- "Hip & Spine in CP", UBC Department of Orthopaedics Grand Rounds, BCCH Presenters: Dr. Cooper and Dr. Ghag, Vancouver, BC, November 19, 2014
- "Wrist Pain", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 26, 2014
- "Hip Fractures", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, December 3, 2014
- "Periprosthetic #s", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, December 17, 2014
- "What Not to Miss in Pediatric Orthopaedics", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, BCCH Presenters: Dr. Reilly, Dr. Doddabasappa ??, January 14, 2015
- "PCL & Knee Injuries", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, January 21, 2015
- "The Opium Wars: Narcotic Use in Orthopaedic Surgery", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, January 28, 2015

01 TEACHING ACTIVITIES con't

LECTURES:

CHRISTINE ALVAREZ

- OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. "Advanced imaging research in orthopaedic surgery at BC Children's Hospital" (Presenter: Agnes d'Entremont); "The oblique plane deformity in SCFE: which slips are too severe to pin?" (Presenter: Dr. Anthony Cooper), and "Osteochondritis dissecans: innovative imaging modality" (Presenter: Dr. Patricia Larouche), BCCH Vancouver, BC, April 1, 2014
- "Slipped Capital Epiphysis", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, May 13, 2014
- "The Lower Extremity", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, June 10, 2014
- OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. "Operative Treatment of Complicated Crohn's Disease" BCCH Vancouver, BC, September 2, 2014
- "The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, September 9, 2014
- Case Presentation, BCCH Department of Orthopaedics' Stephen J. Tredwell Visiting Professor Education Day, November 14, 2014
- "The Lower Extremity", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, November 25, 2014
- "The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse", BCCH, Vancouver, BC, February 17, 2015
- "Slipped Capital Femoral Epiphysis", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, March 17, 2015

KISHORE Mulpuri

- OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. "Advanced imaging research in orthopaedic surgery at BC Children's Hospital" (Presenter: Agnes d'Entremont); "The oblique plane deformity in SCFE: which slips are too severe to pin?" (Presenter: Dr. Anthony Cooper), and "Osteochondritis dissecans: innovative imaging modality" (Presenter: Dr. Patricia Larouche), BCCH Vancouver, BC, April 1, 2014
- BCCH Department of Orthopaedics' Stephen J. Tredwell Visiting Professor Education Day, November 14, 2014
- "The Hip and Spine in Cerebral Palsy", UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 27, 2014 – Attendee (Presenters: Dr. A. Ghag and Dr. A. Cooper)
- "Bone & Soft Tissue Tumors", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, May 20, 2014
- OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. "Advanced imaging research in orthopaedic surgery at BC Children's Hospital" (Presenter: Agnes d'Entremont); "The oblique plane deformity in SCFE: which slips are too severe to pin?" (Presenter: Dr. Anthony Cooper), and "Osteochondritis dissecans: innovative imaging modality" (Presenter: Dr. Patricia Larouche), BCCH Vancouver, BC, April 1, 2014
- OPSEI Special Round for Summer Students, "Getting that First Manuscript Published", BCCH, Vancouver, BC, July 31, 2014
- "The Child with a Limb Deficiency", Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, August 11, 2014
- OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. "Operative Treatment of Complicated Crohn's Disease" BCCH Vancouver, BC, September 2, 2014

01

TEACHING ACTIVITIES con't

LECTURES:

**KISHORE
MULPURI**

- *“The Pediatric Orthopaedic Examination”, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, October 21, 2014*
- *“The Hip and Spine in Cerebral Palsy”, UBC Department of Orthopaedics Grand Rounds, Vancouver, BC. BCCH Presenters: Dr. Ghag and Dr. Cooper, November 19, 2014*
- *“The Child with a Limb Deficiency”, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, December 12, 2014*

**FIROZ
MIYANJI**

- *OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. “Advanced imaging research in orthopaedic surgery at BC Children’s Hospital” (Presenter: Agnes d’Entremont); “The oblique plane deformity in SCFE: which slips are too severe to pin?” (Presenter: Dr. Anthony Cooper), and “Osteochondritis dissecans: innovative imaging modality” (Presenter: Dr. Patricia Larouche), BCCH Vancouver, BC, April 1, 2014*
- *“Idiopathic Scoliosis”, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, April 28, 2014*
- *“Idiopathic Scoliosis”, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, June 24, 2014*
- *“Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis”, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, August 26, 2014*
- *OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. “Operative Treatment of Complicated Crohn’s Disease” BCCH Vancouver, BC, September 2, 2014*
- *“Congenital Scoliosis”, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, September 30, 2014*
- *OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. “Operative Treatment of Complicated Crohn’s Disease” BCCH Vancouver, BC, September 2, 2014*
- *September 24, 2014 “Viscosupplementation: Managing the Knee OA Treatment Gap” (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, September 24, 2014*
- *“Risks and Benefits of Allogenic Blood Use” (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 1, 2014*
- *“Spinal Research”(Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 8, 2014*
- *“Patient Expectation and Satisfaction in end stage ankle arthritis – a better method of recording outcome than pain and function?” (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 15, 2014*
- *“State of the Art: An update from the 2014 OTA annual Meeting” (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 22, 2014*
- *“Meniscal Allograft Transplantation – Has its time come?” (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 5, 2014*
- *“The Hip and Spine in Cerebral Palsy” (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 19, 2014 (Presenters: Dr. A. Cooper and Dr. A. Ghag)*

01 TEACHING ACTIVITIES con't

LECTURES:

ANTHONY COOPER

- *"The oblique plane deformity in SCFE: which slips are too severe to pin?"* OPSEI Rounds, BCCH, Vancouver, BC, April 1, 2014
- *"STELLA Award Report"*. OPSEI Rounds, BCCH, Vancouver, BC, February 3, 2015
- *"Advances in Limb Reconstruction Surgery"*. Surgical Suites Grand Rounds, CFRI, February 17, 2015
- *"Bone and soft Tissue Tumors"*, Resident / Fellow / Medical Student Teaching, BCCH, October 14, 2014
- *Canadian Orthopaedic Association – scientific review board to review abstracts and presentations for annual meetings*, November 2014
- *"The Hip and Spine in Cerebral Palsy"*, UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 19, 2014 – Attendee (Presenters: Dr. A. Ghag and Dr. A. Cooper)
- *"Academic Health Sciences Centre funding model"*, UBC Orthopaedic Grand Rounds (Attendee), Vancouver, BC, December 10, 2014
- *"Summer Student Research Presentations (Moderator)"*, OPSEI Rounds, BCCH, January 6, 2015
- *"Leg Length Discrepancy"*, Resident / Fellow / Medical Student Teaching, BCCH, January 20, 2015

ARVINDERA GHAG

- OPSEI Rounds, Presenters: Fellows, Division of Pediatric Orthopaedic Surgery. *"Advanced imaging research in orthopaedic surgery at BC Children's Hospital"* (Presenter: Agnes d'Entremont); *"The oblique plane deformity in SCFE: which slips are too severe to pin?"* (Presenter: Dr. Anthony Cooper), and *"Osteochondritis dissecans: innovative imaging modality"* (Presenter: Dr. Patricia Larouche), BCCH Vancouver, BC, April 1, 2014
- *"Idiopathic Scoliosis"*, Resident / Fellow / Medical Student Teaching, BCCH Vancouver, BC, Sept 26, 2014
- *"Spinal Research"* (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 8, 2014
- *"Patient Expectation and Satisfaction in end stage ankle arthritis – a better method of recording outcome than pain and function?"* (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 15, 2014
- *"State of the Art: An update from the 2014 OTA annual Meeting"* (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, October 22, 2014
- *"Meniscal Allograft Transplantation – Has its time come?"* (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 5, 2014
- *"The Hip and Spine in Cerebral Palsy"*, UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, November 19, 2014 – Attendee (Presenters: Dr. A. Ghag and Dr. A. Cooper)
- *"Academic Health Sciences Centre Funding Model"* (Attendee), UBC Department of Orthopaedics Grand Rounds, Vancouver, BC, December 10, 2014
- *"Management of Fractures"*, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, December 16, 2014
- *"Idiopathic Scoliosis"*, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, February 10, 2015
- *"The Lower Extremity"*, Resident / Fellow / Medical Student Teaching, BCCH, Vancouver, BC, March 24, 2015

SHAFIQUE PIRANI

- *Resident Global Health Information Night*. UBC Medical Student & Alumni Centre, Vancouver, BC, December 9, 2014

01 TEACHING ACTIVITIES con't

FORMAL TEACHING:

KISHORE MULPURI	<ul style="list-style-type: none"> • <i>"Introduction to Clinical Research in the Sciences", International UBC Course, Vancouver, BC, August 7, 2014</i> • <i>"Worrisome Fractures in the Child and Adolescent Athlete", CME on the Run, Vancouver General Hospital, June 6, 2014</i>
FIROZ MIYANJI	<ul style="list-style-type: none"> • <i>"Pediatric Spine Disorders: Scoliosis, Kyphosis, Instability", Resident Half-Day, UBC Department of Orthopaedics, VGH, January 30, 2014</i>
CHRIS REILLY	<ul style="list-style-type: none"> • <i>"Perioperative considerations of spinal Surgery", BCCH In-Service PICU Academic Day, Vancouver, British Columbia, November 27, 2015 (1 hour)</i>
RICHARD BEAUCHAMP	<ul style="list-style-type: none"> • <i>"Knee, Foot & Ankle", UBC Clinical Skills Tutorial, VGH, October 16, 2013 – 4 hours</i> • <i>"Gait" Seminar for Fellows/Residents, BCCH, November 1, 2013 – 2 hours</i> • <i>Journal Club (w/Residents), December 12, 2013 – 3 hours</i>

PEDIATRIC ORTHOPAEDIC:

FELLOWS SUPERVISED	<ul style="list-style-type: none"> • <i>Dr. Amardeep Singh, Clinical Fellow (2012-2014)</i> • <i>Dr. Parham Rasoulinejad, Clinical Fellow (2013-2014)</i> • <i>Dr. Patricia Larouche, Clinical Fellow (2013-2014)</i> • <i>Dr. Anthony Cooper, Clinical Fellow (2013-2014)</i> • <i>Dr. David Bade, Clinical Fellow (2013-2014)</i> • <i>Dr. Siddesh Doddabasappa, Clinical Fellow (January 2014-Present)</i> • <i>Dr. Lisa Phillips (2014-Present)</i> • <i>Dr. Alexander Aarvold (2014-Present)</i> • <i>Dr. Sasha Carsen (2014-Present)</i>
OTHER	<ul style="list-style-type: none"> • <i>Dr. Vinay Shivamurthy, UBC Rheumatology Fellow</i> • <i>Dr. Badrinath Narayan, UBC Pediatric Emergency Medicine Fellow</i> • <i>Dr. Kate Fathi, UBC Pediatric Emergency Medicine Fellow</i> • <i>Dr. Alison Thiele, UBC Maternal Fetal Medicine Fellow (1 day)</i>

01 TEACHING ACTIVITIES con't

UBC ORTHOPAEDIC RESIDENCY PROGRAM:

RESIDENTS SUPERVISED

- | | |
|----------------------------|-----------------------|
| 1. Cassandra Lane Dielwart | 15. Nimrod Levy |
| 2. Andrea Simmonds | 16. Robert Petretta |
| 3. Kristen Taunton | 17. Geoffrey Jarvie |
| 4. Luke Soswa | 18. Jeffrey Potter |
| 5. Jason Strelzow | 19. Brad Ashman |
| 6. Lauren Roberts | 20. Ian Wilson |
| 7. Lise Leveille | 21. Benjamin Jog |
| 8. Christopher Kong | 22. Hooman Sadr |
| 9. Jacqueline Ngai | 23. Jane Yeoh |
| 10. Hooman Sadr | 24. Darcy Marr |
| 11. Jeffrey Potter | 25. David Cruickshank |
| 12. Brett Kilb | 26. Jason Strelzow |
| 13. Marie-Eve Pelletier | 27. Lisa Howard |
| 14. Chad Johnson | 28. Michael Bond |

OTHER

- Dr. Aaron Chan, UBC Peds Rehab Resident
- Dr. Amy Hanlan, UBC Peds Rehab Resident
- Dr. Eric Hui, UBC Peds Rehab Resident
- Dr. Francine Ling, UBC Peds Resident, PGY 4
- Dr. Andrew Tice, UoO, Ped Resident, PGY 4

STUDENTS

- UBC 4th Year Medical Students – 25 students
- BCIT Prosthetic & Orthotic Students – 13 students
- Research Summer Students - 7
(preceptor: Dr. Mulpuri)
- Michael Thejomayan, UBC BSc Student, May 2011 to Present
- Jacqueline Eng, UBC Co-Op Student, September 2013-May 2, 2014
- Jamil Devsi, UBC Co-Op Student, May 2014-April 30, 2015
- Liam Matthews, McGill University Undergraduate Science – directed students, July 2013-Present

02

SCHOLARLY & PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
BCCH FOUNDATION CIRCLE OF CARE	PEDIATRIC ORTHOPAEDIC RESEARCH SUPPORT	C	20,000	2014	C REILLY	.
BCCH FOUNDATION CIRCLE OF CARE	PEDIATRIC ORTHOPAEDIC RESEARCH SUPPORT	C	20,000	2014	K MULPURI	
CIDA	SUSTAINABLE CLUBFOOT CARE IN BANGLADESH	C	4,320,160	2012-2017	S PIRANI	R MATHIAS
RARE DISEASE FOUNDATION	WEIGHT-BEARING MRI FOR EVALUATION OF OSTEOCHONDritis DISSEANS: A PILOT STUDY	C	3,500	2013 - 2014	A D'ENTREMONT	P LAROCHE C REILLY K MULPURI
RARE DISEASE FOUNDATION	EFFECT OF FEMORAL EPIPHYSIS POSITION AND PIN LOCATION ON IMPINGEMENT IN SCFE: A GEOMETRICAL MODELING STUDY	C	3,500	2013 -2014	A D'ENTREMONT	A COOPER K MULPURI
CANADIAN INSTITUTES OF HEALTH RESEARCH	OUTCOME OF HIP INTERVENTIONS FOR CHILDREN WITH CEREBRAL PALSY – AN INTERNATIONAL MULTI-CENTER PROSPECTIVE COMPARATIVE COHORT STUDY	C	520,000	2014 -2019	U NARAYANAN	K MULPURI P SELBER R HAMDY
PEDIATRIC ORTHOPEDIC SOCIETY OF NORTH AMERICA	EVALUATION OF THE NECESSITY OF OPERATIVE IRRIGATION AND DEBRIDEMENT: PAEDIATRIC RANDOMIZED TRIAL OF TYPE 1 OPEN FRACTURES (PROOF)	C	30,000	2014	J JANICKI	K MULPURI
PEDIATRIC ORTHOPEDIC SOCIETY OF NORTH AMERICA	A RANDOMIZED CONTROLLED TRIAL – SALVAGE SURGERY	C	30,000	2014	E DODWELL	K MULPURI
INTERNATIONAL HIP DYSPLASIA INSTITUTE	PROSPECTIVE OBSERVATIONAL COHORT STUDY OF CHILDREN WITH HIPS DISLOCATED AT REST	C	300,000	2014 -2019	K MULPURI	
CHILD AND FAMILY RESEARCH INSTITUTE CAPACITY BUILDING AWARD		C	12,500	2014 -2019	K MULPURI	
POSNA	START UP GRANT	C	9,938	2015	C. REILLY	
BCCH FOUNDATION	RESEARCH SUPPORT FOR PEDIATRIC ORTHOPAEDIC GROUP RESEARCH & DEVELOPMENT	NC	20,000	2014	C REILLY	
CIDA	SUSTAINABLE CLUBFOOT CARE IN BANGLADESH	C	4,320,160	2012-2017	SP PIRANI	R MATHIAS
BCCH FOUNDATION	RESEARCH SUPPORT FOR PEDIATRIC ORTHOPAEDIC GROUP RESEARCH & DEVELOPMENT	NC	20,000	2014	K MULPURI	
BCCH FOUNDATION	INFRASTRUCTURE SUPPORT FOR RESEARCH OF HEREDITARY MULTIPLE EXOSTOSES	C	20,000	2014	C ALVAREZ	

02

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
JACK AND DORIS BROWN FOUNDATION	MAINTENANCE OF HME PROGRAM	C	25,000	2014	C ALVAREZ	.
BCCHF/RARE DISEASE MICROGRANT	EVALUATION OF NATURAL HISTORY, GENOTYPE-PHENOTYPE CORRELATIONS, AND INTRA-FAMILIAL RELATIONSHIPS FOR INDIVIDUALS WITH HEREDITARY MULTIPLE EXOSTOSES. A RADIOGRAPHIC APPROACH	C	3,500	2015	C ALVAREZ	
BCCHF/RARE DISEASE	USE OF INCISIONAL NEGATIVE PRESSURE WOUND DRESSING VERSUS STANDARD DRY GAUZE DRESSING FOR WOUND CLOSURE IN PATIENTS UNDERGOING SPINAL SURGERY	C	3,425	2014	F MIYANJI	
CIHR	SIMPLE BONE CYST IN KIDS	C	1,000/ SUBJECT	2014 - 2018	JG WRIGHT	AS DORIA S HOPYAN J STIMEC P BABYN A COOPERI
RARE DISEASE FOUNDATION	EFFECT OF FEMORAL EPIPHYSIS POSITION AND PIN LOCATION ON IMPINGEMENT IN SCFE: A GEOMETRICAL MODELING STUDY	C	3,500	2014 -2015	A COOPER	K MULPURI PROF D WILSON A D'ENTREMONT
RARE DISEASE FOUNDATION	ACCURACY OF DEFORMITY MEASUREMENT IN SLIPPED CAPITAL FEMORAL EPIPHYSIS: A GEOMETRICAL MODELING STUDY	C	3,500	2014 -2015	A COOPER	K MULPURI PROF D WILSON A D'ENTREMONT
iACT TRAINEE CLINICAL INVESTIGATOR SEED GRANT COMPETITION, CFRI	USE OF FUNCTIONAL WEIGHT BEARING MRI TO EVALUATE FEMORAL HEAD DEFORMITY AND EXTRUSION IN LEGG-CALVE PERTHES DISEASE: A PILOT STUDY	C	7,500	2014 - 2015	A COOPER (FACULTY SUPERVISOR) A AARVOLD (TRAINEE CLINICAL INVESTIGATOR)	C REILLY K MULPURI
RARE DISEASE FOUNDATION	SCREW TRAJECTORY IN DIFFERENT FEMORAL NECK GEOMETRIES IN SLIPPED CAPITAL FEMORAL EPIPHYSIS: A GEOMETRICAL MODELING STUDY	C	3,500	2014 - 2015	A COOPER	K MULPURI A D'ENTREMONT
STELLA AWARD	BALTIMORE LIMB DEFORMITY COURSE AND OBSERVERSHIP	C	5,223	2014	A COOPER	

03

COMMITTEE PARTICIPATION

**CHRIS
REILLY**

- *Child and Family Research Institute, Member*
- *Centre for Hip Health, Member*
- *Royal College Subspecialty Committee, Member*
- *Orthopaedic Re-design Committee, BCCH, Member*
- *Department of Paediatric Orthopaedic Surgery, BCCH, Dept. Head*
- *Surgical Cabinet Meeting, Member*
- *Surgical Services Advisory Committee (SSAC), Member*
- *The Department of Pediatric Surgery Surgical Cabinet, Member*
- *Orthopaedic Faculty Advisory Committee, 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, Board – Member at Large*
- *Pediatric Orthopaedic Society of North America Association of Surgical Educators, Member*
- *American Academy of Orthopaedic Surgeons, 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*

**RICHARD
BEAUCHAMP**

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

03 COMMITTEE PARTICIPATION con't

RICHARD

BEAUCHAMP

- *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*

CHRISTINE

ALVAREZ

- *Child and Family Health Research Institute, Senior Associate, Clinical Scientist*
- *Sunny Hill Gait Lab, Medical Co-Director*
- *Trauma Division Committee, Division of Paediatric Orthopaedics, UBC*
- *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*

KISHORE

MULPURI

- *Centre for Hip Health, Member*
- *Evidence Based Medicine Committee, Pediatric Orthopaedic Society of North America, Chair*
- *President's Subspecialty Advisory Council, Canadian Orthopaedic Association, Member*
- *Pediatric Orthopaedics Sub-Specialty, Canadian Orthopaedic Association, Program Committee & Chair*
- *Pediatric Orthopaedic Society of North America Clinical Trials Committee, Chair*
- *Canadian Paediatric Orthopaedic Research Group, Organizer*
- *Innovative Acute Care and Technologies Cluster (iACT) Steering Committee, Child and Family Research*

03

COMMITTEE PARTICIPATION con't

**KISHORE
MULPURI**

- *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*
- *American Academy of Orthopaedic Surgeons – DDH Clinical Practice Group, Chair*
- *American Academy of Orthopaedic Surgeons – Pediatric Supracondylar Humerus Fractures, Member – Appropriate Use Criteria*
- *UBC Tenure and Promotions Committee, Department of Orthopaedics, Member*
- *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*
- *Research Committee on Child Restraint Safety, Member*
- *Child and Family Research Institute Innovations in Acute Care and Technology Cluster, Cluster Representative*
- *Medical Staff Association, BC Children's Hospital Redevelopment Committee*
- *Medical Staff Relocation Committee*

**ARVINDER
GHAG**

- *Canadian Orthopaedic Association, Member*
- *American Academy of Orthopaedic Surgeons, Member*
- *North American Spine Society, Member*
- *Medical Council of Canada, Member*
- *General Medical Council, United Kingdom, Member*
- *British Columbia Medical Association, Member*

03 COMMITTEE PARTICIPATION con't

**FIROZ
MIYANJI**

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

**ANTHONY
COOPER**

- *Trauma Steering Committee, Member, BC Children's Hospital*
- *Canadian Orthopaedic Association, Scientific Review Board*

**SHAFIQUE
PIRANI**

- *College of Physicians & Surgeons of BC, Member*
- *British Columbia Medical Association, Member*
- *Canadian Orthopaedic Association, Member*
- *Canadian Paediatric Orthopaedic Group, 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, Member*
- *Pediatric Orthopaedic Society of North America, Children's Orthopaedics in Underdeveloped Regions (Global HELP International, Board Member*
- *Ponseti International Association for the Treatment of Clubfoot, Chair Medical Advisory Board*
- *Avicenna Physicians Society, Member*
- *The International Clubfoot Study Group, Member*
- *The Rotary Club of Burnaby, Member*

**SHAFIQUE
PIRANI**

- *Gait and clinical Motion Analysis Society, Member*

PUBLICATION RECORDS

REFEREED PUBLICATIONS

**CHRIS
REILLY**

1. Wang JCC, Mallic C, Reilly C, Verchere C. "Microtia reconstruction and post-surgical Grisel's syndrome – A rare cause of torticollis in the pediatric population". *PRS-GO*, June 2014
2. Reilly C. "BMPER variants associated with a novel, attenuated subtype of diaphanospondylodysostosis". *Journal of Human Genetics* (submitted June 2014)
3. Synnes AR, Reilly C Robinson A. "Limb length shortening associated with femoral arterial lines in the neonatal period". *Paediatr Child Health*
4. Miyanji F, Newton PO, Samdani AF, Shah SA, Varghese RA, Reilly CW, Mulpuri K. "The Impact of Surgical Waitlist Times on Scoliosis Surgery: The Surgeon's Perspective". *Spine* 2014 [Epub ahead of print]

**RICHARD
BEAUCHAMP**

1. Maurer JD, Ward V, Mayson TA, Davies KR, Alvarez CM, Beauchamp RD, Black A. "Classification of midfoot break using multi-segment foot kinematics and pedobarography". *Gait & Posture* 39(1),(2014): 1-6

**CHRISTINE
ALVAREZ**

1. Maurer JD, Ward V, Mayson TA, Davies KR, Alvarez CM, Beauchamp RD, Black A. "Classification of midfoot break using multi-segment foot kinematics and pedobarography". *Gait & Posture* 39(1),(2014): 1-6
2. Cooper AP, Chhina H, Howren A, Alvarez C. "The Contralateral foot in children with unilateral clubfoot, is the unaffected side normal?" *Gait and Posture*, July 2014;40(3) 375-380
3. Howren A, Jamieson D, Alvarez C. "Early ultrasonographic valuation of idiopathic clubfeet treated with manipulations, casts, and botox: A double-blind randomized control trial". *Journal of Children's Orthopaedics*, 9(1)(2015):85-91

**KISHORE
MULPURI**

1. Miyanji F, Newton PO, Samdani AF, Shah SA, Varghese RA, Reilly CW, Mulpuri K. "The Impact of Surgical Waitlist Times on Scoliosis Surgery: The Surgeon's Perspective". *Spine* 2014 [Epub ahead of print]
2. Fisher CG, Vaccaro AR, Prasad SK, Whang PG, Mulpuri K, Thomas KC, Chi J, Patel AA. "Evidence-based recommendations for spine surgery". *Spine* 2014;39(1):E52-9
3. Cooper AP, Doddabasappa SN, Mulpuri K. "Evidence-based Management of Developmental Dysplasia of the Hip". *Orthop Clin North Am.* 2014;45(3):341-54
4. "The Management of Pediatric Supracondylar Humerus Fractures: Appropriate Use Criteria". *American Academy of Orthopaedic Surgeons*. http://www.aaos.org/research/Appropriate_Use/PSHF_AUC.pdf Published September 8, 2014
5. "The Detection and Non-operative Management of Pediatric Developmental Dysplasia of the Hip in Infants up to Six Months of Age: Evidence-Based Guideline and Evidence Report". <http://www.aaos.org/research/guidelines/DDHGuidelineFINAL.pdf> Published September 8, 2014
6. Sims-Gould J, Race D, Hamilton L, Macdonald H, Mulpuri K, McKay H. "I fell off and landed badly: Children's experiences of forearm fracture and injury prevention". *J Child Health Care*. 2014;DOI:10.1177/1367493514551311 CA
7. d'Entremont AG, Cooper AP, Johari A, Mulpuri K. "What Clinimetric Evidence Exists for Using Hip-specific patient-reported Outcome Measures in pediatric Hip Impingement?". *Clin Orthop Relat Res.* 2014;DOI:10.1007/s11999-014-4027-6 SA
8. Mulpuri K, Brighton B. "Evidence-Based Medicine and Clinical Trials in Pediatric Orthopedics". *J Pediatr Orthop.* 2014;DOI:10.1097/BPO.0000000000000292. FA

PUBLICATION RECORDS con't

REFEREED PUBLICATIONS

**KISHORE
MULPURI**

9. Dodwell E, Dua S, Dulai SK, Astone K, Mulpuri K. "The Quality of Randomized Controlled Trials in Pediatric Orthopedics: Are We Improving?" *J pediatr Orthop*. 2014;10.1097/BPO.0000000000000324. SA
10. Narayanan U, Mulpuri K, Sankar WN, Clarke NMP, Hosalkar H, Price CT, IHDI Study Group, Reliability of a New Radiographic Classification for Developmental Dysplasia of the Hip". *J Pediatr Orthop*. 2014;DOI:10.1097/BPO.0000000000000318 CA
11. Gill C, Ansermino MJ, Sanatani S, Mulpuri K, Doan Q. "Paediatric Patient Family Engagement with Clinical Research at a Tertiary Care Pediatric Hospital." *Paediatr Child health*, 2014;19(10):537-542. CA
12. Maatta M, Macdonald HM, Mulpuri K, McKay HA. "Deficits in distal radius bone strength, density and microstructure are associated with forearm fractures in girls: An HR-pQCT study". *Osteoporos Int*. 2015;[Epub ahead of print] CA

**FIROZ
MIYANJI**

1. Miyaji F, Newton PO, Samdani AF, Shah SA, Varghese RA, Reilly CW, Mulpuri. "The Impact of Surgical Waitlist Times on Scoliosis Surgery: The Surgeon's Perspective". *Spine* 2014 [Epub ahead of print]
2. Singla A, Bennett JT, Sponseller PD, Pahys J, Marks MC, Lonner BS, Newton PO, Miyaji F, Betz RR, Cahill PJ, Samdani AF. "Results of selective thoracic versus non-selective fusion in lenke type 3 curves". *Spine*, Nov; 39(24):2034-41, 2014
3. Miyaji F, "Chapter: MIS Treatment of Idiopathic Scoliosis. *Global Spinal Alignment*." Haid R, Shaffrey C, Youssef J, Schwab F (eds) – In Press
4. Miyaji F. "Chapter: MIS in Adolescent Deformity. *Minimally Invasive Spinal Deformity Surgery*". M Wang et al. (eds), DOI 10.1007/978-3-7091-1407-0_37, © Springer-Verlag Wien, 2014
5. Miyaji F. "chapter: Cervical Spine Injuries in Athletes. *Textbook of Pediatric Cervical Spine*". Phillips J, Shah S, Yaszay B (eds) – Submitted November 2014

**ANTHONY
COOPER**

1. Cooper AP, Doddabasappa SN, Mulpuri K. "Evidence-based Management of Developmental Dysplasia of the Hip". *Orthop Clin North Am*. 2014 July;45(3):341-54
2. Cooper AP, Chhina H, Howren A, Alvarez C. "The contralateral foot in children with unilateral club foot: Is the unaffected side normal?" *Gait Posture*. 2014 July; 40(3):375-380
3. Cooper AP, Evans OG, Ali FM, Flowers M. "A novel method for assessing post-operative femoral head reduction in developmental dysplasia of the hip". *J Child Orthop*. 2014 Aug; 8(4):319-324
4. d'Entremont AG, Cooper AP, Johari A, Mulpuri K. "What Clinimetric Evidence Exists for Using Hip-specific Patient-reported Outcome Measures in Pediatric Hip Impingement?" *Clin Orthop Relat Res*. 2015 Apr; 473(4):1361-1367
5. Cooper AP, Jones S. "Foot disorders in Childhood". *Surgery (Oxford)*. 2014 Jan; 32(1):46-49
6. Cooper AP, Jones S. "Chapter: Foot and Ankle". In: Aishryda S, Jones S, Banaszkiewicz PA, Editors. *Postgraduate Paediatric Orthopaedics*. Cambridge: Cambridge University Press; 2014; p.86-103

ALEC BLACK

1. Maurer JD, Ward V, Mayson TA, Davies KR, Alvarez CM, Beauchamp RD, Black A. "Classification of midfoot break using multi-segment foot kinematics and pedobarography". *Gait & Posture* 39(1),(2014): 1-6

INITIATIVES IN PROGRESS:

● CHRIS REILLY:

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, 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 pediatric physeal fractures". Recruitment 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.
- 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.
- Mulpuri K, Reilly C. Quality of Referrals sent to pediatric Orthopedic Clinics. Data collection in progress
- Reilly CW, Mulpuri K, Miyanji F. "Internet-administered adolescent scoliosis questionnaires compared with traditional pencil and paper versions: a randomized crossover design". Data collection in progress.
- Bracing in Adolescent Idiopathic Scoliosis II. Observational follow-up of BraIST 1 cohort (BraIST II). Recruitment in process.
- Mammen C, Skippen P, Jobsis J, Mulpuri K, Reilly C. Acute Kidney Injury Following Spinal Surgery in Children: A Case Control Study. Manuscript preparation
- Reilly C, Mulpuri K, Morrison A, Mammen C. Acute Kidney Injury in Children Following Major Orthopaedic Surgery: A Prospective Cohort Study. Ethics application in progress
- Maata M, Hoy C, Race D, Nettlefold L, Gabel L, Mulpuri K, Miyanji F, Reilly C, Macdonald HM, McKay HA. Lower Bone Strength, Density, and Trabecular Microstructure at the Distal Radius is Associated with Increased Risk of Forearm Fracture in Young Girls. Manuscript preparation

INITIATIVES IN PROGRESS:

● **RICHARD BEAUCHAMP:**

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

● **CHRISTINE ALVAREZ:**

Work Submitted:

- Howren A, Jamieson D, Alvarez C. “Ultrasoographic Evaluation of Idiopathic Clubfeet Treated with Manipulations, Casts, and Botox®, A Double-Blind Randomized Control Trial”. Journal of Pediatric Orthopaedics. Submitted September 9, 2013 (provisionally accepted)

Work in Progress: **Clubfoot**

- 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 (multi-centre trial) started in 2006, finished data collection February 2011 (waiting for second site to finish data collection)
- Genetic Studies of Clubfoot (CTEV) is a collaborative project with University of Houston Texas to explore the genetic causes of clubfoot which is in progress since 2005 (ongoing data collection)

Hereditary Multiple Exostoses

- Genotype-Phenotype – Quality of Life correlation in HME (data collection finished, statistical analysis done, manuscript preparation 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

Gait

- Pedobarographic profile of clubfoot patients (data collection complete, analysis and manuscript preparation underway)
- Gait analysis of clubfoot patients (ongoing data collection)
- Crouch Gait in children with Cerebral Palsy (ongoing data collection)

● **KISHORE Mulpuri:**

Work 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 on Perthes’ Disease
- 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 in progress.
- McKay HA, Boyd S, Mulpuri K, Naylor PJ, Khan K, Li L, Rhodes R, Macdonald H. An investigation into risk taking behavior, bone microstructure, and fracture between the sexes: What underpins fracture in boys compared to girls during growth? Data collection in progress.
- Miyanji F, Mulpuri K, Reilly C. The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study. Recruitment in progress.
- Mulpuri K, Miller SD. Health related quality of life in children with cerebral palsy undergoing surgery for dislocating hips. Recruitment in progress.
- Mulpuri K, Davidson D. Validation and reliability testing of the Western Ontario and McMaster Osteoarthritis Scale (WOMAC) hip score in children and adolescents with Perthes’ disease. Recruitment in progress.

INITIATIVES 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. Data analysis in progress.
- Miyanji F, Mulpuri K, Reilly C, Poskitt K. Diffusion MRI as a Prognostic Tool in Growth Plate Injuries: A Pilot Study to Assess Feasibility. Recruitment in progress.
- Mulpuri K, 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 pediatric physeal fractures. Recruitment in progress.
- Mulpuri K, Cashin MS. Outcome analysis of comminuted vs non-comminuted paediatric femur fractures treated with elastic intramedullary nail fixation. Protocol development.
- Mulpuri K, Mubarak S, Matheney T, Kelley S, Castaneda P, Foster B, Clarke N, Price C. Prospective Observational Cohort Study of Children with Hips Dislocated at Rest. Recruitment in progress.
- Mulpuri K, Beauchamp R, Alvarez C. Functional Outcomes Following Orthopaedic Surgery Based on Gait Laboratory versus Observational Gait analysis in Ambulatory Children with Cerebral Palsy: A Multi-centre Pilot Randomized Control Trial. Recruitment in progress.
- Mulpuri K. The Journal Impact Factor: Clinically relevant? A Pilot Study. Manuscript preparation
- Mulpuri K, Reilly C. Quality of Referrals sent to pediatric Orthopedic Clinics. Data collection in progress
- Reilly C, Mulpuri K, Miyanji F. Internet-administered adolescent scoliosis questionnaires compared with traditional pencil and paper versions: a randomized cross-over design. Manuscript preparation
- McKay HA, Macdonald H, Race D, Mulpuri K. An investigation into risk taking behavior, bone microstructure and fracture between the sexes: What underpins fracture in boys compared to girls during growth? Data collection in progress
- Miller SD, Harris SR, Mulpuri K. Diagnosis and Treatment Recommendations in Children Referred for Common Gait Abnormalities: Concordance Between a Physical Therapist and Pediatric Orthopedic Surgeon. Data analysis in progress
- Mulpuri K, Miyanji F, Reilly C, Doan Q. Splinting versus Above Elbow Casting for Type I Supracondylar Fractures of the Humerus in Children: A Randomized Controlled Trial. Data collection in progress.
- Mulpuri K (International Perthes Study Group). A prospective, multi-centre, surgeon controlled non-randomized study comparing 6 weeks vs 6 months of post-operative non-weight bearing (NWB) in patients treated with a surgical containment procedure with the onset of Legg-Calve Perthes disease between 8 and 11 years of age. Ethics application in progress
- d'Entremont AG, Cooper AP, Mulpuri K. The degree of deformity in Slipped Capital Femoral epiphysis at which point the slip is too severe to pin: A computed tomography simulated model. Data collection in progress
- d'Entremont AG, Wilson DR, Hargreaves B, Mulpuri K. MR measures of mechanical and cartilage health outcomes in Perthes disease – Tirho and Morphology. Data collection in progress

INITIATIVES IN PROGRESS:

● **KISHORE MULPURI CON'T:**

- d'Entremont AG, Wilson DR, Mulpuri K. CT measures of femoral head sphericity in healed Perthes patients using Statistical Modelling and Sphericity Index. Ethics pending
- d'Entremont AG, Wilson DR, Mulpuri K. Accuracy of deformity measurement in slipped capital femoral epiphysis: a geometrical modeling study. Ethics application in progress
- Roberts LE, Strelzow JA, Mulpuri K. Operative Versus Non-operative Treatment of Gartland Type IIA Supracondylar Humeral Fractures: A Retrospective Review. Data collection in progress
- Roberts LE, Strelzow JA, Mulpuri K. Operative Versus Non-operative Treatment of Gartland Type IIA Supracondylar Humeral Fractures: A Prospective Study. Protocol development in progress
- Mulpuri K, Quader N, Abugharbieh R, Hodgson AJ. Local Attenuation and Local Symmetry from Ultrasound Images for Diagnosis in Developmental Dysplasia of the Hip. Ethics application in progress
- Mulpuri K, Cooper AP. Screening for Developmental Dysplasia of the Hip. Ethics application in progress
- Narayanan U, Mulpuri K, Selber P, Hamdy R. Outcomes of Hip Interventions for Children with Cerebral Palsy – An international Multi-Centre Prospective Comparative Cohort Study. Ethics application in progress
- Mulpuri K. Dynamic vs rigid bracing in DDH treatment: A feasibility study. Ethics application in progress
- Mulpuri K. Shared Medical Appointments in Paediatric Orthopaedics – A Novel Approach in Assessing Normal Variants. Ethics application in progress
- Mammen C, Skippen P, Jobsis J, Mulpuri K, Reilly C. Acute Kidney Injury Following Spinal Surgery in Children: A Case Control Study. Manuscript preparation
- Reilly C, Mulpuri K, Morrison A, Mammen C. Acute Kidney Injury in Children Following Major Orthopaedic Surgery: A Prospective Cohort Study. Ethics application in progress
- Mulpuri K, Kilb BKJ. Radiographic Outcomes in Surgically Managed Pediatric Supracondylar Humeral Fractures Treated in Pediatric Versus Non-Pediatric Centres. Ethics application in progress
- Mulpuri N, Andrade A, Reilly C. Assessing the Gap on Female Authorship within Pediatric Orthopaedics. Manuscript preparation
- Maatta M, Hoy C, Race D, Nettlefold L, Gabel L, Mulpuri K, Miyanji F, Reilly C, Macdonald HM, McKay HA. Lower Bone Strength, Density, and Trabecular Microstructure at the Distal Radius is Associated with Increased Risk of Forearm Fracture in Young Girls. Manuscript preparation
- Wright JG, Mulpuri K. Simple Bone Cysts in Kinds (SBoCK). Ethics application to be started
- Skarsgard ED, Mulpuri K, Innis SM, Gandhi S. Nutritional Status of Pre-operative Surgical Patients: Prevalence of Malnutrition and Impact on Surgical Outcomes. Ethics approved, preparing for data collection
- Hyman JE, Trupia EP, Wright ML, Matsumoto H, Chan-Hee J, Mulpuri K, Joseph B, Kim HKW, and International Perthes Study Group Members. Inter- and Intra-Observer Reliability of the Modified Waldenstrom Classification for Staging of Legg-Calve-Perthes Disease (LCPD) Manuscript in preparation to be submitted to JBJS

● **FIROZ MIYANJI:**

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

INITIATIVES IN PROGRESS:

Work 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 bioglue 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.
- 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
- 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.
- Maatta M, Hoy C, Race D, Nettlefold L, Gabel L, Mulpuri K, Miyanji F, Reilly C, Macdonald HM, McKay HA. Lower Bone Strength, Density, and Trabecular Microstructure at the Distal Radius is Associated with Increased Risk of Forearm Fracture in Young Girls. Manuscript preparation

● **ARVINDER GHAG:**

Academics & Current Research:

- Influence of Neurological Status on Surgical Site Infection in Posterior Cervical Spinal Surgery Rothman Institute, Thomas Jefferson University Hospital A Ghag, K Radcliff, M Maltenfort, C Kepler, TJ Albert, AS Hilibrand, J Rihn, A Vaccaro
- Minimally invasive surgery for AIS: two-yr results from a prospective comparison with standard open posterior surgery BC children's & Women's Hospital F Miyanji, A Ghag, A Dhawale, BL Slobogean, CW Reilly
- The Treatment of Thoracolumbar Burst Fractures: a Cost-utility Analysis Comparing Operative Treatment with Non-operative Treatment UBC Dept of Orthopaedics, Combined Neurosurgical and Orthopaedic Spine Program A Ghag, S Kingwell, CG Fisher
- Thoracolumbosacral Orthosis for Thoracolumbar Burst Fractures: a Cost-utility Analysis Comparing Treatment with or without Orthosis UBC Dept of Orthopaedics, Combined Neurosurgical and Orthopaedic Spine Program & London Health Science Centre, University of Western Ontario A Ghag, CS Bailey, CG Fisher

INITIATIVES IN PROGRESS:

● **ARVINDERA GHAG CON'T:**

- Immediate Soft-tissue Reconstruction of Internal Hemipelvectomy Defects following Pelvic Tumour Excision UBC Dept of Orthopaedics, Division of Lower Limb Reconstruction & Oncology A Ghag, PW Clarkson, A Phillips, BA Masri
- Medical Review for Virtual Patient cases in UBC Faculty of Medicine 2011 Internationally Educated Physiotherapists (IEP) Preparatory Program
 - Hip Osteoarthritis – PT in Medical, Surgical and Post-operative Management
 - Cerebral Palsy – PT in Seating, Surgical and Post-operative Rehabilitation
- Authored protocols for 2008 Faculty of Medicine Senior Clerkship Communication Skills Curriculum
 - Guidelines for Requesting a Hospital Autopsy
 - Guidelines for Requesting Organ Donation
 - Helping Patients Progress Through the “States of Change”
- Co-applicant – 2007 BC Children’s Hospital Office of Pediatric Surgical Evaluation and Innovation Grant
 - Topic: Building interest and enthusiasm in clinical research among medical students
 - Agency: Teaching and Learning Enhancement Fund; funds requested: \$42,650

● **ANTHONY COOPER:** **Work Submitted:**

- Basheer S, Cooper AP, Balasubramanian B, Maheshwari R, Madan SS. “Arthroscopic treatment of femoroacetabular impingement following slipped capital femoral epiphysis”. Bone Joint J. Transmittal 26/01/2015

Work in Progress:

- Cooper AP, Fernandes JA. “What is the best treatment for proximal femoral focal deficiency?” In: Alshryda S, Huntley J, Banaszkiewicz PA, Editors. Paediatric

- Orthopaedics: An Evidence-Based Approach to Clinical Questions. Springer [initial draft in progress]

● **SHAFIQUE PIRANI:**

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

● **ALEC BLACK:**

- Industry – “Motion Capture for Animation” Taught for Vancouver Film School, 2005-Present

DEPARTMENT OF PEDIATRIC ORTHOPAEDIC SURGERY

2015-2016



FACULTY MEMBERS:

- ***Dr. Christopher W. Reilly, Department Head, Associate Professor UBC***
- ***Dr. Richard D. Beauchamp, Clinical Professor UBC***
- ***Dr. Anthony Cooper, Clinical Assistant Professor UBC***
- ***Dr. Christine M. Alvarez, Clinical Associate Professor UBC***
- ***Dr. Alec Black, Clinical Instructor UBC***
- ***Dr. U.K. Kishore Mulpuri, Associate Professor UBC***
- ***Dr. Firoz Miyanji, Clinical Assistant Professor UBC***
- ***Dr. Lise Leveille, Clinical Instructor UBC***
- ***Dr. Arvinder Ghag, Clinical Instructor UBC***
- ***Dr. Shafique P. Pirani, Clinical Professor UBC***

STAFF MEMBERS:

- **Brenda Whitworth**, Administrative Secretary
- **Emily Schaeffer**, Research for Drs. Reilly and Mulpuri
- **Tammie Teo**, Research for Drs. Reilly and Mulpuri
- **Harpreet Chhina**, Research for Dr. Alvarez and Dr. Cooper
- **Alyssa Howren**, Research for Dr. Alvarez
- **Michele Stark**, MOA to Dr. C. Reilly
- **Marilynn Timbrell**, MOA to Dr. C. Alvarez
- **Jennifer Farr**, MOA to Dr. K. Mulpuri and Dr. A. Cooper
- **Valerie Walsh**, MOA to Dr. F. Miyanji and Dr. A. Ghag
- **Melissa Hart**, MOA to Dr. Leveille
- **Anna Stonehouse**, MOA to Dr. S. Pirani
- **Lauren Paul**, Nurse Clinician
- **Wendy Krishnaswamy**, Nurse Clinician
- **Angela Nowak**, Clinic Nurse
- **Jennifer Dunlop**, Nurse Practitioner
- **Fidel Brooks**, Cast Technician
- **Ricardo Botia**, Cast Technician
- **Shelina Kabani**, Orthopaedic Clinic
- **Manjit Bains**, Orthopaedic Clinic
- **Victoria Lum**, Orthopaedic Clinic
- **Stacey Miller**, PT, CP Hip Surveillance
- **Tanya St. John**, PT, CP Ortho Clinic
- **Maria Juricic**, PT, Ortho Clinic
- **Daphne O'Young**, OT, Ortho Clinic

HIGHLIGHTS AND ACHIEVEMENTS:

DR. REILLY

Equipment:

- **EOS Machine**: \$2.4 million raised at the Crystal Ball (Foundation) to purchase the machine which is now in place; BCCH Foundation

- **EOS Tour** with donors held June 14, 2016

- **2 Taylor Spatial frame sets** purchased

- **Limb Deformity Program** progressing very well

- **Stephen J Tredwell Visiting Professor**

- **Education Day: Dr. Ernest Sink, Visiting Professor** BCCH Department of Orthopaedics, Vancouver, BC, November 20, 2015

DR. BEAUCHAMP

Honorary Membership Canadian Medical Association and BC Medical Association, July 2015 pseudomeningoceles.

DR. MIYANJI

Introduction of anterior vertebral tethering for treatment of adolescent idiopathic scoliosis; BC doctor first in Canada to use new procedure to treat scoliosis. May 2016, Press Release – Global BC News Hour for Miracle Weekend

DR. LEVEILLE

STELLA Award

DR. MULPURI

ABC Travelling Fellow to academic hospitals in the UK, Canada and the USA, April 18-May 24, 2015

POSNA – APPOS Travelling Fellowship – Education Day, BCCH Department of Orthopaedics, Vancouver, BC, April 18, 2016

DR. COOPER

AAOS/OREF/ORS Clinician Scholar Development Program

DR. GHAG

STELLA Award

01 TEACHING ACTIVITIES

*RESIDENT/FELLOW PRESENTATIONS PROVIDED IN ORTHOPAEDICS:***CHRIS
REILLY**

- *BCCH Fellow OPSEI Rounds, Moderator: Dr. Christopher Reilly "Where we've come from, where we're going, what we've learnt at BC Children's" June 2, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "Congenital Scoliosis", BCCH, July 28, 2015, Vancouver, BC*
- *OPSEI Academic Rounds, BCCH, "Orthopaedic Clinic Satisfaction Survey and the Use of Entonox in the Outpatient Setting" (Sophie Bockhold, Summer Student, Dept of Pediatric Orthopaedics" September 1, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "Bone and Soft Tissue Tumors", BCCH, September 29, 2015, Vancouver, BC*
- *OPSEI Academic Rounds, BCCH, "Economic Evaluation in Paediatric surgery" Moderator: Dr. Christopher Reilly Presenter: Dr. Ravi Ghag, October 6, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "The Lower Extremity", BCCH, March 18, 2016, Vancouver, BC*

**RICHARD
BEAUCHAMP**

- *Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, April 21, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, June 16, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, August 18, 2015, Vancouver, BC*

**CHRISTINE
ALVAREZ**

- *Resident/Fellow/Medical Student Teaching: "The Skeletal Dysplasias", BCCH, May 19, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "The Skeletal Dysplasias", BCCH, September 22, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "The Pediatric Orthopaedic Examination", BCCH, February 9, 2016, Vancouver, BC*
- *UBC Department of Orthopaedics Grand Rounds, VGH – BCCH – "Spina Bifida: The Continuum of Care into Adult years" Presenters: Dr. Ravi Ghag, Dr. Christine Alvarez, Dr. Clive Duncan, February 17, 2016, Vancouver, BC*

**KISHORE
MULPURI**

- *Resident/Fellow/Medical Student Teaching: "Bone and Soft Tissue Tumors", BCCH, April 14, 2015*
- *UBC Department of Orthopaedics Resident Half-Day: "Fractures of the Femur & Tibia; Excludes Hip Fractures & Ankle Fractures", VGH, June 4, 2015, Vancouver, BC*
- *Resident/Fellow/Medical Student Teaching: "Management of Fractures", BCCH, June 17, 2015*
- *Resident/Fellow/Medical Student Teaching: "The Upper Limb", BCCH, June 23, 2015*
- *Combined OPSEI – Evidence to Innovation Round, BCCH, Dr. Kishore Mulpuri, and Dr. Ian Pike*
- *"Update and formal introduction to the Evidence to Innovation (E2i) research theme" June 30, 2015*
- *Resident/Fellow/Medical Student Teaching: "The Pediatric Orthopaedic Examination", BCCH, September 15, 2015, Vancouver, BC*
- *UBC Department of Orthopaedics Resident Practice Orals, VGH, November 26, 2015*

01 TEACHING ACTIVITIES con't

RESIDENT/FELLOW PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't :

KISHORE MULPURI

- Resident/Fellow/Medical Student Teaching: "The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse", BCCH, November 27, 2015, Vancouver, BC
- UBC Department of Orthopaedics Grand Rounds, VGH, December 2, 2015, Vancouver, BC "2015 ABC Travelling Fellowship" Presenter: Dr. Kishore Mulpuri
- Resident/Fellow/Medical Student Teaching: "The Skeletal Dysplasias", BCCH, February 24, 2016, Vancouver, BC

FIROZ MIYANJI

- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, May 12, 2015, Vancouver, BC
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, August 11, 2015, Vancouver, BC
- Resident/Fellow/Medical Student Teaching: "Idiopathic Scoliosis", BCCH, October 20, 2015
- Surgical Suites Grand Rounds, CFRI, "Advancing the Surgical Care of Children through Interdisciplinary Teamwork" Presenters: Dr. Firoz Miyanji, Dr. Eleanor Reimer, Ms. Stephanie Turner, November 17, 2015, Vancouver, BC
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, January 19, 2016, Vancouver, BC

ANTHONY COOPER

- Resident/Fellow/Medical Student Teaching: "The Skeletal Dysplasias", BCCH, April 28, 2015
- Resident/Fellow/Medical Student Teaching: "Leg Length Discrepancy", BCCH, June 12, 2015
- Resident/Fellow/Medical Student Teaching: "The Child with a Limb Deficiency", BCCH, July 21, 2015, Vancouver, BC
- OPSEI Fellows' Academic Rounds, Vancouver, BC, August 4, 2015
- Moderators: Dr. Erik Skarsgard, Dr. Anthony Cooper)
- Resident/Fellow/Medical Student Teaching: "The Lower Extremity", BCCH, September 11, 2015
- Resident/Fellow/Medical Student Teaching: "The Child with a Limb Deficiency", BCCH, November 13, 2015, Vancouver, BC
- OPSEI Academic Rounds, Summer Student Research Presentations (moderator), January 8, 2016
- Resident/Fellow/Medical Student Teaching: "Bone and Soft Tissue Tumors", BCCH, February 19, 2016, Vancouver, BC

ARVINDER GHAG

- Resident/Fellow/Medical Student Teaching: "Idiopathic Scoliosis", BCCH, June 30, 2015
- Resident/Fellow/Medical Student Teaching: "Slipped Capital Femoral Epiphysis", BCCH, August 25, 2015, Vancouver, BC
- OPSEI Academic Rounds, BCCH, October 6, 2015, Vancouver, BC "Economic Evaluation in Paediatric surgery" Moderator: Dr. Christopher Reilly Presenter: Dr. Ravi Ghag
- Resident/Fellow/Medical Student Teaching: "Leg Length Discrepancy", BCCH, October 27, 2015
- Resident/Fellow/Medical Student Teaching: "Congenital Scoliosis", BCCH, December 8, 2015
- Resident/Fellow/Medical Student Teaching: "Idiopathic Scoliosis", BCCH, March 29, 2015

01 TEACHING ACTIVITIES con't

RESIDENT/FELLOW PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't :

LISE LEVEILLE

- Resident/Fellow/Medical Student Teaching: "The Upper Limb", BCCH, October 13, 2015
- Resident/Fellow/Medical Student Teaching: "Slipped Capital Femoral Epiphysis", BCCH, December 15, 2015, Vancouver, BC
- CaRMS "Regular" Interview Committee Meeting, VGH, December 17, 2015, Vancouver, BC
- OPSEI Academic Rounds, BCCH, "Rebound deformity after growth modulation: who gets it and how much" February 2, 2016, Vancouver, BC
- Resident/Fellow/Medical Student Teaching: "The Upper Limb", BCCH, March 8, 2016

FORMAL TEACHING:

KISHORE MULPURI

- SPPH 517 – Clinical Research Methods for Surgical Procedures, 2014
- INDE 420 – Musculoskeletal Clinical Skills Tutorial "Hip & Gait", Fall 2014
- SPPH 517 – Clinical Research Methods for Surgical Procedures, 2015

ANTHONY COOPER

- INDE 420 Musculoskeletal Clinical Skills tutorial "Upper Limb", October 2014
- SPPH 517 Clinical Research Methods for Surgical Procedures "Surgical Research in First Year of Practice", 2015
- UBC Department of Orthopaedics Resident Half-Day, "Deformities of the Lower Extremity, Rotation, Length & Alignment, Includes Lower Limb Deficiencies", Facilitator, May 28, 2015
- INDE 420 Musculoskeletal Clinical Skills tutorial "Knee, Foot & Ankle", Fall 2015

PEDIATRIC ORTHOPAEDIC:

FELLOWS SUPERVISED

- Dr. Siddesh Doddabasappa, Clinical Fellow (India) (finishing July 31, 2015)
- Dr. Alexander Aarvold, Clinical Fellow (UK) (finishing July 31, 2015)
- Dr. Lisa Phillips, Clinical Fellow (Canada) (finishing July 31, 2015)
- Dr. Sash Carsen, Clinical Fellow (Canada) (finishing July 31, 2015)
- Dr. Andrea Simmonds, Clinical Fellow (Canada) (August 1, 2016-July 31, 2017)
- Dr. Rubini Pathy, Clinical Fellow (Canada) (August 1, 2016-December 31, 2016)
- Dr. Lori Ann Archer, Clinical Fellow (Canada) (August 1, 2016-July 31, 2016)
- Dr. Ashlee Dobbe, Clinical Fellow (Canada) (August 1, 2016-July 31, 2016)

RESIDENTS SUPERVISED

- | | |
|--------------------|-----------------------|
| • Dr. Lisa Howard | • Dr. Simon Garceau |
| • Dr. Michael Bond | • Dr. Jason Strelzow |
| • Dr. Tym Frank | • Dr. Robert Petretta |

01 TEACHING ACTIVITIES con't

PEDIATRIC ORTHOPAEDIC:

RESIDENTS SUPERVISED

- *Dr. Jane Yeoh*
- *Dr. David Stockton*
- *Dr. Sebastian K*
- *Dr. Jacqueline Ngai*
- *Dr. Brad Ashman*
- *Dr. Michael Neufeld*
- *Dr. David Cruickshank*
- *Dr. Lauren Roberts*
- *Dr. Chad Johnson*

OTHER

- *Ped Rehab Resident:*
- *Dr. Cameron Cunningham (UBC)*

4TH YEAR PEDIATRIC RESIDENTS

- *Dr. Jatinder GTrewal*
- *Dr. Kaila Holtz*
- *Dr. Alison Nutter*

4TH YEAR ORTHO RESIDENT

- *Dr. Jonathan Lau (Queen's University)*
- *Dr. Christopher Chapman (University of Alberta)*
- Fellows:**
- *Dr. Pavan Judge (UBC PEM)*
- *Dr. Hathami Almubarak (UBC PEM)*

STUDENTS

- *4th Year Medical Students – April 1, 2015 – March 31, 2016: 29 students*
- *Year 3 Medical Students Pediatric Surgery: 2 students*
- *Year 2 Medical Students – observership: 2 students*
- *Year 2 Medical Student – working on research: 2 students*
- *Co-op Students (Research) – 7students*
- *Research Summer Students – 3 students*
- *High School Students (Research Volunteers) – 2 students*

BCIT PROSTHETIC ORTHOTICS

- *September 29-November 24, 2015 – 6 students*

SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

CHRIS
REILLY

- Miyajiri F, Reilly C, Choi J, Mok J, Nitikman M, Desai S. "Improving Quality and Safety in Pediatric Spine Surgery: The Team Approach". *Pediatric Orthopedic Society of North America Annual Meeting, Atlanta, Georgia, April 2015*
- Juan de Fuca 2015 Meeting: Delayed Diagnosis/Missed Injuries: Upper & Lower Extremity & Spine, "Upper extremity injuries – Pediatric", April 18, 2015, Victoria, BC
- Mulpuri K, Larouche P, Li J, Andrade J, Varghese RA, Reilly C. "Misinterpretation of "negative" results of superiority trials in orthopaedic literature: The need for non-inferiority trials". *Pediatric Orthopaedic Society of North America Annual Meeting, Atlanta, GA, April 29-May 2, 2015*
- Reilly C. "Pediatric Symposium: Tips for Tricky Trauma in Toddlers to Teenagers"
- Moderator: Dr. Sukhdeep Dulai
- Panelist: Dr. Christopher Reilly, Dr. Jochen Son-Hing, Dr. Martin Gargan
- Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015
- Reilly C, "Podium Presentation – Vertebral Fractures in Duchene's Muscular Dystrophy Patients Managed with Deflazacort". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Reilly C. "Podium Presentation – Internet-Administered Health Related Quality of Life Questionnaires Compared to Pen and Paper in an Adolescent Scoliosis Population: A Randomized Crossover Study". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Roberts LE, Strelzow J, Andrade J, Mulpuri K, Reilly C, Cooper A. "Non-operative Treatment of Type IIA Supracondylar Fractures: comparing two modalities". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Miyajiri F, Yaszay B, Reilly C, Asghar J, Cahill PJ, Samdani A. "Temporary Intraoperative Instrumentation of Lowest Instrumented Vertebra + 1: A Novel Technique to Help Minimize Extent of Arthrodesis in AIS". *International Meeting of Advanced Spinal Techniques, Kuala Lumpur, Malaysia, July 2015*
- Reilly C. "Invited Speaker: Diaphanospondylodysostosis, Early Onset Scoliosis, and Veptir Management, What Is The Exit Strategy", *International Pediatric Orthopaedic Think Tank Annual Meeting, Vienna, Austria, September 17-29, 2015*
- Reilly C, "The Rate and Risk of Curve Progression following Skeletal Maturity: Does the Story End with Curve Magnitude?" Abstract for POSNA 2016". *Scoliosis Research Society, October 2015*
- Reilly C. SMA Expert Panel, "Symposia – The Team Approach to Spine Surgery", *Canadian Spine Society Annual Meeting, February 25, 2016*
- Reilly C. "Putting it all together – how to establish, implement, and maintain A PSST" *Canadian Spine Society Symposia – The Team Approach to Spine Surgery. Canadian Spine Society Annual Meeting, February 25, 2016*
- Miyajiri F, Reilly C, Choi J, Mok J, Nitikman M, Desai S. "Improving Quality and Safety in Pediatric Spine Surgery: The Team Approach" *American Academy of Orthopaedic Surgeons Annual Conference, Orlando, Florida, USA, March 2016*

02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS

CHRIS REILLY

- Miyanji F, Reilly C, Shah S, Clements D, Samdani A, Desai S, Lonner B, Shufflebarger H, Betz R, Newton P. "The Rate and Risk of Curve Progression following Skeletal Maturity – Does the Story End with Curve Magnitude?" American Academy of Orthopaedic Surgeons Annual Conference, Orlando, Florida, USA, March 2016
- Aarvold A, Fortes C, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP. "Standing weight bearing MRI for evaluation of Legg-Calve-Perthes disease: A pilot study". Podium presentation, British Society for Children's Orthopaedic Surgery Annual Meeting, Buckinghamshire, UK, March 2016

RICHARD BEAUCHAMP

- Leveille La, Richardson S, Mulpuri K, Black A, Beauchamp R. "Gastrocnemius recession compared to tendo-achilles lengthening for surgical correction of equinus deformity in children with cerebral palsy: Are we under or over correcting based on gait analysis?" Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015

KISHORE MULPURI

- Quader N, Hodgson A, Mulpuri K, Savage T, Abugharbich R. "Automatic assessment of developmental dysplasia of the hip". 2015 IEEE 12th International Symposium on Biomedical Imaging (ISBI), Brooklyn, NY, April 16-19, 2015
- "Randomized controlled trials in pediatric orthopaedics". American-British-Canadian (ABC) Travelling Fellowship, London, UK, April 20-23, 2015
- "Slipped capital femoral epiphysis". American-British-Canadian (ABC) Travelling Fellowship, London, UK, April 20-23, 2015
- "Reconstruction of hip in cerebral palsy". American-British-Canadian (ABC) Travelling Fellowship Norwich, Norfolk, UK, April 27-28, 2015
- "Legg-Calve-Perthes disease: Hundred years later". American-British-Canadian (ABC) Travelling Fellowship, Glasgow, UK, April 30-May 2, 2015
- "Surgical randomized controlled trials – Need for non-inferiority trials". American-British-Canadian (ABC) Travelling Fellowship, Edinburgh, UK, May 3-6, 2015
- "Pediatric hip: Are we there yet?" American-British-Canadian (ABC) Travelling Fellowship, Perth, Australia, May 10-12, 2015
- Legg-Calve-Perthes disease: Hundred years later". American-British-Canadian (ABC) Travelling Fellowship, Sydney, Australia, May 13-14, 2015
- "Slipped capital femoral epiphysis". American-British-Canadian (ABC) Travelling Fellowship, Melbourne, Australia, May 15-16, 2015
- "Clinical practice guidelines in orthopaedics". "Slipped capital femoral epiphysis". American-British-Canadian (ABC) Travelling Fellowship, Christ Church, New Zealand, May 19-20, 2015
- Legg-Calve-Perthes disease: Hundred years later". American-British-Canadian (ABC) Travelling Fellowship, Auckland, New Zealand, May 21-22, 2015
- Mulpuri K, Aarvold A, Kelley S, Clarke N, Herrera-Soto JA, Price CT. "Pavlik treatment for dislocated but irreducible hips in infants aged <6 months: Unilateral hips have high success rate, bilateral hips are doomed to failure". Pediatric Orthopaedic Society of North America Annual Meeting, Atlanta, GA, April 29-May 2, 2015
- Mulpuri K, Phillips L, Hesketh K, Andrade J, Farr J. "Avascular necrosis in children with cerebral palsy after reconstructive hip surgery". Pediatric Orthopaedic Society of North America Annual Meeting, Atlanta, GA, April 29-May 2, 2015

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS

KISHORE
MULPURI

- Mulpuri K, Andrade J, Williams N, Sankar WN, Matheney TH, Castaneda P, Clark N, Price CT. "Risk factors for late presenting developmental dysplasia of the hip from a multi-center, prospective study group". *Pediatric Orthopaedic Society of North America Annual Meeting, Atlanta, GA, April 29-May 2, 2015*
- Mulpuri K, Larouche P, Li J, Andrade J, Varghese RA, Reilly CW. "Misinterpretation of "negative" results of superiority trials in orthopaedic literature: The need for non-inferiority trials". *Pediatric Orthopaedic Society of North America Annual Meeting, Atlanta, GA, April 29-May 2, 2015*
- *Canadian Orthopaedic Association Annual Meeting, June 17-20, 2016, Vancouver, BC*
- "ICL3: Foot and Ankle/Paediatrics: Bridging the Gap between Paediatricians and Foot and Ankle Surgery" (Moderator: Dr. Angela Scharfenberger) Symposium 1: Patient Safety and Quality in Orthopaedics Moderator: Dr. Kishore Mulpuri, Dr. Doug Cochrane, June 18, 2015
- Symposium 3: Practice management, Education in Orthopaedics (Evaluating Quality in Orthopaedics from Residency Training to Practice Moderators: Dr. Bas Masri, Dr. Laurence Marsh)
- "Fireside Chats: Bring your Tough Case and Let's Talk About It" (informal case discussion) Paediatrics: Dr. Kishore Mulpuri, Dr. Sukhdeep Dulai, June 18, 2015
- Roberts LE, Strelzow J, Andrade J, Mulpuri K, Reilly C, Cooper A. "Non-operative Treatment of Type IIA Supracondylar Fractures: comparing two modalities". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Aarvold A, Kelley SP, Herrera-Soto J, Price C, Clarke N, Mulpuri K. "The effectiveness of Pavlik harness treatment for fixed congenital dislocations of the hip". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Goldberg M, Mulpuri K, Song KM, Mohiuddin M, Spooner A, Zehr B, Lehmann HP, Cummins D. "Detection and non-operative management of paediatric developmental dysplasia of the hip in infants". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Nitikman M, Mulpuri K, Reilly CW. Internet-administered health related quality of life questionnaires compared to pen and paper in an adolescent scoliosis population: A randomized crossover study". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Phillips L, Vasireddi A, Andrade J, Mulpuri K. "Health-related quality of life outcomes in paediatric literature". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Leveille La, Richardson S, Mulpuri K, Black A, Beauchamp R. "Gastrocnemius recession compared to tendo-achilles lengthening for surgical correction of equinus deformity in children with cerebral palsy: Are we under or over correcting based on gait analysis?" *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- O'Young D, Juricic M, Hesketh K, Phillips L, Schaeffer EK, Mulpuri K. "Give me a break! Does post-surgical immobilization increase the risk of low trauma fractures in children with cerebral palsy post hip surgery?" *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*
- Phillips L, Hesketh K, Andrade J, Farr J, Mulpuri K. "Avascular necrosis in children with cerebral palsy after reconstructive hip surgery". *Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015*

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS con't :

KISHORE
MULPURI

- Mulpuri K, Andrade J, Williams N, Sankar WN, Matheney TH, Castaneda P, Clarke NMP, Price CT. "Risk factors for late presenting developmental dysplasia of the hip from a multi-centre prospective study group". Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015.
- Mulpuri K. "The 'golden rules' of hip fractures and dislocations treatment". Sainte-Justine Pediatric Orthopaedic Review Course, Montreal, QC, March 9-11, 2016
- Mulpuri K. "DDH before walking age: Treatment options". Sainte-Justine Pediatric Orthopaedic Review Course, Montreal, QC, March 9-11, 2016
- Jones CE, d'Entremont AG, Cooper AP, Doucette J, Buchan LL, Wilson DR, Mulpuri K. "How Do Errors In Frog-lateral Plane Positioning Effect Southwick Angle Measurements?" Poster presentation, Orthopaedic Research society Annual Meeting, Orlando, USA, March 2016
- Aarvold A, Fortes C, Chhina H, Reily C, Wilson D, Mulpuri K, Cooper AP. "Standing weight bearing MRI for evaluation of Legg-Calve-Perthes disease: A pilot study". Podium presentation, British Society for Children's Orthopaedic Surgery Annual Meeting, Buckinghamshire, UK, March 2016

FIROZ
MIYANJI

- Yaszay B, Sponseller P, Shah S, Asghar J, Miyajni F, Samdani A, Bartley C, Newton P. "Performing a Definitive Fusion in Juvenile CP Patients is a Good Surgical Option". Pediatric Orthopedic Society of North America Annual Meeting, Atlanta, Georgia, April 2015
- Hollenbeck S, Yaszay B, Sponseller P, Shah S, Asghar J, Abel M, Miyajni F, Newton P. "The Pros and Cons of Operating Early vs Late in the Progression of CP Scoliosis". Pediatric Orthopedic Society of North America Annual Meeting, Atlanta, Georgia, April 2015
- Miyajni F, Nitikman M, Desai S. "MIS in AIS: Lessons Learned at 2-year Follow-up". Pediatric Orthopedic Society of North America Annual Meeting, Atlanta, Georgia, April 2015
- Miyajni F, Reilly C, Choi J, Mok J, Nitikman M, Desai S. "Improving Quality and Safety in Pediatric Spine Surgery: The Team Approach". Pediatric Orthopedic Society of North America Annual Meeting, Atlanta, Georgia, April 2015
- Samdani AF, Bastrom T, Ames RJ, Miyajni F, Pahys JM, Marks MC, Lonner BS, Newton PO, Shufflebarger HL, Yaszay B, Cahill PJ, Betz RR. "What is Different About Patients with Adolescent Idiopathic Scoliosis who Achieve a Minimal Clinically Important Difference (MCID) in Appearance". International Meeting on Advanced Spine Techniques, Kuala Lumpur, Malaysia, July 2015
- Bartley EB, Yaszay B, Bastrom T, Shah SA, Lonner BS, Asghar JK, Miyajni F, Samdani AF, Newton PO. "Peri-operative and delayed major complications following surgical correction of AIS in 3530 patients". International Meeting of Advanced Spinal Techniques, Kuala Lumpur, Malaysia, July 2015
- Yaszay B, Bastrom T, Sponseller P, Shah S, Miyajni F, Asghar J, Cahill P, Samdani A, Newton P. "Back Pain in Cerebral Palsy in Markedly Reduced after Spinal Fusion in Scoliosis". International Meeting of Advanced Spinal Techniques, Kuala Lumpur, Malaysia, July 2015
- Miyajni F, Yaszay B, Reilly C, Asghar J, Cahill PJ, Samdani A. "Temporary Intraoperative Instrumentation of Lowest Instrumented Vertebra + 1: A Novel Technique to Help Minimize Extent of Arthrodesis in AIS". International Meeting of Advanced Spinal Techniques, Kuala Lumpur, Malaysia, July 2015
- Miyajni F, Nitikman M, Desai S. "MIS in AIS: Lessons Learned at 2-Year Follow-up". International Meeting of Advanced Spinal Techniques, Kuala Lumpur, Malaysia, July 2015

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS con't :

FIROZ
MIYANJI

- Miyanji F, Doddabasappa S. "Posterior Vertebral Column Resection: The Advantages of Staging". Scoliosis Research Society Annual Meeting, Minneapolis, Minnesota, USA, September 2015
- Miyanji F, Desai S, Samdani A, Shah S, Asghar J, Yaszay B, Shufflebarger H, Betz R, Newton P. "Two-year Follow-up in spine Clinical Research: An Adequate Benchmark?" Scoliosis Research Society Annual Meeting, Minneapolis, Minnesota, USA, September 2015
- Samdani A, Ames R, Asghar J, Orlando G, Pahys J, Yaszay B, Miyanji F, Lonner B, Lehman R, Newton P, Cahill P, Betz R. "Significant Intraoperative Neuromonitoring Alerts in Patients Undergoing Fusion for AIS: What Are the Outcomes of Surgery?" Scoliosis Research Society Annual Meeting, Minneapolis, Minnesota, USA, September 2015
- Miyanji F, Nitikman M, Desai S, Simmonds A. "MIS in AIS: Lessons Learned at 2-Year Follow-up". Society for Minimally Invasive Spine Surgery, Las Vegas, USA, November 2015
- Miyanji F, Desai S, Samdani A, Shah S, Asghar J, Yaszay B, Shufflebarger H, Betz R, Newton P. "2-Year Follow-up in Spine Clinical Research: An Adequate Benchmark?" Canadian Spine Society Annual Meeting, Whistler, BC, Canada, February 2016
- Miyanji F, Desai S, Samdani A, Shah S, Asghar J, Yaszay B, Shufflebarger H, Betz R, Newton P. "2-Year Follow-up in Spine Clinical Research: An Adequate Benchmark?" American Academy of Orthopaedic Surgeons Annual Conference, Orlando, Florida, USA, March 2016
- Miyanji F, Reilly C, Choi J, Mok J, Nitikman M, Desai S. "Improving Quality and Safety in Pediatric Spine Surgery: The Team Approach" American Academy of Orthopaedic Surgeons Annual Conference, Orlando, Florida, USA, March 2016
- Miyanji F, Reilly C, Shah S, Clements D, Samdani A, Desai S, Lonner B, Shufflebarger H, Betz R, Newton P. "The Rate and Risk of Curve Progression following Skeletal Maturity – Does the Story End with Curve Magnitude?" American Academy of Orthopaedic Surgeons Annual Conference, Orlando, Florida, USA, March 2016
- Habib E, Miyanji F, Reilly C, Shah S, Clements D, Samdani A, Desai S, Lonner B, Shufflebarger H, Betz R, Newton P. "The Rate and Risk of Curve Progression following Skeletal Maturity – Does the Story End with Curve Magnitude?" Canadian Orthopaedic Association Annual Meeting, Quebec City, Canada, June 2016

ANTHONY
COOPER

- Presenter and Delegate at Tucson Emergency Medicine CME Cycling Conference. "Common Emergencies in Pediatric Orthopaedics", Tucson, Arizona, April 15-18, 2015
- Roberts LE, Strelzow J, Andrade J, Mulpuri K, Reilly C, Cooper AP. "Non-operative Treatment of Type IIA Supracondylar Fractures: comparing two modalities". Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 17-20, 2015
- International Society for Quality of Life Research, "Using innovative methods to inform instrument development and understand patient preferences: how Group Concept Mapping and other creative approaches can be used to capture the experiences and priorities of patients", ISOQOL Annual Conference, Vancouver, BC, October 2015
- International Society for Quality of Life Research, "Introducing the Concept of Response Shift – an Overview of theory & Methods", ISOQOL Annual Conference, Vancouver, BC, October 2015
- Sepheri A, Chhina H, Courtemanche D, Cooper AP. "The multiplier method for predicting limb length discrepancy in patients with vascular anomalies in the lower limb". International Limb Lengthening and Reconstruction Society, ILLRS Annual Congress, Miami, Florida, USA, November 2015

02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS

ANTHONY COOPER

- *St. Louis University School of Medicine and Washington University School of Medicine, St. Louis Hip Skills Course: Hip Arthroscopy and Preservation Procedures. St. Louis, MO, USA, January 2016*
- *Jones CE, d'Entremont AG, Cooper AP, Doucette J, Buchan LL, Wilson DR, Mulpuri K. "How Do Errors In Frog-lateral Plane Positioning Effect Southwick Angle Measurements?" Poster presentation, Orthopaedic Research society Annual Meeting, Orlando, USA, March 2016*
- *Aarvold A, Fortes C, Chhina H, Reily C, Wilson D, Mulpuri K, Cooper AP. "Standing weight bearing MRI for evaluation of Legg-Calve-Perthes disease: A pilot study". Podium presentation, British Society for Children's Orthopaedic Surgery Annual Meeting, Buckinghamshire, UK, March 2016*

ARVINDERA GHAG

- *North American Spine Society Annual Meeting, Chicago, ILL, 2015 (Attendee)*

LISE LEVEILLE

- *Podium Presentation – "Rebound deformity after growth modulation in patients with coronal plane angular deformities about the knee: who gets it and how much?" Brandon Carrell Visiting Professorship, Dallas TX, June 2015*
- *Podium Presentation – "Do we have to Tension Wires? A biomechanical study of circular external fixation using a hindfoot model" Brandon Carrell Visiting Professorship, Dallas TX, June 2015*
- *Poster Presentation – "Gastrocnemius recession compared to tendo-achilles lengthening for surgical correction of equinus deformity in children with cerebral palsy: Are we under or over correcting based on gait analysis?" Canadian Orthopaedic Association Annual Meeting, Vancouver, BC, June 2015*
- *Podium Presentation – "Do we have to Tension Wires? A biomechanical study of circular external fixation using a hindfoot model", International Limb Lengthening and Reconstruction Society Congress Meeting, November 2015*
- *Poster Presentation – "Gastrocnemius recession compared to tendo-achilles lengthening for surgical correction of equinus deformity in children with cerebral palsy: Are we under or over correcting based on gait analysis?". American Academy for Cerebral Palsy and Developmental medicine Annual Meeting, October 2015*

SHAFIQUE PIRANI

- *Keynote Speaker, Facilitator. "Current Concept on Ponseti Method, Identifying areas for research (group work), Assessment & Scoring – Problems and Prospects." National Clubfoot Conference, Cure International India, New Delhi, April 18-19, 2015.*

02

SCHOLARLY & PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CRCBA	PEDIATRIC HIP RESEARCH /IMAGING RESEARCH UNIT	C	125,000	2014 - 2019	K MULPURI	C REILLY D WILSON H MACDONALD A D'ENTREMONT A COOPER
CANADIAN INSTITUTES OF HEALTH RESEARCH (CIHR)	OUTCOME OF HIP INTERVENTIONS FOR CHILDREN WITH CEREBRAL PALSY – AN INTERNATIONAL MULTI-CENTER PROSPECTIVE COMPARATIVE COHORT STUDY	C	520,000	2014 - 2019	U NARAYANAN	K MULPURI P SELBER R HAMDY
INTERNATIONAL HIP DYSPLASIA INSTITUTE (IHDI)	PROSPECTIVE OBSERVATIONAL COHORT STUDY OF CHILDREN WITH HIPS DISLOCATED AT REST	C	300,000	2014 - 2019	K MULPURI	
CHILD AND FAMILY RESEARCH INSTITUTE CAPACITY BUILDING AWARD	PEDIATRIC ORTHOPAEDIC HIP RESEARCH/ IMAGING RESEARCH UNIT	C	125,000	2014- 2019	K MULPURI	
UBC ORTHOPAEDIC RESEARCH EXCELLENCE FUND (OREF)	IMPLEMENTATION OF AN AUTOMATED ULTRASOUND METHODOLOGY TO IMPROVE SCREENING AND DETECTION OF DEVELOPMENTAL DYSPLASIA OF THE HIP	C	22,000	2015- 2016	A HODGSON	K MULPURI R ABUGHARBICH
COLLABORATIVE HEALTH RESEARCH PROJECTS (CHRP)	USING -3DIMENSIONAL ULTRASOUND TO IMPROVE DIAGNOSIS, GUIDE SURGERY AND REDUCE RADIATION IN ORTHOPAEDIC TRAUMA AND PEDIATRIC ORTHOPAEDICS	C	285,110	2015- 2017	A HODGSON P GUY	K MULPURI R ABUGHARBICH
UBC ORTHOPAEDIC RESEARCH EXCELLENCE FUND (OREF)	SCREENING FOR DEVELOPMENTAL DYSPLASIA OF THE HIP: A CHARACTERIZATION OF RISK FACTORS	C	20,000	2016- 2017	K MULPURI	A COOPER EK SCHAEFFER
IACCT TRAINEE CLINICAL INVESTIGATOR SEED GRANT COMPETITION, CFRI	USE OF FUNCTIONAL WEIGHT BEARING MRI TO EVALUATE FEMORAL HEAD DEFORMITY AND EXTRUSION IN LEGG-CALVE PERTHES DISEASE: A PILOT STUDY	C	7,500	2014 - 2015	A COOPER (SUPERVISOR) TRAINEE CLINICAL INVESTIGATOR: A AARVOLD	C REILLY K MULPURI
INTERNATIONAL HIP DYSPLASIA INSTITUTE	PROSPECTIVE OBSERVATIONAL COHORT STUDY OF CHILDREN WITH HIPS DISLOCATED AT REST	C	300,000	2014 -2019	K MULPURI	
POSNA STAR START-UP GRANT	TYPE II PEDIATRIC SUPRACONDYLAR HUMERUS FRACTURE MANAGEMENT AND OUTCOMES: A PROSPECTIVE MULTI-CENTRE COHORT STUDY	C	9,938 (USD)	2015	C REILLY	
CIHR	SIMPLE BONE CYST IN KIDS	C	1,000 PER SUBJECT	2014 - 2015	JG WRIGHT	AS DORIA S HOPYAN J STIMEC P BABYN A COOPER (COLLABORATOR / SITE PI)

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
RARE DISEASE FOUNDATION	EFFECT OF FEMORAL EPIPHYSIS POSITION AND PIN LOCATION ON IMPINGEMENT IN SCFE: A GEOMETRICAL MODELING STUDY	C	3,500	2014 - 2015	K A D'ENTREMONT	K MULPURI A COOPER D WILSON
RARE DISEASE FOUNDATION	ACCURACY OF DEFORMITY IN SLIPPED CAPITAL FEMORAL EPIPHYSIS: A GEOMETRICAL MODELING STUDY	C	3,500	2014 - 2015	A D'ENTREMONT	K MULPURI A COOPER D WILSON
RARE DISEASE FOUNDATION	SCREW TRAJECTORY IN DIFFERENT FEMORAL NECK GEOMETRIES IN SLIPPED CAPITAL FEMORAL EPIPHYSIS: A GEOMETRICAL MODELING STUDY	C	3,500	2014 - 2015	A COOPER	K MULPURI A D'ENTREMONT
UBC OREF	DEVELOPMENT AND VALIDATION OF A PATIENT REPORTED OUTCOME INSTRUMENT FOR CHILDREN WITH LOWER LIMB DEFORMITIES	C	32,000	2015 -2017	A COOPER	K MULPURI A KLASSEN J KOPEC
POSNA START-P RESEARCH GRANT	MULTI-CENTRE PIN SITE INFECTION STUDY	C	9,840 (USD)	2016-2017	A COOPER	K MULPURI S SABBARWAL S MADAN S KELLEY U NARAYANAN C IOBST S DULAI P FOSTER R LIU
CFRI IGAP	PEDIATRIC LIMB RECONSTRUCTION	C	54,000	2016-2021	A COOPER	
RARE DISEASE FOUNDATION	EXOME SEQUENCING IN CONGENITAL PSEUDARTHROSIS OF TIBIA	C	3,500	2016-2017	A COOPER	C VAN KARNEBEEK
UBC PLASTIC SURGERY ACADEMIC GRANT	EVALUATING THE ACCURACY OF THE PALEY MULTIPLIER METHOD FOR PREDICTING LIMB LENGTH DISCREPANCY IN POPULATIONS WITH VASCULAR ANOMALIES	C	4,200.54	2016-2017	A COOPER	D COURTEMACHE W MOSS H CHHINA A SEPHERI E LEE
UBC OREF	SCREENING FOR DEVELOPMENTAL DYSPLASIA OF THE HIP: A CHARACTERIZATION OF RISK FACTORS	C	20,000	2016-2017	K MULPURI	E SCHAEFFER A COOPER
CIDA	SUSTAINABLE CLUBFOOT CARE IN BANGLADESH	C	4,320,160 (OVER 5 YEARS)	2012-2017	SP PIRANI	R MAHIAS
STELLA AWARD	RESEARCH	NC	4,500	2015	A GHAG	
OPSEI STELLA AWARD	RESEARCH	NC	5,000	2015	L LEVEILLE	
OPSEI & ORTHOPAEDICS	SUMMER STUDENT START-UP FUND	NC	10,000	2015	L LEVEILLE	
CHILD AND FAMILY RESEARCH INSTITUTE	EVIDENCE TO INNOVATION	NC	8,400	2015-2018	K MULPURI I PIKE	

02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

GRANTING AGENCY	TITLE	YEAR	PI	CO-PI
BCCHF CIRCLE OF CARE	PEDIATRIC ORTHOPAEDIC RESEARCH SUPPORT	NC 20,000	2014	C REILLY
BCCHF CIRCLE OF CARE	PEDIATRIC ORTHOPAEDIC RESEARCH SUPPORT	NC 20,000	2014	K MULPURI
BCCHF CIRCLE OF CARE	PEDIATRIC ORTHOPAEDIC RESEARCH SUPPORT	NC 20,000	2015	K MULPURI
BCCHF CIRCLE OF CARE	PEDIATRIC ORTHOPAEDIC RESEARCH SUPPORT	NC 20,000	2015	K MULPURI

03 COMMITTEE PARTICIPATION

CHRIS REILLY

- *Child and Family Research Institute, Member*
- *Centre for Hip Health, Member*
- *Royal College Subspecialty Committee, Member*
- *Orthopaedic Re-design Committee, BCCH, Member*
- *Department of Paediatric Orthopaedic Surgery, BCCH, Dept. Head*
- *Surgical Cabinet Meeting, Member*
- *Surgical Services Advisory Committee (SSAC), Member*
- *The Department of Pediatric Surgery Surgical Cabinet, Member*
- *Department Heads, Division Heads and Senior Medical Directors Committee, Member*
- *CST Design Work for Ambulatory, Member (2013-Present)*
- *SSC Project TCON (Complex Orthopaedic) Committee, Member (2015-Present)*
- *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, Board – Member at Large*
- *Pediatric Orthopaedic Society of North America Association of Surgical Educators, Member*
- *American Academy of Orthopaedic Surgeons, Member*
- *Canadian Orthopaedic Association, Member*
- *Scoliosis Research Society, Member*
- *International Pediatric Orthopaedic Think Tank, 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*

03 COMMITTEE PARTICIPATION con't

RICHARD BEAUCHAMP

- *Shriner's Gait Lab, Sunny Hill Health Centre, Medical Director (BCCH)*
- *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*
- *Promotions Committee, UBC Department of Orthopaedics, Member*
- *Galiano Health Care Society Board, Member*

CHRISTINE ALVAREZ

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

03

COMMITTEE PARTICIPATION con't

**KISHORE
MULPURI**

- *Centre for Hip Health, Member*
- *Evidence Based Medicine Committee, Pediatric Orthopaedic Society of North America, Member*
- *President's Subspecialty Advisory Council, Canadian Orthopaedic Association, Member*
- *Pediatric Orthopaedics Sub-Specialty, Canadian Orthopaedic Association, Program Committee & Chair*
- *Innovative Acute Care and Technologies Cluster (iACT) Steering Committee, Child and Family Research Institute, BCCH Representative*
- *Research Committee on Child Restraint Seat Safety, Member*
- *BC Hip Surveillance Initiative, Improving Care for Children in British Columbia with Cerebral Palsy, International Hip Dysplasia Institute, Medical Advisory Committee, Research Director*
- *American Academy of Orthopaedic Association Society on Developmental Hip Dysplasia, Committee Chair*
- *International Perthes Study Group, Member*
- *American Academy of Orthopaedic Surgeons – DDH Clinical Practice Group, Chair*
- *American Academy of Orthopaedic Surgeons – Pediatric Supracondylar Humerus Fractures, Member – Appropriate Use Criteria*
- *UBC Tenure and Promotions Committee, Department of Orthopaedics, Member*
- *UBC Resident Selection Committee, Member*
- *UBC Clinical Ethics Research Board, Member*
- *CFRI Research Leadership Council, Member*
- *Medical Staff Association, BC Children's Hospital Redevelopment Committee, Member*
- *Clinical Research Council, Member*
- *Medical Staff Relocation Committee, Member*
- *Balaji Institute of Surgery, Research and Rehabilitation for the Disabled (BIRRD), Volunteer in Tirupati, India*
- *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*
- *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*

03 COMMITTEE PARTICIPATION con't

FIROZ MIYANJI

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

ARVINDERA GHAG

- *Canadian Orthopaedic Association, Member*
- *American Academy of Orthopaedic Surgeons, Member*
- *North American Spine Society, Member*
- *Medical Council of Canada, Member*
- *General Medical Council, United Kingdom, Member*
- *British Columbia Medical Association, Member*

LISE LEVEILLE

- *Pediatric Orthopedic Society of North America, Member*
- *Canadian Orthopaedic Association, Member*
- *B.C. Medical Association, Member*
- *Canadian medical Association, Member*

ANTHONY COOPER

- *Trauma Steering Committee, Member, BC Children's Hospital*
- *Co-Lead of CFRI Innovative Care & Technologies Group, Member*
- *Canadian Orthopaedic Association, Scientific Review Board*
- *Canadian Paediatric Orthopaedic Group, Treasurer*
- *Pediatric Orthopaedic Society of North America, Active Member*

SHAFIQUE PIRANI

- *College of Physicians & Surgeons of BC, Member*
- *British Columbia Medical Association, Member*
- *Canadian Orthopaedic Association, Member*
- *Canadian Paediatric Orthopaedic Group, Member*
- *American Board of Orthopaedic Surgery, Member*
- *American Academy of Orthopaedic Surgeons, Member*
- *Avicenna Physicians Society, 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*
- *Pediatric Orthopaedic Society of North America, Chair Medical Advisory Board*

03

COMMITTEE PARTICIPATION con't

**SHAFIQUE
PIRANI**

- *Pediatric Orthopaedic Society of North America, Children's Orthopaedics in Underdeveloped Regions (COUR) Committee, Member*
- *Pediatric Orthopaedic Society of North America, Children's Orthopaedics in Underdeveloped Regions (Global HELP International Board) Member*
- *Avicenna Physicians Society, Member*
- *The International Clubfoot Study Group, Member*
- *The Rotary Club of Burnaby, Member*
- *End Clubfoot Now RAG (Rotary Action Group), Member*
- *Westminster Surgical Journal Club, Member*

ALEC BLACK

- *Gait and clinical Motion Analysis Society, Member*

04

PUBLICATION RECORDS

REFEREED PUBLICATIONS

**CHRIS
REILLY**

1. Wang JCC, Mallic C, Reilly C, Verchere C. "Microtia reconstruction and post-surgical Grisel's syndrome – A rare cause of torticollis in the pediatric population". *PRS-GO*, June 2014
2. Reilly C. "BMPER variants associated with a novel, attenuated subtype of diaphanospondylodysostosis". *Journal of Human Genetics* (submitted June 2014)
3. Miyajni F, Newton PO, Samdani AF, Shah SA, Varghese RA, Reilly CW, Mulpuri K. "The Impact of Surgical Waitlist Times on Scoliosis Surgery: The Surgeon's Perspective". *Spine* Jun; 40(11):823-828 2015
4. Reilly C. "Book Chapter: Thoracoplasty". Publisher: *Master Techniques in Orthopaedic Surgery – Pediatrics*. Editor: David L Skaggs, Lippincott Williams & Wilkins, 2015
5. Nitikman M, Mulpuri K, Reilly CW. "Internet-administered health related quality of life questionnaires compared with pen and paper in an adolescent scoliosis population: A randomized crossover study". *J Pediatr Orthop*. 2016. [Epub ahead of print]

**CHRISTINE
ALVAREZ**

1. Howren A, Jamieson D, Alvarez C. "Early ultrasonographic evaluation of idiopathic clubfeet treated with manipulations, casts, and botox: A double-blind randomized control trial". *Journal of Children's Orthopaedics*, 9(1)(2015):85-91

**KISHORE
MULPURI**

1. Mulpuri K. "Screening for development dysplasia of the hip: an evidence-based approach to practice. This Changed My Practice: UBC Continuing Professional Development". <http://www.mailoutinteractive.com/Industry/View.aspx?id=759572&q=9742210368&qz=38e564>. Published January 20, 2016
2. Miyajni F, Newton PO, Samdani AF, Shah SA, Varghese RA, Reilly CW, Mulpuri K. "The Impact of Surgical Waitlist Times on Scoliosis Surgery: The Surgeon's Perspective". *Spine* 2015; 40(11):823-8. DOI:10.1097/BRS.0000000000000205. CA (IF 2.297; Citations 1)
3. d'Entremont AG, Cooper AP, Johari A, Mulpuri K. "What clinimetric evidence exists for using hip-specific patient-reported outcome measures in pediatric hip impingement? *Clin Orthop Relat Res*. 2015 Apr; 473(4):1361-1367. DOI:10.1007/s11999-014-4027-6. SA (IF 2.765; Citations 1)

04 PUBLICATION RECORDS con't

REFEREED PUBLICATIONS

KISHORE
MULPURI

4. Hyman JE, Trupia EP, Wright ML, Matsumoto H, JO CH, Mulpuri K, Joseph B, Kim HKW. "International prthes Study Group Members. Interobserver and intraobserver reliability of the modified Waldenstrom classification system for staging of Legg-Calve-perthes disease". *J bone Joint Surg Am.* 2015;97(8):643-50. DOI:10.2106/JBJS.N.00887. CA (IF 5.28; Citation 1)
5. Mulpuri K, Song KM, Gross RH, et al. "The American Academy of Orthopaedic Sureons evidence-based guideline on detection and non-operative management of pediatric developmental dysplasia of the hip in infants up to six months of age". *J Bone Joint Surg Am.* 2015;97:1717-1718. FA (IF 5.28)
6. Jones CE, Cooper AP, Doucette J, Buchan LL, Wilson DR, Mulpuri K, d'Entremont AG. "Relationships between severity of deformity and impingement in slipped capital femoral epiphysis". *J Pediatr Orthop.* 2015 Sep 9 (Epub ahead of print) PMID: 26356312. Impact Factor: 1.474
7. Narayanan U, Mulpuri K, Sankar WN, Clarke NMP, Hosalkar H, Price CT. "Reliability of a new radiographic classification for development dysplasia of the hip". *J Pediatr Orthop.* 2015;35:478-484. Doi:10.1097/BPO.0000000000000318.CA (IF1.474; Citations 5)
8. Dodwell E, Dua S, Dulai SK, Astone K, Mulpuri K. "The quality of randomized controlled trials I pediatric orthopaedics: Are we improving?" *J pediatric Orthop.* 2015;35-536-545. Doi.10.1097/BPO.0000000000000324. SA (IF 1.474; Citations 1)
9. Vaccaro AR, Fisher CG, Prasad SK, Patel AA, Chi J. Mulpuri K, Thomas KC, Whang PG. "Evidence-based recommendations for spine surgery". *Spine* 2016;41(30):E165-173. CA (IF 2.297)
10. Miller S, Harris SR, Mulpuri K. "Agreement between a physical therapist and an orthopedic surgeon in children referred for gait abnormalities". *Pediatr Phys Ther.* 2016;28(1):85-92 SA (IF 1.04)
11. Hesketh K, Leveille L, Mulpuri K. "The frequency of AVN following reconstructive hip surgery in children with cerebral palsy: A systematic review". *J Pediatr Orthop.* 2016;36(2):e17-24. DOI:10.1097/BPO.0000000000000485. SA (IF 1.474)
12. Nitikman M, Mulpuri K, Reilly CW. "Internet-administered health related quality of life questionnaires compared with pen and paper in an adolescent scoliosis population: A randomized crossover study". *J Pediatr Orthop.* 2016. [Epub ahead of print]

FIROZ
MIYANJI

1. Samdani AF, Belin EJ, Bennet JT, Miyanji F, Pahy JM, Shah SA, Newton PO, Betz RR, Cahill PJ, Sponseller PD. "Major perioperative complications after surgery for CP: Assessment of Risk Factors". *Eur Spine J* (Epub ahead of print), 2015
2. Miyanji F, Newton PO, Samdani AF, Shah SA, Varghese RA, Reilly CW, Mulpuri K. "The Impact of Surgical Waitlist Times on Scoliosis Surgery: The Surgeon's Perspective". *Spine Jun*; 40(11):823-828 2015
3. Miyanji F. "Book Chapter: Cervical Spine Injuries in Athletes". *Textbook of Pediatric Cervical Spine.* Phillips J, Shah S, Yaszay B (eds), Submitted November 2014

ANTHONY
COOPER

1. d'Entremont AG, Cooper AP, Johari A, Mulpuri K. "What clinimetric evidence exists for using hip-spedific patient-reported outcome measures in pediatric hip impingement? *Clin Orthop Relat Res.* 2015 Apr; 473(4):1361-1367. PMID:25367111. Impact Factor: 2.765
2. Jones CE, Cooper AP, Doucette J, Buchan LL, Wilson DR, Mulpuri K, d'Entremont AG. "Relationships between severity of deformity and impingement in slipped capital femoral epiphysis". *J Pediatr Orthop.* 2015 Sep 9 (Epub ahead of print) PMID: 26356312. Impact Factor: 1.474

PUBLICATION RECORDS con't

REFEREED PUBLICATIONS

ANTHONY
COOPER

3. Basheer SZ, Cooper AP, Balasubramanian B, Maheshwari R, Madan SS. "Arthroscopic treatment of femoroacetabular impingement following slipped capital femoral epiphysis". *Bone Joint J.* 2016 Jan; 98-B(1):21-27. Impact Factor: 1.961
4. QUADAR n, Hodgson A, Mulpuri K, Cooper AP, Schaeffer E, Abugharbieh R. "A Reliable Automatic 2D measurement for Developmental Dysplasia of the Hip". *J Bone Joint Surg Br* 2016
5. Sepehri A, Chhina H, Courtemanche D, Cooper AP. "The Multiplier Method for Predicting Limb Length Discrepancy in Patients with Vascular Anomalies in the Lower Limb". *J Limb Lengthen Reconstr* 2015; 1 Suppl S1:1-117

LISE
LEVEILLE

1. Leveille L, Ozan R, Johnston C. "Rebound deformity after growth modulation in patients with coronal plan angular deformities about the knee: who gets it and how much?" *Journal of Pediatric Orthopaedics*. Submitted for publication pending review, 2015
2. Bogdan Y, Tornetta P 3rd, Einhorn TA, Guy P, Leveille L, Robinson J, Bosse MJ, Haines N, Horwitz D, Jones C, Schemitsch E, Sagi C, Thomas B, Stahl D, Ricci W, Brady M, Sanders D, Kain M, Higgins TF, Collinge C, Kottmeier S, Friess D. "Healing time and complications in operatively treated atypical femur fractures associated with bisphosphonate use: A multicenter retrospective cohort". *Journal of Orthopaedic Trauma*, 2015. Epub ahead of print
3. Hesketh K, Leveille L, Mulpuri K. "The frequency of AVN following reconstructive hip surgery in children with cerebral palsy: A systematic review". *J Pediatr Orthop.* 2016;36(2):e17-24. DOI:10.1097/BPO.0000000000000485. SA (IF 1.474)

INITIATIVES IN PROGRESS:

● CHRIS REILLY:

- The Effect of Femoral Nerve Block on Opioid Requirements Following Anterior Cruciate Ligament Reconstruction in the Paediatric Population: A Double Blind, Prospective, Randomized Controlled Trial – data collection almost completed
- The Effect of Femoral Nerve Block on Morphine Requirements following Intramedullary Nailing of Femoral Fractures in Paediatric Patients
- Seating Pressure following Spine and Hip Surgery in Patients with Neuromuscular Disease – protocol development ongoing
- PCA vs Morphine Utilization following Posterior Instrumentation for Idiopathic Scoliosis – manuscript preparation
- Mental Health Disturbance in Adolescents following Acute Knee Injury (J Douglas) – protocol development
- Risk Factors for Psychiatric Disorders Associated with Adolescent Idiopathic Scoliosis – ethics approval received; data collection to begin
- Scoliosis and Wait Times – PHSI grant submission preparation underway
- The impact of Scoliosis and Wait Times on treatment and outcomes - data collection
- Harms Study Group - Scheuermann's Kyphosis – data collection ongoing
- Harms Study Group - AIS Database - data collection ongoing
- Harms Study Group - AIS 2 year post-operative motion - data collection ongoing
- Harms Study Group – Cerebral Palsy and Scoliosis – ethics approval received; contract negotiations underway with UBC and Harms Study Group
- Adolescent idiopathic scoliosis: anterior and posterior instrumentation versus posterior instrumentation alone – protocol development
- The relationship between Body Mass Index and pedicle morphology in adolescent idiopathic scoliosis: a Computerized Tomography study – protocol development
- Management of displaced supracondylar fractures of the humerus using lateral versus cross K wires: A Prospective Randomized Clinical Trial
- Taping vs Splinting vs Above Elbow Casting for Type I Supracondylar Fractures of the Humerus in Children: A Randomized Controlled Trial

● CHRISTINE ALVAREZ: *Clubfoot*

- Fourteen year clinical outcome of children with idiopathic clubfoot treated with manipulation, casting and adjuvant Botulinum A toxin.
- Proposed venue: Journal of Bone and Joint Surgery (90% completed, data collected and preparing the manuscript)
- Case Report: Peroneal Nerve Palsy In Clubfoot Population (Data collected and preparing manuscript)
- A Double-Blind, Randomized Control Trial Comparing Botulinum A Toxin and Placebo in the Treatment of Idiopathic Clubfoot (multicentre trial). Started in 2006, finished data collection February 2011. Waiting for second site to finish data collection.
- Genetic Studies of Clubfoot (CTEV) is a collaborative project with University of Houston Texas to explore the genetic causes of clubfoot which is in progress since 2005 (Ongoing data analysis)
- Pedobarographic (Tekscan) analysis of idiopathic clubfeet treated with manipulation, casting, and Botox. (Ongoing data analysis)
- Plantar pressure (EMED) of idiopathic clubfeet treated by the manipulation, casting and Botox (MCB) method. (data collected and analysed, manuscript preparation underway).

INITIATIVES IN PROGRESS:

● **CHRISTINE ALVAREZ CON'T:** ***Hereditary Multiple Exostoses***

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

Gait

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

● **KISHORE MULPURI:**

- Mulpuri K. The natural history of Perthes disease in British Columbia in comparison to India. Manuscript in preparation – to be submitted to Pediatric Orthopaedic Society of India.
- Mulpuri K, Devsi J, Doan Q. Caregiver perspective on the participation of their children in long-term clinical research for acute care patients. Manuscript in preparation/data analysis in progress.
- d'Entremont AG, Wilson DR, Mulpuri K. Accuracy of deformity measurement in slipped capital femoral epiphysis: a geometrical modeling study. Manuscript in preparation/data analysis in progress.
- Reilly CW, Ansermino M, Mulpuri K, Purdy FR, Tredwell SJ. The effect of femoral nerve block on opioid requirements following anterior cruciate ligament reconstruction in the paediatric population: A double blind,

prospective, randomized controlled trial. Data analysis in progress

- d'Entremont AG, Cooper AP, Mulpuri K. The degree of deformity in slipped capital femoral epiphysis at which point the slip is too severe to pin: A computed tomography simulated model. Data analysis in progress.
- McKay HA, Boyd S, Mulpuri K, Naylor PJ, Khan K, Li L, Rhodes R, Macdonald H. An investigation into risk taking behaviour, bone microstructure, and fracture between the sexes: What underpins fracture in boys compared to girls during growth? Data collection/analysis in progress.
- Mulpuri K, Beauchamp R, Alvarez C. Functional outcomes following orthopaedic surgery based on gait laboratory versus observational gait analysis in ambulatory children with cerebral palsy: A multi-centre pilot randomized control trial. Data collection/analysis in progress.
- d'Entremont AG, Wilson DR, Mulpuri K. CT measures of femoral head sphericity in healed Perthes patients using Statistical Shape Modelling and Sphericity Index. Data collection/analysis in progress.
- Chhina HK, Klassen AF, Kopec J, Mulpuri K, Cooper AP. Development of a quality of life instrument for children with lower limb deformities. Data collection in progress.
- Mulpuri K, Miller SD. Health related quality of life in children with cerebral palsy undergoing surgery for dislocating hips. Data collection in progress.
- Mulpuri K, Reilly C. Quality of referrals sent to pediatric orthopedic clinics. Data collection in progress.
- Miyanji F, Mulpuri K, Reilly C. The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study. Recruitment in progress.

INITIATIVES IN PROGRESS:

● **KISHORE MULPURI CON'T:**

- Miyanji F, Mulpuri K, Reilly C, Poskitt, K. Diffusion MRI as a prognostic tool in growth plate injuries: A pilot study to assess feasibility. Recruitment in progress.
- Mulpuri K, Reilly CW, Tredwell SJ. Management of displaced supracondylar fractures of the humerus using lateral versus crossed K wires: A prospective randomized clinical trial. Recruitment in progress.
- Reilly CW, Mulpuri K, Cooper A, Carsen S. Operative versus non-operative treatment of Gartland Type IIA supracondylar humeral fractures: A prospective study. Recruitment in progress.
- Mulpuri K, Miyanji F, Reilly C, Doan Q. Splinting versus above elbow casting for Type I supracondylar fractures of the humerus in children: A randomized controlled trial. Recruitment in progress.
- Mulpuri K, Davidson D. Validation and reliability testing of the Western Ontario and McMaster Osteoarthritis Scale (WOMAC) hip score in children and adolescents with Perthes disease. Recruitment in progress.
- Mulpuri K, Miyanji F, Reilly CW. A clinical prediction model for growth arrest in pediatric physeal fractures. Recruitment in progress.
- Mulpuri K, Mubarak S, Matheney T, Kelley S, Castaneda P, Foster B, Clarke N, Price C. Prospective observational cohort study of children with hips dislocated at rest. Recruitment in progress.
- Mulpuri K, Abugharbieh R, Hodgson AJ, Quader N. Automatic characterization of the neonatal hip using ultrasound imaging. Recruitment in progress.
- Narayanan U, Mulpuri K, Selber P, Hamdy R. Outcomes of hip interventions for children with cerebral palsy – An international multi-centre prospective comparative cohort study. Recruitment in progress.
- Skarsgard ED, Reilly C, Mulpuri K, Innis SM, Gandhi S. Nutritional status of pre-operative surgical patients: Prevalence of malnutrition and impact on surgical outcomes. Recruitment in progress.
- Cooper AP, Mulpuri K, Reilly CW. Simple bone cysts in kids (SBoCK). Recruitment in progress.
- Cooper AP, Mulpuri K, Reilly CW. Observational study of children with limb problems. Recruitment in progress.
- d'Entremont AG, Wilson DR, Hargreaves B, Mulpuri K. MR measures of mechanical and cartilage health outcomes in Perthes disease – T1rho and morphology. Recruitment in progress.
- Mulpuri K, International Perthes Study Group. A prospective, multi-centre, surgeon controlled non-randomized study comparing 6 weeks vs 6 months of postoperative non-weight bearing (NWB) in patients treated with a surgical containment procedure with the onset of Legg-Calvé-Perthes disease between 8 and 11 years of age. Recruitment in progress.
- Juricic M, Mulpuri K, Bainbridge L. Children with CP across GMFCS levels requiring orthopaedic surgery: The lived experiences of parents. Recruitment in progress.
- Schaeffer EK, Pathy R, Mulpuri K. Do infants with risk factors for developmental dysplasia of the hip require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review. Data collection in progress.
- Ho Y, Schaeffer EK, Mulpuri K. Child reported versus parent reported in Activities Scale for Kids –Performance in pediatric orthopaedics. Recruitment in progress.
- Mammen C, Morrison A, Mulpuri K, Reilly C. Acute Kidney Injury in children following major orthopaedic surgery: A prospective cohort study. Recruitment in progress.
- Pathy R, Schaeffer EK, Mulpuri K. Prospective observational cohort study of children with a slipped capital femoral epiphysis. Ethics application in progress.

INITIATIVES IN PROGRESS:

● **KISHORE MULPURI CON'T:**

- Mulpuri K, Cashin MS, Cooper AP. Outcome analysis of comminuted vs. non-comminuted paediatric femur fractures treated with elastic intramedullary nail fixation. Protocol in development.

● **ANTHONY COOPER:**

- Cooper AP, Fernandes JA. What is the best treatment for proximal femoral focal deficiency? In: Alshryda S, Huntley J, Banaszkiewicz PA, editors. Paediatric Orthopaedics: an Evidence-based Approach to Clinical Questions. Springer [initial draft in progress].
- Systematic review on PROMs of lower limb deformities [90% complete].
- Development of a quality of life instrument for children with lower limb deformities [recruitment for interviews].
- Geometric Modelling in SCFE – ROM [Manuscript prep in progress].
- Geometric Modelling in SCFE – southwick angle [Manuscript prep in progress].
- Geometric Modelling in SCFE – Screws Trajectory [Pending].
- Quality of life of caregivers of children with lower limb disorders [In progress].
- Limb deformity database [Recruitment phase].
- NGS in Rare disorder associated with orthopedics [Recruitment phase].
- Use of functional weight-bearing MRI in Legg-Calve-Perthes Disease: A Pilot Study [recruitment phase].
- Simple bone Cysts in Kids (SBoCK) [Recruitment phase].
- Multi-centre in Pin-Care Study [recruitment in progress at two sites, ethics approval in progress at other sites].
- Validation of LLD Multiplier method in Vascular Anomalies [Patient call-back ethics in place].

- Preventative Multi-model Analgesia for Children Undergoing Lower Limb Reconstruction with External Fixators; A Prospective Audit [Ethics in progress].
- Parental attitudes towards limb reduction [Design phase].
- Psychological assessment in mothers with DDH babies [Pre-design phase].
- Social Media as a Support and Research Tool in Pediatric Limb Reconstruction Surgery [Ethics in progress].
- Inter-observer and Intra-observer Variability in Regenerate Evaluation [Data collection].
- Cost Effectiveness of Amputation vs Limb Reconstruction in Congenital Limb Deformity [Systematic review in progress].
- Radial Neck Fractures – Design and development of an elbow simulation model [Pre-design phase].
- Cooper AP, JF. Congenital Femoral Deficiency book chapter [final draft completed].

● **ARVINDER GHAG:**

- Intraoperative Skull-femoral Traction in Adolescent Idiopathic Scoliosis Surgical Correction: a comparative analysis of dynamic versus static modes [75% complete; manuscript in preparation].
- Comparative Clinical and Cost Analysis of Conventional and Magnetic Growing Rods in the Surgical Management of Early-Onset Scoliosis [50% complete; data currently being analyzed].

DIVISION OF PEDIATRIC OTOLARYNGOLOGY

2014-2015



FACULTY MEMBERS:



Dr. Frederick K. Kozak Department
Head, Clinical Professor UBC



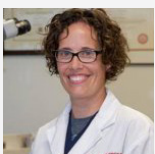
Dr. Neil K. Chadha
Clinical Associate Professor UBC



Dr. J. Paul Moxham
Clinical Associate Professor UBC



Dr. Jeffrey P. Ludemann
Clinical Associate Professor UBC



Dr. Jane Lea
Clinical Assistant Professor UBC

STAFF MEMBERS:

- **Ms. Patsy Regan**, Pediatric Otolaryngology Clinical Nurse
- **Ms. Michele 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

STAFF MEMBERS:

- **Ms. Julie Pauwels**, Research Coordinator
- **Mr. Brendan Sorichetti**, Research Assistant
- **Ms. Lauren Ogilvie**, Research Assistant

HIGHLIGHTS AND ACHIEVEMENTS:

DR. KOZAK

Dr. Frederick Kozak

Member of the Doctors of BC (BCMA) Statutory Negotiating Committee (SNC). This committee negotiates the Physician Master Agreement (PMA) with the Government of British Columbia

DR. LEA

Dr. Jane Lea

Teacher of the year award, UBC Department of Surgery: Division of Otolaryngology June 2014

DR. LUDEMANN

Dr. Jeffrey Ludemann

Increased interest in the website: dontchoke.ubc.ca; translated into Mandarin, Spanish, French, Portuguese and Arabic

01 TEACHING ACTIVITIES

FELLOWS SUPERVISED

- *Sophie Lachance (July 2013-June 2014)*
- *Roy Hod (July 2014-June 2015)*

RESIDENTS SUPERVISED

- *Andrew Thamboo - R5*
- *Rui Jun Lin - R5*
- *Kristelle Chueng - R5*
- *Ronak Rahmanian - R4*
- *Andrew Remillard - R4*
- *Kimberly Luu - R3*
- *Brent Chang - R3*
- *Joshua Gurberg - R2*
- *Oleksandr Butskiy - R2*
- *Harman Parhar - R1*
- *Evie Landry - R1*

STUDENTS SUPERVISED:

NEIL CHADHA

- *Charles Yu (UBC, MSI 1) – CFRI Summer Student Research Program Awardee*
- *Kushal Khera (University of Dublin, MSI 1) – Summer Student*
- *Karuna Khera (University of Dublin, MSI 3) – Summer Research Student*

JEFFREY LUDEMANN

- *Tin Jasinovic (UBC, MSI 1)*
- *Brian Paige (Cytokines in Laryngomalacia and Subglottic Stenosis project)*
- *Jack Zheng and Benjamin Richards (Pediatric Tracheostomy App Part 2 – for students)*

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CHILD AND FAMILY RESEARCH INSTITUTE	SMART GLASSES FOR SURGICAL EDUCATION	C	5,400 (TOTAL)	2015-2016	NEIL K CHADHA	EVIE LANDRY (R2) MICHAEL YONG (R1)
UBC TLEF RESEARCH FUND	SMART GLASSES FOR SURGICAL EDUCATION	C	6,200	2015-2016	NEIL K CHADHA	
CHILD AND FAMILY RESEARCH INSTITUTE	CLINICAL RESEARCH CAPACITY BUILDING AWARD	C	25,000	2014-2019	NEIL K CHADHA	FREDERICK K KOZAK JEFFREY LUDEMANN JANE LEA, BRIAN WESTERBERG

02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
ASSOCIATION OF ORTHODONTISTS FOUNDATION BIOMEDICAL RESEARCH AWARD	MAXILLARY EXPANSION VERSUS ADENOTONSIL-LECTOMY FOR OSA	C	25,000 (TOTAL)	2013-2015	BEN PLISKA	NEIL K CHADHA
BC CHILDREN'S HOSPITAL FOUNDATION TELETHON COMPETITION	LARYNGOMALACIA AND OMEPRAZOLE RCT	C	15,000	2013-2015	NEIL K CHADHA	DAVID ISRAEL FREDERICK K KOZAK
FACULTY OF DENTISTRY RESEARCH AWARD	MAXILLARY EXPANSION VS. ADENOTONSILLECTOMY FOR PEDIATRIC OSA	C	15,000 (TOTAL)	2013-2015	BEN PLISKA	NEIL K CHADHA
CHILD AND FAMILY RESEARCH INSTITUTE	RESEARCH CAPACITY ENHANCEMENT GRANT	C	75,000 (TOTAL)	2011-2016	NEIL K CHADHA	FREDERICK K KOZAK JEFFERY LUDEMANN JANE LEA BRIAN WESTERBERG

03 COMMITTEE PARTICIPATION

NEIL CHADHA

- *Member, American Society of Pediatric Otolaryngology Young Members Committee*
- *Member, American Society of Pediatric Otolaryngology Ad Hoc Awards Committee*
- *Member, International Task-Force for Recurrent Respiratory Papillomatosis*
- *Chair, BCCH Division of Pediatric Otolaryngology Fellowship Committee*
- *Member, Executive Committee, UBC Division of Otolaryngology*
- *Member, Resident Training Committee, UBC Division of Otolaryngology*
- *Member, Fellowship Committee, UBC Division of Otolaryngology*
- *Member, Executive Committee, BC Otolaryngology Society*
- *Member, UBC Otolaryngology Research Committee, Division of Otolaryngology*

JOURNAL REVIEWER:

- *JAMA Otolaryngology - Head and Neck Surgery*
- *British Medical Journal*
- *Clinical Otolaryngology*
- *International Journal of Pediatric Otolaryngology*

03 COMMITTEE PARTICIPATION con't

FREDERICK KOZAK

- *Residency Training Program Director, UBC, Division of Otolaryngology Head & Neck Surgery*
- *Department of Pediatric Surgery Surgical Cabinet, BCCH*
- *Co-Chair, Medical Advisory Group, B.C. Early Hearing Program*
- *Executive Council, Canadian Society of Otolaryngology Head and Neck Surgery (CSO HNS)*
- *CSC Negotiating Committee*
- *Otolaryngology Executive Committee, UBC Otolaryngology Division of OtlHN*
- *Scientific Program Chair Canadian Society of OtlHNS*
- *Continuing Professional Development Committee (CSO HNS)*
- *Surgical Services Advisory Committee, BCCH*
- *BCMA – (Doctor's of BC) SNC – Statutory Negotiating Committee*
- *BCMA – (Doctor's of BC) NCG – Negotiating Committee Group*
- *Pediatric Working Group (CSO HNS)*

JOURNAL REVIEWER:

- *Archives of Otolaryngology.*
- *International Journal of Pediatric Otolaryngology*
- *Journal of Otolaryngology Head and Neck Surgery (Canadian)*
- *JAMA Otolaryngology Head and Neck Surgery*
- *Laryngoscope*

JANE LEA

- *Advisory Committee Member, BC Balance and Dizziness Disorders Society*
- *Coordinator/Instructor, Weekly temporal bone drilling sessions for PGY2-5 Otolaryngology residents*
- *Fellow member status, Specialist Services Committee Member, BCMA*
- *Humanitarian Committee Member, Canadian Society of Otolaryngology*
- *Inducted member, The International Working Group of Endoscopic Ear Surgery*
- *National In-training Examination (Otolaryngology) Examination Board Member, Creation of Otolaryngology/Neurotology exam section questions and marking of all PGY3 national exams*
- *Otolaryngology/Neurotology working group member, Canadian Society of Otolaryngology*

JOURNAL REVIEWER:

- *International Journal of Pediatric Otolaryngology*
- *Journal of Otolaryngology Head & Neck Surgery*
- *Laryngoscope*

JEFFREY LUDEMANN

- *BCCH Parent Advisory Committee*

PAUL MOXHAM

- *American Society of Pediatric Otolaryngology Membership Committee*
- *Laser Safety Committee - BCCH*

04

PUBLICATION RECORDS

**NEIL
CHADHA**

1. Wolter NE, Holler T, Cushing SL, Chadha NK, Gordon KA, et al. Pediatric ossiculoplasty with titanium total ossicular replacement prosthesis. *Laryngoscope*. 2015 Mar;125(3):740-5.
2. Rahmanian R, Wan Fook Cheung V, Chadha NK. Non-fatal extensive cerebral venous thrombosis as a complication of adenotonsillectomy. *Int J Pediatr Otorhinolaryngol*. 2015 Feb;79(2):254-8.
3. Ogilvie LN, Pauwels J, Chadha NK, Kozak FK. Publication rate of abstracts presented at the Canadian society of otolaryngology- head and neck surgery annual meetings: a five year study 2006-2010. *J Otolaryngol Head Neck Surg*. 2014 Dec 17;43(1):51.
4. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea J, Chadha NK. The reliability of clinical tonsil size grading in children. *JAMA Otolaryngol Head Neck Surg*. 2014 Nov;140(11):1034-7.
5. Thamboo A, Santos RC, Naidoo L, Rahmanian R, Chilvers MA, Chadha NK. Use of the SNOT-22 and UPSIT to appropriately select pediatric patients with cystic fibrosis who should be referred to an otolaryngologist: cross-sectional study. *JAMA Otolaryngol Head Neck Surg*. 2014 Oct;140(10):934-9.
6. Al-Saleh S, Kantor PF, Chadha NK, Tirado Y, James AL, et al. Sleep-disordered breathing in children with cardiomyopathy. *Ann Am Thorac Soc*. 2014 Jun;11(5):770-6.

**FREDERICK
KOZAK**

1. Mondin RM, Fandiño M, Carpes LF, Tang J, Ogilvie LN, Kozak FK. Esophageal wishbone extraction: not for the chicken-hearted. *Ann Otol Rhinol Laryngol*. 2015 Jan;124(1):79-82.
2. Lecavalier M, Ogilvie LN, Magee F, Poskitt KJ, Kozak FK. Cranial fasciitis: a rare pediatric non-neoplastic lesion with 14-year follow up. *Am J Otolaryngol*. 2014 Sep-Oct;35(5):647-50.
3. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea J, Chadha NK.
4. The reliability of clinical tonsil size grading in children. *JAMA Otolaryngol Head Neck Surg*. 2014 Nov;140(11):1034-7.
5. Ogilvie LN, Kozak JK, Chiu S, Adderley RJ, Kozak FK. Changes in pediatric tracheostomy 1982-2011: a Canadian tertiary children's hospital review. *J Pediatr Surg*. 2014 Nov;49(11):1549-53.
6. Ogilvie LN, Pauwels J, Chadha NK, Kozak FK. Publication rate of abstracts presented at the Canadian society of otolaryngology- head and neck surgery annual meetings: a five year study 2006-2010. *J Otolaryngol Head Neck Surg*. 2014 Dec 17;43(1):51
7. Gurdeep S Mann, R Heran, L Ogilvie, FK Kozak. Nasopharyngeal choristoma: An unusual and rare cause of acute respiratory distress in the newborn. Case series and review of the literature *International Journal of Pediatric Otorhinolaryngology Extra* 9 (2014), pp. 84-87
8. Zaidman-Zait A, Curle D, Jamieson JR, Chia R, Kozak FK. Cochlear implantation among deaf children with additional disabilities: parental perceptions of benefits, challenges, and service provision. *J Deaf Stud Deaf Educ*. 2015 Jan;20(1):41-50.
9. Saxby AJ, Gowdy C, Fandiño M, Chadha NK, Kozak FK, Sargent MA, Lea J. Radiological prevalence of superior and posterior semicircular canal dehiscence in children. *Int J Pediatr Otorhinolaryngol*. 2015 Mar;79(3):411-8

04 PUBLICATION RECORDS con't

REFEREED PUBLICATIONS

JANE LEA

1. Saxby AJ, Gowdy C, Fandiño M, Chadha NK, Kozak FK, Sargent MA, Lea J. Radiological prevalence of superior and posterior semicircular canal dehiscence in children. *Int J Pediatr Otorhinolaryngol*. 2015 Mar;79(3):411-8
2. Bhimrao SK, Maguire J, Garnis C, Tang P, Lea J, Akagami R, Westerberg BD. Lack of association between human herpesvirus and vestibular schwannoma: Analysis of 121 cases. *Otolaryngol Head Neck Surg*. March 2015;152(3):513-7.
3. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea J, Chadha NK. The Reliability of Clinical Tonsil Size Grading in Children. *JAMA Otolaryngol Head Neck Surg*. 2014, 140(11):1034-7.
4. de Almeida JR, Guyatt GH, Sud S, Dorion J, Hill MD, Kolber MR, Lea J, Reg SL, Somogyi BK, Westerberg BD, White C, Chen JM; Bell Palsy Working Group, Canadian Society of Otolaryngology - Head and Neck Surgery and Canadian Neurological Sciences Federation. Management of Bell palsy: clinical practice guideline. *CMAJ*. 2014 Sep 2;186(12):917-22.
5. Lea J, Conlin AE, Sekirov I, Restelli V, Ayakar KG, Turnbull L, Doyle P, Noble M, Rennie R, Schreiber WE, Westerberg BD. In vitro efficacy of N-acetylcysteine on bacteria associated with chronic suppurative otitis media. *J Otolaryngol Head Neck Surg*. 2014 Jul 7;43:20.
6. Lea J, Lechner C, Halmagyi GM, Welgampola MS. Not so benign positional vertigo: paroxysmal downbeat nystagmus from a superior cerebellar peduncle neoplasm. *Otol Neurotol*. 2014 Jul;35(6):e204-5.

JEFFREY
LUDEMANN

7. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea J, Chadha NK. The reliability of clinical tonsil size grading in children. *JAMA Otolaryngol Head Neck Surg* 140(11):1034-7. PMID: 25317509. DOI: 10.1001/jamaoto.2014.2338.

PAUL
MOXHAM

1. The reliability of clinical tonsil size grading in children. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea J, Chadha NK. *JAMA Otolaryngol Head Neck Surg*. 2014 Nov;140(11):1034-7. doi: 0.1001/jamaoto.2014.2338.

PUBLICATION RECORDS con't

CONFERENCE PROCEEDINGS

NEIL
CHADHA

1. Ogilvie L, Pauwels J, Chadha NK, Kozak FK. Publication rates of CSO-HNS presentations. Canadian Society of Otolaryngology- Head and Neck Surgery Annual Meeting, May 2014, Podium presentation.
2. Rahmanian R, Cheung V, Chadha NK. A surprising complication of tonsillectomy. Canadian Society of Otolaryngology- Head and Neck Surgery Annual Meeting, May 2014, Poster presentation.
3. Thamboo A, Santos RC, Naidoo L, Rahmanian R, Chilvers MA, Chadha NK. Predicting nasal polyp severity in children with cystic fibrosis. American Society of Pediatric Otolaryngology Annual Meeting, May 2014, Podium presentation.
4. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea J, Chadha NK. What is the most reliable tonsil size grading system in children? American Society of Pediatric Otolaryngology Annual Meeting, May 2014, Poster presentation.
5. Rahmanian R, Wan Fook Cheung V, Chadha NK. False carina: a distinct variant of tracheal bronchus. American Society of Pediatric Otolaryngology Annual Meeting, May 2014, Poster presentation.

FREDERICK
KOZAK

1. Ogilvie L, Pauwels J, Chadha NK, Kozak FK. Publication rates of CSO-HNS presentations. Canadian Society of Otolaryngology- Head and Neck Surgery Annual Meeting, May 2014, Podium presentation.
2. D. Pothier, Toronto, ON; J. Nogueira, D. Marchioni, J. Lea, F. Kozak, Adrian James. Endoscopic Minimally Invasive Ear Surgery - Principles of the Technique - What is the State of the Art? 68th Annual Meeting of The Canadian Society of Otolaryngology-Head & Neck Surgery. (Workshop; 5/2014), Ottawa, Ontario
3. Jasinovic T, Ludemann J, Moxham P, Kozak F, Lea J, Wensley D, Campbell A, Chilvers M. Seerar M. Brochial Casts in Children: A 15-year Case Series. 68th Annual Meeting of The Canadian Society of Otolaryngology-Head & Neck Surgery (podium presentation); 5/2014.
4. Rahmanian R, Zheng J, Campbell A, Culham G, Kozak F, Chadha N, Ludemann JP. False Carina: A distinct Variant of Tracheal Bronchus. Poster at the American Society of Pediatric Otolaryngology Annual Meeting, Las Vegas, NV, May 2014.
5. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea, J, Chadha, NK. Reliability of Clinical Tonsil Size Grading in Children. Poster at the American Society of Pediatric Otolaryngology Annual Meeting, Las Vegas, NV, May 2014.
6. Buying Into Endoscopic Ear Surgery. Endoscopic Ear Surgery Course Ottawa, Ontario May 10, 2014
7. Cochlear Implant Complications for the General Otolaryngologist [S. Lachance, F. Kozak], Vancouver, BC CSOHNS, Ottawa, Ontario Workshop May 2014 Brochial Casts in Children: A 15-year Case Series - T. Jasinovic, J. Ludemann, P. Moxham, F. Kozak, D. Wensley, A. Campbell, M. Chilvers, M. Seerar, Vancouver, BC Podium Presentation May 2014 Ottawa, Ontario
8. Endoscopic Minimally Invasive Ear Surgery - Principles of the Technique - What is the State of the Art?- D. Pothier, Toronto, ON; J. Nogueira, D. Marchioni, J. Lea, F. Kozak, Vancouver, BC; Adrian James, Toronto, ON CSOHNS Panel May 2014 Ottawa, Ontario

04 PUBLICATION RECORDS con't

CONFERENCE PROCEEDINGS

JANE LEA

1. Aron M, Lea J, Nakku D, Westerberg BW. A Systematic Review: Do Resolution Rates of Post-traumatic BPPV Cases Differ from Idiopathic BPPV Cases? 68th Annual Meeting of The Canadian Society of Otolaryngology-Head & Neck Surgery (podium presentation); 6/2014.
2. Lee L, Gadareh K, Bojanowski T, Westerberg BD, Lea J. The Development of Portable Video Goggles for Recording Nystagmus in Dizzy Patients. 68th Annual Meeting of The Canadian Society of Otolaryngology-Head & Neck Surgery (podium presentation); 5/2014.
3. D. Pothier, Toronto, ON; J. Nogueira, D. Marchioni, J. Lea, F. Kozak, Adrian James. Endoscopic Minimally Invasive Ear Surgery - Principles of the Technique - What is the State of the Art? 68th Annual Meeting of The Canadian Society of Otolaryngology-Head & Neck Surgery. (Workshop; 5/2014).
4. Jasinovic T, Ludemann J, Moxham P, Kozak F, Lea J, Wensley D, Campbell A, Chilvers M, Seerar M. Bronchial Casts in Children: A 15-year Case Series. 68th Annual Meeting of The Canadian Society of Otolaryngology-Head & Neck Surgery (podium presentation); 5/2014.
5. "Endoscopic Ear Surgery: An Overview of an Emerging Surgical Technique". St. Paul's Hospital Department of Surgery Rounds". March, 2015.
6. "Hearing Restoration: A surgical approach". Annual Canadian Audiology Association Meeting. Whistler, BC. 10/18/2014.
7. "Peripheral Vertigo". Eastern Society Otolaryngology Meeting. 8/10/2014. PEI.
8. "Overview of Endoscopic Ear Surgery". Eastern Society Otolaryngology Meeting. 8/10/2014. PEI.
9. "Endoscopic Ear Surgery: Anatomy". Ottawa Endoscopic Ear Surgery Course. May 10th, 2014.
10. "Endoscopic Ear Surgery: Equipment and Instrumentation". 4th Toronto Endoscopic Ear Surgery Course. April 29th, 2014.

JEFFREY
LUDEMANN

1. Jasinovic T, Moxham JP, Kozak FK, Wensley D, Campbell A, Chilvers M, Seear M. Bronchial Casts in Children: a 15 year Case Series. Podium at the Canadian Society of Otolaryngology Annual Meeting, May 2014.
2. Zheng J, Zhu S, Kwong L, O'Hara N, Ludemann J. Development of a Peer-Reviewed, Patient and Family-Centered Pediatric Tracheostomy App. Podium at the Canadian Society of Otolaryngology Annual Meeting, May 2014.
3. Rahmanian R, Zheng J, Campbell A, Culham G, Kozak F, Chadha N, Ludemann JP. False Carina: A distinct Variant of Tracheal Bronchus. Poster at the American Society of Pediatric Otolaryngology Annual Meeting, Las Vegas, NV, May 2014.
4. Kumar DS, Valenzuela D, Kozak FK, Ludemann JP, Moxham JP, Lea, J, Chadha, NK. Reliability of Clinical Tonsil Size Grading in Children. Poster at the American Society of Pediatric Otolaryngology Annual Meeting, Las Vegas, NV, May 2014.
5. Gurberg J, Moxham JP, Ludemann JP. Pediatric First Branchial Anomalies: Management of the Facial Mass and the Occasionally Novel Otologic Malformation. Podium at the 12th International Congress of the European Society of Pediatric Otolaryngology, Dublin, June 2014.
6. Ludemann JP, Jasinovic T, Adler S, O'Hara N, Nashon S. Towards a Global Choking Prevention Strategy. Podium at the 12th International Congress of the European Society of Pediatric Otolaryngology, Dublin, June 2014.

04

PUBLICATION RECORDS con't

CONFERENCE PROCEEDINGS

**JEFFREY
LUDEMANN**

7. *Nashon S, Adler D, Ludemann, J. & Scott, S. Interpreting Students' Understanding of Choking in Children Through Web-Based Learning Experiences. Presented by Dr. Nashon at STEM 2014 (International Conference of Science, Technology, Engineering and Mathematics in Education), Vancouver, July 7, 2014*
8. *Ludemann J. A Global Choking Prevention Strategy. Pacific Rim Otolaryngology Update, Waikiki, HI, February 15, 2015.*
9. *Ludemann J. Coblation of Vallecular Cysts in Neonates. Pacific Rim Otolaryngology Update, Waikiki, HI, February 15, 2015.*
10. *Ludemann J. A Global Choking Prevention Strategy. Presented at 2 hospitals in China (during the October 2014 Bethune BaiQiuen Canadian Alliance tour)*

**PAUL
MOXHAM**

1. *Jasinovic T, Moxham JP, Kozak FK, Wensley D, Campbell A, Chilvers M, Seear M. Bronchial Casts in Children: a 15 year Case Series. Podium at the Canadian Society of Otolaryngology Annual Meeting, May 2014.*
2. *Gurberg J, Moxham JP, Ludemann JP. Pediatric First Branchial Anomalies: Management of the Facial Mass and the Occasionally Novel Otologic Malformation. Podium at the 12th International Congress of the European Society of Pediatric Otolaryngology, Dublin, June 2014.*

DIVISION OF PEDIATRIC OTOLARYNGOLOGY

2015-2016



FACULTY MEMBERS:



Dr. Frederick K. Kozak c



Dr. Neil K. Chadha
Clinical Associate Professor UBC



Dr. J. Paul Moxham
Clinical Associate Professor UBC



Dr. Jeffrey P. Ludemann
c

STAFF MEMBERS:

- *Ms. Patsy Regan, Pediatric Otolaryngology Clinical Nurse*
- *Ms. Michele 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*

RESEARCH MEMBERS:

- Ms. Julie Pauwels, Research Coordinator*
- *Mr. Brendan Sorichetti, Research Assistant*
- *Dr. Paula Tellez, Research Fellow*

HIGHLIGHTS AND ACHIEVEMENTS:

DR. CHADHA

Dr. Neil K. Chadha was the recipient of the 2015 Annual Faculty Research Award from the Division of Otolaryngology-Head and Neck Surgery, Department of Surgery, UBC

DR. MOXHAM

Dr. J. Paul Moxham was the recipient of the 2015 Undergraduate Student Teaching Award, Division of Otolaryngology Head and Neck Surgery

DR. KOZAK

Dr. Frederick K. Kozak was a recipient of a "Youth Friendly Award" from the Division of Adolescent Medicine, BC Children's Hospital

DR. LUDEMANN

Dr. Ludemann's initiative www.don'tchoke.ubc.ca continues to receive strong support internationally with translation into several languages.

01 TEACHING ACTIVITIES

- FELLOWS SUPERVISED**
- Dr. Roy Hod, July 2014 - June 2015
 - Dr. Mark Felton, July 2015 - June 2016

- RESIDENTS SUPERVISED**
- | | |
|--|---|
| <ul style="list-style-type: none"> • Dr. Trevor Hartl • Dr. Estelle Chang • Dr. Veronique Wan • Dr. Andrew Thamboo • Dr. June Lin | <ul style="list-style-type: none"> • Dr. Kristelle Cheung • Dr. Ronak Rahmanian • Dr. Andrew Remillard • Dr. Brent Chang • Dr. Kim Luu |
|--|---|

- STUDENTS SUPERVISED**
- Daphne Luu, Summer Student 2015 (Drs. Chadha and Kozak)
 - Lisa Chin, Summer Student 2015 (Drs. Kozak and Chadha)
 - John Lee, Summer Student 2015 (Dr. Ludemann)
 - Jack Zheng, Summer Student 2015 (Dr. Ludemann)

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS :

- ALL FACULTY MEMBERS**
- *A Complex Pediatric EES Case Illustrating Synergy in Biomedical Engineering.* Ludemann J. The 1st World Congress on Endoscopic Ear Surgery, April 20, 2015, Dubai, UAE.
 - *Chevalier Jackson, Pioneer in Pediatric Otolaryngology.* Ludemann J. International Pediatric Otolaryngology Update, May 4, 2015, Montreal, QC.
 - *Update on a Global Choking Prevention Initiative.* Ludemann J. International Pediatric Otolaryngology Update, May 4, 2015, Montreal, QC.
 - *Neonatal Vallecular Cysts .*Ludemann J. International Pediatric Otolaryngology Update, May 4, 2015, Montreal, QC.
 - *Hearing Loss and Cochlear Implantation: An Update.* F. K. Kozak Rotary Club of Vancouver. May 5, 2015, Vancouver, BC.
 - *Otoscopy and the History of Hearing Loss.* F.K. Kozak Audiology Practice Counsel Meeting. May 21, 2015, Surrey BC.
 - *Congenital Cytomegalovirus (cCMV) Infection in Province X:A Retrospective Analysis of Frequency of Diagnosis and Clinical Presentation – B Sorichetti, F. Kozak, P. Tilley, M. Krajden, J. Pauwels, S. Gantt, Vancouver, BC. Canadian Society of Otolaryngology Head and Neck Surgery Annual Meeting June 9, 2015, Winnipeg, Manitoba. (Podium)*
 - *Chloral Hydrate Sedation for Auditory Brainstem Response Testing in Children: Safety and Efficacy – D. Valenzuela, D. Kumar, C. Labelle, F. Kozak, N. Chadha Canadian Society of Otolaryngology Head and Neck Surgery Annual Meeting June 9, 2015, Winnipeg, Manitoba (Podium)*
 - *Recognizing Child Abuse in Otolaryngology: A Comprehensive Review of the Literature – B Sorichetti, J. Pauwels, M. Fandiño, F. Kozak, Canadian Society of Otolaryngology Head and Neck Surgery Annual Meeting June 9, 2015, Winnipeg, Manitoba(Podium)*

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

*PRESENTATIONS con't :***ALL FACULTY MEMBERS**

- *The Quality of Life among Children with Additional disabilities who use Cochlear Implants. Zaidman-Zait, A., Curle, D., Jamieson, J., Chia, R. & Kozak, F. K. ICED conference July 2015, Athen Greece (Poster)*
- *A Global Choking Prevention Initiative: An Update and Appeal for further Collaboration in Public Health Education. Ludemann JP. SENTAC Annual Meeting, Dec 4, 2015, (Podium Presentation). San Antonio, TX*
- *Ludemann JP. A Global Choking Prevention Initiative: an Update and Appeal for further Collaboration in Public Health Education, SENTAC Annual Meeting, San Antonio, TX, Dec 4, 2015 (podium presentation)*
- *Infrequent diagnosis of symptomatic congenital cytomegalovirus infection in British Columbia. B Sorichetti, F. Kozak, P. Tilley, M. Kraiden, J. Pauwels, S. Gantt. SENTAC Annual Meeting, December 5, 2015, (Podium Presentation). San Antonio, TX*
- *Sorichetti, J, Pauwels, M. Fandiño, F. Kozak Child Abuse and the Otolaryngologist: A Systematic Review. SENTAC Annual Meeting, Dec 5, 2015, (Podium Presentation). San Antonio, TX*

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
UBC – TEACHING LEARNING AND TECHNOLOGY ENHANCEMENT FUND	THE USE OF VIDEO GLASSES IN PEDIATRIC SURGICAL EDUCATION	C	6,200	2015	NEIL CHADHA	EVIE LANDRY, MICHAEL YONG

COMMITTEE PARTICIPATION

**FREDERICK
KOZAK**

- *Residency Training Program Director, UBC, Division of Otolaryngology Head & Neck Surgery*
- *Department of Pediatric Surgery Surgical Cabinet, BCCH*
- *Co-Chair, Medical Advisory Group, B.C. Early Hearing Program*
- *Executive Council, Canadian Society of Otolaryngology Head and Neck Surgery (CSO HNS)*
- *CSC Negotiating Committee, BCCH*
- *Otolaryngology Executive Committee, UBC Otolaryngology Division of OtlHN*
- *Scientific Program Chair Canadian Society of OtlHNS*
- *Continuing Professional Development Committee (CSO HNS)*
- *Surgical Services Advisory Committee, BCCH*
- *Doctors of BC SNC – Statutory Negotiating Committee*
- *Doctors of BC NCG – Negotiating Committee Group*
- *Pediatric Working Group (CSO HNS)*

JOURNAL REVIEWER

- *Laryngoscope*
- *Audiology Neurotology*
- *Journal of Otolaryngology Head and Neck Surgery*
- *International Journal of Pediatric Otolaryngology*

**NEIL
CHADHA**

- *American Society of Pediatric Otolaryngology Young Members Committee*
- *American Society of Pediatric Otolaryngology Ad Hoc Awards Committee*
- *International Task-Force for Recurrent Respiratory Papillomatosis*
- *Chair, BCCH Division of Pediatric Otolaryngology Fellowship Committee*
- *Executive Committee, UBC Division of Otolaryngology*
- *Resident Training Committee, UBC Division of Otolaryngology*
- *Fellowship Committee, UBC Division of Otolaryngology*
- *Executive Committee, BC Otolaryngology Society*
- *UBC Otolaryngology Research Committee, Division of Otolaryngology*

JOURNAL REVIEWER

- *Journal of Otolaryngology Head and Neck Surgery*
- *International Journal of Pediatric Otolaryngology*
- *Clinical Otolaryngology*
- *JAMA-Otolaryngology-Head & Neck Surgery*

**PAUL
MOXHAM**

- *American Society of Pediatric Otolaryngology Membership Committee*

JOURNAL REVIEWER

- *Laryngoscope*

**JEFFREY
LUDEMANN****JOURNAL REVIEWER**

- *Journal of Pulmonary and Respiratory Medicine*
- *Journal of Otolaryngology and Rhinology*

PUBLICATION RECORDS

REFEREED PUBLICATIONS

**FREDERICK
KOZAK**

1. Rahmanian R, Zheng J, Chadha NK, Kozak FK, Campbell AI, Ludemann JP. False carina: a distinct variant of tracheal bronchus. *Int J Pediatr Otorhinolaryngol.* 2015 Apr;79(4):623-8
2. Ibekwe TS, Bhimrao SK, Westerberg BD, Kozak FK. A meta-analysis and systematic review of the prevalence of mitochondrially encoded 12S RNA in the general population: Is there a role for screening neonates requiring aminoglycosides? *Afr J Paediatr Surg.* 2015 Apr-Jun;12(2):105-13. doi: 10.4103/0189-6725.160342.
3. Sorichetti B, Westerberg BD, Tan R, Kozak FK. *Nocardia asteroides sinusitis in a pediatric patient: Case report with 20 year follow-up and review of the literature.* *Int J Pediatr Otorhinolaryngol.* 2015 Jul;79(7):1152-4. doi: 10.1016/j.ijporl.2015.04.022. Epub 2015 Apr 18.
4. Jasinovic T, Kozak FK, Moxham JP, Chilvers M, Wensley D, Seear M, Campbell A, Ludemann JP. Casting a look at pediatric plastic bronchitis. *Int J Pediatr Otorhinolaryngol.* 2015 Oct;79(10):1658-61. doi: 10.1016/j.ijporl.2015.07.011. Epub 2015 Jul 23.
5. Saxby AJ, Fandino M, Kozak FK. Management of traumatic perilymph fistula with endoscopic techniques. *ANZ J Surg.* 2015 Sep 1. doi: 10.1111/ans.13283.
6. Sorichetti B, Moxham JP, Kozak FK. Type IV congenital laryngeal web: Case report and 15 year follow up. *Am J Otolaryngol.* 2016 Mar-Apr;37(2):148-51. doi: 10.1016/j.amjoto.2015.11.001. Epub 2015 Nov 10.
7. Sorichetti B, Goshen O, Pauwels J, Kozak FK, Tilley P, Krajden M, Gantt S. Symptomatic Congenital Cytomegalovirus Infection Is Underdiagnosed in British Columbia. *J Pediatr.* 2016 Feb;169:316-7. doi: 10.1016/j.jpeds.2015.10.069. Epub 2015 Nov 17.

**NEIL
CHADHA**

1. Rahmanian R, Zheng J, Chadha NK, Kozak FK, Campbell AI, Ludemann JP. False carina: a distinct variant of tracheal bronchus. *Int J Pediatr Otorhinolaryngol.* 2015 Apr;79(4):623-8
2. Butskiy O, Mistry B, Chadha NK. Surgical Interventions for Pediatric Unilateral Vocal Cord Paralysis: A Systematic Review. *JAMA Otolaryngol Head Neck Surg.* 2015 Jul;141(7):654-60. doi: 10.1001/jamaoto.2015.0680. Review.
3. Lachance S, Chadha NK. Systematic Review of Endoscopic Obliteration Techniques for Managing Congenital Piriform Fossa Sinus Tracts in Children. *Otolaryngol Head Neck Surg.* 2016 Feb;154(2):241-6. doi: 10.1177/0194599815613286. Epub 2015 Nov 2. Review
4. Yu CV, Khera KD, Pauwels J, Chadha NK. Prevalence and ethnic variation of pre-auricular sinuses in children. *Int J Pediatr Otorhinolaryngol.* 2016 Jan;80:43-8. doi: 10.1016/j.ijporl.2015.11.008. Epub 2015 Nov 24.

**JEFFREY
LUDEMANN**

1. Rahmanian R, Zheng J, Chadha NK, Kozak FK, Campbell AI, Ludemann JP. False carina: a distinct variant of tracheal bronchus. *Int J Pediatr Otorhinolaryngol.* 2015 Apr;79(4):623-8.
2. Jasinovic T, Kozak FK, Moxham JP, Chilvers M, Wensley D, Seear M, Campbell A, Ludemann JP. Casting a look at pediatric plastic bronchitis. *Int J Pediatr Otorhinolaryngol.* 2015 Oct;79(10):1658-61. doi: 10.1016/j.ijporl.2015.07.011. Epub 2015 Jul 23.
3. BCCH Pediatric Tracheostomy App for Students (Ludemann J, Zheng J, Richards B, Kwong L, O'Hara N) published by Apple August 2015

**PAUL
MOXHAM**

1. Jasinovic T, Kozak FK, Moxham JP, Chilvers M, Wensley D, Seear M, Campbell A, Ludemann JP. Casting a look at pediatric plastic bronchitis. *Int J Pediatr Otorhinolaryngol.* 2015 Oct;79(10):1658-61. doi: 10.1016/j.ijporl.2015.07.011. Epub 2015 Jul 23.
2. Sorichetti B, Moxham JP, Kozak FK. Type IV congenital laryngeal web: Case report and 15 year follow up. *Am J Otolaryngol.* 2016 Mar-Apr;37(2):148-51. doi: 10.1016/j.amjoto.2015.11.001. Epub 2015 Nov 10.

DIVISION OF PEDIATRIC PLASTIC SURGERY

2014-2015



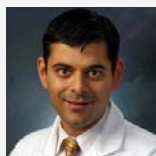
FACULTY MEMBERS:



Dr. Cynthia Verchere Division Head,
Clinical Associate Professor
UBC



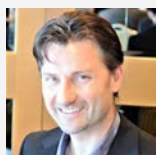
Dr. Mark Hill
Clinical Professor UBC



Dr. Jugpal Arneja
Clinical Professor UBC



Dr. Douglas J Courtemanche
Clinical Professor Emeritus UBC



Dr. Sean Bristol
Clinical Assistant Professor UBC

STAFF MEMBERS:

- *Ms. Norine Mayede, Division Administrative Assistant & Medical Office Assistant to Dr. Verchere*
- *Dr. Marija Bucevska, Research Coordinator*
- *Ms. Rebecca Courtemanche, Research Assistant*
- *Ms. Rupinder Parhar, Medical Office Assistant to Dr. Courtemanche*
- *Ms. Anastasia Mitzel, Medical Office Assistant to Dr. Arneja*
- *Ms. Audrey Potkonjak, Office Assistant to Dr. Verchere*

HIGHLIGHTS AND ACHIEVEMENTS:

SUMMER STUDENTS

This past year, we had six summer students working on various research projects in the Pediatric Plastic Surgery Division. They all presented at the CFRI poster session and/or OPSEI rounds. In addition, we are proud that all six of our students were successfully accepted to the 2015 Western Regional Meeting in Carmel California.

The students' research projects were all grant funded: two received SQAN grant, two received OPSEI grants, one was funded by UBC and one was funded by CFRI.

In addition to the grueling intellectual work, our students excelled at a hot, summer soccer tournament and even held their own against the formidable Team Anesthesia.

01

TEACHING ACTIVITIES

FELLOWS SUPERVISED

- *Dr. Regan Guilfoyle (July 2013 – June 2014)*
- *Dr. Eleonore Breuning (July 2014 – June 2015)*
- *Dr. Wai-Yee Li (July 2014 – June 2015)*

SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

- *What is the best way to track surgical complications? Comparing the national surgical quality improvement program versus traditional morbidity and mortality rounds.* Zhang JX, Song D, Bedford J, **Courtemanche D**, Bucevska M, **Arneja J**. Presented at the 2015 Western Regional Meeting, Jan 29-31, 2015, Carmel, California.
- *Pediatric melanoma in British Columbia.* Dean P, Strahlendorf C4, Bucevska M, **Verchere C**. Presented at the 2015 Western Regional Meeting, Jan 29-31, 2015, Carmel, California.
- *Is it safe to re-access sodium bicarbonate vials for use in minor surgery?* Bjornson L, Willis L, Margach M, Tilley P, Bucevska M, **Verchere C**. Presented at the 2015 Western Regional Meeting, Jan 29-31, 2015, Carmel, California.
- *Spontaneously resolved macrocystic lymphatic malformations.* Phang M, Bucevska M, Malic C, **Courtemanche D**, **Arneja J**. Presented at the 2015 Western Regional Meeting, Jan 29-31, 2015, Carmel, California.
- *Blood loss and perioperative fluid management during craniosynostosis surgery.* Skocylas R, Bucevska M, Cassidy M, **Courtemanche D**. Presented at the 2015 Western Regional Meeting, Jan 29-31, 2015, Carmel, California.

INVITED PRESENTATIONS:

- **Courtemanche D**. *A View from Here.* BCHIMPS Fall Education Conference, Vancouver, Nov 14, 2014

GRANTING AGENCY	TITLE		PI	CO-PI
CFRI	CAPACITY BUILDING	10,000	D. COURTEMANCHE	C. VERCHERE J. ARNEJA
OPSEI	PEDIATRIC MELANOMA	1,800	C. VERCHERE	C. STRAHLENDORF PAIGE DEAN
OPSEI	SPONTANEOUSLY RECOVERED MACROCYSTIC LYMPHATIC MALFORMATIONS: A CASE SERIES	1,800	J. ARNEJA	D. COURTEMANCHE M. PHANG
UBC	PERI-OPERATIVE FLUID MANAGEMENT IN CRANIOSYNOSTOSIS SURGERY	3,200	D. COURTEMANCHE	M. CASSIDY R. SKOCYLAS
SQAN	RE-USING THE SODIUM BICARBONATE VIAL: IS THERE A SAFETY ISSUE?	3,500	C. VERCHERE	P. TILLEY L. BJORNSON
SQAN	COMPARISON OF SURGICAL COMPLICATION RATES BETWEEN NSQIP AND TRADITIONAL DEPARTMENTAL MORBIDITY AND MORTALITY METHODOLOGIES	3,500	J. ARNEJA	D. COURTEMANCHE D. SONG J. ZHANG
CFRI	THE SURGICAL MANAGEMENT OF PIERRE ROBIN SEQUENCE – WHEN AND WHICH TYPE OF SURGERY?	2,700	J. ARNEJA	D. COURTEMANCHE W. LI A. POON

03 COMMITTEE PARTICIPATION

JUGPAL ARNEJA	<ul style="list-style-type: none"> • <i>Medical Advisory Committee (MAC), BC Children's Hospital, 2012-present</i> • <i>Provincial Surgical Advisory Council (PSAC), BC Children's Hospital</i> • <i>Surgical Services Advisory Council (SSAC), BC Children's Hospital, 2010-present</i> • <i>Child Health Leadership Team, BC Children's Hospital, 2010-present</i>
DOUGLAS COURTEMANCHE	<ul style="list-style-type: none"> • <i>Surgical Data Management Committee, BC Children's Hospital</i> • <i>Biohazard Exposure Control Committee, Provincial Health Services Authority</i>
CYNTHIA VERCHERE	<ul style="list-style-type: none"> • <i>Plastic Surgery Residency Committee, Member, Jan 2006 to present</i> • <i>Burn Program ad hoc Committee (VGH/BCCH), Jan 1996 to present</i> • <i>British Columbia Medical Association Journal, reviewer and member of the Editorial Board, Jan 2009 to present</i>

04 PUBLICATION RECORDS con't

REFEREED PUBLICATIONS

- *Malic C, Verchere C, Arneja JS. Inpatient silver sulphadiazine versus outpatient nanocrystalline silver models of care for pediatric scald burns: A value analysis. Can J Plast Surg. 2014;22(2):99-102*
- *Stein M, Guilfoyle R, Courtemanche D, Moss W, Bucevska M, Arneja JS. The "Little AVM": A New Entity in High-flow versus Low-flow Vascular Malformations. PRS GO 2014; 2(7): e187*
- *Arneja JS, Buchel EW. Does the ideal health care system exist? Will it be accepted in Canada? Can J Plast Surg. 2014 Spring;22(1):7-8*
- *Verchere C, Durlacher K, Bellows D, Pike J, Bucevska M. An early shoulder repositioning program in birth-related brachial plexus injury: a pilot study of the Sup-ER protocol. Hand (N Y). 2014 Jun;9(2):187-95.*
- *Burnell L, Verchere C, Pugash D, Loock C, Robertson S, Lehman A. Additional post-natal diagnoses following antenatal diagnosis of isolated cleft lip +/- palate. Arch Dis Child Fetal Neonatal Ed. 2014 Jul;99(4):F286-90.*
- *Wang JCC, Malic C, Reilly C, Verchere C. Microtia Reconstruction and Postsurgical Grisel's Syndrome: A Rare Cause of Torticollis in a Child. PRS GO 2014 Jun;2(6):e176.*
- *Durlacher K, Bellows D, Verchere C. Sup-ER orthosis: An innovative treatment for infants with birth related brachial plexus injury. JHT 2014;27(4): 335-40.*
- *Arneja JS, McInnes CW, Carr NJ, Lennox P, Hill M, Petersen R, Woodward K, Skarlicki D. Do Plastic Surgery Division Heads and Program Directors Have the Tools Necessary to Provide Effective Leadership? Plast Surg 2014;22(4):241-245*

DIVISION OF PEDIATRIC PLASTIC SURGERY

2015-2016



FACULTY MEMBERS:



Dr. Cynthia Verchere Division Head,
Clinical Associate Professor UBC



Dr. Sean Bristol
Clinical Assistant Professor UBC



Dr. Jugpal Arneja
Clinical Professor UBC



Dr. Douglas J Courtemanche
Clinical Professor Emeritus UBC

STAFF MEMBERS:

- **Ms. Norine Mayede**, Division Administrative Assistant & Medical Office Assistant to Dr. Verchere
- **Ms. Wendy Moss**, RN
- **Dr. Marija Bucevska**, Research Coordinator
- **Ms. Rebecca Courtemanche**, Research Coordinator
- **Ms. Rupinder Parhar**, Medical Office Assistant to Dr. Courtemanche
- **Ms. Anastasia Mitzel**, Medical Office Assistant to Dr. Arneja
- **Ms. Audrey Potkonjak**, Office Assistant to Dr. Verchere

HIGHLIGHTS AND ACHIEVEMENTS:

DR. VERCHERE

Dr. Cynthia Verchere received an acknowledgement for outstanding work in the area of burn care and for creating a positive difference for patients and families (BCCH, November, 2015)

DR. VERCHERE & MS. MAYEDE

Dr. Cynthia Verchere and Ms. Norine Mayede both won the Award of Excellence with Distinction for "Youth Friendly Care" (Youth Advisory Committee of PHSA, BCCH, and BC Mental Health, May, 2015)

01 TEACHING ACTIVITIES

LECTURES

DOUGLAS COURTEMANCHE

- Courtemanche DJ. *The Future of Cleft Lip and Palate Surgery*. Invited speaker, category Canadian Expert. Canadian Society of Plastic Surgeons 69th Annual Meeting, June 2-6, 2015, Victoria.

JUGPAL ARNEJA

- Arneja J, Zhou L. *How Does Anyone Get an Operation Around Here? Leveraging Big Data to Drive "Operations"*. UBC BCCH OPSEI Surgical Suites Grand Rounds, September 15, 2015

FELLOWS SUPERVISED

- Dr. Darius Deo Balumuka (July 2015 – June 2016)
- Dr. Erika Henkelman (January 2016 – August 2016)

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

- Durlacher K, Bellows D, Verchere C. *Application of a Collaborative Framework: Development of the Sup-ER Splint*. Poster presentation. Pediatric Update Symposium, April 17, 2015, Richmond, BC.
- Bucevska M, Bellows D, Durlacher K, Neufeld M, Verchere C. *Management of Birth Related Brachial Plexus Injuries in Canada*. Canadian Brachial Plexus Network (or workgroup) Meeting. Victoria, June 2, 2015
- Li WY, Poon A, Courtemanche D, Verchere C, Malic C, Arneja J. *Airway Management in Pierre Robin Sequence: The Vancouver Classification System*. Canadian Society of Plastic Surgeons 69th Annual Meeting, June 2-6, 2015, Victoria BC.
- Dean P, Strahlendorf C, Bucevska M, Verchere C. *Pediatric Melanoma in British Columbia*. Canadian Society of Plastic Surgeons 69th Annual Meeting, June 2-6, 2015, Victoria BC.
- Bjornson L, Bucevska M, Tilley P, Verchere C. *Is It Safe to Re-access Sodium Bicarbonate Vials for Use in Minor Surgery?* Canadian Society of Plastic Surgeons 69th Annual Meeting, June 2-6, 2015, Victoria BC.

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

- **Phang M, Bucevska M, Malic C, Courtemanche D, Arneja J.** Spontaneously Resolved Macrocystic Lymphatic Malformations. Canadian Society of Plastic Surgeons 69th Annual Meeting, June 2-6, Victoria BC.
- **Zhang JX, Song D, Bedford J, Courtemanche D, Bucevska M, Arneja J.** What Is the Best Way to Track Surgical Complications? Comparing the National Surgical Quality Improvement Program Versus Traditional Morbidity and Mortality Rounds. American Association of Plastic Surgeons 2015 Annual Meeting, April 14, 2015, Scottsdale, Arizona; Western Regional Meeting; Canadian Society of Plastic Surgeons 69th Annual Meeting, June 5, Victoria BC.*
*Diana Song won the Educational Foundation Award for the best Epidemiology & Biostatistics Presentation by a resident.
- **Li W, Poon A, Courtemanche D, Verchere C, Robertson S, Malic C, Bucevska M, Arneja J.** Airway Management in Pierre Robin Sequence: The Vancouver Classification System. Canadian Society of Plastic Surgeons 69th Annual Meeting, June 4, Victoria BC.
- **Skocylas R, Bucevska M, Cassidy M, Courtemanche DJ.** Blood Loss and Perioperative Fluid Management during Craniostylosis Surgery. Canadian Society of Plastic Surgeons 69th Annual Meeting, June 5, Victoria BC.
- **Verchere C, Durlacher K, Bellows D, Pike J, Bucevska M.** An Early Shoulder Repositioning Program in Birth-Related Brachial Plexus Injury: A Pilot Study of the Sup-ER Protocol. Presented at the Canadian Orthopaedic Association Annual Meeting: June 17-20, 2015 in Vancouver, BC.
- **Sepehri A, Chhina H, Courtemanche D, Cooper A.** The Multiplier Method for Predicting Limb Length Discrepancy in Patients with Vascular Anomalies in the Lower Limb. International Limb Lengthening and Reconstruction Society Congress Miami, FL. November 4-7, 2015.
- **Roller J, Courtemanche RJ, Courtemanche DJ.** A Review of the Characteristics of Validated Quality of Life (QOL) Patient Reported Outcome Measures (PROMS) in Pediatric Plastic Surgery. 2016 Western Regional Meeting, Carmel, CA. Jan 28, 2016.
- **Chan F, Courtemanche DJ.** A retrospective review of temporomandibular joint reconstruction with autogenous costochondral arthroplasty. 2016 Western Regional Meeting, Carmel, CA. January 28, 2016.
- **Breuning E, Courtemanche RJ, Courtemanche DJ.** Qualitative Interviews with Parents of Young Children with Cleft Lip and Palate. 2016 Western Regional Meeting, Carmel, CA. January 28, 2016 (poster presentation) and Healthy Mothers & Healthy Babies PSBC'S 2nd Biennial Conference. March 11-12, 2016 Vancouver, BC**.
**Eleonore Breuning received a WAFMR Scholar Award.
- **Balumuka DD, Bucevska M, Courtemanche R, Verchere C.** A Change in Pattern of Surgical Indications for Children with Narakas I and II Managed with the Sup-ER Protocol. XIX Narakas Symposium in Barcelona, February 25-27, 2016.
- **Courtemanche RJ, Breuning E, Courtemanche DJ.** Qualitative Interviews with Parents of Young Children with Cleft Lip and Palate. Cleft Palate Clinic Biannual CPD. BCCH. May 19, 2015

GRANTING AGENCY	TITLE		PI	CO-PI
DIVISION OF PLASTIC SURGERY, UBC	DEVELOPING PROMS	3,335	D. COURTEMANCHE	ELLY BREUNING
DIVISION OF PLASTIC SURGERY, UBC	JOURNAL CLUB	5,000	J. ARNEJA	NICOLE WIERKS
OPSEI	A RETROSPECTIVE REVIEW OF TEMPOROMANDIBULAR JOINT RECONSTRUCTION WITH AUTOGENOUS COSTOCHONDRAL ARTHROPLASTY	1,800	D. COURTEMANCHE	FORSON CHAN
UBC	PROMS	1,600	D. COURTEMANCHE	JANINE ROLLER
UBC	JOURNAL CLUB	3,200	J. ARNEJA	NICOLE WIERKS
MCMASTER UNIVERSITY (CIHR)	CLEFT-Q	10,000	D. COURTEMANCHE	A. KLASSEN (COORDINATING PI)

03 COMMITTEE PARTICIPATION

- | | |
|-----------------------------|--|
| JUGPAL ARNEJA | <ul style="list-style-type: none"> • Medical Advisory Committee (MAC), BC Children's Hospital, 2012-present • Provincial Surgical Advisory Council (PSAC), BC Children's Hospital • Surgical Services Advisory Council (SSAC), BC Children's Hospital, 2010-present • Child Health Leadership Team, BC Children's Hospital, 2010-present |
| DOUGLAS COURTEMANCHE | <ul style="list-style-type: none"> • Surgical Data Management Committee, BC Children's Hospital • Biohazard Exposure Control Committee, Provincial Health Services Authority |
| CYNTHIA VERCHERE | <ul style="list-style-type: none"> • Plastic Surgery Residency Committee, Member, Jan 2006 to present • Burn Program ad hoc Committee (VGH/BCCH), Jan 1996 to present |

04 PUBLICATION RECORDS con't

REFEREED PUBLICATIONS

1. Bellows D, Bucevska M, Verchere C. Coordination and Balance in Children with Birth-Related Brachial Plexus Injury: A Preliminary Study. *Physiother Can.* 2015 Spring;67(2):105-12.
2. Seal SK, Steinbok P, Courtemanche DJ. The Cranial Orbital Buttress (COB) Technique for Non-Syndromic Unicoronal and Metopic Craniosynostosis. *Neurosurg Focus* 38 (5):E4, 2015
3. Courtemanche RJM, Taylor NS, Courtemanche DJ. Initiating Silver Recycling Efforts: Quantifying Ag from Used Burn Dressings. *Environmental Technology & Innovation* 4 (2015) 29–35.
4. Courtemanche D, Cannon W, Courtemanche R, et al. Acute choke zone effects: Lessons from Radioactive and Fluorescent Microspheres in a Pig Model Muscle Flap. *Plast Surg (Oakv)*. 2015 Fall;23(3):171-6.
5. Quong WL, Hynes SL, Arneja JS. Pediatric Stinger Syndrome: Acute Brachial Plexopathy After Minor Trauma. *PRS GO* 2015;3(11)(e560:1-3)
6. Chan E, Bucevska M, Verchere C. Minor surgery procedures: A Retrospective Review and Prospective Survey in a Pediatric Population. *Plast Surg (Oakv)*. 2015 Fall;23(3):189-94.
7. Arneja J. Video Discussion: Gender and Satisfaction with Appearance in Children with Craniofacial Anomalies (PRS 136:789e-795e, 2015). *PRS Video Gallery* Nov. 19, 2015
8. Sur A, Manraj H, Lavoie PM, Lim K, Courtemanche D, Brooks P, Albersheim S. Multiple Successful Angioembolizations for Refractory Cardiac Failure in a Preterm with Rapidly Involuting Congenital Hemangioma. *AJP Rep* 2016 Mar;6(1):e99–e103.

DIVISION OF PEDIATRIC SURGERY

2014-2015



FACULTY MEMBERS:



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



Dr. Sonia A. Butterworth
Clinical Associate Professor UBC



Dr. Erik D. Skarsgard
Professor UBC



Dr. Geoffrey K. Blair Clinical
Professor
UBC



Dr. James J. Murphy
Clinical Associate Professor UBC

STAFF MEMBERS:

- **Ms. Lynda Fynn**
- **Ms. Robyn Walker**
- **Ms. Jill Haynes**
- **Ms. Susan Myhre**
- **Ms. Christine Adamson**
- **Ms. Amie Nowak**
- **Ms. Bindy Sahota**

HIGHLIGHTS AND ACHIEVEMENTS:

DR. BLAIR

Awarded the Medical Undergraduate Society Teaching Excellence Award by the Class of 2016- February, 2015 | Chairmanship of the Canadian Medical Association Specialist Forum- August, 2014 and January, 2015

DR. BUTTERWORTH

Appointment as Co-Lead PGME Simulation, UBC

DR. SKARSGARD

14th Annual Frank M. Guttman Visiting Professorship. Montreal Children's Hospital

01 TEACHING ACTIVITIES

FELLOWS SUPERVISED

- Jennifer Stanger
- Phyllis Kisa
- Brian Coakley

RESIDENTS SUPERVISED

ROYAL COLLEGE
PEDIATRIC
RESIDENTS (4 WEEK
ROTATIONS)

- Charmaine Wong
- Caroline Malcomson
- Steven Rathgeber
- Michael Fazio
- Vickie Chow
- Candace Creighton
- Jennifer Creighton
- Keira Dheensaw
- Tyler Omeis
- Rebecca Ronsley
- Elizabeth DeKlerk
- Juliana Wu
- Michelle Lai
- Faith Cormier
- Kristen Favel

RESIDENTS SUPERVISED

ROYAL COLLEGE
GENERAL SURGERY
RESIDENTS (8 WEEK
ROTATIONS)

- Gurp Johal
- Noora Sajwani
- Cecily Jonker
- Carla Pajak
- David Youssef
- Nazgol Seyednejad
- Hamid Izadi
- Hussein Wissanji
- Christopher Blackmore
- Jennifer Lam
- Dimitrios Coustinos
- Atif Jastinia
- Catherine Beaumier
- Humaid Al-Adawi
- Amandeep Ghuman

01 TEACHING ACTIVITIES con't

RESIDENTS SUPERVISED ROYAL COLLEGE GENERAL SURGERY RESIDENTS (8 WEEK ROTATIONS)	<ul style="list-style-type: none"> • Christopher Blackmore • Jennifer Lam • Dimitrios Coustinos • Atif Jastinia • Catherine Beaumier • Humaid Al-Adawi • Amandeep Ghuman 	RESEARCH RESIDENTS SUPERVISED <ul style="list-style-type: none"> • Candace Haddock • Paul D'Alessandro
		STUDENT SUPERVISED <ul style="list-style-type: none"> • Grace Chan • Jack Huebner • Ellen Lee • Roseanne Lim
RESIDENTS SUPERVISED ROYAL COLLEGE GENERAL SURGERY RESIDENTS (8 WEEK ROTATIONS)	<ul style="list-style-type: none"> • Karen Slater • Diana Song 	

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

GEOFFREY BLAIR	<ul style="list-style-type: none"> • Neurosurgery Grand Rounds- Undergraduate Surgical Teaching-December 17th, 2014 • Global health day- October 10th, 2014- Uganda Training Alliance
SONIA BUTTERWORTH	<ul style="list-style-type: none"> • Butterworth, SA. Emergent and Urgent Surgery at BCCH: Are Outcomes Impacted by Out of Hours and is Access Timely? Surgical Suites Grand Rounds, BC Children's Hospital, Nov 18, 2014 • Butterworth, SA Pediatric Surgery for the General Surgeon, BC Surgical Annual Meeting, Victoria, BC, May 10th, 2014 • Butterworth, SA National Defence, Canadian Forces Trauma Training Centre (West), Pediatric Trauma, Vancouver, BC, June 14, 2014 • Butterworth, SA National Defence, Canadian Forces Trauma Training Centre (West), Pediatric Trauma, Vancouver, BC, Nov 4, 2014 • Butterworth, SA National Defence, Canadian Forces Trauma Training Centre (West), Pediatric Trauma Vancouver, BC, Feb 4, 2015
ERIK SKARSGARD	<ul style="list-style-type: none"> • "Tiers of Service": The Development of Distributed Children's Surgical Services in British Columbia. McGill Department of Pediatrics Grand Rounds, Montreal Children's Hospital, Montreal, PQ. June 11, 2014 • Data Driven Quality Improvement: "No Status Quo Is Permitted" (NSQIP). 14th Annual Visiting Professorship lecture; McGill Department of Pediatric Surgery Grand Rounds, Montreal Children's Hospital, June 12, 2014

02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS con't :

**ERIK
SKARSGARD**

- *Process and outcomes improvement in Gastroschisis and Congenital Diaphragmatic Hernia: A Tale of Two Networks (CAPSNet and NSQIP). Neonatology Rounds, McGill Children's Hospital. June 12, 2014*
- *"Weighing in" on Nutritional Rehabilitation in Pediatric Surgical Patients. 10th Annual National Surgical Quality Improvement Program Annual Meeting, New York, NY; July 28, 2014*

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
UBC TEACHING & LEARNING ENHANCEMENT FUND	DEVELOPMENT OF CORE UNDERGRADUATE LEARNING RESOURCES WITHIN THE SURGICAL DISCIPLINES	C	32,000	2015	G. BLAIR	D. DUFFY, N. O'HARA, T. JASINOVIC, V. MA, A.MELCK, E. SKARSGARD, E. WEBBER, N.ZHYGAN
CIHR	SECONDARY ANALYSIS OF DATABASES	C	50,000		SKARSGARD ED	ARBOUR L, BRINDLE ME, BASSIL K, MOINEDDIN R

03 COMMITTEE PARTICIPATION

**GEOFFREY
BLAIR**

- *Various Curriculum Renewal Committees for the Faculty of Medicine (e.g. Clerkship Development Team)*
- *Year 3 & 4 Committees UBC FoM MD Undergraduate Program*
- *Surgical Undergraduate Education Committee, Chair*
- *UBC Department of Surgery, Surgical Advisory Council, Member*
- *Canadian Undergraduate Surgery Education Committee, Chair-elect*
- *CAPS Global Partnership Committee, Chair*
- *CAPS Workforce Committee, Member*
- *CMA Specialist Forum, Chair*
- *Agenda Setting Committee of CMA Specialist Forum, Member*
- *CMA General Council, CAPS Representative*
- *CMA Quality Collaborative, Inaugural Chair*
- *Editorial Board of the Journal of Pediatric Surgery, Associate Editor*
- *International Network on Esophageal Atresia (INoEA), Member*

03 COMMITTEE PARTICIPATION con't

SONIA

BUTTERWORTH

- *BC Children's Hospital NICU Complex Nutrition Committee*
- *BC Children's Hospital Children's Intestinal Rehabilitation Program*
- *Pharmacy, Therapeutics and Nutrition Committee, BCCH*
- *BC Children's Hospital Trauma Committee*
- *BC Children's Hospital Diaphragmatic Pacing Program*
- *General Surgery Residency Education Committee, member, UBC*
- *Surgical Foundations, Director, UBC*
- *Royal College Surgical Foundations Advisory Committee, Member*
- *Department of Surgery Executive, member, UBC*
- *Co-Lead, PGME Simulation, UBC*
- *Pediatric Surgery Program Director, UBC*
- *Royal College Pediatric Surgery Specialty Committee, Member*
- *Association of Pediatric Surgery Training Directors, Member*
- *Canadian Association of Pediatric Surgeons, publications committee*

ERIK

SKARSGARD

Local (BCCH, UBC):

- *BCCH Department of Pediatric Surgery, Head*
- *Innovative Technology OR Committee, Chair*
- *Surgical Services Advisory Committee, Chair*
- *Pediatric Surgery Executive Committee, Chair*
- *Surgical Cabinet, Chair*
- *Radiology Review Committee (LMC), Chair*
- *BCCH Search Committee for Head of Neurosurgery, Chair*
- *Medical Advisory Committee, Member*
- *BCCHF Allocations Committee, Member*
- *BCCHF Board of Directors, Member*
- *BCCH BioBank Executive Committee, Member*
- *BCCHF Child Health Integrative Partnerships (CHIPS) Executive Committee*
- *CFRI Scholars of Excellence Executive Committee*
- *UBC Centre for Surgical Research, Dept of Surgery, Co-chair*
- *Organizing Committee, WB and MH Chung Research Symposium, Member*
- *UBC Dept of Surgery Executive Committee, Member*
- *UBC A&P Committee, Department of Surgery, Member*
- *UBC Merit Review Committee, Department of Surgery, Member*
- *Surgical representative to the UBC Clinical Investigator Program (CIP)*

03

COMMITTEE PARTICIPATION con't

ERIK SKARSGARD

National/International:

- *American Pediatric Surgical Association (APSA), Governor, 2012-15*
- *New Technology Committee, APSA, Chair (2015-17)*
- *Nominating Committee, APSA, Member (2015-17)*
- *The Canadian Association of Pediatric Surgeons, Director, 2012-15*
- *President-elect, The Canadian Association of Pediatric Surgeons (2014)*
- *The Canadian Pediatric Surgery Network (CAPSNet), Director*
- *Advisory Council (Pediatric Surgery), American College of Surgeons (ACS), Member (2015-18)*
- *Communications Pillar Committee, ACS, member (2015-18)*
- *ACS National Surgical Quality Improvement Program (BCCH site), Surgeon co-champion*
- *Canadian Congenital Anomalies Surveillance Network, Public Health Agency of Canada, Member*
- *CIHR Institute Advisory Board (Institute of Human Development, Child and Youth Health), Member (2012-16)*
- *North American Fetal Therapy Network (NAFTNet), Member*

ERIC WEBBER

- *Medical Advisory Committee, Vice-Chair (C and W)*
- *Mortality Review Committee, Chair (C and W)*
- *Surgical Services Safety Quality of Care Committee, Member (BCCH)*
- *Surgical Services Advisory Committee, Member (BCCH)*
- *Vascular Access Committee, Co-Chair (BCCH)*
- *Partners in Care Advisory Committee, Member (BCCH)*
- *Resident Appeals Committee, Chair (UBC Faculty of Medicine)*
- *Executive Committee, Member (UBC Dept. of Surgery)*
- *Pacific Association of Pediatric Surgeons*
 - a. *Board of Directors, Member*
 - b. *Publications Committee, Member*
 - c. *Program Committee, Member*
- *Royal College of Physicians and Surgeons of Canada*
 - a. *General Surgery Specialty Committee, Chair*
 - b. *Surgical Foundations Advisory Committee, Nucleus member*
 - c. *Specialty Standards Review Committee, Member*
 - d. *Specialty Chairs Annual Meeting Organizing Committee, Member*
 - e. *International Program Review Committee, Member*

PUBLICATION RECORDS

REFEREED PUBLICATIONS

**GEOFFREY
BLAIR**

1. Blair GK, Duffy D, Birabwa-Male D, Sekabira J, Reimer E, Koyle M, Hudson GR, Stanger J, Langer M, Eeson G, et al. 2014. Pediatric surgical camps as one model of global surgical partnership: A way forward. *J Pediatr Surg* 49(5):786-90
2. Eeson G, Birabwa-Male D, Pennington M, Blair GK. 2015. Costs and cost-effectiveness of pediatric inguinal hernia repair in Uganda. *World J Surg* 39(2):343-9.
3. Emil S, Blair G, Langer JC, Miller G, Aspirot A, Brisseau G, Hancock BJ. 2014. A survey-based assessment of the Canadian pediatric surgery workforce. *J Pediatr Surg* 49(5):678-81

**SONIA
BUTTERWORTH**

1. Haddock CA, Stanger JD, Albersheim SG, Casey LM, Butterworth SA. Mucous fistula refeeding in neonates with enterostomies. *J Pediatr Surg*. 2015 May;50(5):779-82. doi: 10.1016/j.jpedsurg.2015.02.041. Epub 2015 Feb 19
2. Yeung A, Butterworth SA. A comparison of surgical outcomes between in-hours and after-hours tracheoesophageal fistula repairs. *J Pediatr Surg*. 2015 May;50(5):805-8. doi: 10.1016/j.jpedsurg.2015.02.036. Epub 2015 Feb 19
3. Kisa P, Ting J, Callejas A, Osioviich H, Butterworth SA. Major thrombotic complications with lower limb PICCs in surgical neonates. *J Pediatr Surg*. 2015 May;50(5):786-9. doi: 10.1016/j.jpedsurg.2015.02.043. Epub 2015 Feb 19

**ERIK
SKARSGARD**

1. Skarsgard ED, Bedford J, Chan T, Whyte S, Afshar K. ACS National Surgical Quality Improvement Program: Targeting Quality Improvement in Canadian Pediatric Surgery. *J Pediatr Surg* 2014 May;49(5):682-7
2. Stanger J, Mohajerani N, Skarsgard ED, Canadian Pediatric Surgery Network (CAPSNet). Practice Variation in Gastroschisis: Factors Influencing Closure Technique. *J Pediatr Surg* 2014 May;49(5):720-3
3. Emami CN, Youssef F, Baird RJ, Laberge JM, Skarsgard ED, Puligandla PS; Canadian Pediatric Surgery Network (CAPSNet). A risk-stratified comparison of fascial versus flap closure techniques on the early outcomes of infants with gastroschisis. *J Pediatr Surg* 2015 Jan;50(1):102-6
4. Skarsgard ED, Meaney C, Bassil K, Brindle M, Arbour L, Moineddin R; Canadian Pediatric Surgery Network (CAPSNet). Maternal Risk Factors for Gastroschisis in Canada. *Birth Defects Res A Clin Mol Teratol* 2015 Feb;103(2):111-8
5. Beaumier CK, Beres AL, Puligandla PS, Skarsgard ED; Canadian Pediatric Surgery Network. Clinical characteristics and outcomes of patients with right congenital diaphragmatic hernia: A population-based study. *J Pediatr Surg* 2015; 50(5):731-3

CONFERENCE PROCEEDINGS

**SONIA
BUTTERWORTH**

1. Haddock CA, Stanger JD, Albersheim SG, Casey LM, Butterworth SA. Mucous fistula refeeding in neonates with enterostomies. *Canadian Association of Pediatric Surgeons Annual Meeting, Montreal, Canada, September, 2014*
2. Yeung A, Butterworth SA. A comparison of surgical outcomes between in-hours and after-hours tracheoesophageal fistula repairs. *Canadian Association of Pediatric Surgeons Annual Meeting, Montreal, Canada, September, 2014*

04 PUBLICATION RECORDS con't

CONFERENCE PROCEEDINGS

SONIA
BUTTERWORTH

3. Kisa P, Ting J, Callejas A, Osiovič H, Butterworth SA. Major thrombotic complications with lower limb PICCs in surgical neonates. Canadian Association of Pediatric Surgeons Annual Meeting, Montreal, Canada, September, 2014
4. Chan G, Butterworth SA. Audit of Emergent and Urgent Surgery for Acutely Ill Pediatric Patients: Is Access Timely? Chung Day, Vancouver, Nov 17, 2014
5. D'Alessandro P, Frager G, Butterworth S. Ed's Story: the Dragon Chronicles Operating theatre: medical humanities integrated into first-year surgical residency curriculum, Chung Day, Vancouver, Nov 17, 2014
6. D'Alessandro P, Frager G, Butterworth S. Ed's Story: the Dragon Chronicles Operating theatre: medical humanities integrated into first-year surgical residency curriculum, BC Surgical Society Annual Meeting, May 10, 2014.

ERIK
SKARSGARD

1. Emami CN, Youssef F, Baird RJ, Laberge JM, Skarsgard ED, Puligandla PS; Canadian Pediatric Surgery Network (CAPSNet). A risk-stratified comparison of fascial versus flap closure techniques on the early outcomes of infants with gastroschisis. 45th Annual Meeting of the American Pediatric Surgical Association, Phoenix AZ; May 29, 2014
2. Bedford J, Afshar K, Skarsgard ED. Keen to Clean: Decreasing urinary tract infections at BC Children's Hospital. 10th Annual National Surgical Quality Improvement Program Annual Meeting, New York, NY; July 27, 2014
3. Thomas S, Lalous M, Baird R, Skarsgard ED, Laberge JM; Canadian Pediatric Surgery Network. Factors associated with elective termination of pregnancy of fetuses with Congenital Diaphragmatic Hernia. 33rd Annual Meeting of the International Fetal Medicine and Surgery Society. Cape Cod, MA; Sept 12, 2014
4. Beaumier CK, Beres AL, Puligandla PS, Skarsgard ED; Canadian Pediatric Surgery Network. Clinical characteristics and outcomes of patients with right congenital diaphragmatic hernia: A population-based study. 46th Annual Meeting of Canadian Association of Pediatric Surgeons, Montreal, QC; Sept 21, 2014

ERIC WEBBER

1. Harris KA., Webber EM, Gorman L, Ronson A, Taber S. Scope of General Surgery practice in Canada by population catchment area (PCA). Poster presented at the Royal Australasian College of Surgeons annual scientific congress, Singapore, Republic of Singapore; May 2014
2. Webber EM, Ronson A, Gorman L, Taber S, Harris KA. Efficacy of Canadian General Surgery residency training based on 78 index procedures. Paper presented at the International Conference on Surgical Education and Training, Harrowgate, UK; April 2014
3. Harris KA, Taber S, Ronson A, Gorman L, Webber EM. Formal training after General Surgery residency in Canada. Paper presented at the International Conference on Surgical Education and Training, Harrowgate, UK; April 2014
4. Webber EM, Verchere C, Bucesvska M, Levi J, Rahmanian R, Pritchard S. Placing the port: short and long-term consequences. Pacific Association of Pediatric Surgeons Annual Meeting. Banff, Canada; May 2014
5. Webber EM, Gorman L, Taber S, Ronson A, Harris KA. Dialogues on the design of surgical training: Competence by design and the task force on general surgery in the international perspective. International Conference on Residency Education (ICRE) Toronto, Ont. October 2014

DIVISION OF PEDIATRIC SURGERY

2015-2016



FACULTY MEMBERS:



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



Dr. Sonia A. Butterworth
Clinical Associate Professor UBC



Dr. Erik D. Skarsgard
Professor UBC



Dr. Geoffrey K. Blair
Clinical Professor, UBC

STAFF MEMBERS:

- **Ms. Lynda Fynn**
- **Ms. Robyn Walker**
- **Ms. Jill Haynes**
- **Ms. Susan Myhre**
- **Ms. Christine Adamson**
- **Ms. Amie Nowak**
- **Ms. Bindy Sahota**

01 TEACHING ACTIVITIES

FELLOWS

SUPERVISED

- Brian Coakley
- Abdullah Alshehri

RESIDENTS

SUPERVISED

ROYAL COLLEGE

PEDIATRIC

RESIDENTS (4 WEEK ROTATIONS)

- Kristen Favel
- Ana Sophia Lopez
- Matthew Carwana
- Samara Laskin
- Odion Kalaci
- Geoffrey Tziolas
- Sarah Riedlinger
- Jennifer Carlisle
- Bhupinder Johal
- Robynn Geier
- Jennifer Sibley
- Pamela Newman
- Julia Schneiderman
- Eric Eckbo
- Jaclyn Strauss

RESIDENTS

SUPERVISED

ROYAL COLLEGE

GENERAL SURGERY

RESIDENTS (8 WEEK ROTATIONS)

- Anu Ghuman
- Catherine Beaumier
- Shahrzad Joharifard
- Paul D'Alessandro
- Kristen DeGirolamo
- Elizaveta Vasilyeva
- Michael Bleszynski
- Jieun Cha
- Hannah Adamson
- Jennifer Li
- Joseph Margolick
- Mackenzie Lees

RESEARCH

RESIDENTS

SUPERVISED

- Shahrzad Joharifard
- Graeme Hintz

STUDENT

SUPERVISED

- Irena Zivkovic
- Natasha Au
- Adam Min

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
UBC TEACHING & LEARNING ENHANCEMENT FUND	DEVELOPMENT OF CORE UNDERGRADUATE LEARNING RESOURCES WITHIN THE SURGICAL DISCIPLINES	C	32,000	2015	G. BLAIR	D. DUFFY, N. O'HARA, T. JASINOVIC, V. MA, A. MELCK, E. SKARSGARD, E. WEBBER, N. ZHYGAN
CIHR	SECONDARY ANALYSIS OF DATABASES	C	50,000	2014	SKARSGARD ED	ARBOUR L, BRINDLE ME, BASSIL K, MOINEDDIN R

03 COMMITTEE PARTICIPATION

GEOFFREY BLAIR

- *Various Curriculum Renewal Committees for the Faculty of Medicine (e.g. Clerkship Development Team)*
- *Year 3 & 4 Committees UBC FoM MD Undergraduate Program*
- *Surgical Undergraduate Education Committee, Chair*
- *UBC Department of Surgery, Surgical Advisory Council, Member*
- *Canadian Undergraduate Surgery Education Committee, Chair-elect*
- *CAPS Global Partnership Committee, Chair*
- *CAPS Workforce Committee, Member*
- *CMA Specialist Forum, Chair*
- *Agenda Setting Committee of CMA Specialist Forum, Member*
- *CMA General Council, CAPS Representative*
- *CMA Quality Collaborative, Inaugural Chair*
- *Editorial Board of the Journal of Pediatric Surgery, Associate Editor*
- *International Network on Esophageal Atresia (INoEA), Member*

SONIA BUTTERWORTH

- *BC Children's Hospital Neo CHIRP, Surgical Lead*
- *BC Children's Hospital Children's Intestinal Rehabilitation Program, Surgical Lead*
- *Pharmacy, Therapeutics and Nutrition Committee, BCCH*
- *BC Children's Hospital Trauma Committee*
- *BC Children's Hospital Diaphragmatic Pacing Program*
- *General Surgery Residency Education Committee, member, UBC*
- *Surgical Foundations, Director, UBC*
- *Royal College Surgical Foundations Advisory Committee, Member*
- *Department of Surgery Executive, member, UBC*
- *Co-Lead, PGME Simulation, UBC*
- *CESEI Steering Committee*
- *Internal Review Committee, UBC*
- *Faculty Residency Committee, UBC*
- *Faculty Residency Committee, CBME Transition subcommittee, UBC*
- *Pediatric Surgery Program Director, UBC*
- *Royal College Pediatric Surgery Specialty Committee, Member*
- *Association of Pediatric Surgery Training Directors, Member*
- *Canadian Association of Pediatric Surgeons, publications committee, Co-Chair*
- *Journal of Pediatric Surgery, reviewer*

ERIK SKARSGARD

Local (BCCH, UBC):

- *Surgeon in Chief, BC Children's Hospital (2012-)*
- *Board member, BC Children's Hospital Foundation (2012-)*
- *Chair, Innovative Technology Committee, BCCH (2008-)*
- *Chair, Surgical Services Advisory Committee (2006-)*

03

COMMITTEE PARTICIPATION con't

- ERIK SKARSGARD**
- *Chair, Core Leadership Committee (2012-)*
 - *Chair, New Technology Committee, American Pediatric Surgical Association (2013-)*
 - *Member, Child Health Executive Committee*
 - *Member, Provincial Surgical Executive Committee (PSEC) (2014-)*
 - *Member, Planning Committee, World Federation of Associations of Pediatric Surgery Meeting (2016)*
 - *Member Child Health Integrated Partnerships (CHIPS) Executive Committee*
 - *Member, E2I Child and Family Research Institute (2015-)*
 - *Member, Medical Advisory Committee, BCCH (2006-)*
 - *Member, Allocations Committee, BCCH Foundation*
 - *Co-chair, Centre for Surgical Research, Dept of Surgery, UBC-2007-present*
 - *Royal College of Physicians and Surgeons of Canada – Fellow in General Surgery, with Certificate of Special Competence in Pediatric General Surgery*
 - *American Board of Surgery – diplomate in General Surgery with Certificate of Special Competence in Pediatric General Surgery (1998, recertified 2007)*
 - *American College of Surgeons – Fellow (1996-)*
 - *Member American College of Surgeons Advisory Council on Pediatric Surgery (2012-18)*
 - *Co-Chair ACS Advisory Council Communications Pillar Committee (2014-)*
 - *American Academy of Pediatrics-Specialty Fellow (Surgery) (1999-)*
 - *American Pediatric Surgical Association – Member (1996-)*
 - *Governor, American Pediatric Surgical Association (2012-2015)*
 - *Director, Canadian Association of Pediatric Surgeons (2012-16)*
 - *President, Canadian Association of Pediatric Surgeons (2016-17)*
 - *Surgeon Champion, Pediatric National Surgical Quality Improvement Program (2012-)*

- ERIC WEBBER**
- *Medical Advisory Committee, Vice-Chair (C and W)*
 - *Mortality Review Committee, Chair (C and W)*
 - *Surgical Services Safety Quality of Care Committee, Member (BCCH)*
 - *Surgical Services Advisory Committee, Member (BCCH)*
 - *Vascular Access Committee, Co-Chair (BCCH)*
 - *Resident Appeals Committee, Chair (UBC Faculty of Medicine)*
 - *Executive Committee, Member (UBC Dept. of Surgery)*
 - *Pacific Association of Pediatric Surgeons*
 - a. *Board of Directors, Member*
 - b. *Publications Committee, Member*
 - c. *Program Committee, Member*
 - *Royal College of Physicians and Surgeons of Canada*
 - a. *General Surgery Specialty Committee, Chair*
 - b. *Surgical Foundations Advisory Committee, Nucleus member*
 - c. *Specialty Standards Review Committee, Member*
 - d. *Specialty Chairs Annual Meeting Organizing Committee, Member*
 - e. *International Program Review Committee, Member*

PUBLICATION RECORDS

REFEREED PUBLICATIONS

**SONIA
BUTTERWORTH**

1. Yeung A, Butterworth SA. A COMPARISON OF SURGICAL OUTCOMES BETWEEN IN-HOURS AND AFTER-HOURS TRACHEOESOPHAGEAL FISTULA REPAIRS. *J Pediatr Surg* 2015 May 19;50(5):805-8.
2. Haddock CA, Stanger JD, Albersheim SG, Casey LM, Butterworth SA. Mucous fistula refeeding in neonates with enterostomies. *J Pediatr Surg*. 2015 May;50(5):779-82. doi: 10.1016/j.jpedsurg.2015.02.041
3. Yeung A, Butterworth SA. A comparison of surgical outcomes between in-hours and after-hours tracheoesophageal fistula repairs. *J Pediatr Surg*. 2015 May;50(5):805-8. doi: 10.1016/j.jpedsurg.2015.02.036.
4. Kisa P, Ting J, Callejas A, Osioviich H, Butterworth SA. Major thrombotic complications with lower limb PICCs in surgical neonates. *J Pediatr Surg*. 2015 May;50(5):786-9. doi: 10.1016/j.jpedsurg.2015.02.043.
5. Sigalet DL, Brindle M, Boctor D, Casey L, Dicken B, Butterworth S, Lam V2, Karnik V, de Heuvel E, Hartmann B, Holst J. A Safety and Dosing Study of Glucagon-Like Peptide 2 in Children With Intestinal Failure. *JPEN J Parenter Enteral Nutr*. 2015 Oct 15..
6. Chan G, Butterworth SA.. Audit of emergent and urgent surgery for acutely ill pediatric patients: is access timely? *J Pediatr Surg*. 2016 May;51(5):838-42. doi: 10.1016/j.jpedsurg.2016.02.033. Epub 2016 Feb 16.

**ERIK
SKARSGARD**

1. Beaumier CK, Beres AL, Puligandla PS, Skargard ED; Canadian Pediatric Surgery Network. Clinical characteristics and outcomes of patients with right congenital diaphragmatic hernia: A population-based study. *J Pediatr Surg* 2015 May;50(5):731-3.
2. Woo RK, Skargard ED. Innovating for quality and value: Utilizing national quality improvement programs to identify opportunities for responsible surgical innovation. *Semin Pediatr Surg* 2015 Jun;24(3):138-40.
3. Safavi A, Skargard ED. Advances in the Surgical Treatment of Gastroschisis. *Surg Technol Int* 2015 May;26:37-41.
4. Al-Kaff A, MacDonald SC, Kent N, Burrows J, Skargard ED, Hutcheon JA; Canadian Pediatric Surgery Network. Delivery planning for pregnancies with gastroschisis: findings from a prospective national registry. *Am J Obstet Gynecol* 2015 Oct;213(4):557.e1-8.
5. Shariff F, Peters PA, Arbour L, Greenwood M, Skargard ED, Brindle M. Maternal and community predictors of gastroschisis and congenital diaphragmatic hernia in Canada. *Pediatr Surg Int* 2015 Nov;31(11):1055-60.
6. Safavi A, Skargard ED, Rhee P, Zangbar B, Kulvatunyou N, Tang A, O'Keefe, Friese RS, Joseph B. Trauma center variation in the management of pediatric patients with blunt abdominal solid organ injury: a national trauma data bank analysis. *J Pediatr Surg* 2016 Mar;51(3):499-502.
7. Butler A, Puligandla PS, Skargard ED. The Canadian Pediatric Surgery Network (CAPSNet): Lessons Learned from a National Registry Devoted to the Study of Congenital Diaphragmatic Hernia and Gastroschisis. *Eur J Pediatr Surg* 2015 Dec;25(6):474-80.

PUBLICATION RECORDS con't**BOOK CHAPTERS**

**ERIK
SKARSGARD**

1. Skargard ED. *Cystic Lung Lesions*. In: Stevenson DK, Sunshine P, Cohen RS, van Meurs K (eds): *Essential Neonatology: A Practical Guide to Emergent Problems of the Newborn and Atlas of Management Approaches and Procedures*. McGraw-Hill, 2015
2. Skargard ED. *Gastrointestinal Surgery in Children*. In: Rusko J, Corson J, Williamson R, Sandler A (eds): *Surgery: Core Principles and International Practices*, Mosby, NY, NY, 2015
3. Skargard ED. *Splenic Disorders in Children*. *Not a Textbook (NAT)*. The American Pediatric Surgical Association

CONFERENCE PROCEEDINGS

**SONIA
BUTTERWORTH**

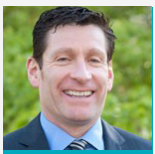
1. Butterworth SA, Chan G. *Audit of Emergent and Urgent Surgery for Acutely Ill Pediatric Patients: is Access Timely?* Canadian Association of Pediatric Surgeons. September 2015
2. Kim, S, Butterworth, SA. "Stat" Surgery in Children: Expected vs. actual time to surgical intervention. Chung Day, November 2015

DIVISION OF PEDIATRIC UROLOGY

2014-2016



FACULTY MEMBERS:



Dr. Andrew E MacNeily
Division
Head, Professor, UBC



Dr. Kourosh Afshar
Associate
Professor UBC



Dr. John ST Masterson
Clinical Professor

OTHER STAFF MEMBERS:

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

HIGHLIGHTS AND ACHIEVEMENTS:

AS THE ONLY PEDIATRIC UROLOGY SERVICE IN BRITISH COLUMBIA, THE DIVISION OF PEDIATRIC UROLOGY AT BC CHILDREN'S PERFORMED MORE THAN 1600 SURGICAL PROCEDURES AND CARED FOR OVER 10,000 CHILDREN IN OUR AMBULATORY CLINIC DURING THE PERIOD OF THIS REPORT. THE 2 YEARS REALIZED MANY SUCCESSES FOR OUR TEAM WHICH ARE DETAILED IN THIS REPORT.

DR. AFSHAR

Dr. Afshar continues in his position of Associate Chief of Surgery - Quality and Safety, an important administrative position in our organization. He also continues in his role as BCCH Surgeon Champion for National Surgical Quality Improvement Program (NSQIP). In Dec 2015 Dr Afshar was appointed President of the NorthWest Urological Society and he will host the annual scientific meeting between University of Washington, UBC and University of Oregon here in January 2017.

DR. MACNEILY

Dr. MacNeily recently completed his tenure as interim Head of the UBC Department of Urological Sciences and resumed his position as Vice Chair Education and Clinical Affairs for the Department. He is also Chair of the Royal College Specialty committee in Urology, as well as a member of the executive of the Canadian Urological Association. Our small Division was put on the map when Dr MacNeily was appointed as the 2015 scientific program chair of the American Urological Association's Society for Pediatric Urology in New Orleans.

EDUCATIONAL ROLE

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. For the first time, we mentored an international fellow in Pediatric Urology and an international Urology resident from the University of West Indies.

A total of 20 residents from our UBC training program rotated at BCCH participating in ambulatory clinics, surgery, urodynamic assessments, ward and emergency consultations as well as a variety of scheduled academic sessions. In 2014-16 we hosted more than 70 elective medical students from UBC and across Canada. In addition, Dr. Afshar is also supervising a PhD student from Department of Experimental Medicine.

ACADEMIC PRODUCTIVITY

Academic productivity was excellent with a total of **10** abstract presentations, **17** invited lectures, and **14** peer-reviewed publications. Administratively, the 3 Divisional members collectively served on no fewer than **36** local, national or international committees.

01 TEACHING ACTIVITIES

FELLOWS SUPERVISED

- *Phyllis Kisa*

RESIDENTS SUPERVISED

- | | |
|---------------------------|------------------------------|
| • <i>Paul Gustafson</i> | • <i>Jennifer Locke</i> |
| • <i>Mike Metcalfe</i> | • <i>Ben Bay</i> |
| • <i>Reza Hamidizadeh</i> | • <i>Thomas de los Reyes</i> |
| • <i>Henry Tran</i> | • <i>Davon Mitchell</i> |
| • <i>Ryan Flannigan</i> | • <i>Rob Dale</i> |
| • <i>David Harriman</i> | • <i>Ted Hoyda</i> |
| • <i>Stephen Taylor</i> | • <i>Hilary Brotherhood</i> |
| • <i>David Yousseff</i> | • <i>Connor Landeen</i> |
| | • <i>Miles Mannis</i> |

RESEARCH STUDENTS SUPERVISED

- | | |
|------------------------------|-------------------------------|
| Dr. K.Afshar: | • <i>4- Rafael Solimano</i> |
| Undergraduate: | • <i>5- Cyrus Chehroudi</i> |
| • <i>1- Karima Jiwa</i> | Post Graduate (PhD) |
| • <i>2- Samrad Ghavimi</i> | • <i>1- Mir Sohail Fazeli</i> |
| • <i>3- Farnaz Djavadian</i> | |

FORMAL TEACHING

ANDREW MACNEILY

- *INDE 410: Clinical Skills: Male Gu System Examination (May 2015)*
- *Phase IV: Surgery Oral Examinations (August 2015)*
- *Chief Resident Mock Oral Preparatory Examinations (May 2015)*
- *SPPH 517: Introduction to Research in Medical Education (October 2015)*
- *Urology Resident Mock Oral Examinations (November 2015)*
- *Urology Resident Academic Half Day – Disorders of Sexual Differentiation (February 2016)*
- *Chief Resident Mock Oral Preparatory Examinations (March 2016)*

KOUROSH AFSHAR

- *Academic half day: Department of Urologic Sciences: Pediatric oncology (October 2015)*
- *Department of Urologic Sciences Journal Club (October 2015)*
- *Academic half day: Department of Urologic Sciences: Urinary tract infections in children (November 2015)*
- *Senior residents mock Exam (April 2015)*
- *Voiding and Dysfunction (June 2015)*
- *UBC Departments of Surgery, Urology and Orthopedics (April 2015)*
- *Int. Research (August 2015)*
- *SPPH 517: Introduction to Research in Medical Education (September – December 2015)*

STUDENTS ROTATING THROUGH PEDIATRIC UROLOGY

• 7-Apr-14	•	•
• 14-Apr-14	•	• Kent, C (UBC-3)
• 21-Apr-14	•	• Kent, C (UBC-3)
• 28-Apr-14	•	•
• 5-May-14	•	•
• 12-May-14	•	•
• 19-May-14	•	•
• 26-May-14	•	•
• 2-Jun-14	•	•
• 9-Jun-14	•	• Chou, H (UBC-3)
• 16-Jun-14	•	• Chou, H (UBC-3)
• 23-Jun-14	•	• Martin, G (UBC-3)
• 30-Jun-14	•	• Martin, G (UBC-3)
• 7-Jul-14	•	• Li-Yun-Fong, R (UBC-3)
• 14-Jul-14	•	• Li-Yun-Fong, R (UBC-3)
• 21-Jul-14	•	•
• 28-Jul-14	• Lam, A (UBC-3) BALFOUR	•
• 4-Aug-14	• Kwok, T (UBC-3)	• Lin, M (UBC-3)
• 11-Aug-14	• Kwok, T (UBC-3)	• Lin, M (UBC-3)
• 18-Aug-14	• AEM away	• Foran, Alexandra (UBC-3)
• 25-Aug-14	• AEM away	• Foran, Alexandra (UBC-3)
• 1-Sep-14	•	• Foran, Alexandra (UBC-3)
• 8-Sep-14	• deValence, Moira (Tor) / Ferrier, Taylor (Ott)	• Malhi, Navraj (UBC-3)
• 15-Sep-14	• Blankstein, Udi (Tor)	• Malhi, Navraj (UBC-3)
• 22-Sep-14	• Forbes, C (UBC-4)	• Malhi, Navraj (UBC-3)
• 29-Sep-14	•	• Shen, Yiting (Mary) (UBC-3)
• 6-Oct-14	• Mannas, Miles (Calgary)	• Shen, Yiting (Mary) (UBC-3)
• 13-Oct-14	•	• Shen, Yiting (Mary) (UBC-3)
• 20-Oct-14	• Perkes, N (UBC-4)	• Fernando, Dilan (UWO)
• 27-Oct-14	• Hoare, Dylan (Queen's)	•
• 3-Nov-14	• Callan, Laura (UWO)	•
• 10-Nov-14	•	•
• 17-Nov-14	•	•
• 24-Nov-14	•	•
• 1-Dec-14	•	• Enns, Alexandra (Ali) (UBC-3)
• 8-Dec-14	• McLarty, Ryan (UWO)	• Enns, Alexandra (Ali) (UBC-3)
• 15-Dec-14	• McKercher, Adrienne (UBC-4)	• Enns, Alexandra (Ali) (UBC-3)
• 22-Dec-14	•	•
• 29-Dec-14	•	•
• 5-Jan-15	• Fan, Eilleen (Dublin College)	• Powers, Justin (UBC-3)
• 12-Jan-15	• Fan, Eilleen (Dublin College)	• Powers, Justin (UBC-3)
• 19-Jan-15	•	• Powers, Justin (UBC-3)

STUDENTS ROTATING THROUGH PEDIATRIC UROLOGY

• 19-Jan-15	•	• Powers, Justin (UBC-3)
• 26-Jan-15	•	• Hosseini, Sandra (UBC-3)
• 2-Feb-15	•	• Hosseini, Sandra (UBC-3)
• 9-Feb-15	•	• Hosseini, Sandra (UBC-3)
• 16-Feb-15	• Di Stefano, Adriana (McMaster)	•
• 23-Feb-15	• Benidir, Tarik (Queen's)	•
• 2-Mar-15	• Lin, Molly (UBC-4)	•
• 9-Mar-15	• Jain, Apoorv (Queen's)	• O'Connor, Marie (UBC-3)
• 16-Mar-15	• Chen Isabel (UBC-4)	• O'Connor, Marie (UBC-3)
• 23-Mar-15	• Wai, Alan (UBC-4)	• O'Connor, Marie (UBC-3)
• 30-Mar-15	• Han, Rachel (Calgary)	•
• 30-Mar-15	• Han, Rachel (Calgary)	•
• 6-Apr-15	•	•
• 13-Apr-15	•	•
• 20-Apr-15	•	• Yip, Raymond (UBC-3)
• 27-Apr-15	•	• Yip, Raymond (UBC-3)
• 4-May-15	•	• Yip, Raymond (UBC-3)
• 11-May-15	•	• Zhu, Sean (UBC-3)
• 18-May-15	•	• Zhu, Sean (UBC-3)
• 25-May-15	•	• Zhu, Sean (UBC-3)
• 1-Jun-15	•	• Matthew Ho (UBC-3)
• 8-Jun-15	•	• Matthew Ho (UBC-3)
• 15-Jun-15	•	• Matthew Ho (UBC-3)
• 22-Jun-15	•	•
• 29-Jun-15	•	•
• 6-Jul-15	• Kerr, Tristan (UBC-4)	•
• 13-Jul-15	• Wong, Chrison (UBC-4)	• Quong, Whitney (UBC-4)
• 20-Jul-15	• Fung, A (UBC-4)	•
• 27-Jul-15	• Kim, Eunice (UBC-4)/Wang, Christine (UBC-4)	•
• 3-Aug-15	• Mitsuki, Lauren (McMaster)	•
• 10-Aug-15	• Elliott-Gordo, Stefanie (UBC-4)/Rosenthal, M (Manitoba)	•
• 17-Aug-15	•	• ZALLEN, Erica (UBC-3)
• 24-Aug-15	•	• ZALLEN, Erica (UBC-3)
• 31-Aug-15	• Yang, Kai (Toronto)	• ZALLEN, Erica (UBC-3)
• 7-Sep-15	• Moldovan, Nataliya (UWO)	• Leung, Kristel (UBC-4)
• 14-Sep-15	• Paterson, Nicholas (Ottawa)/Friderichs, G (UBC-4)	•
• 21-Sep-15	• Fok, Kai-Ho (Toronto)/Bishay, Mena (Alberta)	•
• 28-Sep-15	• Brisson-Tessier, Camille (McGill)	•
• 5-Oct-15	•	

STUDENTS ROTATING THROUGH PEDIATRIC UROLOGY

• 5-Oct-15	•	•
• 12-Oct-15	• <i>Blelloch, Sarah (Manitoba)</i>	•
• 19-Oct-15	•	•
• 26-Oct-15	•	•
• 2-Nov-15	•	• <i>Ho, Joel (UBC-4)</i>
• 9-Nov-15	• <i>Goucher, George (Memorial)</i>	• <i>Ho, Joel (UBC-4)</i>
• 16-Nov-15	• <i>Hao, Elaine (UBC-4)</i>	•
• 23-Nov-15	• <i>Donaldson, Kieran (UBC-4)</i>	•
• 30-Nov-15	•	•
• 7-Dec-15	• <i>Li, Alexander (UBC-4)/Topp, Rebecca (Dalhousie)</i>	•
• 14-Dec-15	• <i>Shepherd, David (UBC-4)/White, Justin (Dalhousie)</i>	•
• 21-Dec-15	•	•
• 28-Dec-15	•	•
• 4-Jan-16	•	• <i>NEUFELD, Jessica (UBC-3)</i>
• 11-Jan-16	•	• <i>NEUFELD, Jessica (UBC-3)</i>
• 18-Jan-16	•	• <i>NEUFELD, Jessica (UBC-3)</i>
• 25-Jan-16	•	•
• 1-Feb-16	•	•
• 8-Feb-16	•	•
• 15-Feb-16	•	•
• 22-Feb-16	•	•
• 29-Feb-16	•	•
• 7-Mar-16	• <i>Gant, Ryan (UBC-4)</i>	•
• 14-Mar-16	• <i>Powers, Justin (UBC-4)</i>	• <i>Van Tuyl, John (Calgary)</i>
• 21-Mar-16	• <i>Gao, Helen (UBC-4)</i>	•
• 28-Mar-16	•	•

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

PRESENTATIONS

ANDREW MACNEILY

- *Visiting Professor: Division of Urology University of Alberta, Edmonton Alberta Feb 13-14 2014. Presented 2 lectures: "Lower Urinary Tract Reconstruction: A lesson in Humility", "Boomers, x-ers and Gen Y: Challenges in Residency Education". Also, held oral examinations for two chief residents.*
- *Grand Rounds UBC Division of Pediatric Psychiatry: "Dysfunctional Voiding" Feb 2015*
- *Grand Rounds: UBC Department of Urologic Sciences: "Competency Based Medical Education" March 2015*
- *"Competency Based Medical Education: Thoughts from the Specialty Committee" Presented to the Canadian Academy of Urological Surgeons St John's, Newfoundland June 2014*
- *"Management of Complex Pediatric Urological complications" Invited Panelist Pediatric Urologists of Canada St John's, Newfoundland June 2014*
- *"Competency Based Medical Education: What does it mean for Canadian Residency Programs?" and "Occult tethered cord syndrome: Non-neurogenic nonsense?" Invited speaker to the Prairie Urological Association, Lake Louise Alberta, March 2015*
- *NorthWest Urological Society: "The Canadian Healthcare System: a Primer" Portland, Oregon Dec 2014*
- *BC Urological Society – "Tribute to Dr Larry Goldenberg" Vancouver, BC Oct 2015*
- *Visiting Professor: Division of Urology McMaster University, Hamilton Ontario Oct 29-30 2015 Presented 2 Lectures: 'Pediatric Urinary Tract Reconstruction', 'Competency Based Medical Education: What does it mean for Canadian Urology Residency Training?'*
- *Presided over resident research day abstract presentations and judged papers.*
- *Western Urologic Forum: "Competency Based Medical Education-What is it?" San Jose Del Cabos, Mexico March 2016*

KOUROSH AFSHAR

- *Academic Half Day Division of Pediatric Emergency: "Urologic Emergencies" April 2014*
- *Data Driven Quality improvement in Surgery: BCCH Surgical Suite grand Rounds April 2014*
- *American Association of Pediatric Nephrology: Invited presentation Surgical Treatment of Pediatric Urinary stones May 2014*
- *BC Urological Society Annual meeting: Invited Presenter Vancouver, British Columbia, Oct. 2015*
- *BC SQAN (Safety and Quality Network): Invited Presenter Vancouver British Columbia. Oct. 2015*
- *Department of Urologic Sciences Grand Rounds: Safe surgery: "Prepare and prevent don't repair and repent" Jan 2015*

JOHN MASTERSON

- *Department of Urological Sciences Academic half day: Ureterocele April 15, 2016*

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

CONFERENCE LEADERSHIP ROLES:

**ANDREW
MACNEILY**

- *Judge: Abstract Prizes – Society for Pediatric Urology May 2014 Orlando, Florida*
- *Moderator: Podium session – Department of Urological Sciences Annual Research day June, 2014*
- *Moderator: Podium Session – Society for Pediatric Urology Fall Congress Oct 2014 Miami, Florida*
- *Moderator: Pediatric Urology Session – Northwest Urological Society Dec 2014 Portland, Oregon*
- *Judge: Abstract Prizes. Northwest Urological Society Dec 2014 Portland, Oregon*
- *Chair: Scientific Program – Society for Pediatric Urology of the American Urological Association May 2015 New Orleans, Louisiana*
- *Moderator: Education & Training Poster Session – Canadian Urological Association annual meeting June 2015 Ottawa, Ontario*

**KOUROSH
AFSHAR**

- *Moderator Pediatric Session: AUA Western Section Hawaii Oct 2014*
- *Scientific Co Chair, Sullivan Research Day, Department of Urological Sciences June 2014*
- *Presenter Moderator: Northwest Urological Society Portland, Oregon Dec. 2014*
- *Moderator, Northwest urological Society Seattle, Washington 2015*
- *Moderator, Presenter, Reviewer American Urological Association Annual meeting New Orleans, Louisiana 2015*
- *Abstract reviewer American Urological Association Annual meeting San Diego, California 2016*
- *Scientific Committee member: Canadian urological Association 2015-16*
- *President Northwest Urologic Association Dec-2015- Present*

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CFRI	SURGICAL SAFETY INITIATIVE	C	25,000	2015-2016	K. AFSHAR	E. SKARSGARD
BC CHILDRENS HOSPITAL RARE DISEASE FOUNDATION	ESTABLISHING A TRANSITION CARE NETWORK FOR GRADUATING SPINA BIFIDA PATIENTS	C	3,500	2016-2017	COLLABORATION	A MACNEILY
BC SQAN	IMPLEMENTATION OF PREOPERATIVE DECOLONIZATION WIPES	C	5,000	2015	K. AFSHAR	E. SKARSGARD

03 COMMITTEE PARTICIPATION

**KOUROSH
AFSHAR**

- 2013-present. Member, Northwest urological Association Executive Committee
- Surgeon Champion NSQIP, BC Children's Hospital 2012- Present
- UBC Department of Urologic Sciences Residency Program Committee 2011-Present
- BCCH Surgical Suite Quality of Care Committee (Co-chair) 2012-present
- BCCH Surgical Advisory Committee 2012- Present
- Child Health Quality of Care Committee 2012-Present
- Surgical Leadership Committee BCCH 2012-Present

**ANDREW
MACNEILY**

- 2000-2015. Member, UBC Dept of Urological Sciences Post-graduate Training Committee
- 2005-2015. Divisional Representative, BCCH Surgical Services Advisory Committee
- 2008-2015. Member, Dept Urological Sciences Promotion and Tenure committee
- 2009-2015. Member, Dept of Urological Sciences Executive Council
- 2011-2015. Vice-Chair, Education and Clinical Affairs Dept of Urologic Sciences
- 2014-15. Interim Head Dept of Urologic Sciences
- 2011-2014. Executive at Large: BC Representative, Canadian Urological Association
- 2011-2014. Executive Member, Canadian Urological Association Guidelines committee
- 2011-2016. Section Editor (Training & Education), Canadian Urol Association Journal
- 2014. Past President, North West Urologic Society
- 2014. Member – Dept of Urological Sciences Headship search committee
- 2012-2016. Chair Royal College Specialty Committee on Urology
- 2013-2015. Member, UBC Faculty of Medicine Promotions and Tenure Committee
- 2014. External reviewer: Promotions and Tenure, Queens University
- 2014. External reviewer: Promotions and Tenure, University of Texas Southwestern
- 2014. Peer reviewer: AUA Guidelines on Cryptorchidism
- 2014. Grant panel member: CUA Scholarship Foundation
- 2014-2016 Executive Member: American Academy of Pediatrics Section on Urology
- 2015-2016 Executive Member: Society for Pediatric Urology of the AUA
- Prize Essay Manuscript Reviewer: Society for Pediatric Urology American Urological Association Oct 2014
- 2015-16 Vice-Chair UBC Dept of Urologic Sciences
- 2016 Chair-Search committee for Pediatric Surgical Recruit BCCH 2016
- 2014-2016 Member – Canadian Urological Association Nominating Committee
- External Reviewer – 5 yr leadership review Section of Urology, University of Calgary, Calgary Alberta Dec 3-4 2015

03

COMMITTEE PARTICIPATION con't

**JOHN
MASTERSON**

- 1985-present Member, Gender Assessment Committee
- 2002-present Member, Surgical Advisory Committee, Department of Surgery
- 2002-present Chair, STI (Strategic Teaching Initiatives) Committee, Department
- 2006-present Clinical Faculty Appointment and Promotion Committee
- 2007-present Department of Urologic Sciences Representative/Champion,
- Mentoring Program Working Group of Surgery
- 2009-present Alternate Member, UBC Undergraduate Curriculum Committee
- 2009-present Physician Member, Circle of Care \$ 10,000 Foundation donor
- 2014-present Member, Urology Expert Panel – BCCH/PHSA Committee
- 2014-present Trauma Symposium at Vancouver General Hospital

04

PUBLICATION RECORDS

REFEREED PUBLICATIONS

1. Hoag NA, Flannigan R, MacNeily AE: Organ Procurement surgery as a means of increasing open surgical experience during urology residency training. *Can Urol Assoc J* 2014;8(1-2):36-38
2. Hoag NA, MacNeily AE, Abdi H, Figueroa V, Afshar K. VURD Syndrome – Does it Really Preserve Long-Term Renal Function? *J Urol.* 2014 May;191:1523-6
3. MacNeily AE: The problem with Technical Competence: Defining it, measuring it and achieving it!. *Can Urol Assoc J.* 2014 May-Jun; 8(5-6):173-4
4. Gustafson P, MacNeily AE: Pediatric procedures in urology residency training: An analysis of the experience of Canadian urology residents *CUA Journal* 2014; Vol 8 (9-10) 317-320
5. Kiddoo D, Sawatzky B, Bascu CD, Dharamsi N, Afshar K, Moore KN. Randomized Crossover Trial of Single Use Hydrophilic Coated vs Multiple Use Polyvinylchloride Catheters for Intermittent Catheterization to Determine Incidence of Urinary Infection. *J Urol.* 2015 Jan 10. pii: S0022-5347(15)00012-9. doi: 10.1016/j.juro.2014.12.096. [Epub ahead of print] PubMed PMID: 25584995
6. Afshar K. Randomized intervention for children with Vesicoureteral Reflux (RIVUR) Study: a new look at an old question? Commentary on antimicrobial prophylaxis for children with vesicoureteral reflux. *Urology.* 2014 Nov;84(5):991-2. doi: 10.1016/j.urol.2014.07.010. Epub 2014 Oct 24. PubMed PMID: 25443892
7. Fazeli MS, Lin Y, Nikoo N, Jagdumantri S, Collet JP, Afshar K. Biofeedback for Non-neuropathic daytime voiding disorders in children: a systematic review and meta-analysis of randomized controlled trials. *J Urol.* 2015 Jan;193(1):274-9. doi: 10.1016/j.juro.2014.07.097. Epub 2014 Jul 27. Review. PubMed PMID: 25072179
8. Skarsgard ED, Bedford J, Chan T, Whyte S, Afshar K. ACS national surgical quality improvement program: targeting quality improvement in Canadian pediatric surgery. *J Pediatr Surg.* 2014 May;49(5):682-7. doi: 10.1016/j.jpedsurg.2014.02.047. Epub 2014 Feb 22. PubMed PMID: 24851748
9. Kajbafzadeh AM, Sabetkish S, Tourchi A, Amirzadeh N, Afshar K, Abolghasemi H, Elmi A, Talab SS, Eshghi P, Mohseni MJ. The application of tissue-engineered preputial matrix and fibrin sealant for urethral reconstruction in rabbit model. *Int Urol Nephrol.* 2014 Aug;46(8):1573-80. doi: 10.1007/s11255-014-0684-3. Epub 2014 Mar 12. PubMed PMID: 24619583

04 PUBLICATION RECORDS con't

REFEREED PUBLICATIONS

10. Afshar K, Jafari S, Marks AJ, Eftekhari A, MacNeily AE: Nonsteroidal anti-inflammatory drugs (NSAIDs) and non-opioids for acute renal colic. *Cochrane Database of Systematic Reviews* 2015, Issue 6. Art. No: CD006027. DOI:10.1002/14651858.CD006027.pub2 Review of studies for inclusion, assessment of quality, co-wrote manuscript.
11. Steinbok P, MacNeily AE, Hengel R, Afshar K, Landgraf JM, Hader W, Pugh J : Filum Section for Urinary Incontinence in Children with Occult Tethered Cord Syndrome : A Randomized Controlled Pilot Study. *J Urol* 2016 April;195:1183-1188. Co-PI and Co-First author. Study design, patient recruitment, presentation, co-wrote manuscript.
12. Soheil Fazeli M, Collet JP, MacNeily AE, Afshar K : Cardiac Autnomic Nervous System Activitiy in Children with Bowel and Bladder Dysfunction *J Urol* 2016 April;195:1245-49. patient recruitment, co-wrote manuscript.
13. Beiko D, MacNeily AE, Siemens DR : Is 10,000 hours enough for urology residency? *Can Urol Assoc J* 2016;10(1-2):9-10. co-wrote invited editorial.
14. Metcalfe MJ, Afshar K, So AI, Jones EC, Gilks BC, Black PC. A standardized protocol for identifying and counting lymph nodes harvested by pelvic lymph node dissection at the time of radical cystectomy. *Can Urol Assoc J*. 2015 Sep-Oct;9(9-10):337-42. doi: 10.5489/cuaj.2796. PubMed PMID: 26644808; PubMed Central PMCID: PMC4662397.
15. Kiddoo D, Sawatzky B, Bascu CD, Dharamsi N, Afshar K, Moore KN. Randomized Crossover Trial of Single Use Hydrophilic Coated vs Multiple Use Polyvinylchloride Catheters for Intermittent Catheterization to Determine Incidence of Urinary Infection. *J Urol*. 2015 Jul;194(1):174-9. doi: 10.1016/j.juro.2014.12.096. Epub 2015 Jan 10. PubMed PMID: 25584995.

CONFERENCE PROCEEDINGS

1. Bidnur S, MacNeily AE, Afshar K: Reservoir Lithiasis following Augmentation Cystoplasty and Umbilical Continent Urinary Diversion. *Canadian Urological Association. St John's NFLD* June 2014
2. Harriman D, Hoag N, MacNeily AE Gourlay WA: The impact of Clinical Fellows on Urology resident Training: Perceptions and Reality *Canadian Urological Association. St John's NFLD* June 2014
3. Fazeli M, MacNeily A, Afshar K: Role of Autonomic Nervous System in Bowel and Bladder Dysfunction. *AUA Western Section Annual Meeting , Hawaii* Oct 2014
4. Bedford J., Johnson, L, Skarsgard E., Afshar K: Post-operative Urinary Tract Infection (UTI) in children: The Impact of American College of Surgeons' National Surgical Improvement Program (NSQIP) in Delivering Better Surgical Care. . *AUA Western Section Annual Meeting, Hawaii* Oct 2014
5. Jiwa K., Skarsgard E., Bedford J., Afshar K: Evaluating Renal Transplant Outcomes to Validate Quality Improvement Initiatives. *American College of Surgeon NSQIP meeting, New York, NY, July* 2014
6. Bedford J., Johnson, L, Skarsgard E., Afshar K: Post-operative Urinary Tract Infection (UTI) in children: The Impact of American College of Surgeons' National Surgical Improvement Program (NSQIP) in Delivering Better Surgical Care. *American College of Surgeon NSQIP meeting, New York, NY, July* 2014
7. MacNeily AE, Steinbok P, Hengel R, Afshar K, Landgraf JM, Sargent M, Hader W, Pugh J : Treatment of Persistent Urinary Incontinence in Children with Occult Tethered Cord Syndrome by section of the Filum Terminale: a Randomized Controlled Pilot Study. *Society For Pediatric Urology of the American Urological Association. New Orleans La* May 2015
8. Afshar K, Soheil Fazeli M, MacNeily AE, Collet JP: Autnomic Nervous System (ANS) Activitiy in Children with Bowel and Bladder Dysfunction (BBD) *Society For Pediatric Urology of the American Urological Association. New Orleans La* May 2015

04 PUBLICATION RECORDS con't

CONFERENCE PROCEEDINGS

9. Rourke K, MacNeily AE: *Mapping a competency-based curriculum: Agreement (and discrepancies) in the Canadian national opinion* .Canadian Urological Association. Ottawa Ontario Canada June 2015
10. Borgmann H, Salem J, Baunacke M, MacNeily AE, Parnham A, Huber J: *Professional use of internet, social media and mobile media by urology residents in North America and Europe*. European Association of Urology Munich Germany March 2016



DEPARTMENT OF PEDIATRIC OPHTHALMOLOGY

2014-2016



FACULTY MEMBERS:



Dr. Christopher Lyons, Department Head, Professor UBC



Dr. Jane Gardiner, Clinical Professor UBC



Dr. Maryam Aroichane, Clinical Assistant Professor UBC

FACULTY, OFF-SITE:

- **Dr. David Albiani**
- **Dr. Roy Cline**
- **Dr. T. Alan Demco**
- **Dr. Peter Dolman**
- **Dr. Ross Kennedy**
- **Dr. Patrick Ma**
- **Dr. Andrew Merkur**
- **Dr. Katherine Paton**
- **Dr. Megan Rees**
- **Dr. David Rossman**
- **Dr. Vivian Yin**

RESEARCH DEPARTMENT:

- **Dr. Debbie Giaschi**
- **Christine Chapman**
- **Sharneet Sandhu**

ORTHOPTIC STAFF:

- **Christy Giligson**
- **Andrea Quan**
- **Vaishali Mehta**
- **Debbie Zyllich**

AFFILIATIONS: VISUAL IMPAIRMENT PROGRAM

- **Dr. Carey Matsuba**

ELECTROPHYSIOLOGY STAFF:

- **Linn Moore**

ADMINISTRATIVE STAFF:

- **Joan Baldos**
- **Stephanie Borretta**
- **Chloe Gregg**
- **Dolores Latham**
- **Natalie Wong**

HIGHLIGHTS AND ACHIEVEMENTS:

NEW SPACE

In April 2014, we had just moved to our new Department in F3. The new space was extremely welcome, allowing much greater functionality in the busy outpatient clinic. We remain the second busiest outpatient department in the hospital with **12821 patient visits**. These patients appreciate the easy access from Heather Street, clear signage and available parking that came with the move. We have also been busy surgically, and faculty members have provided care in the whole breadth of our subject from emergency care to refractive problems to cataract, retinoblastoma and retina surgery. In the operating room, a core group of eye-dedicated nurses under the leadership of Carmina Gogal have taken on the highly specialized skills necessary to support complex and equipment-intensive surgery such as vitrectomy at Children's Hospital. The 'open access' system has been helpful in allowing access for semi-urgent cases such as retinal surgery and retinoblastoma.

UNDERGRADUATE TEACHING

As this report shows, we continue to be committed to Undergraduate medical student teaching, with a total of 683 hours in pediatric ophthalmology this year. We also enjoy teaching the UBC Ophthalmology Residents who come to do two rotations in pediatric ophthalmology totalling 16 weeks in their third and fourth years of training. Every year a Postgraduate Fellow joins us from the developing world, in 2014-15 Dr. F Godoy from Brazil and subsequently Dr. D Ofori-Adjei from Ghana. In addition, one of our Fellows Dr. E Alqahtani returned to an academic post at King Saud University in Saudi Arabia and another, M Kwok to an academic post in Hong Kong.

CME

During this period, we supported Continuing Medical Education, through presentations at UBC Grand Rounds (Drs. Cline and Lyons) as well as planning the 9th Biennial Vancouver Pediatric Ophthalmology and Strabismus meeting (September 2015). Visiting lecturers from UCSF, Madison Wisconsin and Mayo Clinic accepted our invitation to speak to our audience of 110 to 120 people.

LARGE WAITLIST

Thanks to the new facilities and equipment provided by Children's Hospital and UBC Ophthalmology, and in particular, the skilled new technician, Linn Moore who joined us at the start of the year, we were pleased to address the large waitlist of patients needing retinal electrophysiology (ERG). We are now well positioned to diagnose retinal problems from infancy to adulthood in order to provide patients and families with information regarding their condition, its potential progression and the likelihood of siblings or future babies in the family being affected. Additionally, we are now able to refer early for genetic testing for provision of appropriate support at home school and work. To do this, we liaise closely with Carey Matsuba, head of the Visually Impaired Program, who works in our department 3 days a week.

HIGHLIGHTS AND ACHIEVEMENTS:

ORTHOPTIC CLINIC

The orthoptic clinic is very busy and consideration will need to be given to appointment of an extra orthoptist. Two orthoptists are currently in training, Denosha Jeyatheswaran and Rebecca Rewi who will take their qualifying exams in June 2015.

BASIC SCIENCE RESEARCH

Basic Science research, headed by Dr. D Giaschi, concentrates on issues relating to amblyopia, dyslexia, functional MRI and planning for the new 3T MRI. Dr. Giaschi and her team had a successful year with \$122,470 raised in grant money.

CLINICAL RESEARCH

In clinical research, members of the Department presented 22 papers at international meetings and published 10 papers in the peer-reviewed literature.

CURRENT PLANS

Current plans include purchase of a Spectralis OCT machine for clinical assessment of the optic nerve, retinal nerve fibre layer, macula and retinal periphery. This will be particularly helpful for patients with problems in the areas of pediatric neuro-ophthalmology, retinal and ocular oncology. In addition, we would like to purchase portable OCT equipment for the operating room and we hope to purchase an ocular photography system for use in the clinic.

COLLABORATIONS

Furthermore we set up new collaborations to study typical and atypical visual development with scientists at University of Indiana, University of Montreal, and University of Waterloo.

01 TEACHING ACTIVITIES

MEDICAL STUDENT TEACHING

Dr. Jane Gardiner is Director of the Undergraduate Training Program in the UBC Department of Ophthalmology and Visual Sciences. Second year UBC medical students receive a single lecture in ophthalmology clinical skills and then attend two ophthalmology 'hands on' small group sessions to learn the practical skills of ophthalmology. They also receive some ophthalmology teaching in Problem-based Learning sessions, as well as didactic lectures in ophthalmology in their first and second years.

We teach 3rd year clinical clerkship UBC medical students in pediatric ophthalmology clinics. As part

of the clerkship they rotate through ophthalmology for one week in their third year of training. During that week, they spend one half to one day in pediatric ophthalmology.

Medical students from UBC and other medical schools attend the ophthalmology department as part of their electives in their 4th year, usually rotating through a number of ophthalmology services including pediatric ophthalmology during the course of their one or two-week elective. Medical students frequently become involved in research projects within the Department.

STUDENTS SUPERVISED:

MARYAM AROICHANE	<ul style="list-style-type: none"> • <i>Bi weekly, 3rd year, student preceptor</i>
ROY CLINE	<ul style="list-style-type: none"> • <i>Weekly, 3rd year, student preceptor</i>
ALAN DEMCO	<ul style="list-style-type: none"> • <i>Monthly, 3rd year, student preceptor</i>
JANE GARDINER	<ul style="list-style-type: none"> • <i>Weekly, 3rd year, student preceptor</i>
DEBBIE GIASCHI	<ul style="list-style-type: none"> • <i>Kim Meier – graduate student</i> • <i>Marita Partanen - graduate student</i> • <i>Brian Sum – summer student/Work Learn student</i> • <i>Angela Zhang – summer student</i> • <i>Barinder Chahal – summer student</i> • <i>Rojin Kaviani – Work Learn student</i>
CHRIS LYONS	<ul style="list-style-type: none"> • <i>Weekly, 3rd year medical student preceptor</i>
DAVID ROSSMAN	<ul style="list-style-type: none"> • <i>Half-day medical student teaching as part of core ophthalmology curriculum for UBC year III medical students (2009-present)</i> • <i>Ophthalmology Resident Wet Lab Teaching. Basic Oculoplastic Techniques. UBC Department of Ophthalmology, Vancouver, Canada (2008 - present)</i>

01 TEACHING ACTIVITIES con't

RESIDENT TEACHING

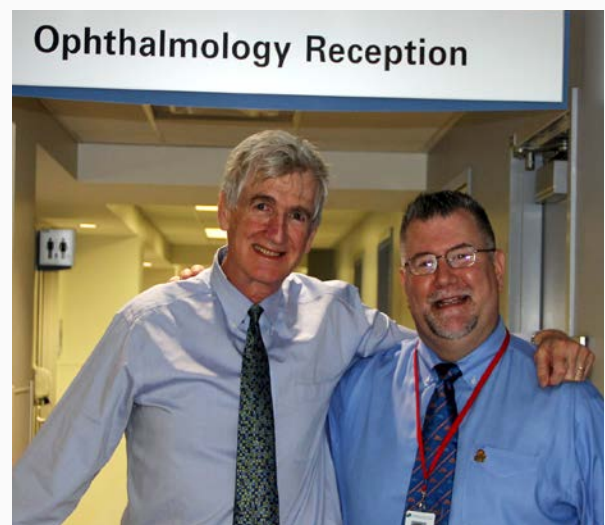
Residents rotate through Pediatric Ophthalmology for an eight-week period in their third year of training, and a further eight weeks in their fourth year. The first rotation is slanted towards clinic-based learning whereas the second has a heavier surgical emphasis.

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

There is a weekly Pediatric Ophthalmology teaching session where Fellows, orthoptists, pediatric ophthalmology residents and staff alternate to give the teaching session. At the end of each rotation, the residents are asked to do an 'exit exam' which can be a stimulus to ensure they have done the considerable amount of reading required for this sub-specialty.

RESIDENTS SUPERVISED

- | | |
|-------------------------|-----------------------------|
| • <i>EADIE, Brennan</i> | • <i>NATHOO, Nawaaz</i> |
| • <i>JIANG, Kailun</i> | • <i>NOUREDDIN, Gelareh</i> |
| • <i>JOE, Aaron</i> | • <i>O'DONNELL, Heather</i> |
| • <i>HALL, Riley</i> | • <i>SILVER, Byron</i> |
| • <i>LIU, Tom</i> | • <i>TEJA, Salina</i> |
| • <i>MAMMO, Zaid</i> | • <i>WISE, Stephanie</i> |



01 TEACHING ACTIVITIES con't

POST-GRADUATE FELLOWSHIP TRAINING

The Department of Ophthalmology offers two one-year Fellowship position. One is aimed at Fellows from emerging nations. Fellows apply directly via the Ophthalmology Department Secretary and are selected through a competitive process; the applicant files are reviewed by the 3 GFT ophthalmologists and the positions are offered approximately 6 months before the start of the Fellowship.

The Fellowship experience is inclined towards clinic-based decision-making since each patient seen by the Fellow is subsequently reviewed by Staff. Over the course of their year in Vancouver, each Fellow could expect to assess 2500 children and adults with pediatric ophthalmology problems or strabismus. Similarly to Resident training, when Staff review the patient with the Fellow, they may encourage them to suggest a diagnosis and management plan which is then discussed. At busy clinic times, the Fellow may

opt to keep the details of the patient and either present them at a Wednesday morning Teaching Rounds or at Friday morning Fellows Rounds. These Rounds are also an excellent opportunity to discuss research projects and recent papers.

Fellows participate in outreach clinics in Bella Coola, an introduction to work in remote Canada (and Canadian wilderness)

Fellows operate at Children's Hospital and adult surgery at UBCH. While each Fellow is expected to become comfortable with horizontal vertical and oblique strabismus surgery, their surgical hands-on experience is largely strabismus-based. Fellows and Residents assist with intra-ocular surgery but numbers are limited, making their surgical opportunities for intra-ocular surgery quite variable. This is explained on the website and Fellowship information sent to enquiring candidates.

FELLOWS SUPERVISED

- *Elham Al Qahtani*
- *Madeline Kwok*
- *Dania El Nuaimi*
- *Andreane Lavaliee*
- *Danni Lell*
- *Imelda-Odille Dziffa-Bella Offori-Adjei*
- *Sheetal Shirke*
- *Lucas Vienna*
- *Marcus Watson - postdoc*

RESEARCH STUDENTS SUPERVISED

- *Kim Meier – graduate student*
- *Marita Partanen - graduate student*
- *Joana Pinto – graduate student*
- *Brian Sum – Work Learn student*
- *Angela Zhang – summer student*
- *Kathy Kwan – Science co-op student*
- *Laveniya Kugathasan – summer student*
- *Joey Chan – Science co-op student*

02 SCHOLARLY & PROFESSIONAL ACTIVITIES

RESEARCH:

Although there is significant overlap and close collaboration between the two, research within the UBC Department of Ophthalmology at BCCH is divided into:

- a) Basic lab-based research and
- b) Clinical research.

A) BASIC LAB-BASED RESEARCH

The Ophthalmology Research Lab at BC Children's Hospital conducts behavioural and MRI research in three main areas: typical visual development in school-age children; visual deficits and new treatment approaches for children with amblyopia; perceptual and cognitive deficits and treatment effectiveness for children with developmental dyslexia. We train UBC graduate students with home departments in Psychology, Neuroscience or Education, undergraduate students in Psychology, postdoctoral fellows in Ophthalmology and medical students. We collaborate with ophthalmologists, orthoptists and clinical fellows in our Department and with colleagues in Pediatrics, Education and Psychology.

Our current projects include:

- Interventions for dyslexia: effectiveness and neurological correlates – Canadian Institutes for Health Research (\$86,470/yr; 2013-2016)
- Brain mechanisms underlying human motion perception – Natural Science and Engineering Research Council (\$31,000/yr; 2012-2017)
- Using depth perception to treat visual disorders – BC Children's Hospital Foundation (\$10,000; 2015-2016)
- Binocular perceptual learning as a treatment for amblyopia or intermittent exotropia
- Assessment of contrast sensitivity in children with phenylketonuria
- Reading ability of children treated for amblyopia

Previously funded projects over the last 5 years:

- Predicting occlusion therapy outcomes for children with amblyopia – CIHR (\$73,423/yr; 2009-2012)

- The role of coarse stereopsis in typical and atypical visual development – CIHR (\$88,693; 2009)
- Brain mechanisms underlying human motion perception – NSERC (\$21,600/yr.; 2006-2012)

Representative publications:

- **Meier K, Giaschi D. (2014) The maturation of global motion perception depends on the spatial and temporal offsets of the stimulus. *Vision Research* 95:61-67**
- **Giaschi D, Lo R, Narasimhan S, Lyons C, Wilcox L. (2013) Sparring of coarse stereopsis in stereodeficient children with a history of amblyopia. *Journal of Vision* 13(10): 17**

B) CLINICAL RESEARCH

In addition to our lab-based research output, in the past 5 years we have published 44 clinical papers in peer reviewed literature. A large proportion of these were the result of collaboration with colleagues within the hospital (genetics, neurology, neuro-surgery) and outside (multi-centre studies on Wegener's in childhood, FEVR mutations).

CLINICAL RESEARCH IN BRITISH COLUMBIA CHILDREN'S HOSPITAL HAS FOCUSED ON THE FOLLOWING AREAS:

1. Description and analysis of rare disorders

- Adams Oliver Syndrome. Patients attending clinic or seen on the ward with complex abnormalities such as Adams Oliver syndrome, a rare cause of intra-uterine growth retardation and incomplete retinal vascularization leading to visual loss through retinal haemorrhage and detachment. Collaborative work with the Departments of genetics and pathology identified a pericyte (vascular support cell) abnormality leading to defective vascular growth. The causative genetic mutation was identified. We are about to publish our recommendations regarding the ocular management of infants with this disorder. Early appropriate treatment may help to prevent retinal detachment.

RESEARCH CON'T:

- Adams Oliver Syndrome. Patients attending clinic or seen on the ward with complex abnormalities such as Adams Oliver syndrome, a rare cause of intra-uterine growth retardation and incomplete retinal vascularization leading to visual loss through retinal haemorrhage and detachment. Collaborative work with the Departments of genetics and pathology identified a pericyte (vascular support cell) abnormality leading to defective vascular growth. The causative genetic mutation was identified. We are about to publish our recommendations regarding the ocular management of infants with this disorder. Early appropriate treatment may help to prevent retinal detachment.
- Osteoporosis Pseudoglioma Syndrome. Bilateral retinal detachment at birth was noted in two sisters. Subsequently they were found to have multiple bone fractures with vertebral collapse leading to severely impaired mobility. The underlying LRP5 mutation was identified. Bone densitometry of their relatives showed increased prevalence of osteoporosis in this family. Osteoporosis pseudoglioma syndrome is a rare cause of early retinal detachment and bone fractures; description of our patients and recommendations for early genetic counselling and appropriate mutation analysis may serve to prevent future occurrences.

2. Evaluation of current and new Techniques

- We reported of a 2 year-old girl who presented with a primary cystic lesion involving the sclera of her left eye, enlarging over the course of a few weeks to encroach into the cornea. The evaluation of this lesion using non-contact anterior segment OCT was novel and helped to establish lack of communication between the cyst and the inside of the eye. The lesion was treated using water as a sclerosant, with complete resolution. An enlarging cyst is a rare and concerning finding in a child. This paper will help to guide any surgeon facing this clinical problem how to evaluate and operate on this lesion.

3. Reviews of evolving knowledge

- V-pattern Strabismus is often assumed to result from a paralysis of Cranial Nerve IV. An alternative explanation is the congenital malposition of extraocular muscles such as occurs in craniofacial disorders. This has important surgical implications and it is important to determine pre-operatively with orbital MRI if muscle malposition is present. We have determined the position of the extraocular muscles in 20 patients without strabismus and compared these results to those of 10 patients with primary V-pattern.
- Cranial nerve paralysis in childhood involving cranial nerves III, IV, VI is different from the adult equivalent. Some signs which are of concern in adult patients (such as pupillary signs) are not worrying in children and vice versa. We reviewed our experience with all our patients with III palsy and, along with a literature review regarding new data from 3T scans (from other centres), discussed the important place of intra-uterine and early childhood repair in the manifestation of congenital cranial nerve palsy and the significant differences between findings in childhood and adult cranial nerve palsy.

OUTREACH CLINICS: SERVICE TO REMOTE AREAS OF BC:

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

In 2014, a total of 585 patients were seen by these physicians in remote British Columbia, saving families' expense, saving parents the need to take time off work, and saving children the need to take time off from school.

- Dr Gardiner also does 2 one week pediatric ophthalmology clinics in Whitehorse, servicing approximately 250 patients annually.

02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS

MARYAM
AROICHANE

- *Case of Bylisaascaris Pediatric Ophthalmology Whistler (March) 2015*

ROY CLINE

- *June 2014 Vancouver Island Ophthalmology Society Annual Meeting*
i. "Oblique Function Dysfunction"
ii. Re-operative Strabismus

PETER DOLMAN

- *World Ophthalmology Congress, Invited speaker and Charman, Tokyo, JAPAN, April 2014*
- *All Indian Association of Oculoplastics, Delhi, INDIA Sept 2014*
- *PanAmerican Society of Oculoplastics And Esthetic Surgeons, Cancun, MEXICO, Oct, 2014*
- *Approach to Thyroid Eye Disease, Visiting Professor, McMaster University Dept of Ophthalmol, Hamilton, CANADA May 2014*
- *Randomized Controlled Trial on Silicone Stents in TED, Halifax, CANADA June 2014*
- *Causes of Upper Lid Retraction: CT Scan Correlates, Orbital Silent Cranium Syndrome Orbit Society, Capri, ITALY Sept 2014*
- *ITEDS and EUGOGO: Joint Projects Endonasal Approaches for Lacrimal Outflow Obstruction Italian Oculoplastics Society, Naples, ITALY Sept 2014*
- *VISA Classification in Thyroid Eye Disease Eyelid and Orbital Trauma and Reconstruction Orbital And Preseptal Cellulitis*
- *Visiting Professor, Department of Ophthalmology, University of Ottawa, Ottawa, CANADA Oct 2014*
- *Simplified Technique for Frontalis Slings Current Activities of International Thyroid Eye Disease Society*
- *Causes of Upper Lid Retraction in TED Randomized Controlled Trial of Silicone Stents in Endonasal DCR*
- *Keynote speaker, PanAmerican Oculoplastics Society, Cancun, MEXICO, Nov*
- *Oculomotility Disorders in Thyroid Eye Disease Invited speaker, Subspecialty Day, AAO, Chicago, USA Nov 2014*
- *Orbital Trauma Management of Thyroid orbitopathy Orbital Cellulitis and Management*
- *Vascular Malformations of the Orbit Colombia Oculoplastics and Orbit Symposium, Bogota COLOMBIA Mar 2015*

JANE GARDINER

- *Canadian Ophthalmological Society Annual Meeting, Invited Speaker, NAI for the General Ophthalmologist June 2015*
- *Vancouver Pediatric Ophthalmology Meeting; Invited Speaker, "Amblyopia Update" Sept 2015*
- *UBC Dept Ophthalmology, Grand Rounds, "Bringing Ophthalmology Teaching Excellence into Focus", with Buckley and Armstrong) Dec 4, 2015*
- *BCCH, Special Care Nursery (ROP) Feb 11, 2016*

SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS

DEBBIE GIASCHI

- *Plasticity in the Visual Brain. CFRI Mini Med School XV, Vancouver, November 2014.*
- *The effect of speed on human motion processing. Interdisciplinary Workshop on Perception and Cognition, Peter Wall Institute, UBC, May, 2014.*
- *Multiple-object tracking in amblyopia. Mini-symposium, Association for Research in Vision and Ophthalmology, Orlando, Florida, May 2014*
- *The role of motion processing in understanding amblyopia and improving treatment outcomes. Gained in Translation summit meeting, Casey Eye Institute, Oregon Health & Science University, October 2015.*
- *The role of fellow eye deficits and motion perception deficits in the advancement of amblyopia treatment. Lasker /International Retina Research Foundation Initiative for Innovation in Vision Science (Amblyopia), Woods Hole, Massachusetts, August 2015.*
- *Motion perception in children with amblyopia. Canadian Amblyopia Network meeting, University of Waterloo, June 2015.*

CHRIS LYONS

- *Canadian Ophthalmological Society. Halifax June 2014*
- *Panel member. Complicated Strabismus. Plenary session. This child has cataracts. Now what? Joint Strabismus Meeting with JASE (French Ophthalmology) Scott Resect-Recess Procedure Divergence insufficiency: A surgical conundrum. F Godoy, CJ Lyons*
- *World Glaucoma Association Global Consensus meeting on Childhood Glaucoma July 16 2014. 'Aphakic Glaucoma'*
- *Cambridge Ophthalmological Symposium September 7-10 2014; 'Cranial Nerve Palsies in Childhood'*
- *UBC Ophthalmology Grand Rounds November 2014 Cranial Nerve Palsies in Child hood*
- *American Association for Pediatric Ophthalmology and Strabismus 2014 Palm Springs USA Panel Member: Difficult Cases in Pediatric Ophthalmology Rotational Autograft After Penetrating Ocular Injury*
- *Danish Ophthalmological Society March 7-9 2014 Kolding, Denmark Optic Disc Anomalies (including swelling) in Childhood . When to worry. Childhood Glaucoma*
- *Universities of Rotterdam, Nijmegen. Curacao Meeting. 11-14 Oct 2014 New Developments in Ophthalmology.*
- *Invited guest lecturer, Oxford Congress of Ophthalmology, Oxford UK July 2015*

PATRICK MA

- *Dinner event with Optometrist – "Update in Retina Therapies" – Oct 21, 2015*
- *Allergan Canada meeting – "Ozurdex" – November 26, 2016*

DAVID ROSSMAN

- *When is IgG4-related disease not IgG4-related disease?. Michael Davie, David Rossman, Roisin Reynolds, Steve Rasmussen. Canadian Ophthalmic Pathology Society. Halifax, June 4, 2014.*
- *A Sandy Mass in a young girl. Zaid Mammo, David Rossman, Valerie White. Canadian Ophthalmic Pathology Society. Halifax, June 4, 2014.*
- *Management of Epiphora. By Rossman D. Invited Speaker. British Columbia Society of Eye Physicians and Surgeons and UBC Department of Ophthalmology Spring Clinical Day. May 9, 2014.*

02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

PRESENTATIONS

VIVIAN YIN

- *Sentinel Lymph Node Biopsy for Periocular Malignancies. Asian-Pacific Association of Ophthalmology Annual Congress. Taipei, Taiwan. March 24-27, 2016.*
- *Multi-modal Management of Thyroid Eye Disease: Role of Surgery, Radiation and Biologics. World Ophthalmology Congress 2016. Guadalajara, Mexico. Feb 5-9, 2016.*
- *Orbital and Ocular Adnexal Manifestation of Cancer and Cancer Treatment. World Ophthalmology Congress 2016. Guadalajara, Mexico. Feb 5-9, 2016.*
- *Key Ophthalmic Procedures. UBC Ophthalmology Update: Knowledge and Skills Seminar for Emergency Physicians. Nov 21, 2015.*
- *Anatomy Dissection Lab: TORIC Course. University of Toronto, Toronto, Canada. May 25-27, 2015.*

RESEARCH GRANT FUNDING RECEIVED APRIL 2014 ,1 - MARCH 2015 ,31:

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CIHR	INTERVENTIONS FOR DYSLEXIA: EFFECTIVENESS AND NEUROLOGICAL CORRELATES	C	86,470	2013-2016	GIASCHI	L. SIEGEL
NSERC	BRAIN MECHANISMS UNDERLYING HUMAN MOTION PERCEPTION	C	31,000	2012-2017	GIASCHI	

RESEARCH GRANT FUNDING RECEIVED APRIL -2015 ,1MARCH 2016 ,31:

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CIHR	INTERVENTIONS FOR DYSLEXIA: EFFECTIVENESS AND NEUROLOGICAL CORRELATES	C	86,470	2013-2016	GIASCHI	L. SIEGEL
NSERC	BRAIN MECHANISMS UNDERLYING HUMAN MOTION PERCEPTION	C	31,000	2012-2017	GIASCHI	
BC CHILDREN'S HOSPITAL FOUNDATION	USING DEPTH PERCEPTION TO TREAT VISUAL DISORDERS	NC	10,000	2015	GIASCHI	K. MEIER

03

COMMITTEE PARTICIPATION

-
- ALAN DEMCO** • *University of British Columbia Department of Ophthalmology Executive Committee*
-
- JANE GARDINER** • *Director, Undergraduate Education, Department of Ophthalmology and Vision Science, UBC FoM*
 • *Pediatric Ophthalmology Representative, Ophthalmology Residency Training Committee, Department of Ophthalmology and Vision Science, UBC Faculty of Medicine*
 • *Continuing Medical Education Committee, Dept of Ophthalmology and Vision Science, UBC FoM*
 • *Medical Director, Orthoptic Training Program, BC Children's Hospital*
 • *Executive Committee for the UBC Dept of Ophthalmology, FOM and Residency Training Committee, UBC Dept of Ophthalmology, FOM*
-
- CHRIS LYONS** • *Chair, Royal College of Physicians and Surgeons of Canada Residency Review Program, Western University, London Ontario, November 26 2014*
 • *Conference Organizer: Whistler March 2014. Pediatric Ophthalmology Whistler 3*
 • *Member, UBC Ophthalmology Staff Committee*
 • *Member, UBC Advisory Committee*
 • *Member, UBC Ophthalmology Manpower Committee*
 • *BCCH, Member, SSAC 2003-Present*
 • *VGH, Member, Medical Staff Committee*
-
- ALAN DEMCO** • *Member-at-large. UBC Dept of Ophthalmology Executive Advisory Committee. Dec 2000-present*
-
- DEBBIE GIASCHI** • *Child & Family Research Imaging Facility, Director of Operations, 2013-present*
 • *NSERC Undergraduate Student Research Awards UBC FoM, coordinator, 2007 – present*
 • *UBC High Field MRI Centre Protocol Review committee, member, 2004 – present*
 • *Child and Family Research Imaging Facility protocol review committee, chair, 2011 – present*
 • *Ophthalmology Executive Advisory Committee, member, 2011 – present*
 • *Residency Training Committee, Ophthalmology, member, 1998 – present*
 • *Summative Peer Review of Teaching, UBC Faculty of Medicine, Departmental rep, 2012-present*
-
- PETER DOLMAN** • *Section Editor (oculoplastics and orbit) - Canadian Journal of Ophthalmology - 2009 - present*
Reviewer:
 • *American Journal of Ophthalmology, 2007 – current*
 • *Asia-Pacific Journal of Ophthalmology 2012 – current*
 • *Archives of Ophthalmology 2010 – current*
 • *British Journal of Ophthalmology 2000 – current*
 • *Canadian Journal of Ophthalmology 2001 – current*
 • *Endocrinology 2013 – current*
 • *European Journal of Ophthalmology 2010 – current*
 • *Inv Ophthalmology and Visual Sciences (ARVO) 2009 – current*
 • *J Pediatric Hematology and Oncology 2007 – current*
 • *Journal of Postgraduate Medicine 2011 – current*
 • *New England Journal of Medicine 2012 – current*
 • *Ophthalmic Plastic and Reconst Surg 2002 – current*
 • *Ophthalmology 2003 – current*
 • *Orbit 2004 – current | PLOS ONE 2012 – current | Thyroid 2003 – current | Von Graefes 2009 – current*
-

PUBLICATION RECORDS

REFEREED PUBLICATIONS

**PETER
DOLMAN**

1. Al-Salem K, Gibson A, Dolman PJ Management of congenital lacrimal (anlage) fistula..Br J Ophthalmol. 2014 Oct;98(10):1435-6. doi: 10.1136/bjophthalmol-2013-304854. Epub 2014 May 15
2. Dolman P. Managing new antiplatelet and anticoagulant agents in the context of oculoplastic and orbita surgery. Can J Ophthalmol. 2014 Apr;49(2):120.
3. Wong AJ, Planck SR, ... Dolman PJ et al. IgG4 Immunostaining and its implications in Orbital Inflammatory Disease. PLoS One. 2014 Oct 10;9(10):e109847.
4. Nathoo NA, Rasmussen S, Dolman PJ, Rossman DW. Periocular mass lesions secondary to dermatologic fillers: report of 3 cases. Can J Ophthalmol. 2014 Oct;49(5):468-72
5. Shams PN, Rasmussen SL, Dolman PJ. Adult-onset asthma asociated with simultaneous conjunctival, eyelid and orbital xanthogranulomatosis responsive to systemic immunosuppression. Ophthal Plast Reconstr Surg. 2014 May 14.

**DEBBIE
GIASCHI**

1. Mahon P, Holsti L, Siden H, Strahlendorf C, Turnham L, Giaschi D (2014) Using colors to assess pain in toddlers: validation of "The Rainbow Pain Scale"—a proof-of-principle study. Journal of Pediatric Oncology Nursing 1-7. 2014
2. Meier K, Sum B, Giaschi D. (2016) Global motion perception in children with amblyopia. Vision Research. 127:18-27
3. Giaschi D, Chapman C, Meier K, Narasimhan S, Regan D. (2015) The effect of occlusion therapy on motion perception deficits in amblyopia. Vision Research 114:122-134
4. Ribary U, Mackay AL, Rauscher A, Tipper CM, Giaschi D, Woodward TS, Sossi V, Doesburg SM, Ward LM, Herdman A, Hamarneh G, Booth BG, and Moiseev A. Emerging neuroimaging technologies: Towards future personalized diagnostics, prognosis, targeted intervention and ethical challenges. In: Neuroethics: Anticipating The Future, J. Illes, S. Hossain, eds., Oxford University Press, in press.

CHRIS LYONS

1. Diffuse angiopathy in Adams-Oliver syndrome associated with truncating DOCK6 mutations.
2. Lehman A, Stittrich A, Glusman G, Zong Z, Senger C, Lyons C, Eydoux P, Li H, Roach J, Patel M Am J Genetics .Article first published online: 4 Aug 2014
3. Delayed Visual Loss from Optochiasmatic arachnoiditis after resection of Craniopharyngioma Carreras EM, Lyons CJ, Cochrane DD J Neurosurg Pediatr 2014; 13:520-4
4. Diffuse angiopathy in Adams-Oliver syndrome associated with truncating DOCK6 mutations. Lehman A, Stittrich A, Glusman G, Zong Z, Senger C, Lyons C, Eydoux P, Li H, Roach J, Patel M. Am J Genetics (Accepted)
5. Delayed Visual Loss from Optochiasmatic arachnoiditis after resection of Craniopharyngioma Carreras EM, Lyons CJ, Cochrane DD. J Neurosurg Pediatr 2014; 13:520-4
6. Cranial Nerve Palsies in Childhood. Lyons CJ, Godoy F (F), AlQahtani E (F). Eye. 2015; 29:246-51
7. Congenital bilateral retinal detachment in two siblings with osteoporosis-pseudoglioma syndrome. Wellinder L (F), Robitaille JM, Rupps R, Boerkoel CF, Lyons CJ. Ophthalmic Genet 2015;May 6:1-5 (E Pub ahead of Print)
8. Enlarging Corneoscleral cyst in a 2 year-old girl. AlQahtani E(F), Godoy F(F), Lyons CJ JAAPOS 2015;19:389-91
9. Clinical Pearls and Management Recommendations for Strabismus due to Thyroid Orbitopathy. AlQahtani ES(F), Rootman J, Kersey J(F), Godoy F(F), Lyons CJ Middle East Afr J Ophthalmol 2015;22:307-11

PUBLICATION RECORDS cont

REFEREED PUBLICATIONS

CHRIS LYONS

10. *Painful Acute Corneal Ulceration Mimicking Infectious Keratitis in a Teenager with Reactive Arthritis (Reiter's Disease).* Lyons CJ, AlQahtani E (F), Godoy F (F) Moloney G, Gardiner J. *Journal of Pediatric Ophthalmology and Strabismus* (Accepted February 2015)
11. *Posterior Polymorphous Corneal Dystrophy: A rare manifestation of Alport Syndrome.* Godoy F (F), Lyons C. *Rev Bras Oftal.* (Accepted September 2015)

VIVIAN YIN

1. Baker MS, Yin VT, Ivan D, Allen RC, Carter KD, Esmali B, Shriver EM. *Epidemiology and prognosis of primary periocular sweat gland carcinoma.* *Ophthal Plast Reconstr Surg.* 2016 Mar 11 [Epub ahead of print] PMID:26974419
2. Tetzlaff M, Curry J, Yin V, Pattanaprichakul P, Manonukul J, Uiprasertkul M, Manyam G, Wani K, Aldape K, Zhang L, Prieto V, Esmali B. *Distinct pathways in the pathogenesis of sebaceous carcinoma implicated by differentially expressed microRNAs.* *JAMA Ophthalmol.* 2015; 133(10):1009-16. [Online First July 23, 2015.] doi:10.1001/jamaophthalmol.2015.2310
3. Ozgur OK, Yin V, Chou E, Ball S, Kies M, William WN, Migden M, Thuro BA, Esmali B. *Hedgehog pathway inhibition for locally advanced periocular basal cell carcinoma and basal cell nevus syndrome.* *Am J Ophthalmol* 2015 Apr 30 [Epub ahead of print] PMID:25935097
4. Yin VT, Merritt H, Esmali B. *Eyelid and ocular surface carcinoma: Diagnosis and management.* *Clin Dermatol* 2015;33(2):159-69. PMID:25704936

TEXTBOOKS EDITED

PETER DOLMAN

1. Dolman PJ. *Evaluation and Overall Management of Thyroid Orbitopathy in "Graves' Disease: A Comprehensive Guide for Clinicians",* Bahn R (ed), Springer Science, 2014
2. Dolman PJ. *Natural History of Thyroid Eye Disease in "Thyroid Associated Eye Diseases",* Douglas and McCoy, Springer, New York, 2014

CHRIS LYONS

1. Scott Lambert, Christopher Lyons. *Pediatric Ophthalmology and Strabismus.* (Taylor and Hoyt, 5th Ed.) Elsevier. Planned Publication 2016
2. *Pediatric Neurology.* Eds Sarnat, Dulac Lasseigne Elsevier 2014
Lyons CJ, Wiwatwongwana A. *Vision, Optic Nerve and the Visual pathways*
Wiwatwongwana A. Lyons CJ. *Cranial nerves and Ocular Motility*

CONFERENCE PROCEEDINGS

DEBBIE GIASCHI

1. Partanen M, Siegel L, Giaschi D. (2014) *Structural and Functional Neuroimaging of Reading in Children.* European Association for Research on Learning and Instruction (Neuroscience and Education) abstract
2. Meier M, Qiao G, Wilcox L, Giaschi D. (2014) *Coarse stereopsis reveals residual binocular function in children with strabismus.* *Journal of Vision* 14(10):698 doi:10.1167/14.10.698
3. Giaschi D. (2014) *Multiple object-tracking in amblyopia.* Association for Research in Vision and Ophthalmology abstract
4. Meier K,, Tahmasebi S, Giaschi D. (2015) *The maturation of global motion perception in school-aged children.* Child Vision Research Society abstract.

04 PUBLICATION RECORDS con't

CONFERENCE PROCEEDINGS

DEBBIE
GIASCHI

5. Partanen M, Kim D, Williams L, Siegel L, Giaschi D. (2015) Cerebellar grey and white matter and their relationship to reading and cognition. *Human Brain Mapping Conference abstract*
6. Giaschi D. (2015) Motion processing deficits in children with amblyopia. *Canadian Association for Neuroscience abstract*
7. Watson M, Yuskiv N, Chapman C, Stockler S, Giaschi D. (2015) The effect of pharmacological intervention on contrast sensitivity deficits in phenylketonuria. *Canadian Association for Neuroscience abstract*
8. Meier K, Sum B, Giaschi D. (2015) Global motion perception deficits in children with amblyopia as a function of spatial and temporal stimulus parameters. *Journal of Vision* 15(12):653. doi: 10.1167/15.12.653
9. Watson M, Yuskiv N, Chapman C, Stockler S, Giaschi D. (2015) The effect of pharmacological intervention on contrast sensitivity deficits in phenylketonuria. *Journal of Vision* 15(12):657. doi: 10.1167/15.12.657

PATRICK MA

1. Euretina Annual Meeting – September 08-12, 2016 – Copenhagen, Denmark
2. Hawaiian Eye – January 17-22, 2016
3. AAO – Las Vegas – Nov 13-16, 2015

VIVIAN YIN

1. Yin VT, Dolman P. A Simplified Frontalis Sling Technique for Congenital Ptosis. *World Ophthalmology Congress 2016. Guadalajara, Mexico. Feb 5-9, 2016.*
2. Goold L, Qiao G, Rossman D, Dolman P, Sniegowski M, Yin VT. Comparing the effect of levator advancement and conjunctival-mullectomy on tear production and dry eye symptoms. *ASOPRS 46th Fall Scientific Symposium, Las Vegas, USA. Nov 12-13, 2015.*
3. Yin VT, Esmali B. Frequency of repeated orbital imaging in patients with orbital and ocular adnexal tumor. *Canadian Ophthalmology Society Annual Meeting, Victoria, BC. June 18-20, 2015.*
4. Yin VT, Rasmussen S, Anderson D, Brown E. Basomelanocytic tumor in a patient with Gorlin Syndrome. *Canadian Ophthalmology Society Annual Meeting, Victoria, BC. June 18-20, 2015.*
5. Yin VT, Baker MS, Ivan D, Shriver E, Esmali B. Epidemiology and prognosis of primary periocular sweat-gland carcinoma. *Canadian Ophthalmology Society Annual Meeting, Victoria, BC. June 18-20, 2015.*

INITIATIVES IN PROGRESS RESEARCH

● **DEBBIE GIASCHI:**

- Meier K, Tahmesabi S, Giaschi D. Typical development of global motion perception.
 - Wilcox L, Meier K, Giaschi D. The development of coarse and fine stereopsis in children with amblyopia or strabismus.
 - Watson M, Giligson C, Ko A, Lyons C, Giaschi D. Binocular perceptual learning as a treatment for amblyopia or intermittent exotropia.
 - Partanen M, Siegel L, Giaschi D. Interventions for dyslexia: effectiveness and neurological correlates.
 - Watson M, Stockler S, Giaschi D. Assessment of contrast sensitivity in children with phenylketonuria.
 - Meier K, Candy R, Seemiller E, Wilcox L, Giaschi D. Vergence eye movements driven by fine and coarse stereo stimuli in young children.
 - Giaschi D, Synnes, A, Grunau R. Effect of preterm birth on motion perception.
- We have been working on developing and testing a computer program to quantify visual distortion reported by patients. The goal of this project is to develop a program that can be used to provide a quantifiable measure of distortion over time (for example surgery or anti-VEGF injections) to assist clinicians with treatment decisions in addition to visual acuity and optical coherence tomography. A pilot study is currently ongoing.

● **VIVIAN YIN:**

- Global ophthalmology educational program for residents
- Redevelopment of ECC resident clinic

● **PATRICK MA:**

- A project to review charts of patients treated with Ozurdex in the last 2 years is ongoing with grant funding from Allergan. This project is exploring the use of Ozurdex for all approved indications, including the analysis of subsequent anti-VEGF "rescue" therapy, and targeted adverse events due to Ozurdex. This project is currently in the data analysis stage and will be presented at a conference in 2017.



The Office of Pediatric Surgical
Evaluation and Innovation at BCCH

Contact

☎ 604 875 2345

✉ dduffy@cw.bc.ca

ADDRESS

OPSEI, Room K4480 110-0 Oak
Street Vancouver, BC V6H 3V4

