



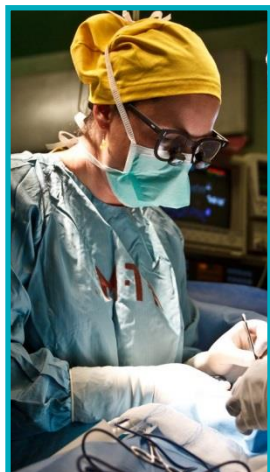
# ANNUAL ACHIEVEMENTS REPORT 2017/18

The Office of Pediatric Surgical Evaluation  
and Innovation at BCCH



THE OFFICE OF PEDIATRIC SURGICAL  
EVALUATION AND INNOVATION  
ANNUAL ACHIEVEMENTS REPORT

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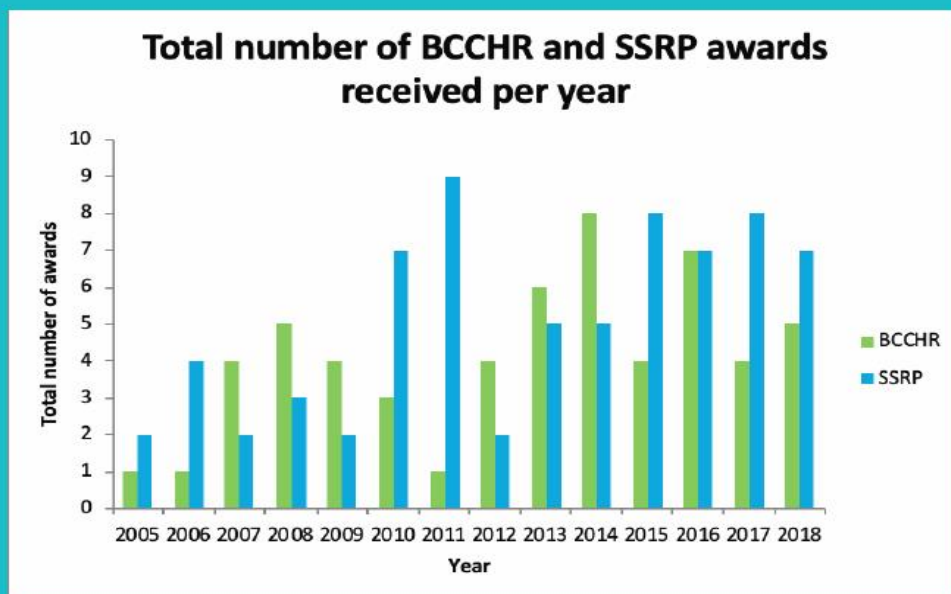
# SSRP and BCCHR RESEARCH AWARD FUNDING

## Departments of Surgery and Anesthesia

### A REVIEW FROM 2005-2018

Data collated from historic SSRP and BCCHR summer research funding applications between 2005-2018 demonstrates strong involvement in academic initiatives by the BC Children's Hospital Department of Surgery and the Department of Anesthesia. Funding applications have had a success rate of up to 80% for BCCHR awards, and 88% for SSRP awards.

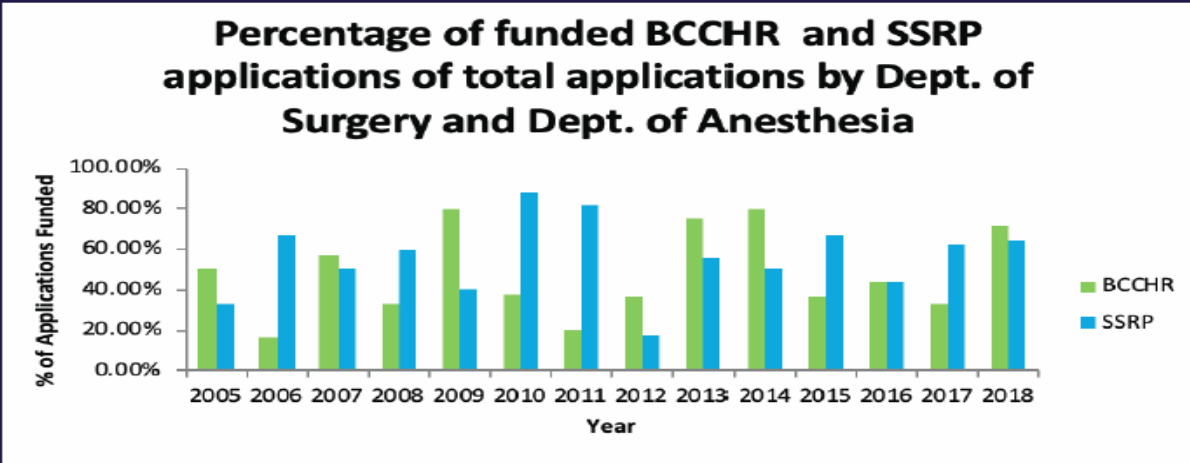
#### TOTAL AWARDS RECEIVED FROM 2005-2018



# \$471,129

of research funding from  
BCCHR and SSRP Awards

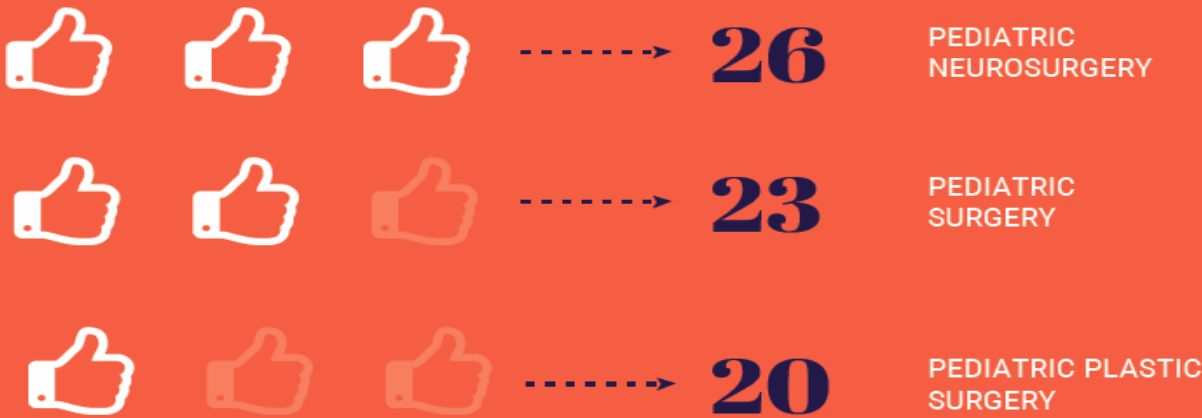
SUCCESS RATE OF APPLICATIONS TO SSRH AND BCCHR



128

FUNDING APPLICATIONS BY BCCH DEPARTMENTS OF SURGERY AND ANESTHESIA TO BCCHR AND SSRP

HIGHEST AGGREGATE AWARDS BY DIVISION: TOP THREE



## DEPARTMENT OF PEDIATRIC DENTISTRY

2016-2018

### FACULTY MEMBERS:



***Dr. Karen Campbell,  
Department Head***



***Dr. Raymon  
Grewal, Division  
Head Oral &  
Maxillofacial  
Surgery***



***Dr. Winnie Zhao***



***Dr. Elsa Hui-Derksen***



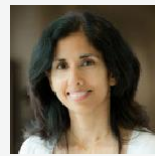
***Dr. WaSham  
Cheung***



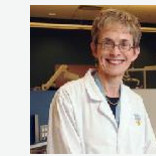
***Dr. Joy Richman,  
Professor UBC***



***Dr. Phoebe Tsang***



***Dr. Kavita  
Mathu-Muju***



***Dr. Rosamund  
Harrison***



***Dr. Jennifer Park***



***Dr. Shan Sun***



***Dr. Graham  
Grabowski***

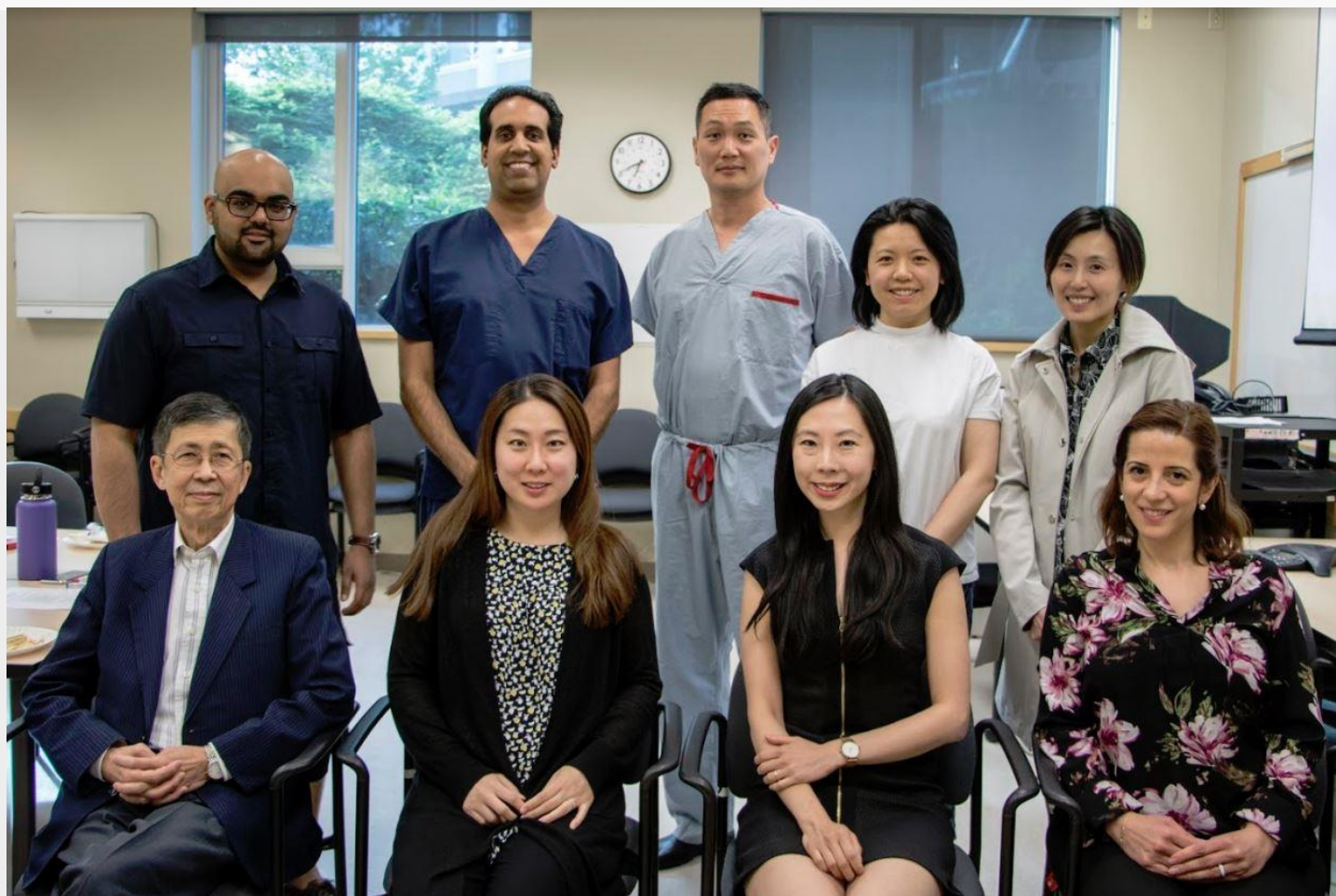


***Dr. Ben Kang***



***Dr. Jason Choi***





### STAFF MEMBERS:

*Dr. Martin Braverman, Consultant Oral and maxillofacial surgeon*  
*Dr. Mark Casafrancisco, Consultant Pediatric dentist*  
*Dr. Peter Chan, Consultant Pediatric dentist*  
*Dr. Kunal Chander, Consultant Pediatric dentist*  
*Dr. Jeff Coil, Active Endodontist*  
*Dr. Leo Fung, Consultant Prosthodontist*  
*Dr. Janice Garrett, Associate General dentist*  
*Dr. Travis Gibson, Provisional Consulting Orthodontist*  
*Dr. Paul Helpard, Consulting Orthodontist*

*Dr. Ahmed Hieawy, Consulting Endodontist*  
*Dr. Anuradha Korada, Consultant Pediatric dentist*  
*Dr. Angelina Loo, Consultant Orthodontist*  
*Dr. David MacDonald, Consultant Oral radiologist*  
*Dr. Chris Olynik, Active Oral and maxillofacial surgeon*  
*Dr. Benjamin Pliska, Consultant Orthodontist*  
*Dr. Paul Pocock, Consultant Orthodontist*  
*Dr. Dorothy Sonya-Hoglund, Consultant Orthodontist and Oral radiologist*  
*Dr. Priscilla Walsh, Consultant Periodontist*  
*Dr. David Yang, Associate Oral maxillofacial surgeon*  
*Dr. Jennifer Yee, Consultant Pediatric dentist*

### PAST/CURRENT TRAINEES IN PEDIATRIC DENTISTRY:

#### CLASS OF 2016

- Dr. Zina Alkafaji
- Dr. Kunal Chander
- Dr. Anu Korada
- Dr. Kanwar Sadana (DSATP)

#### CLASS OF 2017

- Dr. Mazin Algahtani
- Dr. Nida Amir
- Dr. Tila Bahri-Iraei
- Dr. Sara Makhdoom
- Dr. Jon Campbell (DSATP)

#### CLASS OF 2018

- Dr. AlWaleed Abushanan
- Dr. Don He
- Dr. Charis Luk
- Dr. Randa Soussou

#### CLASS OF 2019

- Dr. Mina Al-Mosawi
- Dr. Bryan Wong
- Dr. Cara Yu

# HIGHLIGHTS AND ACHIEVEMENTS:

## DR. Richman

*Appointed to the board of the International Association for Dental Research, the most important organization promoting research into oral health. This is a global organization that fosters collaboration and scientific research in all areas related to oral health from clinical, to fundamental.*

*Renewed to continue as Associate Editor for the Journal of Dental Research, the number one journal for dental research.*

*Invited to give many talks in the last couple of years including the very special celebration of 100th anniversary of the U of A dental faculty.*

*Received an NSERC equipment grant and an NIH R21 grant for my reptile tooth replacement research. It is rare for a Canadian to get an NIH grant without an American collaborator attached to the project.*

## DR. CAMPBELL

Organizer, Chair and participant: Annual General Meeting of the Pediatric Hospital Dental Chiefs of Canada, Hampton Inn, Yaletown April 28<sup>th</sup>

Schulich School of Medicine & Dentistry, Western University's 2018 recipient of Dentistry's "Alumni of Distinction"

## DR. TSANG

*Inducted into the American College of Dentists.*

*Inducted into the International College of*

## DR. HARRISON

*Received the Order of British Columbia (OBC)*

## 01

## TEACHING ACTIVITIES

## GRADUATE STUDENTS SUPERVISED IN 2016-18

Graduate Student	Degree	Thesis Title	YEAR	SUPERVISOR(S)/ COMMITTEE MEMBER
<i>Zina Alkafaji</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Retrospective review of pediatric sedation regimens	2013-17	Supervisor K.R. Mathu-Muju
<i>Kunal Chander</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Effect of Artificial Saliva Aging on Dentin Shear Bond Strength Flexural Strength and Diametral Tensile Strength of Restorative Glass Ionomer Cements	2013-16	Committee member: K. Campbell
<i>Anu Korada</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Micro-CT imaging of fetal head specimens to characterize craniofacial development	2013-16	Supervisor: J. Richman
<i>Mazin Algahtani</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Dental care beyond BC Children's Hospital: The transition experience for young adults with special health care needs	2014-17	Supervisor: K. Campbell; Committee Member: R. Harrison
<i>Tila Bahri</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Survey of dental health of children of incarcerated women in BC	2014-17	Committee member: K. R. Mathu-Muju
<i>Sara Makhdoom</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Effects of curing modes on depth of cure and microtensile bond strength to dentin of bulk fill resin composites	2014-17	Committee member K. Campbell
<i>Nida Amir</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Qualitative analysis of childhood dental care experiences of incarcerated women in BC	2014-17	Committee member K. Campbell
<i>Alwaleed Abushanan</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Primary health care professionals' knowledge, attitude and practices toward early childhood caries and infant oral health	2015-18	Committee member K. Campbell
<i>Charis Luk</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Effect of an audiovisual preoperative intervention in reducing parental anxiety prior to a child's sedation appointment	2015-18	Supervisor: K.R. Mathu-Muju; Committee members: R. Harrison, S. Sun
<i>Randa Soussou</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	Waiting room based dental health promotion for caregivers at UBC	2015-17	Committee members: R. Harrison, K.R. Mathu-Muju
<i>Bryan Wong</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	<i>A retrospective review of biodentine pulpotomy outcomes over a 2 year period</i>	2016-19	Supervisor: K.R. Mathu-Muju; Committee members: J. Coil, M. Casafrancisco
<i>Cara yu</i>	MSc, Craniofacial Science, Certificate in Pediatric Dentistry	<i>Secular changes in dental maturation in growing children</i>	2016-19	Supervisor: J. Richman

## 01 TEACHING ACTIVITIES con't

### OTHER STUDENTS SUPERVISED:

**JOY  
RICHMAN**

#### Post Doctoral fellows:

- **Theresa Grieco**
- **Kirstin Brink**

#### Other:

- **Adrian Danescu (PhD/Orthodontics)**
- **Sarah Gignac (PhD in Cell and Developmental Biology)**
- **Carly Dool MSc (Orthodontics)**
- **Naif Sainin PhD (supervisory committee member)**

## 02 SCHOLARLY & PROFESSIONAL ACTIVITIES

### PRESENTATIONS

**Dr. Campbell**

- Oral presentation: BC Children's Hospital – Pediatrics Academic Half Day April 24th: "Dentistry 101: An overview for the pediatric resident". 2018
- Oral presentation: BC Children's Hospital Dept. of Hematology/Oncology April 11th: "Dental Considerations for the Oncology patient". 2018
- Oral presentation: BC Women's & Children's VC Family Practice Medicine Residents: February 22nd: "Pediatric Dentistry – where it all begins" St. Paul's Hospital. 2018
- Oral Presentation: January 31st "Dental considerations for patients with coagulation disorders" Minami, Vancouver. 2018
- Oral Presentation: October 26th Pediatric Emergency Medicine Academic Half-Day – "Dental Emergencies: an overview of scope, diagnosis and management", BC Children's Hospital. 2017
- Orientation Session for UBC Year 1 DMD students: September 2017: Specialty of Pediatric Dentistry, UBC. 2017
- Oral presentation: BC Women's & Children's VC Family Practice Medicine Residents: February 16th: "Pediatric Dentistry – where it all begins". 2017
- Oral presentation: BC Children's Hospital Cardiology Academic Rounds: February 1st : "Dentistry for patients with Cardiac Conditions". 2017
- Oral presentation: OPSEI Academic Research Rounds: December 16th: "Brighter Smiles revisited – rekindling a partnership". 2016
- Orientation Session for Year 1 DMD students: September 2016: Specialty of Pediatric Dentistry. 2016

**Dr. Cheung**

- "Oral Pathology" UBC second year orthodontic graduate students. November 14, 2016
- "Oral Pathology" UBC second year orthodontic graduate students. November 15, 2017

**Dr. Sun**

- "BC General Dentists' Ability to Provide Care to Children with Special Health Care Needs". UBC Research Day – Oral Health Disparities: A 360 Degree Review. January 2018
- "Hospital Dentistry". Greater Vancouver Study Club: November 2017

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES CON'T

## PRESENTATIONS

**Dr. Mathu-  
Muju**

- *The Children's Oral Health Initiative: A Participatory Approach to Addressing Oral Health Inequities Among First Nations Communities. UBC Faculty of Dentistry Research Day: Oral Health Disparities - A 360 Review, January 23rd, 2018*
- *"Silver Diamine Fluoride", Oral Health Team Meeting, BC First Nations Health Authority, Vancouver, BC, September 20, 2017*
- *"Silver Diamine Fluoride", UBC Faculty of Dentistry Lunch and Learn Series, Vancouver, BC, December 5th, 2017*
- *"Review of Stainless Steel Crowns", hands-on/didactic, BC First Nations Health Authority, Vancouver, BC, March 7th, 2018*

**Dr.  
Richman**

- *Richman, J.M., Vora, S. and Diewert, V.M. February 20, 2018. Diving into the Marianas Trench of human craniofacial development: Using 3D imaging to explore growth of the head in the middle trimester. Presented at CEITEC, Brno, Czech Republic. The Central European Institute of Technology is the European Research Center for Life Science, Advanced Materials and Nanotechnology. They are collaborating with us to scan human fetal heads collected by Dr. Diewert with the most advanced imaging available. 2018*
- *Richman, J.M.\*, Grieco, T.M. and Brink, K. (2018). Rebooting the Zahnreihen: Analysis of the Jaw-wide Patterning cues in the Adult Gecko Dentition. American Association of Anatomists meeting San Diego, April 2018*
- *Richman, J.M. Ann Arbor Michigan, April 12, 2017. External speaker series. 2017*
- *Richman J.M. Center for Blood Research, UBC, April 26, 2017, Seminar series. Rare diseases: Using the chicken embryo to functionally validate the effects of rare human mutations on facial morphogenesis. 2017*
- *Richman J.M. University of Alberta Faculty of Dentistry, 100th Anniversary celebration, keynote speaker, May 25, 2017 "Genetic versus environmental control of tooth replacement in the polyphyodont reptile". 2017*
- *Richman J.M., Danescu, A. and Gignac, S. Texas A.M. University Dallas, Texas, Oct. 25, 2017, External speaker series "Rare diseases: Using the chicken embryo to functionally validate the effects of rare human mutations on facial morphogenesis". 2017*
- *Richman, J.M., Danescu, A., Korada, A. and V. Diewert (2016). Humans are not mice Craniofacial malformations: grounding animal studies on a detailed knowledge of human development. Keynote presentation, August 27, 2016 at the 27th Fukuoka International Symposium on Pediatric/Maternal-Child Health Research. Fukuoka, Japan. 2016*
- *Richman J.M. Tokyo Medical and Dental School, Tokyo Japan. External speaker series, Midfacial morphogenesis. August 22, 2016.*
- *Richman J.M. and Buchtova, M. "BMP signaling in craniofacial skeletal patterning". 11th International BMP Conference, Harvard University, Boston, Oct. 26-30. I was invited specifically to speak about our beak morphogenesis work. 2016*



## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES CON'T

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Canadian Institutes of Health Research (CIHR)	Biological mechanisms contributing to increased risk of facial clefting	C	639,005	2012-2018	Joy Richman	Nancy Ford
France Canada Research Fund	Crocodile tooth hunters – A French-Canadian team investigating unlimited tooth replacement in crocodilian embryos	C	12000 (Funds travel and supplies for experiments)	2015-2018	Joy Richman, Laurent Viriot	Beatrice Thivichon-Prince
Natural Sciences & Engineering Research Council of Canada (NSERC) Discovery grant	Reptilian Tooth and Jaw Development	C	44,000	2016-2021	Joy Richman	
Natural Sciences & Engineering Research Council of Canada (NSERC) Research Tools and Instruments	Reptile Research Facility	C	57,726	2016	Joy Richman	
National Institutes of Health, NIDCR R21 Exploratory Grant Program	Development of the leopard gecko as a model to study in vivo tooth replacement	C	375500	2017	Joy Richman	

## 03

## COMMITTEE PARTICIPATION

## SERVICE TO THE UNIVERSITY

<b>Karen Campbell</b>	<ul style="list-style-type: none"> <li>2016 to present – Royal College of Dentists of Canada. Senior Examiners, NDSE and Component I Section Co-Leads</li> </ul>
<b>Raymon Grewal</b>	<ul style="list-style-type: none"> <li>2018 – President of the BC Dental Association</li> <li>2018 – President of the BC Association of Oral and Maxillofacial Surgeons</li> </ul>
<b>Shan Sun</b>	<ul style="list-style-type: none"> <li>2017-18 – National Dental Examination Board – Written and OSCE Questionnaire Development Committee</li> </ul>
<b>Pheobe Tsang</b>	<ul style="list-style-type: none"> <li>2016 to present: BCDA, “Save a Smile Committee”, 2016 to present.</li> </ul>
<b>Rosamund Harrison</b>	<ul style="list-style-type: none"> <li>2017 - PhD external examiner: Dr. LiLing Wu, Faculty of Dentistry, University of Hong Kong</li> </ul>

## 04

## PUBLICATION RECORDS

<b>Jennifer Park</b>	<ul style="list-style-type: none"> <li>Park J, Cheung WS, Campbell KM. A rare case of gingival cyst in a child. <i>J Dent Child</i> 2017; 84 (1) 44-46</li> <li>Park J, Campbell K, Harrison R (April 2017): Report submitted to BCDA, Chief of Surgery and Department Head of Emergency Medicine, BC Children’s Hospital: “Dental Emergencies Managed at British Columbia Children’s Hospital: A Five Year Review”</li> </ul>
<b>Karen Campbell</b>	<ul style="list-style-type: none"> <li>Park J, Cheung WS, Campbell KM. A rare case of gingival cyst in a child. <i>J Dent Child</i> 2017; 84 (1) 44-46</li> <li>Cheng J, Campbell K: Caries and dental erosion: are Soroti children and adolescents at risk from increased soft drink availability in Uganda? <i>African Health Sci</i> 2016;16(4):943-46.</li> <li>Campbell K, Harrison R. Commentary: “Caregivers call for better access to care for Children with Special Health Care Needs – A course of Action for Improving Access to Care”. <i>CDA Essentials</i> 2017(8):22-4.</li> <li>Park J, Campbell K, Harrison R (April 2017): Report submitted to BCDA, Chief of Surgery and Department Head of Emergency Medicine, BC Children’s Hospital: “Dental Emergencies Managed at British Columbia Children’s Hospital: A Five Year Review”</li> </ul>
<b>Washam Cheung</b>	<ul style="list-style-type: none"> <li>Park J, Cheung WS, Campbell KM. A rare case of gingival cyst in a child. <i>J Dent Child</i> 2017; 84 (1) 44-46</li> <li>Papadopoulos C, Wong A, Choi J, Cheung WS. Ludwig’s angina with lower neck involvement in a 16-year-old male: a case report. <i>Oral Health</i> 2017; 74-80.</li> </ul>

**Rosamund  
Harrison**

- Campbell K, Harrison R. Commentary: "Caregivers call for better access to care for Children with Special Health Care Needs – A course of Action for Improving Access to Care". *CDA Essentials* 2017(8):22-4.
- Park J, Campbell K, Harrison R (April 2017): Report submitted to BCDA, Chief of Surgery and Department Head of Emergency Medicine, BC Children's Hospital: "Dental Emergencies Managed at British Columbia Children's Hospital: A Five Year Review"
- Vertel N, Campbell KM, Harrison RL. Access to Dental Services for Children with Special Health Care Needs: A Pilot Study at the Dental Department of BC Children's Hospital. *J Can Dent Assoc* 2017;83:h6
- Soussou R, Aleksejūnienė J, Harrison R. Waiting room time: An opportunity for parental oral health education. *Can J Public Health*. 2017 Sep 14;108(3):e251-e256.
- Mathu-Muju KR, McLeod J, Donnelly L, Harrison RH, MacEntee MI. The Perceptions of First Nation Participants in a Community Oral Health Initiative. *International Journal of Circumpolar Health*. 2017 Jan 1;76(1):1364960.

**Jason Choi**

- Papadopoulos C, Wong A, Choi J, Cheung WS. Ludwig's angina with lower neck involvement in a 16-year-old male: a case report. *Oral Health* 2017; 74-80.

**Joy  
Richman**

- Bond, S. R., Abramyan, J., Fu, K., Naus, C. C. and Richman, J. M. (2016). Pannexin 3 is required for late stage bone growth but not for initiation of ossification in avian embryos. *Dev Dyn* 245: 913-24.
- Celá, P., Buchtová, M., Vesela, I., Fu, K., Bogardi, J.-P., Song, Y. P., Barlow, A. J., Buxton, P., Medalova, J., Francis-West, P. and Richman, J.M. (2016). BMP signaling regulates the fate of chondroosteoprogenitor cells in facial mesenchyme in a stage-specific manner. *Dev Dyn* 245: 947-62
- Celá P, Hampl M, Fu KK, Kunova Bosakova M, Krejci P, Richman JM, Buchtová M. (2016). MORN5 expression during craniofacial development and its interaction with the BMP and TGFβ pathways. *Front. Physiol.* 7:318
- Kulkarni, J.A., Myhre, J.L., Chen, S., Yi, Y., Tam, C., Danescu, A., Richman J.M. and Cullis, P. (2017). Design of lipid nanoparticles for in vitro and in vivo delivery of plasmid DNA. *Nanomedicine: Nanotechnology, Biology and Medicine*,13(4):1377-1387.
- Hosseini-Farahabadi S, Gignac SJ, Danescu A, Fu K, Richman JM. (2017). Abnormal WNT5 Signaling Causes Mandibular Hypoplasia in Robinow Syndrome. *J Dent Res.* 96:1265-1272. First 2 authors contributed equally.
- Higashihori N, Lehnertz B, Sampaio A, Underhill TM, Rossi F, Richman JM. (2017). Methyltransferase G9A Regulates Osteogenesis via Twist Gene Repression. *J Dent Res.* 96: 1136-1144.
- Richman, J.M. and Schutte, B. (2017). Face Forward: Gene Variants, Pathways, and Therapies for Craniofacial Anomalies. *J. Dent. Res.* 96(11):1181-1183.
- Grieco, T. and Richman, J.M. (2018). Coordination of bilateral tooth replacement in the juvenile gecko is continuous with in ovo patterning. *Evolution and Development.* 20(2):51-64.
- Richman JM, Vora SR. Craniofacial Defects and Cleft Lip and Palate. Wiley Online Library, encyclopedia of Life Sciences. 2017 April
- Abramyan, J. and Richman, J.M. (2018). Craniofacial development: Discoveries made in the chicken embryo *Int. J. Dev. Biol.* 62: 97-107

## PUBLICATION RECORDS CON'T

**Kavita  
Mathu-  
Muju**

- 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
- 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
- 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
- Mathu-Muju KR, Kennedy DB. Loss of Permanent First Molars in the Mixed Dentition: Circumstances Resulting in Extraction and Requiring Orthodontic Management. *Pediatric Dentistry*. Volume 38, Number 5, September-October 2016, pp. 46E-53E(8)
- Jessani A, Laronde D, Mathu-Muju KR, Brondani MA. Pregnancy and vulnerability: Self-perceived oral health and dental service utilization by pregnant women in the Metro Vancouver Area, BC, Canada. *Journal of the Canadian Dental Association*. 2016;82:g28
- Mathu-Muju KR, Nash DA, Friedman JW. Saskatchewan's school-based dental program staffed by dental therapists: a retrospective case study. *Journal of Public Health Dentistry*. (2016), doi:10.1111/jphd.12184
- 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.
- Friedman JW, Nash DA, Mathu-Muju KR. The Virtual Dental Home: A Critique. *Journal of Public Health Dentistry*. (2017), doi:10.1111/jphd.12208
- Mathu-Muju KR, McLeod J, Donnelly L, Harrison RH, MacEntee MI. The Perceptions of First Nation Participants in a Community Oral Health Initiative. *International Journal of Circumpolar Health*. 2017 Jan 1;76(1):1364960.
- Nash DA, Mathu-Muju KR, Friedman JW. The Dental Therapists Movement in the United States: A Critique of Current Trends. *American Journal of Public Health Dentistry*. doi:10.1111/jphd.12252, September 12, 2017.
- Mathu-Muju, KR, Kong X, Brancato C, McLeod J, Bush HM. Utilization of Community Health Workers in Canada's Children's Oral Health Initiative for Indigenous Communities. *Community Dental and Oral Epidemiology*. 2018 Apr 1;46(2):185-93.

## INITIATIVES IN PROGRESS:

### Dr. Joy Richman:

I am active in the International Association for Dental Research (IADR). My role is to represent the North American Region to the board (Canada, US and Mexico). My next big project is to help to organize the IADR meeting in Vancouver (June 19-22, 2019). There will be approximately 6000 attendees. I will organize symposia, host the board members, invite speakers, plan the opening ceremonies etc. This meeting was last in Vancouver 20 years ago and IADR meetings are only held in Canada about once every 10 years so it is a special occasion.

I continue to be chair of Pediatric Dentistry at UBC and my next role will be acting director of the grad program.

### Dr. Rosamund Harrison:

CIHR  
Member, College of Reviewers  
Scientific Officer, Institute of Indigenous Health [various competitions 2016-18]

Order of BC Advisory Council, 2018

## DIVISION OF PEDIATRIC NEUROSURGERY

2016-2017





**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. Alexander Cheong**, Research Coordinator
- **Dr. Vesna Popovska**, Research Manager

## HIGHLIGHTS AND ACHIEVEMENTS:

THIS YEAR (2016-2017) WITNESSED SIGNIFICANT ACADEMIC AND PEDAGOGICAL CONTRIBUTIONS BY THE DEPARTMENT OF PEDIATRIC NEUROSURGERY. AMONG OTHERS:

**DR. STEINBOK**

*University of the West Indies Vice  
Chancellor's award at the UWI  
Toronto Benefit Gala April 2016.*

## 01 TEACHING ACTIVITIES

### *PEDIATRIC NEUROSURGERY:*

#### **FELLOWS SUPERVISED**

- *Julia Radic*
- *Sudeesh Ramachandran*

#### **RESIDENTS SUPERVISED**

- *Navid Khezri*
- *Tasha Walker-Palmer*

#### **STUDENTS SUPERVISED**

- *Naheeda Rajmohamed- P McDonald*

## 02 SCHOLARLY & PROFESSIONAL ACTIVITIES

### *PRESENTATIONS*

#### **Patrick McDonald**

- An ethical framework for surgical innovation
- Canadian Neurosurgical Innovation Meeting- MaRS Discovery Centre, Toronto, ON, **September 10, 2016.**
- Inside Out: The Science Behind Kids' Brains- UBC Centennial Event- Telus World of Science, Vancouver, BC, **June 6, 2016.**
- Physician Assisted Dying- What does it mean for Neurosurgeons?
- Division of Neurosurgery, University of Toronto, Toronto ON, **May 27, 2016.**
- Conflicts of Interest in Neurosurgery
- Division of Neurosurgery, University of Toronto, Toronto ON, **May 27, 2016.**

#### **Ash Singhal**

- Pediatric Neurosurgery. BC Children's Hospital Foundation. Vancouver BC, **January 2017.**
- Pediatric Trauma Management. Trauma Services British Columbia. Vancouver BC, **September 2017** (Province-wide via webinar).
- Spasticity – the role of Selective Dorsal Rhizotomy. Canadian Botulinum Toxin Conference (Physiatry and Rehabilitation Medicine), Toronto, **October 2016.**
- Surgical Approaches to Spasticity – an overview. Canadian Botulinum Toxin Conference (Physiatry and Rehabilitation Medicine), Toronto, **October 2016.**
- Maintenance of competency in the face of declining trauma incidence. Trauma Association of Canada annual meeting, Vancouver, **February 2016.**

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES

## PRESENTATIONS

**PAUL  
STEINBOK**

- **June 13-17, 2016** Invited faculty – ESPN course – Helsinki, Finland 1) Craniosynostosis diagnosis and workup 2) Occipital plagiocephaly 3) Surgery for Chiari I 4) Craniopharyngioma treatment options 5) Long term outcomes in craniopharyngioma 6) Solve a case – midline tumor 7) Video session – spinal intramedullary tumor; endoscopic assisted sagittal synostectomy; fixation of bone flap with struts.
- **Sept 28-Oct 1, 2016**, Japanese Neurosurgical Society Annual meeting –Fukuoka, Japan. Invited speaker 1) Definition of a pediatric neurosurgeon 2) Current treatment of hydrocephalus
- **Oct 1-3, 2016** Invited faculty - ISPN course, Bangalore, India: 1) Chiari 2) Occult tethered cord syndrome 3) Retethering of spinal cord
- **Nov 29-Dec 2, 2016** Invited faculty – Comprehensive Clinical Neurosurgery Review. Krakow, Poland 1) Brain tumors in children 2) Hydrocephalus 3) Pineal region tumors 4) Chiari malformation 5) Spinal dysraphism 6) Craniosynostosis 7) Oral exams –sessions on 3 different topics – posterior fossa tumors, spastic CP and skull lesions

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
National Institutes of Health-US (NINDS)	Targeting the CSF microbiota to optimize CSF shunt infection treatment	C	\$340,000 (USD)	2016-2021	Tamara Simon-University of Washington	McDonald (site investigator)
Patient-Centered Outcomes Research Institute	A randomized controlled trial of anterior vs. posterior entry site for CSF shunt insertion	C	\$628,500 (USD)	2015-2018	William Whitehead-Baylor College of Medicine	McDonald (site investigator)

## COMMITTEE PARTICIPATION

**Patrick  
McDonald**

- *Neurosurgery Specialty Committee - Royal College of Physicians and Surgeons of Canada*
- *Neurosurgery Examination Committee - Royal College of Physicians and Surgeons of Canada*
- *Canadian Neurosurgical Society - Vice President*
- *Canadian Neurosciences Federation - Board Member*
- *Surgical Cabinet - Department of Surgery, BC Children's Hospital*
- *Surgical Suites Advisory Committee- BC Children's Hospital*

**Ash  
Singhal**

- *Trauma Steering Committee, BCCH – Co-Chair (Medical Director)*
- *Surgical Foundations Examination Committee – Royal College of Physicians and Surgeons of Canada – Chair*
- *Surgical Foundations Advisory committee – Royal College of Physicians and Surgeons of Canada – Member*
- *Kuwaiti Institute of Medical Specialists – Surgical Foundations Examination Board – Member*
- *Parachute Canada – Board of Directors – Member*
- *Trauma Association of Canada – Pediatric Section – Chair*

## 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 Physicians 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](http://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*
- *Child's 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*



## REFERRED PUBLICATIONS

**ASH  
SINGHAL**

1. Liang J, Singhal A. Regression of ventriculomegaly following medical management of a patient with Hurler syndrome. *J Neurosurgery Pediatr.* 2016 May;17(5):537-9.
2. Wilbur C, Sanguansermisri C, Chable H, Anghelina M, Peinhof S, Anderson K, Steinbok P, Singhal A, Datta A, Connolly MB. Manifestations of Tuberous Sclerosis Complex: The Experience of a Provincial Clinic. *Can J Neurol Sci.* 2017 Jan;44(1):35-43
3. Mortenson P, Singhal A, Hengel AR, Purtski J. Impact of early follow-up intervention on parent-reported postconcussion pediatric symptoms: A feasibility study. *J Head Trauma Rehabil.* 2016, 31(6):E23-E32

**PAUL  
STEINBOK**

1. Sharma J, Bonfield C, Steinbok P. Selective dorsal rhizotomy for hereditary spastic paraparesis in children. *Childs Nerv Syst.* 2016 Aug;32(8):1489-94. doi: 10.1007/s00381-016-3122-2. Epub 2016 Jun 16.
2. Henderson G, Dunham C, Steinbok P. Histopathology of the filum terminale in children with and without tethered cord syndrome with attention to the elastic tissue within the filum. *Childs Nerv Syst.* 2016 Sep;32(9):1683-92
3. Knerlich-Lukoschus F, Connolly MB, Henderson G, Steinbok P, Dunham C. Clinical, imaging, and immunohistochemical characteristics of focal cortical dysplasia Type II extratemporal epilepsies in children: analyses of an institutional case series. *J Neurosurg Pediatr.* 2017 Feb;19(2):182-195.
4. Ryall S, Krishnatry R, Arnoldo A, Buczkowicz P, Mistry M, Siddaway R, Ling C, Pajovic S, Yu M, Rubin JB, Hukin J, Steinbok P, Bartels U, Bouffet E, Tabori U, Hawkins C. Targeted detection of genetic alterations reveal the prognostic impact of H3K27M and MAPK pathway aberrations in paediatric thalamic glioma. *Acta Neuropathol Commun.* 2016 Aug 31;4(1):93.
5. Wilbur C, Sanguansermisri C, Chable H, Anghelina M, Peinhof S, Anderson K, Steinbok P, Singhal A, Datta A, Connolly MB. Manifestations of Tuberous Sclerosis Complex: The Experience of a Provincial Clinic. *Can J Neurol Sci.* 2017 Jan;44(1):35-43.
6. Kestle JR, Holubkov R, Douglas Cochrane D, Kulkarni AV, Limbrick DD Jr, Luerssen TG, Jerry Oakes W, Riva-Cambrin J, Rozzelle C, Simon TD, Walker ML, Wellons JC 3rd, Browd SR, Drake JM, Shannon CN, Tamber MS, Whitehead WE; Hydrocephalus Clinical Research Network. A new Hydrocephalus Clinical Research Network protocol to reduce cerebrospinal fluid shunt infection. *J Neurosurg Pediatr.* 2016 Apr;17(4):391-6.
7. Steinbok P: Letter to the editor re: citations for the literature on spontaneous spinal epidural hematoma by Babayev et al. (2016). *Childs Nerv Syst.* 2016 Jun;32(6):1019.
8. Steinbok P: Letter to the editor Re: Singh I et al.: growing skull fractures: guidelines for early diagnosis and surgical management (2016). *Childs Nerv Syst.* 2017 Jan;33(1):13. 2016 Sep 9. [Epub ahead of print]
9. Steinbok P: (2017). Letter to editor re: Sredni et al.: spontaneous involution of pediatric low-grade gliomas: high expression of cannabinoid receptor 1 (CNR1) at the time of diagnosis may indicate involvement of the endocannabinoid system (2016). *Childs Nerv Syst.* 2017 Mar;33(3):393

**Patrick  
McDonald**

1. Somji M, Zeiler FA, McDonald PJ, Kaderali Z: Endovascular management of a complex internal carotid artery dissection in an adolescent. *Interdisciplinary Neurosurg* 6:4-7, 2016.
2. Hansen G, McDonald PJ, Martin D, Vallance JK: Pre-Trauma Centre management of intracranial pressure in severe pediatric TBI. *Pediatric Emergency Care* 2016 June 2(epub ahead of print)
3. Ellis MJ, McDonald PJ, Cordingley D, Mansouri B, Ritchie L: Retirement from sport- Considerations following pediatric sports-related concussion: Case illustrations and institutional approach. *Neurosurg Focus* 40(4):E8, 2016.
4. Ellis MJ, Ritchie L, Selci E, Chu S, McDonald PJ, Russell K: Googling concussion care: a critical appraisal of online concussion healthcare providers and practices in Canada. *Clin J Sport Med* 2016 (epub ahead of print)
5. Ellis MJ, Leiter J, Hall T, McDonald PJ, Sawyer S, Silver N, Bunge M, Essig M: Pediatric sports-related concussions (response to letter to the editor) *J Neurosurg Pediatrics* 17(5):633-634, 2016.

## DIVISION OF PEDIATRIC NEUROSURGERY

2017-2018



## FACULTY MEMBERS:



Dr. Patrick McDonald, Division Head



Dr. Ash Singhal



Dr. Paul Steinbok



Dr. Mandeep Tamber

## STAFF MEMBERS:

*Ms. Helen McGregor, Administrative Manager*

*Mr. Alexander Cheong, Research Coordinator*

*Dr. Vesna Popovska, Research Manager*

# ACHIEVEMENTS AND ONGOING PROJECTS:

## DR. TAMBER

I am working towards the establishment of a national rare disease registry focusing on pediatric epilepsy surgery patients. The registry is intended to be the centerpiece of a clinical research network that aims to conduct field-changing methodologically rigorous prospective research. The high-quality research facilitated by a well-designed and supported epilepsy surgery registry will generate knowledge that will inform best practice, facilitate practice standardization and enable continuous quality improvement. Insights gained from the process of establishing this registry will be of great value in the design and execution of other rare neurologic disease surgical registries.

## DR. MCDONALD

I am a faculty member at Neuroethics Canada at UBC, where our work centers on the ethical issues arising from the adoption of novel neurotechnologies to treat both adult and pediatric patients. In conjunction with Technical Safety BC as well as colleagues at the University of Toronto, we are investigating how patients and clinicians make decisions regarding neuromodulatory and neuroablative treatments for psychiatric illness. In addition, we are about to begin a multinational, multicenter study, run out of UBC and BC Children's Hospital, of how and why clinicians and parents decide to stop a novel intervention for the treatment of drug resistant epilepsy.

## DR. STEINBOK

June 14-15, 2017- Visiting Professor and Kenneth Till lectureship – Great Ormond Street Hospital, London, UK. Lecture: Occult spinal dysraphism – fact or fancy?

## 01 TEACHING ACTIVITIES

### *PEDIATRIC NEUROSURGERY:*

#### *FELLOWS SUPERVISED*

- *Dr. Yahya Khormi*
- *Dr. Navneet Singh*

#### *RESIDENTS SUPERVISED*

- *Dr. Ronette Goodluck*
- *Dr. Serge Makarenko*

#### *STUDENTS SUPERVISED*

- *Vivian Braithwaite (McDonald)*
- *Brian Renne (Steinbok)*
- *Farah Khan (Singhal)*

## 02 SCHOLARLY & PROFESSIONAL ACTIVITIES

### *PRESENTATIONS*

#### *Patrick McDonald*

- Course Chair: Pediatric Neurosurgery- Canadian Neurosciences Federation Annual Congress, Victoria, BC, **June 22, 2017**.
- International Federation of Neuroendoscopy- Hands on workshop on cerebral and ventricular endoscopy, Naples, Italy- **January 22-24, 2018**- Invited Faculty
- Innovations and Challenges in Recruiting Children with Neurodevelopmental Disorders in Research- Cecil Green Park House, UBC- **February 18, 2018**.
- Neuroethics Solutions for the Neurotechnology Industry- **March 12, 2018**- Peter Wall Institute for Advanced Studies, UBC- Ethical Frameworks

#### *Ash Singhal*

- Challenges in Pediatric Traumatic Brain Injury. Pediatric Section – Trauma Association of Canada **2018** – Toronto.
- High Acuity Low Occurrences – Challenges in Maintenance of Competency. Pediatric Section – Trauma Association of Canada **2017** – Halifax
- Selective Dorsal Rhizotomy – Overview. Canadian Neurosciences Federation Annual Meeting – Victoria BC – **2017**.

#### *Mandeep Tamber*

- Pediatric Guidelines Update: Plagiocephaly (published) and Spina Bifida (in process). 2017 Annual Meeting of the Congress of Neurological Surgeons (CNS), Boston, MA, October 10, 2017.
- Insightful Cases in Pediatric Epilepsy Surgery. 45th Annual Meeting of the International Society for Pediatric Neurosurgery (ISPN), Denver, CO, October 8, 2017.

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES

## PRESENTATIONS

**PAUL  
STEINBOK**

- **May 22-26, 2017** Invited faculty – ESPN course – Lowenstein, Germany 1) Parenchymal step: tips and tricks of parenchymal manipulation, coagulation, and dissection 2) How we prevent infections in Neurosurgery 3) Why and what a pediatric neurosurgeon needs to know to manage spasticity: definitions, principles and algorithms, surgical candidates, patients' selection 4) "Pineal region: critical analysis of pros and cons of different approaches" 5) Solve a Case Session on spasticity 6) Video session – callosotomy
- **June 12-13, 2017** Keynote speaker at "Spine 2017" – London U.K. 1) The spectrum of spinal dysraphism 2) Chiari I malformation – should one open the dura during decompression?
- **Sept 9-10, 2017** Invited faculty - ISPN course, Kuala Lumpur, Malaysia: 1) Callosotomy 2) Hemispheric surgery for epilepsy 3) Evaluation for epilepsy surgery 4) Classification of spinal dysraphism 5) Craniopharyngioma management strategies 6) Craniosynostosis case discussion
- **Nov 30, 2017** Invited faculty – Comprehensive Clinical Neurosurgery Review. Krakow, Poland 1) Brain tumors in children 2) Hydrocephalus 3) Pineal region tumors 4) Chiari malformation 5) Spinal dysraphism 6) Craniosynostosis 7) Intracranial cysts 8) Oral exams – sessions on 4 different topics – posterior fossa tumors, spastic CP epilepsy surgery and skull lesions
- **Feb 21-23, 2018** Invited faculty – Annual International Conference of Children's Cancer Hospital – 57357: Current advances in Pediatric neurosurgery. 1) Aplasia cutis of scalp 2) Craniosynostosis diagnosis and management 3) Cerebellar astrocytoma 4) Craniopharyngioma long term outcomes

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
<b>MASES Engagement Fund</b>	Developing a Peer Support Network for Pediatric Neurosurgery		\$5000	2018	Singhal McDonald	
<b>Technical Safety BC</b>	Ensuring safety at the cutting edge of technology		\$42,000	2018	McDonald Judy Illes	
<b>National Institutes of Health-US (NINDS)</b>	Targeting the CSF microbiota to optimize CSF shunt infection treatment		\$340,000 (USD)	2016-2021	Tamara Simon-University of Washington	McDonald (site investigator)
<b>Patient-Centered Outcomes Research Institute</b>	A randomized controlled trial of anterior vs. posterior entry site for CSF shunt insertion		\$628,500 (USD)	2015-2018	William Whitehead-Baylor College of Medicine	McDonald (site investigator)

## COMMITTEE PARTICIPATION

<b>Patrick McDonald</b>	<i>Ethics Committee- Royal College of Physicians and Surgeons of Canada</i> <i>Neurosurgery Specialty Committee- Royal College of Physicians and Surgeons of Canada</i> <i>Neurosurgery Examination Committee- Royal College of Physicians and Surgeons of Canada</i> <i>Canadian Neurosurgical Society- Vice President</i> <i>Canadian Neurosciences Federation- Board Member</i> <i>PHSA Power Tools Committee</i> <i>Procedural Pain Management Privileging Committee, CPSBC</i> <i>Surgical Cabinet- Department of Surgery, BC Children's Hospital</i> <i>Surgical Suites Advisory Committee- BC Children's Hospital</i> <i>Ambulatory Leadership Committee- BC Children's Hospital</i> <i>Kuwaiti Institute of Medical Specialists- Neurosurgery exam board</i>
<b>Ash Singhal</b>	<i>Trauma Steering Committee, BCCH – Co-Chair (Medical Director)</i> <i>Surgical Foundations Examination Committee – Royal College of Physicians and Surgeons of Canada – Chair</i> <i>Surgical Foundations Advisory committee – Royal College of Physicians and Surgeons of Canada – Member</i> <i>Kuwaiti Institute of Medical Specialists – Surgical Foundations Examination Board – Member</i> <i>Parachute Canada – Board of Directors – Member</i> <i>Trauma Association of Canada – Pediatric Section – Chair</i> <i>International Society for Pediatric Neurosurgery – Communications Chair</i> <i>Child's Nervous System (Journal) - Editor</i>
<b>Mandeep Tamber</b>	<i>Mortality Review Committee, BC Children's Hospital</i> <i>AANS/CNS Joint Guidelines Committee (JGC) – Member</i> <i>Pediatric Spina Bifida Evidence Review Taskforce of the AANS/CNS Joint Guidelines Committee (JGC)</i> <i>Member, Medical Advisory Board, Hydrocephalus Association</i>



## REFERRED PUBLICATIONS

**ASH SINGHAL**

4. International survey on the management of Chiari 1 malformation and syringomyelia: evolving worldwide opinions. Singhal A, Cheong A, Steinbok P. *Childs Nerv Syst*. 2018 Jun;34(6):1177-1182. doi: 10.1007/s00381-018-3741-x. Epub 2018 Mar 12.
5. Bobble-head doll syndrome: report of 2 cases and a review of the literature, with video documentation of the clinical phenomenon. Renne B, Rueckriegel S, Ramachandran S, Radic J, Steinbok P, Singhal A. *J Neurosurg Pediatr*. 2018 Mar;21(3):236-246
6. Challenges in minor TBI and indications for head CT in pediatric TBI- an update. Singh N, Singhal A. *Childs Nerv Syst*. 2017 Oct;33(10):1677-1681.
7. State of global pediatric neurosurgery outreach: survey by the International Education Subcommittee. Davis MC, Rocque BG, Singhal A, Ridder T, Pattisapu JV, Johnston JM Jr. *J Neurosurg Pediatr*. 2017 Aug;20(2):204-210.
8. Manifestations of Tuberous Sclerosis Complex: The Experience of a Provincial Clinic. Wilbur C, Sanguansermisri C, Chable H, Anghelina M, Peinhof S, Anderson K, Steinbok P, Singhal A, Datta A, Connolly MB. *Can J Neurol Sci*. 2017;44(1):35-43.

**PAUL  
STEINBOK**

10. Renne B, Rueckriegel S, Ramachandran S, Radic J, Steinbok P, Singhal A. Bobble-head doll syndrome: report of 2 cases and a review of the literature, with video documentation of the clinical phenomenon. *J Neurosurg Pediatr*. 2018 Mar;21(3):236-246. doi: 10.3171/2017.9.PEDS16704. Epub 2018 Jan 5.

**Patrick  
McDonald**

6. de Lotbiniere-Basset M, McDonald PJ: Industry Financial Relationships in Neurosurgery in 2015: Analysis of the Sunshine Act Open Payments Database. *World Neurosurgery* (114:e920-e925, 2018)
7. Singh N, McDonald PJ: Transitioning in hydrocephalus: Current practices in Canadian Pediatric Neurosurgery centres. *Paediatr Child Health* (2018, epub ahead of print)
8. Ellis MJ, Barnes J, Cordingley DM, Bunge M, McDonald PJ, Ritchie L: Management of an athlete with sports-related concussion and intraparenchymal hemorrhage. *Curr Sports Med Rep* 17(1):7-9, 2018.
9. Makarenko S, Singh N, McDonald PJ: Nonsurgical transient cerebellar mutism- Case report and systematic review. *Childs Nerv Syst* 34(3):535-540, 2018.
10. Mutch WA, Ellis MJ, Ryner LN, McDonald PJ, Morissette MP, Pries P, Essig M, Mikulis DJ, Duffin J, Arnold Fisher J: Patient-specific alterations in CO2 cerebrovascular responsiveness in sub-acute sports-related concussion. *Front Neurol* 9:23, Jan 24, 2018 doi: 10.3389/fneur.2018.00023
11. Iles J, McDonald PJ: Head transplants: Ghoulishness takes on new meaning. *AJOB Neuroscience* 8(4):211-12, 2017.
12. McDonald PJ: Medical Assistance in Dying- what does it mean for Neurologists and Neurosurgeons? *Can J Neurol Sci* 44(6):629-30, 2017
13. Ellis MJ, Ritchie L, Selci E, Grossi S, Frost S, McDonald PJ, Russell K: Googling concussion care in the United States: a critical appraisal of online concussion care providers. *Concussion* 2(2):1-8 <https://doi.org/10.2217/cnc-2016-0027>, 2017.
14. Ellis MJ, Ritchie L, McDonald PJ, Cordingley D, Reimer K, Nijjar S, Mansouri B, Sawyer S, Silver N, Girardin R, Larkins S, Vis S, Selci E, Davidson M, Gregoire S, Sam A, Black B, Bunge M, Essig M, MacDonald P, Leiter J, Russell K: Multi-disciplinary management of pediatric sports-related concussion. *Can J Neurol Sci* 44(1):24-34, 2017.
15. Mansouri A, Witiw CD, Badhiwala JH, Nassiri F, McDonald PJ, Kulkarni AV, Zadeh G, Kondziolka D: National perspectives on the training of neurosurgery residents in stereotactic radiosurgery. *Can J Neurol Sci* 44(1):51-58, 2017.



## REFERRED PUBLICATIONS

**Dr.  
Mandeep  
Tamber**

1. Simon TD, Kronman MP, Whitlock KB, Browd SR, Holubkov R, Kestle JRW, Kulkarni AV, Langley M, Limbrick DD, Luerssen TG, Oakes J, Riva-Cambrin J, Rozzelle C, Shannon CN, Tamber MS, Wellons JC, Whitehead WE, Mayer-Hamblett N. Patient and Treatment Characteristics by Infecting Organism in Cerebrospinal Fluid (CSF) Shunt Infection. *J. Pediatric Infect. Dis. Soc.*, 2018. [PMID: 29771360]
2. Simon T, Kronman M, Whitlock K, Gove N, Hamblett N, Browd S, Cochrane D, Holubkov R, Kulkarni A, Langley M, Limbrick D, Luerssen T, Oakes J, Riva-Cambrin J, Rozzelle C, Shannon C, Tamber MS, Wellons J, Whitehead W, Kestle J. Reinfection after treatment of first cerebrospinal fluid (CSF) shunt infection: a prospective observational cohort study. *Journal of Neurosurgery: Pediatrics*, 21:346-358, 2018. [PMID: 29393813]
3. Haredy M, Zuccoli G, Tamber MS, Davis A, Nischal K, Goldstein JA. Use of Neuroimaging Measurements of Optic Nerve Sheath Diameter to Assess Intracranial Pressure in Craniosynostosis. *Childs Nerv. Syst.*, 34:939-946, 2018. [PMID: 29380112]
4. Kulkarni AV, Riva-Cambrin J, Rozzelle CJ, Naftel RP, Alvey JS, Reeder RW, Holubkov R, Browd SR, Cochrane DD, Limbrick DD Jr, Simon TD, Tamber MS, Wellons JC 3rd, Whitehead WE, Kestle JRW. Endoscopic Third Ventriculostomy and Choroid Plexus Cauterization in Infant Hydrocephalus: A Prospective Study by the Hydrocephalus Clinical Research Network. *Journal of Neurosurgery: Pediatrics*, 21:214-223, 2018. [PMID: 29243972]
5. Utz M, Tamber MS, Mason GE, Pollack IF, Panigrahy A, Zuccoli G. Contrast-Enhanced 3-Dimensional Fluid Attenuated Inversion Recovery Sequences Have Greater Sensitivity for Detection of Leptomeningeal Metastases in Pediatric Brain Tumors Compared to Conventional Spoiled Gradient Echo Sequences. *J. Pediatr. Hematol. Oncol.*, 40:316-319, 2018. [PMID: 28902082]
6. Ruane E, Camison L, Fenton R, Pollack I, Tamber MS, Grunwaldt L, Davit A, Losee J, Goldstein JA. A Treatment Algorithm for Patients Presenting with Sagittal Craniosynostosis after the Age of One Year. *Plastic and Reconstructive Surgery*, 140:582-590, 2017. [PMID: 28841620]
7. Zuccoli G, Khan AS, Panigrahy A, Tamber MS. In vivo Demonstration of Traumatic Rupture of the Bridging Veins in Abusive Head Trauma. *Pediatr. Neurol.*, 72:31-35, 2017. [PMID: 28465135]
8. Wellons J, Shannon C, Holubkov R, Riva-Cambrin J, Kulkarni A, Limbrick D, Whitehead W, Browd S, Rozzelle C, Simon T, Tamber MS, Oakes J, Drake J, Luerssen T, Kestle J. Shunting outcomes in post-hemorrhagic hydrocephalus: results of a Hydrocephalus Clinical Research Network prospective cohort study. *Journal of Neurosurgery: Pediatrics*, 20:19-29, 2017. [PMID: 28452657]
9. Mountz J, Patterson CM, Tamber MS. Pediatric Epilepsy: Neurology, Functional Imaging, and Neurosurgery. *Seminars in Nuclear Medicine*, 47:170-187, 2017. [PMID: 28237005]
10. Whitehead WE, Riva-Cambrin J, Kulkarni AV, Wellons JC 3rd, Rozzelle CJ, Tamber MS, Limbrick DD Jr, Browd SR, Naftel RP, Shannon CN, Simon TD, Holubkov R, Illner A, Cochrane DD, Drake JM, Luerssen TG, Oakes WJ, Kestle JR for the Hydrocephalus Clinical Research Network. Ventricular catheter entry site and not catheter tip location predicts shunt survival: a secondary analysis of 3 large pediatric hydrocephalus studies. *Journal of Neurosurgery: Pediatrics*, 19:157-167, 2017. [PMID: 27813457]
11. Zhu X, McDowell MM, Newman WC, Mason GE, Greene S, Tamber MS. Severe cerebral edema following nivolumab treatment for pediatric glioblastoma: case report. *Journal of Neurosurgery: Pediatrics*, 19:249-253, 2017. [PMID: 27858578]

## DEPARTMENT OF PEDIATRIC ORTHOPAEDIC SURGERY

2016-2017



### FACULTY MEMBERS:

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

**STAFF MEMBERS:**

- *Brenda Whitworth, Administrative Secretary*
- *Emily Schaeffer, Research for Dr. Reilly and Dr. Mulpuri*
- *Tammie Teo, Research for Drs. Reilly and Dr. Mulpuri*
- *Roya Yamini, Research for Dr. Cooper*
- *Harpreet Chhina, Research for Dr. Alvarez and Dr. Cooper*
- *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**

Stephen J Tredwell Visiting Professor Education Day, Dr. Charles E. Johnston, Visiting Professor, Department of Pediatric Orthopaedic Surgery, CFRI, Vancouver, BC, October 14, 2016

**Dr. Mulpuri**

Best e-Poster Award, Pediatric Orthopaedic Society of North America Annual Meeting, April 27-30, 2016.

Best Evidence for Pediatrics, Canadian Orthopaedic Association Annual Meeting, June 16-19, 2016.

**Dr. Cooper**

AAOS/OREF/ORS Clinician Scholar Career Development Program, AAOS (American Academy of Orthopaedic surgeons)

2016 STELLA Scholarship Award – “LLRS Travelling Fellowship”, OPSEI (The Office of Pediatric Surgical Evaluation and Innovation), C&W Health Centre

2016 Limb Lengthening and Reconstruction Society Travelling Fellowship

2016 Investigator Grant Award Program Award – “Limb Length Reconstruction Program” CFRI (Child & Family Research Institute), C&W Health Care Centre, Vancouver, BC

**Dr. Miyanji**

Best Poster Award – “Perioperative and Delayed Major Complications following Surgical Correction of AIS in 3,530 Patients”, AAOS (American Academy of Orthopaedic Surgeons) Annual Meeting, Orlando FL, USA

Best E-Poster Award – “Management of Displaced Supracondylar Fractures of the Humerus Using Lateral versus Crossed K Wires: A Prospective Randomized Trial”, POSNA (Pediatric Orthopaedic Society of North America) Annual Meeting, Indianapolis IN, USA

**Dr. Lise Leveille**

2016 STELLA Scholarship Award – “Awarded to members of the pediatric surgical Team to fund learning opportunities to develop leading edge methods for the Provision of surgical care to children in British Columbia”. OPSEI (The Office of Pediatric Surgical Evaluation and Innovation), C&W Health Centre, Vancouver, BC

## Presentations April 1, 2016 to March 31, 2017

Dr.  
Reilly

### PRESENTATIONS PROVIDED IN ORTHOPAEDICS:

- “Upper extremity injuries – Pediatric”, Juan de Fuca 2015 Meeting: Delayed Diagnosis / Missed Injuries: Upper & Lower Extremity & Spine, Victoria, BC, April 18, 2016
- Pediatric Orthopaedic Society of North America Annual Meeting, Indianapolis IN, April 27-30, 2016
- “Developmental dysplasia of the hip and laterality: The importance of graded severity of the contralateral hip.” Schaeffer EK, Price CT, Mulpuri K, IHDI Study Group.
- Comparison of an Automatic Technique to Current Practice in Calculating Dysplasia Metrics in 2D Ultrasound Images of the Neonatal Hip.” Quader N, Schaeffer EK, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- “Management of Displaced Supracondylar Fractures of the Humerus Using Lateral versus Crossed K Wires: A Prospective Randomized Trial.” Podium Presentation: Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C
- UBC Department of Orthopaedics Ortho Update, Ashlee Dobbe, May 4, 2016
- “A Clinical Prediction Model for Growth Arrest in Pediatric Physeal Fractures”, Kishore Mulpuri, Rubini Pathy, Emily K Schaeffer, Anthony Cooper, Christopher Reilly
- “Posterior vertebral column resection in paediatric deformity: The advantages of staging”, Andrea Simmonds
- “Developmental dysplasia of the hip and laterality: The Importance of graded severity of the contralateral hip”, Emily Schaeffer
- “Interobserver and Intraobserver Reliability of the Modified Waldenström Classification System for Staging of Legg-Calvé-Perthes Disease”, Perthes disease to discuss concepts and current thinking on LCPD, Joshua E Hyman, Ortho Journal Club, June 2, 2016
- Ortho’s EOS Tour and Plaque unveiling, BCCHF, June 10, 2016
- Canadian Orthopaedic Association Annual Meeting, Quebec City, QC, June 16-19, 2016.
- “Misinterpretation of “Negative” Results of Superiority Trials in Orthopaedic Literature: The Need for Non-inferiority Trials.” Larouche P, Andrade J, Reilly C, Mulpuri K.
- “Developmental Dysplasia of the Hip and Laterality: The Importance of Graded Severity of the Contralateral Hip.” Schaeffer EK, Price C, Mulpuri K, IHDI Study Group.
- “Investigating Caregiver Perspectives on Health Status and Comfort in Children with Cerebral Palsy Undergoing Surgery for Hip Displacement.” Mulpuri K, Miller S, Schaeffer EK, Juricic M, Hesketh K.
- “Automatic evaluation of scan adequacy and dysplasia metrics in 2d ultrasound images of the neonatal hip.” Schaeffer EK, Quader N, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- “Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: A prospective randomized trial.” Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly CW. \*Awarded Best Evidence for Pediatrics by COA Annual Meeting
- Poster Presentation: “Use of weight-bearing MRI in Legg-Calvé-Perthes Disease: A Pilot Study.” Aarvold A, Fortes C, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP
- ABC Traveling Fellows, Academic Session, Organizer: Dr. Bas Masri/Dr. Kishore Mulpuri, Presenter: “Paediatric Orthopaedics”, Presenter: Dr. Christopher Reilly, UBC Dept of Orthopaedics, June 20, 2016
- SRS IMAST 2016, Seattle, WA, July 13 – 16, 2016
- Stephen J Tredwell Visiting Professor Education Day, Dr. Charles E. Johnston, Visiting Professor, Department of Pediatric Orthopaedic Surgery, Held @ CFRI, Vancouver, BC, October 14, 2016
- “Cervical Spine Deformities in Children”, Dr. C. Johnston
- “International Bone Health Collaborative Trip Report”, Dr. K. Mulpuri, Dr. A. Cooper
- “Management of Congenital Instability of Knee, Dr. C. Johnston
- “Shriner’s Gait Lab on the Frontier: clinical, research and the big move West”, Dr. L. Leveille
- “Unsolved or Impossible Problems in Pediatric Orthopaedics – Pterygia and overgrowth, NF and CLOVES”, Dr. C. Johnston
- “Spinal Tethering, the BCCH Experience”, Dr. F. Miyanji
- “Case Presentations” (Ortho Fellows)



## Presentations April 1, 2016 to March 31, 2017 con't

### **PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't:**

#### Dr. Reilly

- Stella Scholarship Presentations - OPSEI Rounds, Moderator: Dr. Christopher Reilly, September 6, 2016
- "Limb Lengthening and Reconstruction Society Travelling Fellowship", Speaker: Dr. Anthony Cooper
- "Gait Analysis, Leuven and a Beguine – What are they and what do they have in common?" Speaker: Dr. Lise Leveille
- CPOG 3rd Trans-Canada Web Rounds, October 4, 2016
- "Musculoskeletal Infections and their Sequelae",
- Organized by CFRI (Ivan Cepeda: icepeda@cfri.ca)
- Panelists: Reggie Hamdy, Chief of Staff, Shriner's Hospital for Children Montreal, Luke Gauthier, Paediatric Orthopaedic Surgeon, IWK Health Centre, Chris Reilly, Chief of Orthopaedics, BC Children's Hospital
- Invited Speaker: "Spinal Deformity in Duchene's Muscular Dystrophy, The Plane Has Changed". International Pediatric Orthopaedic Think Tank Annual Meeting, Texas USA, October 20-22, 2016
- Resident Oral Exams – VGH, November 3, 2016
- E2i Research Day & Discovery Talk, Dr. Mohit Bhandari, Visiting Surgeon, November 24, 2016
- Canadian Spine Society, Montreal, Quebec Canada, Feb 2017
- "Assessing the risk/benefit ratio of surgery in CP: is surgery worth it?" Miyanji F, Shah S, Samdani A, Lonner B, Yaszay B, Asghar J, Clements D, Newton P.
- "The psychosocial impact of AIS: any need for concern?" Miyanji F, Desai S, Samdani A, Shah S, Lonner B, Newton P.
- "The rate and risk of curve progression following skeletal maturity - does the story end with curve magnitude?" Miyanji F, Reilly C, Shah S, Clements D, Samdani A, Desai S, Lonner B, Shuffelbarger H, Betz R, Newton P.
- "Comparative cost analysis of conventional and magnetic controlled growing rods in early-onset scoliosis – a single center experience." Ghag A, Nasto LA, Habib E, Reilly CW, Miyanji F.
- "Comparative analysis of static and dynamic intraoperative skull-femoral traction (IOSFT) in adolescent idiopathic scoliosis (AIS) correction." Ghag A, Tang Y, Desai S, Reilly CW, Miyanji F.
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#### Dr. Alvarez

- Pediatric Orthopaedic Society of North America Annual Meeting, Indianapolis IN, April 27-30, 2016
- "Developmental dysplasia of the hip and laterality: The importance of graded severity of the contralateral hip." Schaeffer EK, Price CT, Mulpuri K, IHDI Study Group.
- Comparison of an Automatic Technique to Current Practice in Calculating Dysplasia Metrics in 2D Ultrasound Images of the Neonatal Hip." Quader N, Schaeffer EK, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- "Management of Displaced Supracondylar Fractures of the Humerus Using Lateral versus Crossed K Wires: A Prospective Randomized Trial." Podium Presentation: Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C
- Canadian Orthopaedic Association Annual Meeting, Quebec City, QC, June 16-19, 2016.
- "Misinterpretation of "Negative" Results of Superiority Trials in Orthopaedic Literature: The Need for Non-inferiority Trials." Larouche P, Andrade J, Reilly C, Mulpuri K.
- "Developmental Dysplasia of the Hip and Laterality: The Importance of Graded Severity of the Contralateral Hip." Schaeffer EK, Price C, Mulpuri K, IHDI Study Group.
- "Investigating Caregiver Perspectives on Health Status and Comfort in Children with Cerebral Palsy Undergoing Surgery for Hip Displacement." Mulpuri K, Miller S, Schaeffer EK, Juricic M, Hesketh K.
- "Automatic evaluation of scan adequacy and dysplasia metrics in 2d ultrasound images of the neonatal hip." Schaeffer EK, Quader N, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- "Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: A prospective randomized trial." Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly CW.
- \*Awarded Best Evidence for Pediatrics by COA Annual Meeting
- Poster Presentation: "Use of weight-bearing MRI in Legg-Calvé-Perthes Disease: A Pilot Study." Aarvold A, Fortes C, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP
- Stephen J Tredwell Visiting Professor Education Day, Dr. Charles E. Johnston, Visiting Professor, Department of Pediatric Orthopaedic Surgery, Held @ CFRI, Vancouver, BC, October 14, 2016

## Presentations April 1, 2016 to March 31, 2017 con't

### PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't:

Dr. Alvarez

- "Cervical Spine Deformities in Children", Dr. C. Johnston
- "International Bone Health Collaborative Trip Report", Dr. K. Mulpuri, Dr. A. Cooper
- "Management of Congenital Instability of Knee, Dr. C. Johnston
- "Shriner's Gait Lab on the Frontier: clinical, research and the big move West", Dr. L. Leveille

Dr. Mulpuri

- "Unsolved or Impossible Problems in Pediatric Orthopaedics – Pterygia and overgrowth, NF and CLOVES", Dr. C. Johnston
- "Use of weight-bearing MRI in Legg–Calvé–Perthes Disease: A Pilot Study." Aarvold A, Fortes C, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP.
- Pediatric Orthopaedic Society of North America Annual Meeting, Indianapolis IN, April 27-30, 2016
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- "Management of Displaced Supracondylar Fractures of the Humerus Using Lateral versus Crossed K Wires: A Prospective Randomized Trial." Podium Presentation: Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C
- UBC Department of Orthopaedics Ortho Update, Ashlee Dobbe, May 4, 2016
- "A Clinical Prediction Model for Growth Arrest in Pediatric Physeal Fractures", Kishore Mulpuri, Rubini Pathy, Emily K Schaeffer, Anthony Cooper, Christopher Reilly
- "Posterior vertebral column resection in paediatric deformity: The advantages of staging", Andrea Simmonds
- "Developmental dysplasia of the hip and laterality: The Importance of graded severity of the contralateral hip", Emily Schaeffer
- The 2016 International Meeting of Computer Assisted Orthopedic Surgery Society (CAOS), Osaka, Japan, June 8-11 2016.
- "A Reliable Automatic 2D Measurement for Developmental Dysplasia of the Hip." Quader N, Hodgson A, Mulpuri K, Cooper A, Schaeffer E, Abugharbieh R.
- Canadian Orthopaedic Association Annual Meeting, Quebec City, QC, June 16-19, 2016.
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- "Automatic evaluation of scan adequacy and dysplasia metrics in 2d ultrasound images of the neonatal hip." Schaeffer EK, Quader N, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- "Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: A prospective randomized trial." Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly CW. \*Awarded Best Evidence for Pediatrics by COA Annual Meeting
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- ABC Traveling Fellows, Academic Session, Organizer: Dr. Bas Masri/Dr. Kishore Mulpuri, Presenter: "Paediatric Orthopaedics", Presenter: Dr. Christopher Reilly, UBC Dept of Orthopaedics, June 20, 2016
- Visiting Professor: Pediatric Orthopaedics. Vijayawada Orthopaedic Society, India, August 19, 2016.
- ASAMI-BR International Congress, Brisbane, Australia, September 20-24, 2016
- "Techniques for reducing pin site infections in pediatric limb lengthening." Podium presentation: Chhina H, Eugenio A, Mulpuri K, Cooper A.

## Presentations April 1, 2016 to March 31, 2017 con't

### PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't:

#### Dr. Mulpuri

- "Intravenous Lidocaine reduces post-operative pain and opiate requirements in patients undergoing external fixation." Podium presentation: Koo W, Chhina H, Cooper A.
- "Inter- and Intraobserver Reliability of the Pixel Value Ratio, Ru Li and Donnan Classifications of Regenerate Quality in Pediatric Limb Lengthening." Podium presentation: Archer L, Dobbe A, Chhina H, Velásquez HA, Cooper A.
- "Management of Congenital Instability of Knee, Dr. C. Johnston
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- "Spinal Tethering, the BCCH Experience", Dr. F. Miyanji
- "Case Presentations" (Ortho Fellows)
- Medical Image Computing and Computer Assisted Intervention (MICCAI), Athens-Greece, October 17-21, 2016.
- "Towards Reliable Automatic Characterization of Neonatal Hip Dysplasia from 3D Ultrasound Images." Quader N, Hodgson A, Mulpuri K, Cooper A, Abugharbieh R.
- Resident Oral Exams – VGH, November 3, 2016
- E2i Research Day & Discovery Talk, Dr. Mohit Bhandari, Visiting Surgeon, November 24, 2016
- Invited Lecturer: Pediatric Orthopaedics. MECH 435/535 Orthopaedic Biomechanics Course, University of British Columbia. Vancouver, BC, Nov 28, 2016
- Guest Lecturer: "Guidelines on Management of Developmental Dysplasia of the Hip" Hyderabad Pediatric Association, Hyderabad IN, January 2017

#### Dr. Miyanji

- Reilly C. "The Rate and Risk of Curve Progression following skeletal Maturity – Does the story end with curve magnitude?" (Presenter: Miyanji F). American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada, April 2016
- Pediatric Orthopaedic Society of North America Annual Meeting, Indianapolis IN, April 27-30, 2016
- "Developmental dysplasia of the hip and laterality: The importance of graded severity of the contralateral hip." Schaeffer EK, Price CT, Mulpuri K, IHDI Study Group.
- Comparison of an Automatic Technique to Current Practice in Calculating Dysplasia Metrics in 2D Ultrasound Images of the Neonatal Hip." Quader N, Schaeffer EK, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- "Management of Displaced Supracondylar Fractures of the Humerus Using Lateral versus Crossed K Wires: A Prospective Randomized Trial." Podium Presentation: Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C
- Pediatric Orthopaedic Society of North America Annual Meeting, Indianapolis IN USA, Apr 2016
- "Does correction of pelvic obliquity result in improved outcomes and sitting tolerance for patients with cerebral palsy scoliosis?" Pahys J, Miyanji F, Yaszay B, Samdani A, Cahill P, Abel M, Sponseller P, Shah S.
- "Perioperative and delayed major complications following surgical correction of AIS in 3,530 patients." Bartley C, Yaszay B, Bastrom T, Shah S, Lonner B, Asghar J, Miyanji F, Samdani A, Newton P
- UBC Department of Orthopaedics Ortho Update, Ashlee Dobbe, May 4, 2016
- "A Clinical Prediction Model for Growth Arrest in Pediatric Physeal Fractures", Kishore Mulpuri, Rubini Pathy, Emily K Schaeffer, Anthony Cooper, Christopher Reilly
- "Posterior vertebral column resection in paediatric deformity: The advantages of staging", Andrea Simmonds
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## Presentations April 1, 2016 to March 31, 2017 con't

### **PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't:**

Dr. Miyanji

- "Automatic evaluation of scan adequacy and dysplasia metrics in 2d ultrasound images of the neonatal hip." Schaeffer EK, Quader N, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- "Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: A prospective randomized trial." Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly CW. \*Awarded Best Evidence for Pediatrics by COA Annual Meeting
- Poster Presentation: "Use of weight-bearing MRI in Legg–Calvé–Perthes Disease: A Pilot Study." Aarvold A, Fortes C, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP
- SRS IMAST 2016, Seattle, WA, Abstract Session and Roundtable Sessions, July 13 – 16, 2016
- "Adolescent Idiopathic Scoliosis – Round Table Session", Case Presenter: Dr. Miyanji
- "Analysis of patients with cerebral palsy requiring reoperation after spinal fusion: associated risk factors and impact on quality of life" Samdani A, Stephen J, Orlando G, Pahys J, Betz R, Newton P, Miyanji F, Shah S, Marks M, Yaszay B, Cahill P, Sponseller P.
- Invited Faculty: "MIS Deformity Correction (Adult and Pediatric) – Round Table Session"
- Scoliosis Research Society, Prague Czech Republic, Sept 2016
- "Assessing the risk/benefit ratio of surgery in CP: is surgery worth it?" Miyanji F, Shah S, Samdani A, Lonner B, Yaszay B, Asghar J, Clements D, Newton P.
- "Improving quality and safety in pediatric spine surgery: the team approach." Miyanji F, Desai S, Choi J, Mok J.
- "Analysis of patients with cerebral palsy requiring reoperation after spinal fusion: associated risk factors and impact on quality of life." Samdani A, Stephen J, Orlando G, Pahys J, Betz R, Newton P, Miyanji F, Shah S, Marks M, Yaszay B, Cahill P, Sponseller P.
- "Outcomes of spinal fusion for cervical kyphosis in children with neurofibromatosis." Helenius I, Sponseller P, Mackenzie W, Dormans J, Asghar J, Rathjen K, Pahys J, Miyanji F, Hedequist D, Phillips J.
- "Surgery for the adolescent idiopathic scoliosis patients after skeletal maturity: now or later?" Lonner B, Ren Y, Bess S, Kelly M, Kim HJ, Yaszay B, Lafage V, Miyanji F, Newton P.
- "Major complications at 2 years after surgery impacts SRS scores for adolescent idiopathic scoliosis patients." Yaszay B, Bastrom T, Shah S, Miyanji F, Lonner B, Kelly M, Samdani A, Asghar J, Newton P.
- "Progressive decline in pulmonary function 5 years post-operative in patients who underwent anterior instrumentation for surgical correction of adolescent idiopathic scoliosis" Yaszay B, Bastrom T, Lonner B, Betz R, Shah S, Asghar J, Miyanji F, Samdani A, Newton P.
- Scoliosis Research Society, Prague Czech Republic, Sept 22 2016
- Invited Faculty: Minimally Invasive Spinal Deformity: An Emerging Technological Advance or a Flash in the Pan? Panel Discussion with Cases
- Scoliosis Research Society, Prague Czech Republic, Sept 2016
- Poster Presentation – "Dermabond for wound closure in neuromuscular scoliosis: do the ends justify the costs? A randomized controlled trial." Miyanji F, Desai S, Varghese R, Choi J.
- Stephen J Tredwell Visiting Professor Education Day, Dr. Charles E. Johnston, Visiting Professor, Department of Pediatric Orthopaedic Surgery, Held @ CFRI, Vancouver, BC, October 14, 2016
- "Cervical Spine Deformities in Children", Dr. C. Johnston
- "International Bone Health Collaborative Trip Report", Dr. K. Mulpuri, Dr. A. Cooper
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- "Unsolved or Impossible Problems in Pediatric Orthopaedics – Pterygia and overgrowth, NF and CLOVES", Dr. C. Johnston
- "Spinal Tethering, the BCCH Experience", Dr. F. Miyanji
- "Case Presentations" (Ortho Fellows)
- Canadian Spine Society, Montreal, Quebec Canada, Feb 2017
- "Assessing the risk/benefit ratio of surgery in CP: is surgery worth it?" Miyanji F, Shah S, Samdani A, Lonner B, Yaszay B, Asghar J, Clements D, Newton P.

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#### Dr. Miyanji

- "The psychosocial impact of AIS: any need for concern?" Miyanji F, Desai S, Samdani A, Shah S, Lonner B, Newton P.
- "The rate and risk of curve progression following skeletal maturity - does the story end with curve magnitude?" Miyanji F, Reilly C, Shah S, Clements D, Samdani A, Desai S, Lonner B, Shufflebarger H, Betz R, Newton P.
- "Comparative cost analysis of conventional and magnetic controlled growing rods in early-onset scoliosis – a single center experience." Ghag A, Nasto LA, Habib E, Reilly CW, Miyanji F.
- "Comparative analysis of static and dynamic intraoperative skull-femoral traction (IOSFT) in adolescent idiopathic scoliosis (AIS) correction." Ghag A, Tang Y, Desai S, Reilly CW, Miyanji F.
- Safety in Spine Surgery Summit, New York City NY USA, Feb 2017
- Poster Presentation – "Impact of an accelerated discharge pathway on early outcomes and recovery following posterior spinal fusion for adolescent idiopathic scoliosis: a prospective comparative study." Fletcher ND, Murphy JS, Bush P, Guerreso H, Habib E, Kusomoto H, Schmitz ML, Miyanji F.
- American Academy of Orthopaedic Surgeons, San Diego CA USA, March 2017.
- Poster Presentation – "Assessing the risk/benefit ratio of surgery in CP: is surgery worth it?" Miyanji F, Shah S, Samdani A, Lonner B, Yaszay B, Asghar J, Clements D, Newton P.

#### Dr. Cooper

- 13th Meeting of the Combined Orthopaedic Associations (COMOC 2016), Cape Town, South Africa, April 2016
- "Use of weight-bearing MRI in Legg–Calvé–Perthes Disease: A Pilot Study." Aarvold A, Fortes C, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP.
- Pediatric Orthopaedic Society of North America Annual Meeting, Indianapolis IN, April 27-30, 2016
- "Developmental dysplasia of the hip and laterality: The importance of graded severity of the contralateral hip." Schaeffer EK, Price CT, Mulpuri K, IHDI Study Group.
- Comparison of an Automatic Technique to Current Practice in Calculating Dysplasia Metrics in 2D Ultrasound Images of the Neonatal Hip." Quader N, Schaeffer EK, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- "Management of Displaced Supracondylar Fractures of the Humerus Using Lateral versus Crossed K Wires: A Prospective Randomized Trial." Podium Presentation: Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C
- UBC Department of Orthopaedics Ortho Update, Ashlee Dobbe, May 4, 2016
- "A Clinical Prediction Model for Growth Arrest in Pediatric Physeal Fractures", Kishore Mulpuri, Rubini Pathy, Emily K Schaeffer, Anthony Cooper, Christopher Reilly
- "Posterior vertebral column resection in paediatric deformity: The advantages of staging", Andrea Simmonds
- "Developmental dysplasia of the hip and laterality: The Importance of graded severity of the contralateral hip", Emily Schaeffer
- Research Day/UBC Department of Orthopaedics Update and BCOA Annual Meeting ("Improving Orthopaedic Care and Care Delivery"), Vancouver, Canada, May 6, 2016
- "Minimizing Complications in External Fixation and Limb Lengthening." Podium presentation: Cooper A.
- LLRS Travelling Fellowship, June 2016
- International Institute for Qualitative Methodology: Thinking Qualitatively Workshop Series, Edmonton, Canada, June 2016
- "Understanding the health impact of lower limb deformities on pediatric patients: An interpretive description qualitative study." Chhina H, Klassen A, Kopec J, Cooper A.
- The 2016 International Meeting of Computer Assisted Orthopedic Surgery Society (CAOS), Osaka, Japan, June 2016

## Presentations April 1, 2016 to March 31, 2017 con't

Dr. Cooper

### **PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't:**

- "A Reliable Automatic 2D Measurement for Developmental Dysplasia of the Hip." Quader N, Hodgson A, Mulpuri K, Cooper A, Schaeffer E, Abugharbieh R.
- Canadian Orthopaedic Association Annual Meeting, Quebec City, QC, June 16-19, 2016.
- "Misinterpretation of "Negative" Results of Superiority Trials in Orthopaedic Literature: The Need for Non-inferiority Trials." Larouche P, Andrade J, Reilly C, Mulpuri K.
- "Developmental Dysplasia of the Hip and Laterality: The Importance of Graded Severity of the Contralateral Hip." Schaeffer EK, Price C, Mulpuri K, IHD Study Group.
- "Investigating Caregiver Perspectives on Health Status and Comfort in Children with Cerebral Palsy Undergoing Surgery for Hip Displacement." Mulpuri K, Miller S, Schaeffer EK, Juricic M, Hesketh K.
- "Automatic evaluation of scan adequacy and dysplasia metrics in 2d ultrasound images of the neonatal hip." Schaeffer EK, Quader N, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R.
- "Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: A prospective randomized trial." Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly CW. \*Awarded Best Evidence for Pediatrics by COA Annual Meeting
- Poster Presentation: "Use of weight-bearing MRI in Legg-Calvé-Perthes Disease: A Pilot Study." Aarvold A, Fortes C, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP
- Child and Family Research Institute, Annual Trainee Research Day, Vancouver, Canada, July 2016
- Poster presentation: "Understanding the health impact of lower limb deformities on pediatric patients: An interpretive description qualitative study." Chhina H, Klassen A, Kopec J, Cooper A.
- "Deformity Correction using Taylor Spatial Frames". Workshop, Balaji Institute of Surgery Research and Rehabilitation for the Disabled (BIRRD) Trust Hospital, Tirupati, India, August 9-11, 2016.
- Stella Scholarship Presentations - OPSEI Rounds, Moderator: Dr. Christopher Reilly, September 6, 2016
- "Limb Lengthening and Reconstruction Society Travelling Fellowship", Speaker: Dr. Anthony Cooper
- "Gait Analysis, Leuven and a Beguinage – What are they and what do they have in common?" Speaker: Dr. Lise Leveille
- AAOS/OREF/ORS Clinician Development Program, Rosemont, IL, September 15-17, 2016
- ASAMI-BR International Congress, Brisbane, Australia, September 20-24, 2016
- "Techniques for reducing pin site infections in pediatric limb lengthening." Podium presentation: Chhina H, Eugenio A, Mulpuri K, Cooper A.
- "Intravenous Lidocaine reduces post-operative pain and opiate requirements in patients undergoing external fixation." Podium presentation: Koo W, Chhina H, Cooper A.
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- "Case Presentations" (Ortho Fellows)
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## Presentations April 1, 2016 to March 31, 2017 con't

### **PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't:**

#### Dr. Cooper

- "Towards Reliable Automatic Characterization of Neonatal Hip Dysplasia from 3D Ultrasound Images." Quader N, Hodgson A, Mulpuri K, Cooper A, Abugharbieh R
- 23rd Annual Conference of the International Society for Quality of Life Research, Copenhagen, Denmark, October 19-22, 2016
- Poster presentation: "Development of a patient reported Quality of life questionnaire for children with lower limb deformities: Preliminary results." Chhina H, Klassen A, Kopec J, Cooper A.
- Evidence to Innovation, Annual Trainee Day, BC Children's Hospital, Vancouver, November 24, 2016
- Poster Presentation: "Assessing rehabilitation learning needs of children undergoing limb reconstruction and lengthening: Project proposal." Eugenio A, Chhina H, Garret S, Jacobs M, Cooper A.
- Poster presentation: "Development of a patient reported quality of life questionnaire for children with lower limb deformities: Preliminary results." Chhina H, Klassen A, Kopec J, Cooper A.
- International Bone Health and Mobility Initiative. Special Office of Pediatric Surgical Evaluation and Innovation Rounds, December 12, 2016.
- "Reviewing the Research Structure at BC Children's Hospital: Evidence to Innovation." Office of Pediatric Surgical Evaluation and Innovation Rounds, February 7, 2017

#### Dr. Ghag

- UBC Department of Orthopaedics Ortho Update, Ashlee Dobbe, May 4, 2016
- "A Clinical Prediction Model for Growth Arrest in Pediatric Physeal Fractures", Kishore Mulpuri, Rubini Pathy, Emily K Schaeffer, Anthony Cooper, Christopher Reilly
- "Posterior vertebral column resection in paediatric deformity: The advantages of staging", Andrea Simmonds
- "Developmental dysplasia of the hip and laterality: The Importance of graded severity of the contralateral hip", Emily Schaeffer
- "Congenital Scoliosis", May 17, 2016
- Stephen J Tredwell Visiting Professor Education Day, Dr. Charles E. Johnston, Visiting Professor, Department of Pediatric Orthopaedic Surgery, Held @ CFRI, Vancouver, BC, October 14, 2016
- "Cervical Spine Deformities in Children", Dr. C. Johnston
- "International Bone Health Collaborative Trip Report", Dr. K. Mulpuri, Dr. A. Cooper
- "Management of Congenital Instability of Knee, Dr. C. Johnston
- "Shriner's Gait Lab on the Frontier: clinical, research and the big move West", Dr. L. Leveille
- "Unsolved or Impossible Problems in Pediatric Orthopaedics – Pterygia and overgrowth, NF and CLOVES", Dr. C. Johnston
- "Spinal Tethering, the BCCH Experience", Dr. F. Miyanji
- "Case Presentations" (Ortho Fellows)
- Canadian Spine Society, Montreal, Quebec Canada, Feb 2017
- "Assessing the risk/benefit ratio of surgery in CP: is surgery worth it?" Miyanji F, Shah S, Samdani A, Lonner B, Yazay B, Asghar J, Clements D, Newton P.
- "The psychosocial impact of AIS: any need for concern?" Miyanji F, Desai S, Samdani A, Shah S, Lonner B, Newton P.
- "The rate and risk of curve progression following skeletal maturity - does the story end with curve magnitude?" Miyanji F, Reilly C, Shah S, Clements D, Samdani A, Desai S, Lonner B, Shufflebarger H, Betz R, Newton P.
- "Comparative cost analysis of conventional and magnetic controlled growing rods in early-onset scoliosis – a single center experience." Ghag A, Nasto LA, Habib E, Reilly CW, Miyanji F.

## Presentations April 1, 2016 to March 31, 2017 con't

### **PRESENTATIONS PROVIDED IN ORTHOPAEDICS con't:**

Dr. Ghag	<ul style="list-style-type: none"> <li>• “Comparative analysis of static and dynamic intraoperative skull-femoral traction (IOSFT) in adolescent idiopathic scoliosis (AIS) correction.” Ghag A, Tang Y, Desai S, Reilly CW, Miyanji F.</li> </ul>
Dr. Leveille	<ul style="list-style-type: none"> <li>• Pediatric Orthopaedic Society of North America Annual Meeting, Indianapolis IN, April 27-30, 2016</li> <li>• “Podium Presentation - Frequency of crouch gait in spastic diplegic patients with and without history of tendo Achilles lengthening.”</li> <li>• UBC Department of Orthopaedics Ortho Update, Ashlee Dobbe, May 4, 2016</li> <li>• “A Clinical Prediction Model for Growth Arrest in Pediatric Physeal Fractures”, Kishore Mulpuri, Rubini Pathy, Emily K Schaeffer, Anthony Cooper, Christopher Reilly</li> <li>• “Posterior vertebral column resection in paediatric deformity: The advantages of staging”, Andrea Simmonds</li> <li>• “Developmental dysplasia of the hip and laterality: The Importance of graded severity of the contralateral hip”, Emily Schaeffer</li> <li>• Clinical Gait Analysis Course, Leuven Belgium, June 29-July 2, 2016</li> <li>• Stella Scholarship Presentations - OPSEI Rounds, Moderator: Dr. Christopher Reilly, September 6, 2016</li> <li>• “Limb Lengthening and Reconstruction Society Travelling Fellowship”, Speaker: Dr. Anthony Cooper</li> <li>• “Gait Analysis, Leuven and a Beguinage – What are they” and What do they have in common?, Speaker: Dr. Lise Leveille</li> <li>• AAOS/OREF/ORS Clinician Development Program, Rosemont, IL, September 15-17, 2016</li> <li>• “SPML &amp; SEMs: Orthopaedic Management of Spastic Diplegia”, Canadian Botulinum Toxin Conference, Toronto, October 2017</li> <li>• Stephen J Tredwell Visiting Professor Education Day, Dr. Charles E. Johnston, Visiting Professor, Department of Pediatric Orthopaedic Surgery, Held @ CFRI, Vancouver, BC, October 14, 2016</li> <li>• “Cervical Spine Deformities in Children”, Dr. C. Johnston</li> <li>• “International Bone Health Collaborative Trip Report”, Dr. K. Mulpuri, Dr. A. Cooper</li> <li>• “Management of Congenital Instability of Knee, Dr. C. Johnston</li> <li>• “Shriner’s Gait Lab on the Frontier: clinical, research and the big move West”, Dr. L. Leveille</li> <li>• “Unsolved or Impossible Problems in Pediatric Orthopaedics – Pterygia and overgrowth, NF and CLOVES”, Dr. C. Johnston</li> <li>• “Spinal Tethering, the BCCH Experience”, Dr. F. Miyanji</li> <li>• “Case Presentations” (Ortho Fellows)</li> <li>• BCCH Foundation – Artist of 2 paintings presentation, March 20, 2017</li> <li>• Donors are Wendy Armstrong (Armstrong Family Foundation) And Frankie Robinson (Wendy’s mom and artist)</li> </ul>
Dr. Pirani	<ul style="list-style-type: none"> <li>• Ponseti – Italy Association, Italian section of Ponseti International Association, Congenital Clubfoot / Ponseti Methodology Conference, Italy, July 2-4, 2016.</li> <li>• “Analysis of the clubfoot according to Pirani’s clinical assessment, Relapse after invasive surgery: renewal of Ponseti’s technique, The Ponseti Method: a revolutionary technique – a history, Descriptive epidemiology of clubfoot in developing countries.” Keynote Speaker: Dr. Pirani Research to Inform Public Policy in Healthcare in Low and Middle-Income Countries. Clinical Research Methods for Surgical Procedures – SPPH 517, BC Children’s Hospital. September 23, 2016.</li> <li>• 23rd Annual Conference of Paediatric Orthopaedic Society of India (POSICON): Changing Trends in Paediatric Orthopaedics. Hotel Le Meridien, Nagpur, India. January 26 – 28, 2017 (invited speaker, delegate, and advanced workshop faculty).</li> </ul>

## Teaching Activities

### *Lectures: April 1, 2016 to March 31, 2017*

#### Dr. Reilly

- Surgical Suites Grand Rounds – CFRI, April 12, 2016
- “Innovating for Value in Surgery”, Dr. Erik Skarsgard
- Co-ordinated by: Dr. Simon Whyte
- Grand Rounds – UBC Department of Orthopaedics, April 13, 2016
- “Peri operative optimization for orthopaedic surgery”, Dr. Peter Swart
- Moderator: Dr. Nelson Greidanus
- Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016
- Grand Rounds – UBC Department of Orthopaedics, April 27, 2016
- “Revision Hallux Valgus Surgery”, Dr. Kelly Hynes & Dr. Alastair Younger
- Moderator: Dr. Nelson Greidanus
- OPSEI Rounds – BCCH, May 3, 2016
- “Effect of Artificial Saliva Aging on Dentin Shear Bond Strength, Flexural Strength and Diametral Strength of Restorative Glass Ionomer Cements”, Dr. Kunal Chander
- “Review of a Pediatric Dentistry Oral Sedation Curriculum”, Dr. Zina Alkafaji
- “3-D Morphometric Analysis of Human Deciduous tooth Crypts During the Fetal Period”, Dr. Anu Korada
- OPSEI Rounds – BCCH, June 7, 2016
- “Do ask, Do Tell: An Interactive Model of Physician Wellness Assessment at BC Children’s Hospital”, Mr. Dan Cojocar (2nd Yr Medical Student)
- OPSEI Rounds – BCCH, June 21, 2016
- “Case Carts, No Problem: What Could Go Wrong”
- Speaker: Trish Page, Program Manager, Surgical Services
- Speaker: Amanda Ruud, Clinical Nurse Coordinator, Operating Room
- Speaker: Dr. Ken Gow, Assoc Prof of Surgery, Seattle Children’s Hospital
- OPSEI Rounds – BCCH, July 5, 2016
- “BC Children’s Hospital OR Turnover Time Analysis”, Ms. Iris Liu and Mr. Humaam Hamada (UBC Students)
- “Current State Analysis of OR ‘Operations’ at BC Children’s Hospital”, Dr. J. Arneja
- BCCH PEM AHD Ortho Talk: “Pediatric Orthopaedic Injuries”, Dr. Andrea Simmonds, July 14, 2016
- Resident/Fellow/Medical Student Teaching: “Bone and Soft Tissue Tumors”, BCCH, July 26, 2016
- OPSEI Rounds – BCCH, August 2, 2016
- “The Management of Bilateral Vocal Cord Paralysis”, Dr. Ricky Pal (ENT)
- “Candace Haddock, A Fish Out of Water: A Journey from Cetaceans to Celiotomies”, Dr. Candace Haddock (Gen Surgery)
- “Bullets and Balloons: Pediatric Anesthesia in a Conflict zone”, Dr. Jonathan Stacey (Anesthesia)
- “A Case of Leucocoria in a 2y/o boy”, Dr. Carol Tagle (Ophthalmology)
- Stella Scholarship Presentations - OPSEI Rounds, Moderator: Dr. Christopher Reilly, September 6, 2016
- “Limb Lengthening and Reconstruction Society Travelling Fellowship”, Speaker: Dr. Anthony Cooper
- “Gait Analysis, Leuven and a Beguinage – What are they and What do they have in common?”, Speaker: Dr. Lise Leveille
- Surgical Suites Grand Rounds – CFRI, September 20, 2016
- “To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia & Surgery”, Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto
- OPSEI Rounds – BCCH, November 1, 2016
- “Child-sized KT – An Innovative Way to Communicate with Patients”, Dr. Amed Shazhan
- Resident/Fellow/Medical Student Teaching: “The Upper Limb”, BCCH, November 4, 2016
- Ortho Rounds – BCCH, Presentation at Start of Monday Rounds, November 14, 2016

## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

#### Dr. Reilly

- "Ortho Clinic Survey", Abhi Cherukapalli (CR's summer student)
- Surgical Suites Grand Rounds – CFRI, November 15, 2016
- "Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis", Dr. Sonia Butterworth
- OPSEI Rounds – BCCH, Presentations by UBC Medical Students, December 6, 2016
- "Multidisciplinary cleft palate program at BCCH: Are we meeting the standards of care?", Anita Dahiya, UBC Med Student
- "Outpatient Burn Care at BCCH Burn Treatment Room: A 3-Year Review", Rayleigh Chan, UBC Med Student
- "Post-operative intravenous Fluid Ordering Practices in Children among Plastic Surgery Trainees", Vivien Hu, UBC Med Student
- "Partial and non-users in pediatric cochlear implant patients: The BCCH experience", Grace Yi, UBC Med Student
- "Measuring Patient Satisfaction in Pediatric Orthopaedic Surgery At BCCH", Abhiram Cherukpali, UBC Med Student
- Moderated by: Dr. Andrew MacNeily, Head, Div of Ped Urology and Dr. Cynthia Verchere, Head, Div of Ped Plastic Surgery
- Special OPSEI Rounds, "Celebration of Partnership" – BCCH, December 12, 2016
- "Exploring Global Health Opportunities in Rural China", Lenny Zhou
- "UBC Plastic Surgery Uganda Initiative: Where are We Now", Dr. Nick Carr, Mr. Bababunmi Fashola
- "Uganda Pediatric Surgery Camp", Dr. Jonathan Stacey, Ms. Jennifer Dunlop
- "Brighter Smiles in Hartley Bay Revisited – Rekindling of a Partnership", Dr. Karen Campbell
- "International Bone Health and Mobility Initiative", Dr. Anthony Cooper, Ms Wendy Krishnaswamy
- "Filling in the United Way Thermometer", Dr. Henry Woo
- Ortho Rounds – BCCH, December 16, 2016
- "Opioid Orders to Surgical Residents / Fellows", Dr. Gillian Lauder, Pediatric Anesthesiologist Director, Acute Pain Service Pediatric Complex Pain Physician
- Resident/Fellow/Medical Student Teaching: "Congenital Scoliosis", BCCH, December 21, 2016
- Grand Rounds – UBC Department of Orthopaedics, January 11, 2017
- "Diversity in Pediatric Orthopaedic Spine Surgery", Dr. Christopher Reilly
- Moderator: Dr. Greidanus
- OPSEI Rounds – BCCH, January 24, 2017
- "What attributes define excellence in a trauma team?-A qualitative study", Speaker: Farah Kassam (UBC Medical Student)
- "Pediatric mortality associated with delays in access to emergent surgery: A risk stratified analysis", Speaker: Irene Zivkovic (UBC Undergraduate Student)
- "Social Acceptance of children wearing assistive devices", Speaker: Colin Tan (UBC Medical Student)
- "Is routine lab investigation necessary in pubertal gynecomastia?", Speaker: Armaan Malhotra (UBC Medical Student)
- Moderated by: Dr. Monica Langer, Pediatric Surgery, Dr. Erika Henkelman, Pediatric Plastic Surgery
- "Reviewing the Research Structure at BC Children's Hospital", Speakers: The (Evidence to Innovation) E2i Team, Moderated by: Dr. K. Afshar, February 7, 2017
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- "What's all the Fuss About?: The Endless Possibilities of NSQIP-P", Ms Julie Bedford

## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

- |                      |   |
|----------------------|---|
| <b>Dr. Reilly</b>    | <ul style="list-style-type: none"> <li>• "Healthcare in Canada Vs Healthcare in The United Kingdom", Speaker: Dr. Neil Chadha, Moderator: Dr. Frederick Kozak, March 7, 2017</li> <li>• Grand Rounds – UBC Department of Orthopaedics, March 8, 2017</li> <li>• "VGH O.R. Renewal Project"</li> <li>• Resident/Fellow/Medical Student Teaching: "The Upper Limb", BCCH, March 10, 2017</li> </ul>   |
| <b>Dr. Beauchamp</b> | <ul style="list-style-type: none"> <li>• Grand Rounds – UBC Department of Orthopaedics, April 6, 2016</li> <li>• "Meniscus Tears, ACL Injuries, Arthritis...and what about that 'New' Ligament?", Dr. Peter D'Alessandro</li> <li>• Moderator: Dr. Patrick Chin</li> <li>• Surgical Suites Grand Rounds – CFRI, April 12, 2016</li> <li>• "Innovating for Value in Surgery", Dr. Erik Skarsgard</li> <li>• Co-ordinated by: Dr. Simon Whyte</li> <li>• Grand Rounds – UBC Department of Orthopaedics, April 13, 2016</li> <li>• "Peri operative optimization for orthopaedic surgery", Dr. Peter Swart</li> <li>• Moderator: Dr. Nelson Greidanus</li> <li>• Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016</li> <li>• Grand Rounds – UBC Department of Orthopaedics, April 27, 2016</li> <li>• "Revision Hallux Valgus Surgery", Dr. Kelly Hynes &amp; Dr. Alastair Younger</li> <li>• Moderator: Dr. Nelson Greidanus</li> <li>• Grand Rounds – UBC Department of Orthopaedics, May 18, 2016</li> <li>• "Frail the White Rose and frail are Her hands that gave....", Dr. John Street</li> <li>• Moderator: Dr. Nelson Greidanus</li> <li>• Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, May 24, 2016</li> <li>• Grand Rounds – UBC Department of Orthopaedics, May 25, 2016</li> <li>• "The Best of Resident Research Day", Ortho Residents/Fellows</li> <li>• Moderator: Dr. Henry Broekhuysen</li> <li>• Grand Rounds – UBC Department of Orthopaedics, June 8, 2016</li> <li>• "Classification of Knee Osteoarthritis (OA) Severity Based on Spatiotemporal Gait Analysis", Dr. Amir Herman</li> <li>• Moderator: Dr. Donald Garbuz</li> <li>• Surgical Suites Grand Rounds – CFRI, September 20, 2016</li> <li>• "To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia &amp; Surgery", Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto</li> <li>• Grand Rounds – UBC Department of Orthopaedics, September 28, 2016</li> <li>• "Syndesmosis – Injury patterns and options for reconstruction", Dr. Alastair Younger</li> <li>• Surgical Suites Grand Rounds – CFRI, November 15, 2016</li> <li>• "Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis", Dr. Sonia Butterworth</li> <li>• Grand Rounds – UBC Department of Orthopaedics, December 7, 2016</li> <li>• "Hemodynamic management of Acute SCI. Making the Most out of the Mundane....", Dr. Brian Kwon</li> <li>• Moderator: Dr. Nelson Greidanus</li> <li>• Grand Rounds – UBC Department of Orthopaedics, December 14, 2016</li> </ul> |

## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

#### Dr. Beauchamp

- "What worsens mortality when hip fracture surgery is delayed?", Dr. Katie Sheehan & Dr. Boris Sobolev
- Grand Rounds – UBC Department of Orthopaedics, January 18, 2017
- "Management of non-arthritic hip pain: role of hip arthroscopy", Dr. Mark McConkey & Dr. Parth Lodhia
- Moderator: Dr. Greidanus
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- "What's all the Fuss About?: The Endless Possibilities of NSQIP-P", Ms Julie Bedford
- Grand Rounds – UBC Department of Orthopaedics, February 22, 2017
- Presenter: Mr. Keith Willett, Oxford England
- Grand Rounds – UBC Department of Orthopaedics, March 29, 2017
- "Radial sided wrist pain", Dr. Thomas Goetz
- Moderator: Dr. Greidanus
- Surgical Suites Grand Rounds – CFRI, April 12, 2016

#### Dr. Alvarez

- "Innovating for Value in Surgery", Dr. Erik Skarsgard
- Co-ordinated by: Dr. Simon Whyte
- Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016
- Resident/Fellow/Medical Student Teaching: "The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse", BCCH, April 26, 2016
- Resident/Fellow/Medical Student Teaching: "The Upper Limb", BCCH, June 14, 2016
- Resident/Fellow/Medical Student Teaching: "Slipped Capital Femoral Epiphysis", BCCH, September 13, 2016
- Surgical Suites Grand Rounds – CFRI, September 20, 2016
- "To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia & Surgery", Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto
- Surgical Suites Grand Rounds – CFRI, November 15, 2016
- "Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis", Dr. Sonia Butterworth
- Resident/Fellow/Medical Student Teaching: "The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse", BCCH, January 17, 2017
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- "What's all the Fuss About?: The Endless Possibilities of NSQIP-P", Ms Julie Bedford

#### Dr. Mulpuri

- Grand Rounds – UBC Department of Orthopaedics, April 6, 2016
- "Meniscus Tears, ACL Injuries, Arthritis...and what about that 'New' Ligament?", Dr. Peter D'Alessandro
- Moderator: Dr. Patrick Chin
- Surgical Suites Grand Rounds – CFRI, April 12, 2016
- "Innovating for Value in Surgery", Dr. Erik Skarsgard
- Co-ordinated by: Dr. Simon Whyte
- Grand Rounds – UBC Department of Orthopaedics, April 13, 2016
- "Peri operative optimization for orthopaedic surgery", Dr. Peter Swart
- Moderator: Dr. Nelson Greidanus



## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

#### Dr. Mulpuri

- Resident/Fellow/Medical Student Teaching: "Management of Fractures", BCCH, April 15, 2016
- Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016
- Grand Rounds – UBC Department of Orthopaedics, May 18, 2016
- "Frail the White Rose and frail are Her hands that gave....", Dr. John Street
- Moderator: Dr. Nelson Greidanus
- Grand Rounds – UBC Department of Orthopaedics, May 25, 2016
- "The Best of Resident Research Day", Ortho Residents/Fellows
- Moderator: Dr. Henry Broekhuyse
- Grand Rounds – UBC Department of Orthopaedics, June 1, 2016
- "Accessing Orthopaedics Care: Wait times, Health States And Triage Strategies", Dr. Kevin Wing & Dr. Lauren Roberts (PGY 4)
- Moderator: Dr. Nelson Greidanus
- Resident/Fellow/Medical Student Teaching: "Child with Limb Deficiency", BCCH, June 3, 2016
- Resident/Fellow/Medical Student Teaching: "The Pediatric Orthopaedic Examination", BCCH, August 30, 2016
- Grand Rounds – UBC Department of Orthopaedics, September 14, 2016
- "Improving Physician Resilience: Evidenced Based Solutions For Practice Enjoyment, Promote Health and Mitigate Stress", Dr. Himat Vaghadia
- Moderator: Dr. Nelson Greidanus
- Surgical Suites Grand Rounds – CFRI, September 20, 2016
- "To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia & Surgery", Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto
- Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, September 23, 2016
- Grand Rounds – UBC Department of Orthopaedics, September 28, 2016
- "Syndesmosis – Injury patterns and options for reconstruction", Dr. Alastair Younger
- Grand Rounds – UBC Department of Orthopaedics, October 12, 2016
- "The Quality of Shoulder Referrals and Cost Effectiveness of Surgeon Driven Ultrasound in British Columbia", Dr. Anny P. Goel
- Moderator: Dr. Nelson Greidanus
- Grand Rounds – UBC Department of Orthopaedics, October 19, 2016
- "Surgical Manpower: Today's Job Market Realities", Dr. Marcel Dvorak
- Moderator: Dr. Greidanus
- Grand Rounds – UBC Department of Orthopaedics, November 9, 2016
- "Innovative approaches to Competency Based Medical Education and Surgical Simulation", Dr. Dave Pichora
- Moderator: Dr. William Regan
- Surgical Suites Grand Rounds – CFRI, November 15, 2016
- "Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis", Dr. Sonia Butterworth
- Resident/Fellow/Medical Student Teaching: "The Lower Extremity", BCCH, November 25, 2016
- Grand Rounds – UBC Department of Orthopaedics, December 14, 2016

## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

#### Dr. Mulpuri

- "What worsens mortality when hip fracture surgery is delayed?", Dr. Katie Sheehan & Dr. Boris Sobolev
- Grand Rounds – UBC Department of Orthopaedics, January 11, 2017
- "Diversity in Pediatric Orthopaedic Spine Surgery", Dr. Christopher Reilly
- Moderator: Dr. Greidanus
- Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, January 31, 2017
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- "What's all the Fuss About?: The Endless Possibilities of NSQIP-P", Ms Julie Bedford
- Grand Rounds – UBC Department of Orthopaedics, February 22, 2017
- Presenter: Mr. Keith Willett, Oxford England
- Resident/Fellow/Medical Student Teaching: "The Skeletal Dysplasias", BCCH, March 28, 2017

#### Dr. Miyanji

- Surgical Suites Grand Rounds – CFRI, April 12, 2016
- "Innovating for Value in Surgery", Dr. Erik Skarsgard
- Co-ordinated by: Dr. Simon Whyte
- Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and spondylolisthesis", June 28, 2016
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and spondylolisthesis", August 16, 2016
- Surgical Suites Grand Rounds – CFRI, September 20, 2016
- "To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia & Surgery", Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and spondylolisthesis", October 18, 2016
- Surgical Suites Grand Rounds – CFRI, November 15, 2016
- "Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis", Dr. Sonia Butterworth
- Grand Rounds – UBC Department of Orthopaedics, December 7, 2016
- "Hemodynamic management of Acute SCI. Making the Most out of the Mundane....", Dr. Brian Kwon
- Moderator: Dr. Nelson Greidanus
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and spondylolisthesis", January 10, 2017
- Grand Rounds – UBC Department of Orthopaedics, January 11, 2017
- "Diversity in Pediatric Orthopaedic Spine Surgery", Dr. Christopher Reilly
- Moderator: Dr. Greidanus
- Grand Rounds – UBC Department of Orthopaedics, February 15, 2017
- "Case based update on nonunion of long bone fractures", Dr. Graham Sleat, Dr. Mark Miller & Dr. Peter O'Brien
- Moderator: Dr. Greidanus
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- "What's all the Fuss About?: The Endless Possibilities of NSQIP-P", Ms Julie Bedford

#### Dr. Cooper

- Distraction Osteogenesis – Pediatric Radiology Academic Rounds, April 12, 2016
- Surgical Suites Grand Rounds – CFRI, April 12, 2016
- "Innovating for Value in Surgery", Dr. Erik Skarsgard

## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

#### Dr. Cooper

- Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016
- “SCFE”, Canadian Pediatric Orthopaedic Group Rounds, April 21, 2016
- Resident/Fellow/Medical Student Teaching: “Leg Length Discrepancy”, BCCH, May 13, 2016
- Grand Rounds – UBC Department of Orthopaedics, May 25, 2016
- “The Best of Resident Research Day”, Ortho Residents/Fellows
- Moderator: Dr. Henry Broekhuysen
- “Perthes, SCFE, Septic Hip, OM, and Transient Synovitis”, Resident Half-Day, VGH, May 26, 2016
- “Deformity Correction using Taylor Spatial Frames”, Workshop, Balaji Institute of Surgery Research and Rehabilitation for the Disabled (BIRRD) Trust Hospital, Tirupati, India, August 9-11, 2016.
- Resident/Fellow/Medical Student Teaching: “The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse”, BCCH, August 26 2016
- Grand Rounds – UBC Department of Orthopaedics, September 14, 2016
- “Improving Physician Resilience: Evidenced Based Solutions For Practice Enjoyment, Promote Health and Mitigate Stress”, Dr. Himat Vaghadia
- Moderator: Dr. Nelson Greidanus
- Surgical Suites Grand Rounds – CFRI, September 20, 2016
- “To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia & Surgery”, Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto
- Grand Rounds – UBC Department of Orthopaedics, September 28, 2016
- “Syndesmosis – Injury patterns and options for reconstruction”, Dr. Alastair Younger
- Resident/Fellow/Medical Student Teaching: “Leg Length Discrepancy”, BCCH, September 30, 2016
- “Musculoskeletal Infections and their Sequelae”, Canadian Pediatric Orthopaedic Group Rounds, Oct 4, 2016.
- Surgical Suites Grand Rounds – CFRI, November 15, 2016
- “Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis”, Dr. Sonia Butterworth
- Grand Rounds – UBC Department of Orthopaedics, November 23, 2016
- “To Succeed, We Must Often Fail”
- Resident/Fellow/Medical Student Teaching: “Bone and Soft Tissue Tumors”, BCCH, November 29, 2016
- “International Bone Health and Mobility Initiative”. Special Office of Pediatric Surgical Evaluation and Innovation Rounds, December 12, 2016.
- “Reviewing the Research Structure at BC Children’s Hospital: Evidence to Innovation”. Office of Pediatric Surgical Evaluation and Innovation Rounds, February 7, 2017.
- Resident/Fellow/Medical Student Teaching: “Leg Length Discrepancy”, BCCH, February 14, 2017
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- “What’s all the Fuss About?: The Endless Possibilities of NSQIP-P”, Ms Julie Bedford.

#### Dr. Ghag

- Grand Rounds – UBC Department of Orthopaedics, April 6, 2016
- “Meniscus Tears, ACL Injuries, Arthritis...and what about that ‘New’ Ligament?”, Dr. Peter D’Alessandro
- Moderator: Dr. Patrick Chin
- Surgical Suites Grand Rounds – CFRI, April 12, 2016
- “Innovating for Value in Surgery”, Dr. Erik Skarsgard
- Grand Rounds – UBC Department of Orthopaedics, April 13, 2016
- “Peri operative optimization for orthopaedic surgery”, Dr. Peter Swart

## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

#### Dr. Ghag

- Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016
- Resident/Fellow/Medical Student Teaching: “Congenital Scoliosis”, BCCH, May 17, 2016
- Grand Rounds – UBC Department of Orthopaedics, May 18, 2016
- “Frail the White Rose and frail are Her hands that gave....”, Dr. John Street
- Moderator: Dr. Nelson Greidanus
- Grand Rounds – UBC Department of Orthopaedics, May 25, 2016
- “The Best of Resident Research Day”, Ortho Residents/Fellows
- Moderator: Dr. Henry Broekhuysen
- Resident/Fellow/Medical Student Teaching: “Idiopathic Scoliosis”, BCCH, August 5, 2016
- Grand Rounds – UBC Department of Orthopaedics, September 14, 2016
- “Improving Physician Resilience: Evidenced Based Solutions For Practice Enjoyment, Promote Health and Mitigate Stress”, Dr. Himat Vaghadia
- Moderator: Dr. Nelson Greidanus
- Surgical Suites Grand Rounds – CFRI, September 20, 2016
- “To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia & Surgery”, Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto
- Resident/Fellow/Medical Student Teaching: “Congenital Scoliosis”, BCCH, October 14, 2016
- Grand Rounds – UBC Department of Orthopaedics, November 9, 2016
- “Innovative approaches to Competency Based Medical Education and Surgical Simulation”, Dr. Dave Pichora
- Moderator: Dr. William Regan
- Resident/Fellow/Medical Student Teaching: “Management of Fractures”, BCCH, November 15, 2016
- Surgical Suites Grand Rounds – CFRI, November 15, 2016
- “Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis”, Dr. Sonia Butterworth
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- “What’s all the Fuss About?: The Endless Possibilities of NSQIP-P”, Ms Julie Bedford
- Resident/Fellow/Medical Student Teaching: “Slipped Capital Femoral Epiphysis”, BCCH, March 14, 2017

#### Dr. Leveille

- Grand Rounds – UBC Department of Orthopaedics, April 6, 2016
- “Meniscus Tears, ACL Injuries, Arthritis...and what about that ‘New’ Ligament?”, Dr. Peter D’Alessandro
- Moderator: Dr. Patrick Chin
- Surgical Suites Grand Rounds – CFRI, April 12, 2016
- “Innovating for Value in Surgery”, Dr. Erik Skarsgard
- Co-ordinated by: Dr. Simon Whyte
- Ortho Rounds – POSNA APPOS International Travelling Fellows, April 17-20, 2016, Academic Day April 18, 2016
- Grand Rounds – UBC Department of Orthopaedics, May 25, 2016
- “The Best of Resident Research Day”, Ortho Residents/Fellows
- Moderator: Dr. Henry Broekhuysen
- Resident/Fellow/Medical Student Teaching: “The Skeletal Dysplasias”, BCCH, June 21, 2016
- Resident/Fellow/Medical Student Teaching: “Management of Fractures”, BCCH, August 9, 2016
- Grand Rounds – UBC Department of Orthopaedics, September 14, 2016
- “Improving Physician Resilience: Evidenced Based Solutions For Practice Enjoyment, Promote Health and Mitigate Stress”, Dr. Himat Vaghadia, Moderator: Dr. Nelson Greidanus
- Surgical Suites Grand Rounds – CFRI, September 20, 2016
- “To Suspend Or Not to Suspend. Is That the Question? Pediatric DNAR Orders During Anesthesia & Surgery”, Dr. Natasha Broemling, Dr. Amy Mabie, Dr. Nina Preto

02

## Teaching Activities con't

### *Lectures: April 1, 2016 to March 31, 2017 con't*

#### Dr. Leveille

- Grand Rounds – UBC Department of Orthopaedics, September 28, 2016
- “Syndesmosis – Injury patterns and options for reconstruction”, Dr. Alastair Younger
- Resident/Fellow/Medical Student Teaching: “The Skeletal Dysplasias”, BCCH, November 8, 2016
- Surgical Suites Grand Rounds – CFRI, November 15, 2016
- “Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis”, Dr. Sonia Butterworth
- Grand Rounds – UBC Department of Orthopaedics, November 16, 2016
- “Navigated TKRs: Improving Patient Outcomes or an Expensive Marketing Gimmick?”, Dr. Andrew Kurmis
- Moderator: Dr. Greidanus
- Grand Rounds – UBC Department of Orthopaedics, December 7, 2016
- “Hemodynamic management of Acute SCI. Making the Most out of the Mundane....”, Dr. Brian Kwon
- Moderator: Dr. Nelson Greidanus
- Grand Rounds – UBC Department of Orthopaedics, December 14, 2016
- “What worsens mortality when hip fracture surgery is delayed?”, Dr. Katie Sheehan & Dr. Boris Sobolev
- Grand Rounds – UBC Department of Orthopaedics, January 11, 2017
- “Diversity in Pediatric Orthopaedic Spine Surgery”, Dr. Christopher Reilly
- Moderator: Dr. Greidanus
- Resident/Fellow/Medical Student Teaching: “The Pediatric Orthopaedic Examination”, BCCH, January 24, 2017
- Grand Rounds – UBC Department of Orthopaedics, February 8, 2017
- “Osteochondral lesions of the talus – tips and tricks”, Dr. Andrea Veljkovic
- Moderator: Dr. Greidanus
- Grand Rounds – UBC Department of Orthopaedics, February 15, 2017
- “Case based update on nonunion of long bone fractures”, Dr. Graham Sleat, Dr. Mark Miller & Dr. Peter O’Brien
- Moderator: Dr. Greidanus
- Surgical Suites Grand Rounds – CFRI, February 21, 2017
- “What’s all the Fuss About?: The Endless Possibilities of NSQIP-P”, Ms Julie Bedford
- Grand Rounds – UBC Department of Orthopaedics, February 22, 2017
- Presenter: Mr. Keith Willett, Oxford England
- Resident/Fellow/Medical Student Teaching: “Management of Fractures”, BCCH, March 21, 2017

### *Formal Teaching: April 1, 2016 to March 31, 2017*

#### Dr. Reilly

*UBC Department of Orthopaedics – Resident Half-Day: “DDH”, May 17, 2016*

#### Dr. Mulpuri

*2016W, SPPH 517 – Clinical Research Methods for Surgical Procedures, 30 hours*

*2016W, SPPH 517 – Clinical Research Methods for Surgical Procedures, 12 hours*

#### Dr. Cooper

*VGH Department of Orthopaedics Resident Half-Day, May 26, 2016*

*“Perthes, SCFE, Septic hip, OM, Transient Synovitis”, Facilitator: Dr. Cooper*

*UBC Department of Orthopaedics Resident Half-Day, UBC, March 30, 2017*

*“Deformities of the Lower Extremity; Rotation, Length & Alignment”, Facilitator: Dr. Cooper*

03

## PUBLICATIONS

**Publications: April 1, 2016 to March 31, 2017 con't****Dr. Reilly**

- Shivamurthy V, Tucker LB, Gantt S, Guzman J, Reilly CW, Tilley P. *Bacillus pumilus* septic arthritis in a healthy child. *Can J Infect Dis Med Microbiol*. 2016;3265037. Doi 10.1155/2016/3265037.
- Singh A, Schaeffer E, Reilly C. Vertebral Fractures in Duchenne Muscular Dystrophy Patients Managed with Deflazacort. *J Pediatr Orthop*, EPUB, June 2016.
- Roberts L, Strelzow J, Schaeffer E, Reilly C, Mulpuri K. Nonoperative Treatment of Type IIA Supracondylar Humerus Fractures: Comparing 2 Modalities. *J Pediatr Orthop*, EPUB, September 2016.
- Jasper J Jobsis, Abdullah Alabbas, Ruth Milner, Christopher Reilly, Kishore Mulpuri, Cherry Mammen. Acute kidney injury following spinal instrumentation surgery in children. *World Journal of Nephrology* 2017 March 6;6(2):79-85. DOL: 10.5527/wjn.v6.i2.79
- Reilly C. "The Rate and Risk of Curve Progression following skeletal Maturity – Does the story end with curve magnitude?" (Presenter: Miyanji F). American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada, April 2016
- 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
- Aarvold A, Fortes C, Chhina H, Wilson D, Reilly C, Mulpuri K, Cooper A. Use of weight bearing MRI in Legg-Calve-Perthes disease: a pilot study (Accepted Poster). Canadian Orthopaedic Association, June 2016
- Tang J, De Mello A, Teo T, Reilly C, Morrison A, Mulpuri K, Mammen C. Oliguria in pediatric spinal instrumentation surgery: Is it acute kidney injury (AKI)?, Western Medical Research Conference, Carmel USA, Jan 25-27, 2017
- Reilly C. "Developmental Dysplasia of the Hip: Point of Care Ultrasound, Screening and Surveillance", "Pediatric ACL Management", "C-Spine Management in Children", and "Supracondylar Fracture Update". 7th Annual Brian Greenhill Visiting Lecturer in Pediatric Orthopedic Surgery, University of Edmonton, Edmonton, Alberta, November 30-December 1, 2017
- 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*. 2017; 37(2): 75-79. DOI: 10.1097/BPO.0000000000000716. CA (IF 1.29; Citations 2
- Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C. Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: a prospective randomised trial. *Bone Joint J* 2016; 98B Supp 21, 93.

**Dr. Alvarez**

- Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C. Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: a prospective randomised trial. *Bone Joint J* 2016; 98B Supp 21, 93.

**Dr. Mulpuri**

- Tang J, De Mello A, Teo T, Reilly C, Morrison A, Mulpuri K, Mammen C. Oliguria in pediatric spinal instrumentation surgery: Is it acute kidney injury (AKI)?, Western Medical Research Conference, Carmel USA, Jan 25-27, 2017
- Aarvold A, Fortes C, Chhina H, Wilson D, Reilly C, Mulpuri K, Cooper A. Use of weight bearing MRI in Legg-Calve-Perthes disease: a pilot study (Accepted Poster). Canadian Orthopaedic Association, June 2016
- Roberts L, Strelzow J, Schaeffer E, Reilly C, Mulpuri K. Nonoperative Treatment of Type IIA Supracondylar Humerus Fractures: Comparing 2 Modalities. *J Pediatr Orthop*, EPUB, September 2016.
- 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*. 2017;37(4):272-278. DOI: 10.1097/BPO.0000000000000641. CA (1.695; Citations 1)
- Patel AA, Brophy RH, Gandhi R, Luu HH, Mulpuri K, Shah SA, Kakar S. The 2015 American-British-Canadian Traveling Fellows Report. *J Bone Joint Surg Am*. 2016;98(16):e68. DOI: 10.2106/JBJS.15.01378. CA (IF 4.840)
- QUADAR n, Hodgson A, Mulpuri K, Cooper A, Schaeffer E, Abugharbieh R. "A Reliable Automatic 2D measurement for Developmental Dysplasia of the Hip". *J Bone Joint Surg Br* 2016
- 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 1.101; Citation 1)



## PUBLICATIONS

**Publications: April 1, 2016 to March 31, 2017 con't**

Dr. Mulpuri

- Upasani VV, Bomar JD, Matheney TH, Sankar WN, Mulpuri K, Price CT, Moseley CF, Kelley SP, Narayanan U, Clarke NM, Wedge JH, Castañeda P, Kasser JR, Foster BK, Herrera-Soto JA, Cundy PJ, Williams N, Mubarak SJ. Evaluation of brace treatment for infant hip dislocation in a prospective cohort: Defining the success rate and variables associated with failure. *J Bone Joint Surg Am.* 2016;98(14):1215-21. doi: 10.2106/JBJS.15.01018. SA (IF 4.840; Citations 4)
- Mulpuri K, Schaeffer EK, Kelley SP, Castaneda P, Clarke NM, Herrera-Soto JA, Upasani V, Narayanan UG, Price CT, IHDI Study Group. What is the impact of center variability in a multicenter international prospective observational study on developmental dysplasia of the hip? *Clin Orthop Relat Res.* 2016;474(5):1138-45. doi: 10.1007/s11999-016-4746-y. FA (IF 3.897)
- Mulpuri K, Schaeffer EK, Andrade J, Sankar WN, Williams N, Matheney TH, Mubarak SJ, Cundy PJ, Price CT, IHDI Study Group. What risk factors and characteristics are associated with late-presenting dislocations of the hip in infants? *Clin Orthop Relat Res.* 2016;474(5):1131-7. DOI: 10.1007/s11999-015-4668-0. FA (IF 3.897; Citations 4)
- Hesketh K, Sankar WN, Joseph B, Narayanan U, Mulpuri K. Inter-observer and intra-observer reliability in the radiographic diagnosis of avascular necrosis of the femoral head following reconstructive hip surgery in children with cerebral palsy. *J Child Orthop.* 2016;10(2):143-7. DOI:10.1007/s11832-016-0723-y. FA (Citations 1)
- Sankar WN, Gornitzky AL, Clarke NM, Herrera-Soto JA, Kelley SP, Matheney T, Mulpuri K, Upasani VV, Williams N, Price CT, IHDI. Closed reduction for Developmental Dysplasia of the Hip: Early-term results from a prospective, multi-center cohort. *J Pediatr Orthop.* 2016. [Epub ahead of print]
- 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.* 2017; 37(2): 75-79. DOI: 10.1097/BPO.0000000000000716. CA (IF 1.29; Citations 2)
- Upasani V, Birke O, Little D, Klingele K, Millis M, International SCFE Study Group\*. Hip instability after the modified Dunn procedure for Slipped Capital Femoral Epiphysis. *Clin Orthop Relat Res.* 2017; 475(4): 1229-1235. DOI: 10.1007/s11999-016-5094-7. SA (IF 3.897)
- \*Named as a contributing member of the International SCFE Study Group in this paper.
- Paserin O, Quader N, Mulpuri K, Cooper A, Schaeffer E, Hodgson A, Abugharbieh R. Quantifying dynamic assessment of developmental dysplasia of the hip. *EPiC Series in Health Sciences, EasyChair.* 2017; 1: 224-227.
- Phillips L, Hesketh K, Schaeffer EK, Andrade J, Farr J, Mulpuri K. Avascular necrosis in children with cerebral palsy after reconstructive hip surgery. *J Child Orthop.* 2017; 11(5): 326-333. DOI: 10.1302/1863-2548.11.170078. SA (IF 1.695)
- Miller SD, Juricic M, Hesketh K, McLean L, Magnuson S, Gasior S, Schaeffer EK, O'Donnell M, Mulpuri K. Prevention of hip displacement in children with cerebral palsy: A systematic review. *Dev Med Child Neurol.* 2017; 59(11):1130-1138. DOI: 10.1111/dmcn.13480. SA (IF 3.116)
- Quader N, Hodgson A, Mulpuri K, Schaeffer EK, Abugharbieh R. Automatic evaluation of scan adequacy and dysplasia metrics in 2D ultrasound images of the neonatal hip. *Ultrasound Med Biol.* 2017; 43(6):1252-1262. DOI: 10.1016/j.ultrasmedbio.2017.01.012. CA (IF 2.494)
- Jasper J Jobsis, Abdullah Alabbas, Ruth Milner, Christopher Reilly, Kishore Mulpuri, Cherry Mammen. Acute kidney injury following spinal instrumentation surgery in children. *World Journal of Nephrology* 2017 March 6;6(2):79-85. DOI: 10.5527/wjn.v6.i2.79
- V'accaro AR, Fisher CG, Patel AA, Prasad SK, Chi J, Mulpuri K, Thomas KC, Whang PG. Evidence-based recommendations for spine surgery. *Spine.* 2017;42(7):E435-442. DOI: 10.1097/BRS.0000000000002083.CA (IF 2.439)
- Jones CE, Cooper AP, Doucette J, Buchan LL, Wilson DR, Mulpuri K, d'Entremont AG. How do Errors in Frog-Lateral Plane Positioning affect Southwick Angle Measurements? Submitted to *Journal of Pediatric Orthopaedics*, September 2016.
- Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C. Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: a prospective randomised trial. *Bone Joint J* 2016; 98B Supp 21, 93.
- Schaeffer E, Quader N, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R. Automatic evaluation of scan adequacy and dysplasia metrics in 2D ultrasound images of the neonatal hip. *Bone Joint J* 2016; 98B Supp 21, 42.

## PUBLICATIONS

**Publications: April 1, 2016 to March 31, 2017 con't**

Dr. Miyanji

- Bennett JT, Samdani AF, Bastrom TP, Ames RJ, Miyanji F, Pahys JM, Marks MC, Lonner BS, Newton PO, Shufflebarger HL, Yaszay B, Flynn JM, Betz RR, Cahill PJ. Factors affecting the outcome in appearance of AIS surgery in terms of the minimal clinically important difference. *Eur Spine J Dec*; [Epub ahead of print]. 2016.
- Helenius IJ, Sponseller PD, Mackenzie W, Odent T, Dormans JP, Asghar J, Rathjen K, Pahys JM, Miyanji F, Hedequist D, Phillips JH. Outcomes of spinal fusion for cervical kyphosis in children with neurofibromatosis. *J Bone Joint Surg Am Nov*; 98(21): e95. 2016.
- Samdani AF, Bennett JT, Ames RJ, Asghar JK, Orlando G, Pahys JM, Yaszay B, Miyanji F, Lonner BS, Lehman RA Jr, Newton PO, Cahill PJ, Betz RR. Reversible intraoperative neurophysiologic monitoring alerts in patients undergoing arthrodesis for adolescent idiopathic scoliosis: What are the outcomes of surgery? *J Bone Joint Surg Am Sept*; 98(17): 1478-1483. 2016.
- Gorges M, West NC, Cheung W, Zhou G, Miyanji F, Whyte SD. Preoperative warming and undesired surgical and anesthesia outcomes in pediatric spinal surgery-a retrospective cohort study. *Pediatr Anaesth Sept*; 26(9): 866-875. 2016.
- Jain A, Sponseller PD, Shah SA, Yaszay B, Njoku DB, Miyanji F, Newton PO, Bastrom TP, Marks MC, Harms Study Group. Incidence of and Risk Factors for Loss of 1 Blood Volume During Spinal Fusion Surgery in Patients with Cerebral Palsy. *J Pediatr Orthop. Jun 2016* [Epub ahead of print]
- Yaszay B, Sponseller PD, Shah SA, Asghar J, Miyanji F, Samdani AF, Bartley CE, Newton PO. Performing a Definitive Fusion in Juvenile CP Patients Is a Good Surgical Option. *J Pediatr Orthop. Jun 2016* [Epub ahead of print]
- Miyanji F. Pediatric Cervical Spine Disorders. *Orthopaedic Knowledge Update 5: Pediatrics. American Academy of Orthopedic Surgeons*; Dec 2016.
- Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C. Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: a prospective randomised trial. *Bone Joint J 2016*; 98B Supp 21, 93.

Dr. Cooper

- Paserin O, Quader N, Mulpuri K, Cooper A, Schaeffer E, Hodgson A, Abugharbieh R. Quantifying dynamic assessment of developmental dysplasia of the hip. *EPiC Series in Health Sciences, EasyChair*. 2017; 1: 224-227.
- 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*. 2017;37(4):272-278. DOI: 10.1097/BPO.0000000000000641. CA (1.695; Citations 1)
- Aarvold A, Fortes C, Chhina H, Wilson D, Reilly C, Mulpuri K, Cooper A. Use of weight bearing MRI in Legg-Calve-Perthes disease: a pilot study (Accepted Poster). *Canadian Orthopaedic Association*, June 2016
- QUADAR n, Hodgson A, Mulpuri K, Cooper A, Schaeffer E, Abugharbieh R. "A Reliable Automatic 2D measurement for Developmental Dysplasia of the Hip". *J Bone Joint Surg Br* 2016
- Schaeffer E, Quader N, Mulpuri K, Cooper A, Hodgson A, Abugharbieh R. Automatic evaluation of scan adequacy and dysplasia metrics in 2D ultrasound images of the neonatal hip. *Bone Joint J 2016*; 98B Supp 21, 42.
- 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". *J Limb Lengthen Reconstr* 2015; 1 Suppl S1:1-117
- Mulpuri K, Dobbe A, Schaeffer E, Miyanji F, Alvarez C, Cooper A, Reilly C. Management of displaced supracondylar fractures of the humerus using lateral versus cross k wires: a prospective randomised trial. *Bone Joint J 2016*; 98B Supp 21, 93.
- Park S, Dobbe A, Chhina H, Cooper AP. A systematic review of cost analyses of amputation and limb reconstruction in fibular hemimelia. Submitted to *Journal of Limb Lengthening & Reconstruction*, February 2017.
- Archer L, Dobbe A, Chhina H, Velásquez HA, Cooper A. Inter- and Intraobserver Reliability of the Pixel Value Ratio, Ru Li, and Donnan Classification of Regenerate Quality in Pediatric Limb Lengthening. Submitted to *Journal of Pediatric Orthopaedics*, July 2016. Manuscript# JPOS-16-00560.
- Jones CE, Cooper AP, Doucette J, Buchan LL, Wilson DR, Mulpuri K, d'Entremont AG. How do Errors in Frog-Lateral Plane Positioning affect Southwick Angle Measurements? Submitted to *Journal of Pediatric Orthopaedics*, September 2016.

Dr. Pirani

- Obrebsky W, Agel J, Archer K, To P, Tornetta P 3rd, SPRINT Investigators. Character, Incidence, and Predictors of Knee Pain and Activity After Infrapatellar Intramedullary Nailing of an Isolated Tibia Fracture. *Journal of Orthopaedic Trauma*. 2016, 30(3):135-141
- Lin CA, Swiontkowski M, Bhandari M, Walter SD, Schemitsch EH, Sanders D, Tornetta P 3rd, SPRINT Investigators. Reaming Does Not Affect Functional Outcomes After Open and Closed Tibial Shaft Fractures: The Results of a Randomized Controlled Trial. *Journal of Orthopaedic Trauma*. 2016, 30(3):142-148.

05

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
Canadian Institutes of Health Research (CIHR)	Outcome of hip interventions for children with cerebral palsy – An international multi-center prospective comparative cohort study	C	520,000	2014 to 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	
BCCH Research Institute Capacity Building Award	Pediatric orthopaedic hip research/ Imaging research unit	C	125,000	2014-2019	K Mulpuri	
BCCH Research Institute Investigator Establishment Award	Pediatric orthopaedic hip research program	C	50,000	2015-2020	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 3-dimensional 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
Pediatric Orthopaedic Society of North America	Type II pediatric supracondylar humerus fracture management and outcomes: a prospective multi-centre cohort study	C	9,938	2015-2016	C Reilly	RB Willis K Mulpuri A Cooper S Carsen
UBC OREF	Development and validation of a patient reported outcome instrument for children with lower limb deformities	C	32,000	May 2015 to May 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

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## 05 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CFRI IGAP	Pediatric Limb Reconstruction	C	54,000	2016-2021	A <b>Cooper</b>	
Rare Disease Foundation	Exome Sequencing in Congenital Pseudarthrosis of Tibia	C	3,500	Jan 2016 to Jan 2017	A <b>Cooper</b>	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 <b>Cooper</b>	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 <b>Mulpuri</b>	E Schaeffer A <b>Cooper</b>
CIDA	Sustainable Clubfoot Care in Bangladesh	C	4,320,160 (over 5 years)	2012-2017	SP <b>Pirani</b>	R Mahias
STELLA Award	Limb Lengthening and Reconstruction Society Traveling Fellowship	NC	5000	2016	<b>Dr. Anthony Cooper</b>	
BCCH Research Institute	Evidence to Innovation	NC	8,400	2015-2018	K <b>Mulpuri</b> I Pike	
BCCH Foundation Circle of Care	Pediatric Orthopaedic Research Support	NC	20,000	2016	CW <b>Reilly</b>	
BCCH Foundation Circle of Care	Pediatric Orthopaedic Research Support	NC	20,000	2016	CW <b>Reilly</b>	
BCCH Foundation Circle of Care	Pediatric Orthopaedic Research Support	NC	20,000	2016	CW <b>Reilly</b>	
BCCH Foundation Circle of Care	Pediatric Orthopaedic Research Support	NC	20,000	2016	CW <b>Reilly</b>	

## Fellows Supervised

- *Dr. Lori Ann Archer, Clinical Fellow (Canada) (August 1, 2015 - July 31, 2016)*
- *Dr. Ashlee Dobbe, Clinical Fellow (Canada) (August 1, 2015 - July 31, 2016)*
- *Dr. Rubini Pathy, Clinical Fellow (Canada) (August 1, 2015 - December 31, 2016)*
- *Dr. Andrea Simmonds, Clinical Fellow (Canada) (August 1, 2015 - July 31, 2017)*
- *Dr. Arnold Suzuki (Australia) (August 1, 2016 - July 31, 2017)*
- *Dr. James McCammon (Canada) (August 1, 2016 - July 31, 2017)*
- *Dr. Luigi Nasto (Italy) (August 1, 2016 - July 31, 2017)*
- *Dr. Rojit Bansal (India) (November 1, 2016 - August, 2017)*

## Residents Supervised

- |                                  |  |
|----------------------------------|--|
| • <i>Chad Johnson, PGY 4</i>     | <i>March – April 2016</i>              |
| • <i>Tym Frank, PGY 5</i>        | <i>May 9 – June 30, 2016</i>           |
| • <i>Geoffrey Jarvie, PGY 4</i>  | <i>April – May 2016</i>                |
| • <i>Tym Frank, PGY 5</i>        | <i>May 19 – June 22, 2016</i>          |
| • <i>Jennifer Nevin, PGY 2</i>   | <i>May 9 – June 30, 2016</i>           |
| • <i>Brett Kilb, PGY 4</i>       | <i>July 1 – August 28, 2016</i>        |
| • <i>Oliver Gagne, PGY 2</i>     | <i>July 1 – September 25, 2016</i>     |
| • <i>Geoffrey Jarvie, PGY 5</i>  | <i>August 29 – October 23, 2016</i>    |
| • <i>Benjamin Jong, PGY 4</i>    | <i>August 29 – October 23, 2016</i>    |
| • <i>Jackie Ngai, PGY 5</i>      | <i>October 24 – January 15, 2017</i>   |
| • <i>Darcy Marr, PGY 4</i>       | <i>October 24 – January 15, 2017</i>   |
| • <i>Lindsay Anderson, PGY 2</i> | <i>October 24 – January 15, 2017</i>   |
| • <i>Amar Cheema, PGY 2</i>      | <i>December 19 – February 13, 2017</i> |
| • <i>Lauren Roberts, PGY 5</i>   | <i>January 16 – March 12, 2017</i>     |
| • <i>Christopher Day, PGY 2</i>  | <i>February 14 – May 7, 2017</i>       |
| • <i>Chad Johnson, PGY 5</i>     | <i>March 13 – April 2, 2017</i>        |
| • <i>Ian Wilson, PGY 4</i>       | <i>March 13 – May 7, 2017</i>          |

## Students: April 1, 2016 to March 31, 2017

### **Other:**

#### Resident Electives:

<i>Meghan Gilley, UBC Ped Resident</i>	<i>February 15 – March 5, 2016</i>
<i>Mike Berger, UBC Ped Rehab Resident</i>	<i>August 29 – November 30, 2016</i>
<i>Sarah Courtice, UBC Ped Rehab Resident</i>	<i>Nov 21, 2016 - Feb 13, 2017 (Dr. Alvarez)</i>
<i>Anna McNally, UBC Dev Ped Resident</i>	<i>December 12, 2016 (Dr. Mulpuri, CP clinic)</i>

#### Fellow Electives:

<i>Dr. Jessica Paul (PEM Fellow)</i>	<i>August 2 – 28, 2016</i>
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### **Number of medical student (year of study), and summer research students**

- 4th Year Medical Students – April 1, 2016 – March 31, 2017 - 34 students
- Year 2 Medical Students – 2
- Year 1 Medical Student – 2
- Co-op Students (Research) – 9
- Research Summer Students – 5
- High School Students (Research Volunteers) – 3
- UBC Engineering Students (observe Dr. Reilly's scoli clinic) – 3
- BCIT Prosthetic & Orthotics:
  - September 20 - November 15, 2016 – 12
  - January 10 – April 4, 2017 – 12



## COMMITTEE PARTICIPATION

### Dr. Reilly

- BCCH Department of Paediatric Orthopaedic Surgery, Department Head
- UBC Department of Orthopaedics, Faculty Advisory Committee
- UBC Department of Orthopaedics, Orthopaedic Academic Council Committee
- UBC Department of Orthopaedics, MSc Thesis Committee
- UBC Department of Orthopaedics,
- BCCH Orthopaedic Re-design Committee
- Surgical Cabinet
- Surgical Services Advisory Committee (SSAC)
- The Department of Pediatric Surgery Surgical Cabinet
- Department Heads, Division Heads and Senior Medical Directors Committee
- CST Design Work for Ambulatory
- SSC Project TCON (Complex Orthopaedic) Committee
- Ambulatory Leadership Committee
- Physician Leadership Program
- Panel Member, Privileging Dictionary Refresh Program, Ortho Surgery
- Ortho Trauma VAT
- Pediatric Orthopaedic Society of North America
- Association of Surgical Educators
- American Academy of Orthopaedic Surgeons
- Canadian Orthopaedic Association
- Scoliosis Research Society
- International Pediatric Orthopaedic Think Tank
- British Columbia Medical Association
- Canadian Medical Association
- British Columbia Orthopaedic Association
- Journal of Pediatric Orthopaedics, Pediatric Society of North America, Reviewer
- Child and Family Research Institute, Member
- Centre for Hip Health, Member
- Merit & PSA Committee, UBC Department of Orthopaedics, Member
- Muscular Diseases Clinic, BCCH, Consultant

### Dr. Beauchamp

- Shriner's Gait Lab, Sunny Hill Health Centre, Medical Director (BCCH)
- 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
- Gait and Clinical Motion Analysis Society, Member
- American Academy of Cerebral Palsy and Development Medicine, Member
- Spasticity Advisory Committee, Allergan Canada, Member
- Running Room, Canada, Instructor
- Galiano Health Care Society Board, Member

### Dr. Alvarez

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

## COMMITTEE PARTICIPATION

### Dr. 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
- Journal of Children's Orthopaedics, Reviewer
- Journal of Orthopaedic Surgery, Reviewer
- Journal of Pediatric Orthopaedics Evidence-Based medicine Section, Editor
- Journal of Pediatric Orthopaedics, Reviewer
- Journal of Pediatric Orthopaedics, Part B, Reviewer
- Journal of the American Academy of Orthopaedic Surgeons, Reviewer
- Postgraduate Medicine, Reviewer

### Dr. Miyanji

- British Columbia Medical Association
- Canadian Orthopaedic Association
- Pediatric Orthopaedic Society of North America
- Canadian Spine Society
- Canadian Paediatric Spinal Deformity Study Group
- Harms Study Group
- Scoliosis Research Society World Wide Committee
- QSVI Committee – POSNA
- Appointed Member POSNA Research Committee
- Core Member Growing Spine Study Group
- Scoliosis Research Society

## COMMITTEE PARTICIPATION

Dr. Miyanji	<ul style="list-style-type: none"> <li>• Scoliosis Research Society Program Committee</li> <li>• Scoliosis Research Society Awards and Scholarships Committee</li> <li>• Collaborative Spine Research Forum Advisory</li> <li>• Examiner (Orthopaedic Surgery, FRCSC) Royal College of Physicians and Surgeons of Canada</li> <li>• Resident Program Committee, UBC Department of Orthopaedics</li> </ul>
Dr. Cooper	<ul style="list-style-type: none"> <li>• Trauma Steering Committee, BC Children's Hospital</li> <li>• Theme Co-Lead, Clinical Practice, Outcomes &amp; Innovation, Evidence to Innovation (E2i)</li> <li>• BC Children's Hospital BioBank Biospecimen Advisory committee</li> <li>• Canadian Orthopaedic Association, Scientific Review Board</li> <li>• Canadian Paediatric Orthopaedic Group, Treasurer</li> <li>• Pediatric Orthopaedic Society of North America, Active Member</li> <li>• Mentorship Committee, Pediatric Orthopaedic Society of North America</li> </ul>
Dr. Leveille	<ul style="list-style-type: none"> <li>• Pediatric Orthopedic Society of North America</li> <li>• Canadian Orthopaedic Association</li> <li>• Ruth Jackson Orthopaedic Society</li> <li>• BC Medical Association</li> <li>• Canadian Medical Association</li> <li>• Uganda Sustainable Trauma Orthopaedic Program (USTOP)</li> </ul>
Dr. Pirani	<ul style="list-style-type: none"> <li>• College of Physicians &amp; Surgeons of BC</li> <li>• British Columbia Medical Association</li> <li>• Canadian Orthopaedic Association</li> <li>• Canadian Pediatric Orthopaedic Group</li> <li>• American Board of Orthopaedic Surgery</li> <li>• American Academy of Orthopaedic Surgeons</li> <li>• Avicenna Physicians Society</li> <li>• Royal College of Physicians &amp; Surgeons of Canada</li> <li>• ASAMI – North America (The Limb Lengthening and Reconstructive Society)</li> <li>• The American Orthopaedic Foot and Ankle Society</li> <li>• Pediatric Orthopaedic Society of North America</li> <li>• Ponseti International Association for the Treatment of Clubfoot, Chair Medical Advisory Board</li> <li>• Pediatric Orthopaedic Society of North America, Children's Orthopaedics in Underdeveloped Regions (COUR) Committee, Member</li> <li>• Global HELP International Board</li> <li>• The International Clubfoot Study Group, Member</li> <li>• The Rotary Club of Burnaby, Member</li> </ul>
Dr. Ghag	<ul style="list-style-type: none"> <li>• Canadian Orthopaedic Association</li> <li>• American Academy of Orthopaedic Surgeons</li> <li>• North American Spine Society</li> <li>• Scoliosis Research Society</li> <li>• Paediatric Orthopaedic Society of North America</li> <li>• College of Physicians and Surgeons of British Columbia</li> <li>• Royal College of Physicians and Surgeons of Canada</li> <li>• Medical Council of Canada</li> <li>• Canadian Medical Protective Association</li> <li>• British Columbia Medical Association</li> <li>• Scoliosis Research Society, E-Text Committee</li> </ul>
Alec Black	<ul style="list-style-type: none"> <li>• Gait and clinical Motion Analysis Society, Member</li> </ul>

## DEPARTMENT OF PEDIATRIC ORTHOPAEDIC SURGERY

2017-2018



### Faculty Members

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

Dr. Richard D. **Beauchamp**, Clinical Professor

Dr. Christine M. **Alvarez**, Clinical Associate Professor

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

Dr. Firoz **Miyanji**, Clinical Assistant Professor

Dr. Arvinder **Ghag**, Clinical Instructor

Dr. Anthony **Cooper**, Clinical Assistant Professor

Dr. Lise **Leveille**, Clinical Instructor

Dr. Shafique P. **Pirani**, Clinical Professor

Alec Black, Clinical Instructor

## OTHER STAFF MEMBERS:

- Brenda Whitworth, Administrative Secretary
- Emily Schaeffer, Research (for Drs. Reilly and Mulpuri)
- Tammie Teo, Research (for Drs. Reilly and Mulpuri)
- Eva Habib, Research (for Dr. Mulpuri)
- Roya Yamini, Research (for Dr. Mulpuri)
- Harpreet Chhina, Research (for Dr. Cooper)
- Michele Stark, MOA to Dr. C. Reilly
- Marilyn Timbrell, MOA to Dr. C. Alvarez
- Salima Damani MOA to Dr. K. Mulpuri
- Susan Ramiscal MOA to Dr. A. Cooper
- Jennifer Farr, MOA to Dr. K. Mulpuri
- Valerie Walsh, MOA to Dr. F. Miyajima and Dr. A. Ghag
- Melissa Hart, MOA to Dr. Leveille
- Anna Stonehouse, MOA to Dr. S. Pirani
- Dolly Khanna, 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
- Janis Bui, Orthopaedic Clinic
- Stacey Miller, PT, CP Hip Surveillance
- Nandy Farjardo, PT, Ortho Clinic
- Maria Juricic, PT, Ortho Clinic
- Daphne O'Young, OT, Ortho Clinic

## HIGHLIGHTS AND ACHIEVEMENTS

### Dr. Reilly

Stephen J Tredwell Visiting Professor Education Day: Dr. Peter Waters, Visiting Professor. BCCH

Department of Orthopaedics, Vancouver, BC, November 10, 2017

### Dr. Cooper

STELLA Award

### Dr. Lise Leveille

STELLA Award

### Dr. Mulpuri

CFRI – “Clinical Research Capacity Building (CRCB) Award” \$125,000, April 2014-March 31, 2019

COA “Presidential Award for Excellence 2017” Presented at the COA Annual Meeting, Ottawa, June 15, 2017

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

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

J. Edouard Samson Award. Canadian Orthopaedic Association, 2017.

This current objective of the award is to provide recognition for the best career orthopaedic research over a period of at least 5 years at a Canadian Centre, and to provide funds to promote further research (\$30,000)



## 08 TEACHING ACTIVITIES

***Presentations April 1, 2017 to March 31, 2018:******Dr. Reilly***

- *Department of Surgery Quality Meeting, April 12, 2017*
- *UBC Department of Orthopaedics Ortho Update and BCOA Annual Meeting, Vancouver, May 10-12 2017*
- *Chair: Dr. Henry Broekhuyse*
- *Moderators: Dr. J. Lawrence Marsh, Dr. Michael McKee, Dr. Anthony Cooper*
- *"Do infants with risk factors for DDH require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review", Dr. James McCammon*
- *"The need for further corrective surgery in DDH: surgical Decision-making and practice variability", Dr. Emily Schaeffer*
- *"Pedobarographic assessment and comparison of clubfeet treated with Ponsetti casting and Botox to the normal population", Dr. Arnold Suzuki*
- *Session 8: "Complications and Adverse Events – Solutions/Controversies"*
- *"McGraw lecture – Paediatric Limb Deformity", Dr. A. Cooper*
- *"Compartment Syndrome Prevention, Diagnosis, Management In the Pediatric/Adult Trauma Patient – What is the State of the Art in 2017?", Dr. L. Leveille*
- *"Physeal Injuries – Current solutions/controversies", Dr. K. Mulpuri*
- *"Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture", Dr. C. Reilly*
- *Meeting with Dr. Pike regarding "Role @ BCCH", July 20, 2017*
- *Dr. Reilly's Vision for upper extremity @ BCCH; "options for various portfolios – CP, arthrogryposis, brachial plexus, post-traumatic in particular relative to other low-complexity cases (i.e. trigger thumb)"*
- *Meeting with Maggie McIlwaine (also Michelle Jacobs), July 20, 2017*
- *Re "spinal surgeries impact on PT and a student project PT is undertaking"*
- *Review Project, BCCH, Vancouver, BC, July 21, 2017*
- *Interview Panel: Support for the Ambulatory*
- *(Organizer: Susan Schroeder)*
- *Committee Member MSc Thesis, August 31, 2017*
- *MSc proposal for Emma Woo*
- *2017 Stephen J Tredwell Visiting Professor Education Day, November 10, 2017*
- *Visiting Professor: Dr. Peter Waters*
- *Organizer: Dr. Christopher Reilly*
- *Western Medical Research Conference, Carmel USA, Jan 25-27, 2017*
- *"Oliguria in pediatric spinal instrumentation surgery: Is it acute kidney injury (AKI)?" Tang J, De Mello A, Teo T, Reilly C, Morrison A, Mulpuri K, Mammen C.*

***Dr. Alvarez***

- *UBC Department of Orthopaedics Ortho Update and BCOA Annual Meeting, Vancouver, May 10-12 2017*
- *Chair: Dr. Henry Broekhuyse*
- *Moderators: Dr. J. Lawrence Marsh, Dr. Michael McKee, Dr. Anthony Cooper*
- *"Do infants with risk factors for DDH require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review", Dr. James McCammon*
- *"The need for further corrective surgery in DDH: surgical Decision-making and practice variability", Dr. Emily Schaeffer*
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- *"Compartment Syndrome Prevention, Diagnosis, Management In the Pediatric/Adult Trauma Patient – What is the State of the Art in 2017?", Dr. L. Leveille*
- *"Physeal Injuries – Current solutions/controversies", Dr. K. Mulpuri*



## TEACHING ACTIVITIES

*Presentations April 1, 2017 to March 31, 2018:***Dr. Alvarez**

- *"Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture", Dr. C. Reilly*
- *2017 Stephen J Tredwell Visiting Professor Education Day, November 10, 2017*
- *Visiting Professor: Dr. Peter Waters*
- *Organizer: Dr. Christopher Reilly*

**Dr. Mulpuri**

- *European Paediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Annual Meeting, Barcelona, ESP, May 3 -6, 2017.*
- *"Hip Surveillance for Children with Cerebral Palsy: A Survey of the POSNA Membership." Shore B, Shrader M, Narayanan U, Miller F, Graham K, Mulpuri K.*
- *"Open Reduction for Developmental Dysplasia of the Hip: Early Outcomes from A Multi-Centre, International Prospective Cohort Study" Schaeffer E, Mulpuri K, Sankar W, Upasani V, Clarke N, Herrera J, Kim Y, Foster B, Matheney T, IHDI Study Group.*
- *"The Need for Further Corrective Surgery in Developmental Dysplasia of the Hip: Surgical Decision-Making and Practice Variability." Schaeffer E, Sankar W, Clarke N, Aroojis A, Price C, Mulpuri K, IHDI Study Group.*
- *UBC Department of Orthopaedics Ortho Update and BCOA Annual Meeting, Vancouver, May 10-12 2017*
- *Chair: Dr. Henry Broekhuysen*
- *Moderators: Dr. J. Lawrence Marsh, Dr. Michael McKee, Dr. Anthony Cooper*
- *"Do infants with risk factors for DDH require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review", Dr. James McCammon*
- *"The need for further corrective surgery in DDH: surgical Decision-making and practice variability", Dr. Emily Schaeffer*
- *"Pedobarographic assessment and comparison of clubfeet treated with Ponsetti casting and Botox to the normal population", Dr. Arnold Suzuki*
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- *"McGraw lecture – Paediatric Limb Deformity", Dr. A. Cooper*
- *"Compartment Syndrome Prevention, Diagnosis, Management In the Pediatric/Adult Trauma Patient – What is the State of the Art in 2017?", Dr. L. Leveille*
- *"Physal Injuries – Current solutions/controversies", Dr. K. Mulpuri*
- *"Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture", Dr. C. Reilly*
- *"Reliably assessing developmental dysplasia of the hip using 3D ultrasound imaging." Quader N, Hodgson A, Mulpuri K, Cooper A, Schaeffer E, Teo T, Abugharbieh R.*
- *The 2017 International Meeting of Computer Assisted Orthopedic Surgery Society (CAOS), Aachen, Germany, June 14-17, 2017*
- *"Quantifying Dynamic Assessment of Developmental Dysplasia of the Hip." Paserin O, Quader N, Mulpuri K, Cooper A, Schaeffer E, Hodgson A, Abugharbieh R.*
- *Canadian Orthopaedic Association Annual Meeting, Ottawa ON, June 15-18 2017*
- *"Development of the First Province/State-wide Hip Surveillance Program for Children with Cerebral Palsy in North America: Evidence, Consensus and Implementation." Miller S, Mulpuri K, O'Donnell M.*
- *"The Need for Further Corrective Surgery in Developmental Dysplasia of the Hip: Surgical Decision-Making and Practice Variability." Schaeffer EK, Mulpuri K, Sankar W, Clarke N, Aroojis A, Price C, IHDI Study Group.*
- *"Femoral Nerve Palsy in Brace Treatment for Developmental Dysplasia of the Hip: Incidence and Outcomes in a Prospective International Cohort." Schaeffer EK, Clarke N, Kelley S, Williams N, Mulpuri K, IHDI Study Group.*
- *"Open Reduction for Developmental Dysplasia of the Hip: Early Outcomes from A Multi-Centre, International Prospective Cohort Study." Matheney T, Schaeffer EK, Mulpuri K, Sankar W, Upasani V, Clarke N, Herrera J, Kim Y, Foster B, IHDI Study Group.*
- *"Does the Immediate Postoperative Radiograph Change Patient Management after Surgical Fracture Fixation? A Systematic Review." Teo T, Schaeffer EK, Cooper A, Mulpuri K.*
- *Visiting Professor: "Management of Hips in Children with Cerebral Palsy" University of Western Ontario, London ON, August 2017.*

## TEACHING ACTIVITIES

**Presentations April 1, 2017 to March 31, 2018:**

- |                    |  |
|--------------------|--|
| <b>Dr. Mulpuri</b> | <ul style="list-style-type: none"> <li>• <i>Medical Image Computing and Computer Assisted Intervention (MICCAI), Quebec City, QC, Sep 10-14, 2017</i></li> <li>• <i>"Tomographic Reconstruction Based Learning for Automatic Characterization of Hip Dysplasia via a 3D Femoral Hip Coverage Feature." Quader N, Hodgson A, Mulpuri K, Cooper A, Abugharbieh R.</i></li> <li>• <i>Western Medical Research Conference, Carmel USA, Jan 25-27, 2017</i></li> <li>• <i>"Oliguria in pediatric spinal instrumentation surgery: Is it acute kidney injury (AKI)?" Tang J, De Mello A, Teo T, Reilly C, Morrison A, Mulpuri K, Mammen C</i></li> </ul>  |
| <b>Dr. Miyanji</b> | <ul style="list-style-type: none"> <li>• <i>EPOSNA (European Paediatric Orthopaedic Society and Pediatric Orthopaedic Society of North America combined) Annual Conference, Barcelona Spain, May 2017.</i></li> <li>• <i>"Assessing the risk/benefit ratio of surgery in CP: is surgery worth it?" Miyanji F, Shah S, Samdani A, Lonner B, Yaszay B, Asghar J, Clements D, Newton P.</i></li> <li>• <i>"2-year follow-up in spine clinical research: an adequate benchmark?" Miyanji F, Desai S, Samdani A, Shah S, Petcharaporn M, Asghar J, Yaszay B, Shuffelbarger H, Betz R, Newton P.</i></li> <li>• <i>EPOSNA (European Paediatric Orthopaedic Society and Pediatric Orthopaedic Society of North America combined) Annual Conference, Barcelona Spain, May 2017</i></li> <li>• <i>Poster Presentation – "Impact of an accelerated discharge pathway on early outcomes and recovery following posterior spinal fusion for adolescent idiopathic scoliosis: a prospective comparative study." Fletcher ND, Murphy JS, Bush P, Guerreso H, Habib E, Kusomoto H, Schmitz ML, Miyanji F.</i></li> </ul>  |
| <b>Dr. Cooper</b>  | <ul style="list-style-type: none"> <li>• <i>UBC Department of Orthopaedics Ortho Update and BCOA Annual Meeting, Vancouver, May 10-12 2017</i></li> <li>• <i>Chair: Dr. Henry Broekhuysen</i></li> <li>• <i>Moderators: Dr. J. Lawrence Marsh, Dr. Michael McKee, Dr. Anthony Cooper</i></li> <li>• <i>"Do infants with risk factors for DDH require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review", Dr. James McCammon</i></li> <li>• <i>"The need for further corrective surgery in DDH: surgical Decision-making and practice variability", Dr. Emily Schaeffer</i></li> <li>• <i>"Pedobarographic assessment and comparison of clubfeet treated with Ponsetti casting and Botox to the normal population", Dr. Arnold Suzuki</i></li> <li>• <i>Session 8: "Complications and Adverse Events – Solutions/Controversies"</i></li> <li>• <i>"McGraw lecture – Paediatric Limb Deformity", Dr. A. Cooper</i></li> <li>• <i>"Compartment Syndrome Prevention, Diagnosis, Management In the Pediatric/Adult Trauma Patient – What is the State of the Art in 2017?", Dr. L. Leveille</i></li> <li>• <i>"Physeal Injuries – Current solutions/controversies", Dr. K. Mulpuri</i></li> <li>• <i>"Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture", Dr. C. Reilly</i></li> <li>• <i>The 2017 International Meeting of Computer Assisted Orthopedic Surgery Society (CAOS), Aachen, Germany, June 14-17, 2017</i></li> <li>• <i>"Quantifying Dynamic Assessment of Developmental Dysplasia of the Hip." Paserin O, Quader N, Mulpuri K, Cooper A, Schaeffer E, Hodgson A, Abugharbieh R.</i></li> <li>• <i>Canadian Orthopaedic Association Annual Meeting, Ottawa ON, June 15-18 2017</i></li> <li>• <i>"Development of the First Province/State-wide Hip Surveillance Program for Children with Cerebral Palsy in North America: Evidence, Consensus and Implementation." Miller S, Mulpuri K, O'Donnell M.</i></li> <li>• <i>"The Need for Further Corrective Surgery in Developmental Dysplasia of the Hip: Surgical Decision-Making and Practice Variability." Schaeffer EK, Mulpuri K, Sankar W, Clarke N, Aroojis A, Price C, IHDI Study Group.</i></li> <li>• <i>"Femoral Nerve Palsy in Brace Treatment for Developmental Dysplasia of the Hip: Incidence and Outcomes in a Prospective International Cohort." Schaeffer EK, Clarke N, Kelley S, Williams N, Mulpuri K, IHDI Study Group.</i></li> <li>• <i>"Open Reduction for Developmental Dysplasia of the Hip: Early Outcomes from A Multi-Centre, International Prospective Cohort Study." Matheney T, Schaeffer EK, Mulpuri K, Sankar W, Upasani V, Clarke N, Herrera J, Kim Y, Foster B, IHDI Study Group.</i></li> <li>• <i>"Does the Immediate Postoperative Radiograph Change Patient Management after Surgical Fracture Fixation? A Systematic Review." Teo T, Schaeffer EK, Cooper A, Mulpuri K.</i></li> </ul> |

## 01

## TEACHING ACTIVITIES

*Presentations April 1, 2017 to March 31, 2018:***Dr. Cooper**

- *Medical Image Computing and Computer Assisted Intervention (MICCAI), Quebec City, QC, Sep 10-14, 2017*
- *"Tomographic Reconstruction Based Learning for Automatic Characterization of Hip Dysplasia via a 3D Femoral Hip Coverage Feature." Quader N, Hodgson A, Mulpuri K, Cooper A, Abugharbieh R.*
- *Paediatric Limb Deformity-Royal Columbian Hospital, September 21, 2017.*
- *"Prescription Opioids and Children: The Best Use to Prevent Misuse, While Bringing Pain to Truce." 2018 POSNA Pain Management/Opioids Symposia Program, Austin, Texas. May 9-12, 2018*
- *"Real Time RNN Based 3D Ultrasound Scan Adequacy for Developmental Dysplasia of the Hip". MICCAI 2018, Granada, Spain. September 16-20 2018.*
- *"Management of Limb Deformities", Stephen J Tredwell Visiting Professor Day, BC Children's Hospital*
- *HA Coated Pins. Presenter at Vilex education: ORTHEx Hexapod course, St. Mary's Medical Center, Nov 2018*

**Dr. Ghag**

- *UBC Department of Orthopaedics Ortho Update and BCOA Annual Meeting, Vancouver, May 10-12 2017*
- *Chair: Dr. Henry Broekhuysse*
- *Moderators: Dr. J. Lawrence Marsh, Dr. Michael McKee, Dr. Anthony Cooper*
- *"Do infants with risk factors for DDH require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review", Dr. James McCammon*
- *"The need for further corrective surgery in DDH: surgical Decision-making and practice variability", Dr. Emily Schaeffer*
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- *"Physeal Injuries – Current solutions/controversies", Dr. K. Mulpuri*
- *"Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture", Dr. C. Reilly*

**Dr. Leveille**

- *UBC Department of Orthopaedics Resident Oral Exams, VGH, April 27, 2017*
- *UBC Department of Orthopaedics Ortho Update and BCOA Annual Meeting, Vancouver, May 10-12 2017*
- *Chair: Dr. Henry Broekhuysse*
- *Moderators: Dr. J. Lawrence Marsh, Dr. Michael McKee, Dr. Anthony Cooper*
- *"Do infants with risk factors for DDH require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review", Dr. James McCammon*
- *"The need for further corrective surgery in DDH: surgical Decision-making and practice variability", Dr. Emily Schaeffer*
- *"Pedobarographic assessment and comparison of clubfeet treated with Ponsetti casting and Botox to the normal population", Dr. Arnold Suzuki*
- *Session 8: "Complications and Adverse Events – Solutions/Controversies"*
- *"McGraw lecture – Paediatric Limb Deformity", Dr. A. Cooper*
- *"Compartment Syndrome Prevention, Diagnosis, Management In the Pediatric/Adult Trauma Patient – What is the State of the Art in 2017?", Dr. L. Leveille*
- *"Physeal Injuries – Current solutions/controversies", Dr. K. Mulpuri*
- *"Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture", Dr. C. Reilly*
- *"Podium Presentation – Can pediatric tourniquet practice and guidelines be improved using personalized pressures?", Canadian Orthopaedic Association Annual Meeting, June 2018*

**Dr. Pirani**

- *Global Clubfoot Conference. Organized by CURE International India. Vigyan Bhawan & Lady Hardigine, Swarn Jayanti Auditorium, New Delhi, India. November 1-2, 2017.*  
*Keynote Speaker: Dr. Pirani*
- *Advanced Ponseti Workshop: Improving Quality / Regional Clubfoot Conference. A Joint Programme of CURE International India and Gujarat Govt. Govt. Spine Institute, Civil Hospital, Ahmedabad, India. March 2018.*  
*Keynote Speaker: Dr. Pirani*
- *Advanced Ponseti Workshop: Improving Quality / Regional Clubfoot Conference. Organized by CURE International India. Gandhi Medical College, Hyderabad, India. March 13-14, 2018.*  
*Keynote Speaker: Dr. Pirani*

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Reilly**

- *OPSEI Rounds – BCCH, April 4, 2017*
- *“At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child’s Post-Operative Pain” Speaker: Dr. Terri Sun (Anesthesia Resident)*
- *“Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit” Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)*
- *“Wind of Change? – Canadian Health Care and the Surgical Waitlist” Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)*
- *Co-moderated: Dr. Frederick Kozak ((Otolaryngology)*
- *Co-moderated: Dr. Simon Whyte (Anesthesia)*
- *“Non-accidental Injury Update”, Provincial Trauma Rounds, BCCH, Vancouver, BC, April 18, 2017*
- *Surgical Suites Grand Rounds – CFRI, April 18, 2017*
- *“More Than Just A Move”*
- *Presenter: Dr. Eleanor Reimer*
- *Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017*
- *Visiting Fellow: Dr. Lachlan Milne*
- *“Pearls and adventures from 2 years of fellowship in 8 countries”*
- *Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri*
- *“Resident Oral Exams”, Examiner, UBC Department of Orthopaedics, VGH, April 27, 2017*
- *“Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture”, Department of Orthopaedics Update and BCOA Annual Meeting, Vancouver, BC, May 11-12, 2017*
- *OPSEI Orthopaedic Fellow Rounds, June 6, 2017*
- *“Where we’ve come from, where we’re going, what we’ve learnt at BC Children’s”*
- *Presenters: Dr. James McCammon, Dr. Luigi Nasto*
- *Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri*
- *Resident/Fellow/Medical Student Teaching: “Child with Limb Deficiency”, BCCH, June 20, 2017*
- *OPSEI Rounds – BCCH, July 4, 2017*
- *“Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites” Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites*
- *Moderator: Ms. Trish Page, Program Manager, Surgical Services*
- *OPSEI Rounds – BCCH, August 1, 2017*
- *REDCap 101: What REDCap Can Offer You” Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology*
- *Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho*
- *Example provided by: Ms. Iris Liu, OPSEI*
- *“Paediatric Spine Disorders: Scoliosis, Kyphosis Instability”, UBC Department of Orthopaedic Resident Half-Day, VGH, August 10, 2017*
- *OPSEI Rounds – BCCH, September 5, 2017*
- *“Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases” Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC*
- *“Management of Diabetes Clinic in Soroti, Uganda: A Survey” Speaker: Ms. Nicki Gabers, Medical Student, UBC*
- *“Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda” Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC*
- *“Surgery and Society” Speaker: Ms. Tanjot Singh, Medical Student, UBC*
- *Surgical Suites Grand Rounds – CFRI, September 12, 2017*
- *“21st Century Pediatric Airway Management - Reducing Death & Harm”*
- *Presenter: Dr. Cheryl Peters, Dr. Simon Whyte*
- *OPSEI Rounds – BCCH, October 3, 2017*
- *“A Historic overview of myelomeningocele at BCCH” Speaker: Mr. Taylor North, Medical Student, UBC*

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Reilly**

- *"Patient Care Evaluation Survey in Orthopaedics"* Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)
- *"Medical Staff Engagement Through Photovoice"* Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC
- Moderator: Dr. Hannah Piper, Pediatric Surgery
- Resident/Fellow/Medical Student Teaching: *"The Pediatric Orthopaedic Examination"*, BCCH, October 24, 2017
- Visiting Lecturer, 2017 Brian Greenhill Pediatric Orthopedic Surgery, University of Alberta, Edmonton, Alberta, November 30-December 1, 2017
- OPSEI Academic Rounds, Department of Orthopaedic Surgery – October 3, 2017
- *"Patient Care Evaluation Survey in Orthopaedics"*
- Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC
- (Supervisor: Dr. Christopher Reilly)
- OPSEI Rounds – BCCH, November 7, 2017
- *"Virtual Reality as a Pre-operative Neurosurgical Tool"* Speaker: Vivian Braithwaite, Medical Student, UBC
- *"OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency"* Speaker: Angela Ji, Medical Student, UBC
- *"Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital"* Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC
- *"Paediatric Elbow Fractures from a Child's Viewpoint"* Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)
- Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery
- OPSEI Rounds – BCCH, December 5, 2017
- *"Tissue Expansion and Scoliosis"* Speaker: Paul Yen, Medical Student, UBC
- *"Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children"* Speaker: Alice Liu, Medical Student, UBC
- *"Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery"* Speaker: Joshua Foley, Medical Student, UBC
- *"Cleft lip and palate educational video resource for families: needs assessment"* Speaker: Karina Spoyalo, Medical Student, UBC
- Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery
- Grand Rounds, UBC Department of Orthopaedics, December 13, 2017
- *"Provincial DDH Screening Program"*
- Presenter: Dr. Christopher Reilly
- Moderator, Dr. Nelson Greidanus
- Resident/Fellow/Medical Student Teaching: *"Cerebral Palsy"*, BCCH, January 12, 2018

**Dr. Beauchamp**

- OPSEI Rounds – BCCH, April 4, 2017
- *"At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child's Post-Operative Pain"* Speaker: Dr. Terri Sun (Anesthesia Resident)
- *"Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit"* Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)
- *"Wind of Change? – Canadian Health Care and the Surgical Waitlist"* Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)
- Co-moderated: Dr. Frederick Kozak (Otolaryngology)
- Co-moderated: Dr. Simon Whyte (Anesthesia)
- Grand Rounds – UBC Department of Orthopaedics, April 5, 2017
- Surgical Suites Grand Rounds – CFRI, April 18, 2017



**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Beauchamp**

- *"More Than Just A Move"*
- *Presenter: Dr. Eleanor Reimer*
- *Grand Rounds – UBC Department of Orthopaedics, April 19, 2017*
- *"Management of Glenoid bone Loss during Shoulder Arthroplasty" Presenter: Dr. Patrick Chin*
- *Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017*
- *Visiting Fellow: Dr. Lachlan Milne*
- *"Pearls and adventures from 2 years of fellowship in 8 countries"*
- *Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri*
- *OPSEI Orthopaedic Fellow Rounds, June 6, 2017*
- *"Where we've come from, where we're going, what we've learnt at BC Children's"*
- *Presenters: Dr. James McCammon, Dr. Luigi Nasto*
- *Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri*
- *OPSEI Rounds – BCCH, July 4, 2017*
- *"Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites" Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites*
- *Moderator: Ms. Trish Page, Program Manager, Surgical Services*
- *OPSEI Rounds – BCCH, August 1, 2017*
- *REDCap 101: What REDCap Can Offer You" Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology*
- *Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho*
- *Example provided by: Ms. Iris Liu, OPSEI*
- *OPSEI Rounds – BCCH, September 5, 2017*
- *"Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases" Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC*
- *"Management of Diabetes Clinic in Soroti, Uganda: A Survey" Speaker: Ms. Nicki Gabers, Medical Student, UBC*
- *"Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda" Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC*
- *"Surgery and Society" Speaker: Ms. Tanjot Singh, Medical Student, UBC*
- *Surgical Suites Grand Rounds – CFRI, September 12, 2017*
- *"21st Century Pediatric Airway Management - Reducing Death & Harm"*
- *Presenter: Dr. Cheryl Peters, Dr. Simon Whyte*
- *OPSEI Rounds – BCCH, October 3, 2017*
- *"A Historic overview of myelomeningocele at BCCH" Speaker: Mr. Taylor North, Medical Student, UBC*
- *"Patient Care Evaluation Survey in Orthopaedics" Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)*
- *"Medical Staff Engagement Through Photovoice" Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC*
- *Moderator: Dr. Hannah Piper, Pediatric Surgery*
- *Grand Rounds – UBC Department of Orthopaedics, November 1, 2017*
- *OPSEI Rounds – BCCH, November 7, 2017*
- *"Virtual Reality as a Pre-operative Neurosurgical Tool" Speaker: Vivian Braithwaite, Medical Student, UBC*
- *"OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency" Speaker: Angela Ji, Medical Student, UBC*



**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Beauchamp**

- *"Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital"* Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC
- *"Paediatric Elbow Fractures from a Child's Viewpoint"* Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)
- Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery
- OPSEI Rounds – BCCH, December 5, 2017
- *"Tissue Expansion and Scoliosis"* Speaker: Paul Yen, Medical Student, UBC
- *"Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children"* Speaker: Alice Liu, Medical Student, UBC
- *"Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery"* Speaker: Joshua Foley, Medical Student, UBC
- *"Cleft lip and palate educational video resource for families: needs assessment"* Speaker: Karina Spoyalo, Medical Student, UBC
- Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery
- Grand Rounds – UBC Department of Orthopaedics, January 24, 2018
- Grand Rounds – UBC Department of Orthopaedics, January 31, 2018
- Grand Rounds – UBC Department of Orthopaedics, February 28, 2018
- Grand Rounds – UBC Department of Orthopaedics, March 28, 2018
- OPSEI Rounds – BCCH, April 4, 2017

**Dr. Alvarez**

- *"At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child's Post-Operative Pain"* Speaker: Dr. Terri Sun (Anesthesia Resident)
- *"Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit"* Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)
- *"Wind of Change? – Canadian Health Care and the Surgical Waitlist"* Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)
- Co-moderated: Dr. Frederick Kozak (Otolaryngology)
- Co-moderated: Dr. Simon Whyte (Anesthesia)
- Surgical Suites Grand Rounds – CFRI, April 18, 2017
- *"More Than Just A Move"*
- Presenter: Dr. Eleanor Reimer
- Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017
- Visiting Fellow: Dr. Lachlan Milne
- *"Pearls and adventures from 2 years of fellowship in 8 countries"*
- Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri
- Resident/Fellow/Medical Student Teaching: *"The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse"*, BCCH, May 23, 2017
- OPSEI Orthopaedic Fellow Rounds, June 6, 2017
- *"Where we've come from, where we're going, what we've learnt at BC Children's"*
- Presenters: Dr. James McCammon, Dr. Luigi Nasto
- Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri
- OPSEI Rounds – BCCH, July 4, 2017
- *"Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites"* Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites
- Moderator: Ms. Trish Page, Program Manager, Surgical Services
- Resident/Fellow/Medical Student Teaching: *"Management of Fractures"*, BCCH, July 25, 2017
- OPSEI Rounds – BCCH, August 1, 2017
- REDCap 101: What REDCap Can Offer You" Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology
- Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho, Example provided by: Ms. Iris Liu, OPSEI

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Alvarez**

- *OPSEI Rounds – BCCH, September 5, 2017*
- *“Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases” Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC*
- *“Management of Diabetes Clinic in Soroti, Uganda: A Survey” Speaker: Ms. Nicki Gabers, Medical Student, UBC*
- *“Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda” Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC*
- *“Surgery and Society” Speaker: Ms. Tanjot Singh, Medical Student, UBC*
- *Surgical Suites Grand Rounds – CFRI, September 12, 2017*
- *“21st Century Pediatric Airway Management - Reducing Death & Harm”*
- *Presenter: Dr. Cheryl Peters, Dr. Simon Whyte*
- *Resident/Fellow/Medical Student Teaching: “The Skeletal Dysplasias”, BCCH, September 12, 2017*
- *OPSEI Rounds – BCCH, October 3, 2017*
- *“A Historic overview of myelomeningocele at BCCH” Speaker: Mr. Taylor North, Medical Student, UBC*
- *“Patient Care Evaluation Survey in Orthopaedics” Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)*
- *“Medical Staff Engagement Through Photovoice” Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC*
- *Moderator: Dr. Hannah Piper, Pediatric Surgery*
- *Resident/Fellow/Medical Student Teaching: “The Upper Limb”, BCCH, November 2, 2017*
- *OPSEI Rounds – BCCH, November 7, 2017*
- *“Virtual Reality as a Pre-operative Neurosurgical Tool” Speaker: Vivian Braithwaite, Medical Student, UBC*
- *“OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency” Speaker: Angela Ji, Medical Student, UBC*
- *“Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children’s Hospital” Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC*
- *“Paediatric Elbow Fractures from a Child’s Viewpoint” Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)*
- *Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery*
- *Resident/Fellow/Medical Student Teaching: “Child with Limb Deficiency”, BCCH, November 14, 2017*
- *OPSEI Rounds – BCCH, December 5, 2017*
- *“Tissue Expansion and Scoliosis” Speaker: Paul Yen, Medical Student, UBC*
- *“Does 3D Facial Morphology Correlate to the Severity of Sleep Disturbances in Children” Speaker: Alice Liu, Medical Student, UBC*
- *“Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery” Speaker: Joshua Foley, Medical Student, UBC*
- *“Cleft lip and palate educational video resource for families: needs assessment” Speaker: Karina Spoyalo, Medical Student, UBC*
- *Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery*
- *Resident/Fellow/Medical Student Teaching: “The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse”, BCCH, February 20, 2018*

**Dr. Mulpuri**

- *OPSEI Rounds – BCCH, April 4, 2017*
- *“At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child’s Post-Operative Pain” Speaker: Dr. Terri Sun (Anesthesia Resident)*
- *“Accounting for Controlled Drugs in the OR – A Prospective Baseline Audit” Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)*
- *“Wind of Change? – Canadian Health Care and the Surgical Waitlist” Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)*
- *Co-moderated: Dr. Frederick Kozak ((Otolaryngology)*
- *Co-moderated: Dr. Simon Whyte (Anesthesia)*
- *Surgical Suites Grand Rounds – CFRI, April 18, 2017*
- *“More Than Just A Move”*
- *Presenter: Dr. Eleanor Reimer*
- *Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017*
- *Visiting Fellow: Dr. Lachlan Milne*
- *“Pearls and adventures from 2 years of fellowship in 8 countries”*

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Mulpuri**

- *Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri*
- *Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, May 9, 2017*
- *OPSEI Orthopaedic Fellow Rounds, June 6, 2017*
- *"Where we've come from, where we're going, what we've learnt at BC Children's"*
- *Presenters: Dr. James McCammon, Dr. Luigi Nasto*
- *Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri*
- *OPSEI Rounds – BCCH, July 4, 2017*
- *"Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites"*  
*Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites*
- *Moderator: Ms. Trish Page, Program Manager, Surgical Services*
- *Resident/Fellow/Medical Student Teaching: "The Upper Limb", BCCH, July 11, 2017*
- *OPSEI Rounds – BCCH, August 1, 2017*
- *REDCap 101: What REDCap Can Offer You" Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology*
- *Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho*
- *Example provided by: Ms. Iris Liu, OPSEI*
- *Resident/Fellow/Medical Student Teaching: "Bone and Soft Tissue Tumors", BCCH, August 8, 2017*
- *OPSEI Rounds – BCCH, September 5, 2017*
- *"Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases" Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC*
- *"Management of Diabetes Clinic in Soroti, Uganda: A Survey" Speaker: Ms. Nicki Gabers, Medical Student, UBC*
- *"Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda" Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC*
- *"Surgery and Society" Speaker: Ms. Tanjot Singh, Medical Student, UBC*
- *Surgical Suites Grand Rounds – CFRI, September 12, 2017*
- *"21st Century Pediatric Airway Management - Reducing Death & Harm"*
- *Presenter: Dr. Cheryl Peters, Dr. Simon Whyte*
- *Resident/Fellow/Medical Student Teaching: "Cerebral Palsy", BCCH, September 19, 2017*
- *OPSEI Rounds – BCCH, October 3, 2017*
- *"A Historic overview of myelomeningocele at BCCH" Speaker: Mr. Taylor North, Medical Student, UBC*
- *"Patient Care Evaluation Survey in Orthopaedics" Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)*
- *"Medical Staff Engagement Through Photovoice" Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC*
- *Moderator: Dr. Hannah Piper, Pediatric Surgery*
- *OPSEI Rounds – BCCH, November 7, 2017*
- *"Virtual Reality as a Pre-operative Neurosurgical Tool" Speaker: Vivian Braithwaite, Medical Student, UBC*
- *"OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency" Speaker: Angela Ji, Medical Student, UBC*
- *"Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital" Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC*
- *"Paediatric Elbow Fractures from a Child's Viewpoint" Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)*
- *Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery*
- *Resident/Fellow/Medical Student Teaching: "Management of Fractures", BCCH, November 17, 2017*
- *Grand Rounds – UBC Department of Orthopaedics, November 22, 2017*
- *"Treatment options for large/massive rotator cuff tears"*
- *Presenter: Dr. William Regan & Dr. Njalalle Baraza*
- *OPSEI Rounds – BCCH, December 5, 2017*
- *"Tissue Expansion and Scoliosis" Speaker: Paul Yen, Medical Student, UBC*
- *"Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children" Speaker: Alice Liu, Medical Student, UBC*
- *"Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery" Speaker: Joshua Foley, Medical Student, UBC*
- *"Cleft lip and palate educational video resource for families: needs assessment" Speaker: Karina Spoyalo, Medical Student, UBC*
- *Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery*

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Mulpuri**

- Resident/Fellow/Medical Student Teaching: "Bone and Soft Tissue Tumors", BCCH, January 19, 2018
- Grand Rounds – UBC Department of Orthopaedics, February 7, 2018
- Grand Rounds – UBC Department of Orthopaedics, March 28, 2018

**Dr. Miyanji**

- OPSEI Rounds – BCCH, April 4, 2017
- "At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child's Post-Operative Pain" Speaker: Dr. Terri Sun (Anesthesia Resident)
- "Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit" Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)
- "Wind of Change? – Canadian Health Care and the Surgical Waitlist" Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)
- Co-moderated: Dr. Frederick Kozak (Otolaryngology)
- Co-moderated: Dr. Simon Whyte (Anesthesia)
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, April 11, 2017
- Surgical Suites Grand Rounds – CFRI, April 18, 2017
- "More Than Just A Move"
- Presenter: Dr. Eleanor Reimer
- Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017
- Visiting Fellow: Dr. Lachlan Milne
- "Pearls and adventures from 2 years of fellowship in 8 countries"
- Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri
- OPSEI Orthopaedic Fellow Rounds, June 6, 2017
- "Where we've come from, where we're going, what we've learnt at BC Children's"
- Presenters: Dr. James McCammon, Dr. Luigi Nasto
- Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, June 27, 2017
- OPSEI Rounds – BCCH, July 4, 2017
- "Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites" Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites
- Moderator: Ms. Trish Page, Program Manager, Surgical Services
- OPSEI Rounds – BCCH, August 1, 2017
- REDCap 101: What REDCap Can Offer You" Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology
- Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho
- Example provided by: Ms. Iris Liu, OPSEI
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, August 15, 2017
- OPSEI Rounds – BCCH, September 5, 2017
- "Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases" Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC
- "Management of Diabetes Clinic in Soroti, Uganda: A Survey" Speaker: Ms. Nicki Gabers, Medical Student, UBC
- "Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda" Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC
- "Surgery and Society" Speaker: Ms. Tanjot Singh, Medical Student, UBC
- Surgical Suites Grand Rounds – CFRI, September 12, 2017
- "21st Century Pediatric Airway Management - Reducing Death & Harm"
- Presenter: Dr. Cheryl Peters, Dr. Simon Whyte
- Resident/Fellow/Medical Student Teaching: "Congenital Scoliosis", BCCH, September 26, 2017
- OPSEI Rounds – BCCH, October 3, 2017
- "A Historic overview of myelomeningocele at BCCH" Speaker: Mr. Taylor North, Medical Student, UBC
- "Patient Care Evaluation Survey in Orthopaedics" Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)
- "Medical Staff Engagement Through Photovoice" Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC
- Moderator: Dr. Hannah Piper, Pediatric Surgery
- OPSEI Rounds – BCCH, November 7, 2017
- "Virtual Reality as a Pre-operative Neurosurgical Tool" Speaker: Vivian Braithwaite, Medical Student, UBC
- "OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency" Speaker: Angela Ji, Medical Student, UBC
- "Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital" Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC
- "Paediatric Elbow Fractures from a Child's Viewpoint" Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)
- Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery



01

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Miyanji**

- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, November 28, 2017
- OPSEI Rounds – BCCH, December 5, 2017
- "Tissue Expansion and Scoliosis" Speaker: Paul Yen, Medical Student, UBC
- "Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children" Speaker: Alice Liu, Medical Student, UBC
- "Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery" Speaker: Joshua Foley, Medical Student, UBC
- "Cleft lip and palate educational video resource for families: needs assessment" Speaker: Karina Spoyalo, Medical Student, UBC
- Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery
- Resident/Fellow/Medical Student Teaching: "Cervical Abnormalities, Back Pain, and the Surgical Treatment of Spondylolysis and Spondylolisthesis", BCCH, February 13, 2018

**Dr. Cooper**

- OPSEI Rounds – BCCH, April 4, 2017
- "At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child's Post-Operative Pain" Speaker: Dr. Terri Sun (Anesthesia Resident)
- "Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit" Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)
- "Wind of Change? – Canadian Health Care and the Surgical Waitlist" Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)
- Co-moderated: Dr. Frederick Kozak (Otolaryngology)
- Co-moderated: Dr. Simon Whyte (Anesthesia)
- Resident/Fellow/Medical Student Teaching: "Bone and Soft Tissue Tumors", BCCH, April 18, 2017
- Surgical Suites Grand Rounds – CFRI, April 18, 2017
- "More Than Just A Move"
- Presenter: Dr. Eleanor Reimer
- Grand Rounds – UBC Department of Orthopaedics, April 19, 2017
- "Management of Glenoid bone Loss during Shoulder Arthroplasty" Presenter: Dr. Patrick Chin
- Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017
- Visiting Fellow: Dr. Lachlan Milne
- "Pearls and adventures from 2 years of fellowship in 8 countries"
- Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri
- OPSEI Orthopaedic Fellow Rounds, June 6, 2017
- "Where we've come from, where we're going, what we've learnt at BC Children's"
- Presenters: Dr. James McCammon, Dr. Luigi Nasto
- Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri
- Resident/Fellow/Medical Student Teaching: "Leg Length Discrepancy", BCCH, June 13, 2017
- OPSEI Rounds – BCCH, July 4, 2017
- "Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites" Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites
- Moderator: Ms. Trish Page, Program Manager, Surgical Services
- OPSEI Rounds – BCCH, August 1, 2017
- REDCap 101: What REDCap Can Offer You" Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology
- Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho
- Example provided by: Ms. Iris Liu, OPSEI
- Resident/Fellow/Medical Student Teaching: "The Lower Extremity", BCCH, August 22, 2017
- OPSEI Rounds – BCCH, September 5, 2017
- "Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases" Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC
- "Management of Diabetes Clinic in Soroti, Uganda: A Survey" Speaker: Ms. Nicki Gabers, Medical Student, UBC
- "Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda" Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC
- "Surgery and Society" Speaker: Ms. Tanjot Singh, Medical Student, UBC
- Surgical Suites Grand Rounds – CFRI, September 12, 2017
- "21st Century Pediatric Airway Management - Reducing Death & Harm"
- Presenter: Dr. Cheryl Peters, Dr. Simon Whyte
- OPSEI Rounds – BCCH, October 3, 2017
- "A Historic overview of myelomeningocele at BCCH" Speaker: Mr. Taylor North, Medical Student, UBC
- "Patient Care Evaluation Survey in Orthopaedics" Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)
- "Medical Staff Engagement Through Photovoice" Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC
- Moderator: Dr. Hannah Piper, Pediatric Surgery

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Cooper**

- Moderator: Dr. Hannah Piper, Pediatric Surgery
- Resident/Fellow/Medical Student Teaching: "The Role of the Orthopaedic Surgeon in Diagnosing Child Abuse", BCCH, October 10, 2017
- OPSEI Rounds – BCCH, November 7, 2017
- "Virtual Reality as a Pre-operative Neurosurgical Tool" Speaker: Vivian Braithwaite, Medical Student, UBC
- "OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency" Speaker: Angela Ji, Medical Student, UBC
- "Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital" Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC
- "Paediatric Elbow Fractures from a Child's Viewpoint" Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)
- Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery
- OPSEI Rounds – BCCH, December 5, 2017
- "Tissue Expansion and Scoliosis" Speaker: Paul Yen, Medical Student, UBC
- "Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children" Speaker: Alice Liu, Medical Student, UBC
- "Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery" Speaker: Joshua Foley, Medical Student, UBC
- "Cleft lip and palate educational video resource for families: needs assessment" Speaker: Karina Spoyalo, Medical Student, UBC
- Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery
- Resident/Fellow/Medical Student Teaching: "Leg Length Discrepancy", BCCH, December 12, 2017
- Resident/Fellow/Medical Student Teaching: "The Skeletal Dysplasias", BCCH, January 30, 2018
- Grand Rounds – UBC Department of Orthopaedics, February 7, 2018
- Grand Rounds - St Paul's Emergency Department, February 14, 2018.
- "Pearls and Pitfalls in Paediatric Orthopaedics"
- Resident/Fellow/Medical Student Teaching: "Leg Length Discrepancy", BCCH, March 23, 2018

**Dr. Ghag**

- OPSEI Rounds – BCCH, April 4, 2017
- "At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child's Post-Operative Pain" Speaker: Dr. Terri Sun (Anesthesia Resident)
- "Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit" Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)
- "Wind of Change? – Canadian Health Care and the Surgical Waitlist" Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)
- Co-moderated: Dr. Frederick Kozak (Otolaryngology)
- Co-moderated: Dr. Simon Whyte (Anesthesia)
- Surgical Suites Grand Rounds – CFRI, April 18, 2017
- "More Than Just A Move"
- Presenter: Dr. Eleanor Reimer
- Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017
- Visiting Fellow: Dr. Lachlan Milne
- "Pearls and adventures from 2 years of fellowship in 8 countries"
- Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri
- OPSEI Orthopaedic Fellow Rounds, June 6, 2017
- "Where we've come from, where we're going, what we've learnt at BC Children's"
- Presenters: Dr. James McCammon, Dr. Luigi Nasto
- Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri
- OPSEI Rounds – BCCH, July 4, 2017
- "Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites" Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites
- Moderator: Ms. Trish Page, Program Manager, Surgical Services
- Resident/Fellow/Medical Student Teaching: "Slipped Capital Femoral Epiphysis", BCCH, July 19, 2017
- OPSEI Rounds – BCCH, August 1, 2017
- REDCap 101: What REDCap Can Offer You" Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology
- Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho
- Example provided by: Ms. Iris Liu, OPSEI
- OPSEI Rounds – BCCH, September 5, 2017
- "Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases" Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC
- "Management of Diabetes Clinic in Soroti, Uganda: A Survey" Speaker: Ms. Nicki Gabers, Medical Student, UBC
- "Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda" Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC
- "Surgery and Society" Speaker: Ms. Tanjot Singh, Medical Student, UBC
- Surgical Suites Grand Rounds – CFRI, September 12, 2017
- "21st Century Pediatric Airway Management - Reducing Death & Harm"
- Presenter: Dr. Cheryl Peters, Dr. Simon Whyte





**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Ghag**

- OPSEI Rounds – BCCH, October 3, 2017
- “A Historic overview of myelomeningocele at BCCH” Speaker: Mr. Taylor North, Medical Student, UBC
- “Patient Care Evaluation Survey in Orthopaedics” Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)
- “Medical Staff Engagement Through Photovoice” Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC
- Moderator: Dr. Hannah Piper, Pediatric Surgery
- Resident/Fellow/Medical Student Teaching: “Idiopathic Scoliosis”, BCCH, October 17, 2017
- OPSEI Rounds – BCCH, November 7, 2017
- “Virtual Reality as a Pre-operative Neurosurgical Tool Speaker: Vivian Braithwaite, Medical Student, UBC
- “OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency” Speaker: Angela Ji, Medical Student, UBC
- “Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children’s Hospital” Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC
- “Paediatric Elbow Fractures from a Child’s Viewpoint” Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)
- Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery
- OPSEI Rounds – BCCH, December 5, 2017
- “Tissue Expansion and Scoliosis” Speaker: Paul Yen, Medical Student, UBC
- “Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children” Speaker: Alice Liu, Medical Student, UBC
- “Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery” Speaker: Joshua Foley, Medical Student, UBC
- “Cleft lip and palate educational video resource for families: needs assessment” Speaker: Karina Spoyalo, Medical Student, UBC
- Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery
- Resident/Fellow/Medical Student Teaching: “Congenital Scoliosis”, BCCH, December 19, 2017
- Resident/Fellow/Medical Student Teaching: “The Pediatric Orthopaedic Examination”, BCCH, March 2, 2018
- Resident/Fellow/Medical Student Teaching: “Idiopathic Scoliosis”, BCCH, March 20, 2018

**Dr. Pirani**

- OPSEI Rounds – BCCH, April 4, 2017
- “At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child’s Post-Operative Pain” Speaker: Dr. Terri Sun (Anesthesia Resident)
- “Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit” Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)
- “Wind of Change? – Canadian Health Care and the Surgical Waitlist” Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)
- Co-moderated: Dr. Frederick Kozak (Otolaryngology)
- Co-moderated: Dr. Simon Whyte (Anesthesia)
- Surgical Suites Grand Rounds – CFRI, April 18, 2017
- “More Than Just A Move”
- Presenter: Dr. Eleanor Reimer
- Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017
- Visiting Fellow: Dr. Lachlan Milne
- “Pearls and adventures from 2 years of fellowship in 8 countries”
- Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri
- Invited lecturer: Global Aspects of the Ponseti Clubfoot Care Pathway, Sustainable Clubfoot Care in Bangladesh project. Rangpur Medical College Hospital, Rangpur, Bangladesh. June 1, 2017.
- OPSEI Orthopaedic Fellow Rounds, June 6, 2017
- “Where we’ve come from, where we’re going, what we’ve learnt at BC Children’s”
- Presenters: Dr. James McCammon, Dr. Luigi Nasto
- Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri
- OPSEI Rounds – BCCH, August 1, 2017
- REDCap 101: What REDCap Can Offer You” Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology
- Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho
- Example provided by: Ms. Iris Liu, OPSEI
- OPSEI Rounds – BCCH, September 5, 2017
- “Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases” Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC
- “Management of Diabetes Clinic in Soroti, Uganda: A Survey” Speaker: Ms. Nicki Gabers, Medical Student, UBC
- “Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda” Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC
- “Surgery and Society” Speaker: Ms. Tanjot Singh, Medical Student, UBC
- Surgical Suites Grand Rounds – CFRI, September 12, 2017
- “21st Century Pediatric Airway Management - Reducing Death & Harm”
- Presenter: Dr. Cheryl Peters, Dr. Simon Whyte

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Pirani**

- OPSEI Rounds – BCCH, October 3, 2017
- “A Historic overview of myelomeningocele at BCCH” Speaker: Mr. Taylor North, Medical Student, UBC
- “Patient Care Evaluation Survey in Orthopaedics” Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)
- “Medical Staff Engagement Through Photovoice” Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC
- Moderator: Dr. Hannah Piper, Pediatric Surgery
- OPSEI Rounds – BCCH, November 7, 2017
- “Virtual Reality as a Pre-operative Neurosurgical Tool” Speaker: Vivian Braithwaite, Medical Student, UBC
- “OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency” Speaker: Angela Ji, Medical Student, UBC
- “Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children’s Hospital” Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC
- “Paediatric Elbow Fractures from a Child’s Viewpoint” Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)
- Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery
- OPSEI Rounds – BCCH, December 5, 2017
- “Tissue Expansion and Scoliosis” Speaker: Paul Yen, Medical Student, UBC
- “Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children” Speaker: Alice Liu, Medical Student, UBC
- “Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery” Speaker: Joshua Foley, Medical Student, UBC
- “Cleft lip and palate educational video resource for families: needs assessment” Speaker: Karina Spoyalo, Medical Student, UBC
- Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery

**Dr. Leveille**

- OPSEI Rounds – BCCH, April 4, 2017
- “At home feasibility of Panda, A Smart Phone Application Designed to Support Parents in their Management of their Child’s Post-Operative Pain” Speaker: Dr. Terri Sun (Anesthesia Resident)
- “Accounting for Controlled Drugs in the OR – a Prospective Baseline Audit” Speaker: Song Jieni (Jenny) (UBC Co-op Student), Tong Kaitai (Alan) (UBC Co-op Student)
- “Wind of Change? – Canadian Health Care and the Surgical Waitlist” Speaker: Dr. Alex Butskiy (Otolaryngology Resident 4)
- Co-moderated: Dr. Frederick Kozak (Otolaryngology)
- Co-moderated: Dr. Simon Whyte (Anesthesia)
- Surgical Suites Grand Rounds – CFRI, April 18, 2017
- “More Than Just A Move”
- Presenter: Dr. Eleanor Reimer
- Orthopaedic Rounds Visiting Fellow from VGH, BCCH April 20, 2017
- Visiting Fellow: Dr. Lachlan Milne
- “Pearls and adventures from 2 years of fellowship in 8 countries”
- Presenter: Dr. Lachlan Milne, Organizer: Dr. Kishore Mulpuri
- Resident/Fellow/Medical Student Teaching: “The Pediatric Orthopaedic Examination”, BCCH, May 30, 2017
- OPSEI Orthopaedic Fellow Rounds, June 6, 2017
- “Where we’ve come from, where we’re going, what we’ve learnt at BC Children’s”
- Presenters: Dr. James McCammon, Dr. Luigi Nasto
- Moderator: Dr. Christopher Reilly / Dr. Kishore Mulpuri
- OPSEI Rounds – BCCH, July 4, 2017
- “Would you go a mile in their shoes? Hearing from our Families about their experience in Surgical Suites” Presenter: Ms. Liz Lamb, Quality, Safety & Accreditation Lead Surgical Suites
- Moderator: Ms. Trish Page, Program Manager, Surgical Services
- OPSEI Rounds – BCCH, August 1, 2017
- REDCap 101: What REDCap Can Offer You” Speaker: Dr. Elodie Portales-Casamar, Div of Allergy & Immunology
- Example provided by: Dr. Emily Schaeffer, Dept of Ped Ortho
- Example provided by: Ms. Iris Liu, OPSEI
- OPSEI Rounds – BCCH, September 5, 2017
- “Understanding the Journey to Care for Ugandan Children With Rare Surgical Diseases” Speakers: Ms. Iris Liu, Undergrad Student & Dr. Arlene Nakanwagi, Fellow (Ped Surgery), UBC
- “Management of Diabetes Clinic in Soroti, Uganda: A Survey” Speaker: Ms. Nicki Gabers, Medical Student, UBC
- “Hand Hygiene Education Campaign at Soroti Regional Referral Hospital, Uganda” Speakers: Ms. Irena Zivkovic, Undergrad Student and Ms. Michelle Ng, Medical Student, UBC
- “Surgery and Society” Speaker: Ms. Tanjot Singh, Medical Student, UBC
- Surgical Suites Grand Rounds – CFRI, September 12, 2017
- “21st Century Pediatric Airway Management - Reducing Death & Harm”
- Presenter: Dr. Cheryl Peters, Dr. Simon Whyte
- OPSEI Rounds – BCCH, October 3, 2017
- “A Historic overview of myelomeningocele at BCCH” Speaker: Mr. Taylor North, Medical Student, UBC
- “Patient Care Evaluation Survey in Orthopaedics” Speaker: Mr. Patrick Munyurangabo, Undergraduate Student, UBC (Dr. Reilly)
- “Medical Staff Engagement Through Photovoice” Speaker: Ms. Lamiah Adamjee, Undergraduate Student, UBC
- Moderator: Dr. Hannah Piper, Pediatric Surgery
- OPSEI Rounds – BCCH, November 7, 2017
- “Virtual Reality as a Pre-operative Neurosurgical Tool” Speaker: Vivian Braithwaite, Medical Student, UBC

01

**TEACHING ACTIVITIES con't:****LECTURES:****Dr. Leveille**

- "OPSEI Clerkship Surgical Procedural Technique Simulation Project - Strategies to enhance confidence and competency" Speaker: Angela Ji, Medical Student, UBC
- "Emergency Surgery Delays – An analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital" Speakers: Tisha Dasgupta & Nicole Cheung, Undergraduate Students, UBC
- "Paediatric Elbow Fractures from a Child's Viewpoint" Speaker: Victoria McCutcheon, Medical Student, UBC (Dr. Cooper)
- Moderator: Dr. Mandeep Tamber, Ped Neurosurgery, Dr. Erik Skarsgard, Surgeon in Chief, Ped Surgery
- OPSEI Rounds – BCCH, December 5, 2017
- "Tissue Expansion and Scoliosis" Speaker: Paul Yen, Medical Student, UBC
- "Does 3D Facial Morphology Correlate to the Severity of sleep Disturbances in Children" Speaker: Alice Liu, Medical Student, UBC
- "Paediatric A Comparison of Surgeon-reported and Patient-reported outcome measures for breast reconstruction surgery" Speaker: Joshua Foley, Medical Student, UBC
- "Cleft lip and palate educational video resource for families: needs assessment" Speaker: Karina Spoyalo, Medical Student, UBC
- Moderators: Dr. Eleanor Reimer, Ped Anesthesiology, and Dr. Sonia Butterworth, Ped Surgery
- Resident/Fellow/Medical Student Teaching: "The Lower Extremity", BCCH, January 23, 2018
- Grand Rounds – UBC Department of Orthopaedics, February 7, 2018
- Resident/Fellow/Medical Student Teaching: "The Upper Limb", BCCH, March 27, 2018

**FORMAL TEACHING****Dr. Cooper**

UBC Department of Orthopaedics Resident Half-Day, UBC, January 18, 2018  
 "Perthes, SCFE, Septic hip, OM, Transient Synovitis", Facilitator: Dr. Cooper

**Dr. Reilly**

UBC Department of Orthopaedics Resident Half-Day, UBC, August 10, 2017  
 "Paediatric Spine Disorders; Scoliosis, Kyphosis, Instability", Facilitator: Dr. Reilly  
 UBC Department of Orthopaedics Resident Half-Day, UBC, February 1, 2018  
 "DDH", Facilitator: Dr. Reilly

**Dr. Mulpuri**

UBC Department of Orthopaedics Resident Half-Day, UBC, June 1, 2017 "Fractures of the Femur & Tibia. Excludes Hip Fractures & Ankle Fractures", Facilitator: Dr. Mulpuri  
 2017W, MEDD 419/429 – FLEX Activity Supervisor, N/A

**Dr. Miyanji**

UBC Department of Orthopaedics Resident Half-Day, UBC, August 17, 2017  
 "Paediatric Spine Disorders; Spinal Dysraphism & Myelomeningocele", Facilitator: Dr. Miyanji

**Dr. Pirani**

UBC Department of Orthopaedics Resident Half-Day, UBC, April 13, 2017  
 "Paediatric Foot Deformities", Facilitator: Dr. Pirani

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**PUBLICATIONS****REFERENCED PUBLICATIONS:****Dr. Reilly**

- Jason Strelzow, Alexander Aarvold, Christopher W. Reilly, "Triplane Fracture of the Proximal Tibia: A Case Report and Literature Review". *Case Reports in Orthopedics – An Open Access Journal*, Vol. 2017 (2017), Article ID 6490728, 4 pages, 2017. Doi:10.1155/2017/6490728
- 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.* 2017;37(2):75-79. DOI: 10.1097/BPO.0000000000000716. CA(IF 1.29; Citations 2)
- Reilly C. "Developmental Dysplasia of the Hip: Point of Care Ultrasound, Screening and Surveillance", "Pediatric ACL Management", "C-Spine Management in Children", and "Supracondylar Fracture Update". 7th Annual Brian Greenhill Visiting Lecturer in Pediatric
- Orthopedic Surgery, University of Edmonton, Edmonton, Alberta, November 30-December 1, 2017

**Dr. Mulpuri**

- Shore BK, Shrader MW, Narayanan U, Miller F, Graham HK, Mulpuri K. Hip Surveillance for Children with Cerebral Palsy: A Survey of the POSNA Membership. *J Bone Miner Res.* 2018 Feb;33(2):229-240.
- Shore B, Shrader M, Narayanan U, Miller F, Graham K, Mulpuri K. Hip Surveillance for Children with Cerebral Palsy: A Survey of the POSNA Membership. *J Child Orthop.* 2017 Oct/Nov; 37(7): e409-e414. doi: 10.1097/BPO.0000000000001050. SA (IF 1.31)

## PUBLICATIONS

## REFERENCED PUBLICATIONS:

**Dr. Mulpuri**

- Jones CE, Cooper AP, Doucette J, Buchan LL, Wilson DR, Mulpuri K, d'Entremont AG. Southwick angle measurements and SCFE slop severity classifications are affected by frog-lateral positioning. *Skeletal Radiol.* 2018; 47(1): 79-84. DOI: 10.1007/s00256-017-2761-z. CA (IF 1.737)
- Walton S, Schaeffer E, Mulpuri K, Cundy P, Williams N. Evaluating the role of prereduction hip traction in the management of infants and children with developmental dysplasia of the hip (DDH): protocol for a systematic review and planned meta-analysis. *BMJ Open.* 2018 Jan; 8(1): e019599.
- Mulpuri K, Schaeffer EK, Thompson GH, Hensinger RN. Introduction to evidence-based recommendations for pediatric orthopaedic practice. *J Pediatr Orthop.* 2018 Jan; 38(1): e25-e26. doi: 10.1097/BPO.0000000000000834. 10.1097/BPO.0000000000000834.FA (IF 1.695)
- Macdonald HM, Määtä M M, Gabel L, Mulpuri K, MckKay HA. Bone strength in girls and boys after a distal radius fracture: a 2-year HR-pQCT double cohort study. *J Bone Miner Res.* 2018 Feb;33(2):229-240. doi: 10.1002/jbmr.3307.
- Mulpuri K, Schaeffer EK, Graham K, Kocher MS, Sanders J, Zaltz I. Evidence-based recommendations for paediatric orthopaedic practice. *J Pediatr Orthop.* 2018 Apr;38(4): e225-e229. doi: 10.1097/BPO.0000000000000876.
- Striano B, Schaeffer EK, Matheney TH, Upasani VV, Price CT, Mulpuri K, Sankar WN, IHDI Study Group. Ultrasound Characteristics of Clinically Dislocated but Reducible Hips With DDH. *J Pediatr Orthop.* 2017 Jul 21. doi: 10.1097/BPO.0000000000001048. [Epub ahead of print].
- Schaeffer EK, Lubicky J, Mulpuri K. AAOS Appropriate Use Criteria: The management of developmental dysplasia of the hip in infants up to 6 months of age: Intended for use by general pediatricians and referring physicians. *J Am Acad Orthop Surg.* 2018. [Epub ahead of print]
- Schaeffer EK, Lubicky J, Mulpuri K. AAOS Appropriate Use Criteria: The management of developmental dysplasia of the hip in infants up to 6 months of age: Intended for use by orthopaedic specialists. *J Am Acad Orthop Surg.* 2018. [Epub ahead of print]
- Aarvold A, Schaeffer EK, Kelley S, Clarke NMP, Herrera-Soto JA, Price CT, Mulpuri K, IHDI Study Group. Management of irreducible hip dislocations in infants with developmental dysplasia of the hip diagnosed below 6 months of age. *J Pediatr Orthop.* 2018. [Epub ahead of print].

**Dr. Miyanji**

- Miyanji, F. *Evidence-Based Treatment for Congenital Scoliosis. Paediatric Orthopaedics An Evidenced Based Approach to Clinical Questions.* Alshryda S, Huntley J, Banaszkiewicz PA (Eds) – Springer International Publishing, 2017. 229-236.

**Dr. Cooper**

- Aarvold A, Eugenio A, Chhina H, Reilly C, Wilson D, Mulpuri K, Cooper AP. Dynamic Deformation of the Femoral Head occurs on Weight Bearing in Early Fragmentation of Perthes Disease. Accepted for ePoster presentation, European Paediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting, Barcelona, Spain, May 3-6, 2017.
- Paserin O, Quader N, Mulpuri K, Cooper A, Schaeffer E, Hodgson AJ, Abugharbieh R. Quantifying dynamic assessment of developmental dysplasia of the hip. Accepted for podium presentation, 17th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, Aachen, Germany, June 14-17, 2017.
- Cooper AP, Fernandes JA. Chapter: "Evidence-Based Treatment for Congenital Femoral Deficiency". In: Alshryda S, Huntley J, Banaszkiewicz PA, editors. *Paediatric Orthopaedics: An Evidence-Based Approach to Clinical Questions.* Springer, USA; 2017.
- Koo W, Chhina H, Cooper A. Intravenous Lidocaine reduces post-operative pain and opiate requirements in patients undergoing external fixation. Submitted, LLRS 26th Annual Scientific Meeting, Utah, USA, July 21-22, 2017.
- Chhina H, Klassen A, Kopec J, Cooper A. Development of a cross-cultural patient-reported outcome instrument to measure the health-related quality of life of children and adolescents with lower limb deformities – Study
- Protocol. Submitted, LLRS 26th Annual Scientific Meeting, Utah, USA, July 21-22, 2017.
- Eugenio A, Chhina H, Cooper A. Development of the Multicentre Pin Site Infection Study (MPSIS). Submitted, LLRS 26th Annual Scientific Meeting, Utah, USA, July 21-22, 2017.

**Dr. Ghag**

- Intraoperative Skull-femoral Traction in Adolescent Idiopathic Scoliosis Surgical Correction: a Comparative Analysis of Dynamic versus Static Modes. Canadian Spine Society Meeting, Montreal, Quebec, 2017
- *Comparative Clinical and Cost Analysis of Conventional and Magnetic Growing Rods in the Surgical Management of Early-Onset Scoliosis.* Canadian Spine Society Meeting, Montreal, Quebec, 2017

**Dr. Leveille**

- "Rebound deformity after growth modulation in patients with coronal plane angular deformities about the knee: who gets it and how much?" Leveille L, Ozan R, Johnston C. *Journal of Pediatric Orthopaedics.* Journal of Pediatric Orthopaedics. May 18, 2017. Epub ahead of print.
- Davies K, Leveille L, Alvarez C. Instrumented Gait Analysis in Idiopathic Toe Walking. In: Müller B, Wolf S. *Handbook of Human Motion,* Springer International Publishing; 2018.

**Dr. Pirani**

- Ansar A, Rahman A, Romero L, Haider M, Rahman M, Moinuddin Md, Siddique Md, Mamun Md, Mazumder T, Pirani S, Mathias R, El Arifeen S, Hoque E. Systematic review and meta-analysis of global birth prevalence of clubfoot: a study

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
Canadian Institutes of Health Research (CIHR)	Outcome of hip interventions for children with cerebral palsy – An international multi-center prospective comparative cohort study	C	520,000	2014 to 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	
BCCH Research Institute Capacity Building Award	Pediatric orthopaedic hip research/ Imaging research unit	C	125,000	2014-2019	K Mulpuri	
BCCH Research Institute Investigator Establishment Award	Pediatric orthopaedic hip research program	C	50,000	2015-2020	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 3-dimensional 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
Pediatric Orthopaedic Society of North America	A prospective, international hip dysplasia registry with follow-up to skeletal maturity: An analysis of risk factors, screening practices and treatment outcomes	C	150,000	2017-2019	K Mulpuri	E Schaeffer C Price T Matheney N Williams J Herrera-Soto W Sankar V Upasani S Kelley A Aarvold E Dodwell L Donnan A Aroojis
Canadian Orthopaedic Foundation	A prospective, international hip dysplasia registry with follow-up to skeletal maturity: An analysis of risk factors, screening practices and treatment outcomes	C	30,000	2018	K Mulpuri	



## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
UBC OREF	Development and validation of a patient reported outcome instrument for children with lower limb deformities	C	32,000	May 2015 to May 2017	A <b>Cooper</b>	K <b>Mulpuri</b> A Klassen J Kopec
POSNA Start-p Research Grant	Multi-centre Pin Site Infection Study	C	9,840 (USD)	2016 - 2017	A <b>Cooper</b>	K <b>Mulpuri</b> 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 <b>Cooper</b>	
Rare Disease Foundation	Exome Sequencing in Congenital Pseudarthrosis of Tibia	C	3,500	Jan 2016 to Jan 2017	A <b>Cooper</b>	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 <b>Cooper</b>	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 <b>Mulpuri</b>	E Schaeffer A <b>Cooper</b>
Canadian Orthopaedic Association: Canadian Orthopaedic Research Legacy	Development of a Patient Reported Quality of Life Questionnaire for Children with Lower Limb Deformities	C	20,000 (for 09/2017 - two years) 09/2019	- Dr. Anthony <b>Cooper</b>		Dr. Jacek Kopec, Dr. Anne Klassen
BCCH Research Institute	Risk Factors and Characteristics Associated with Late-presenting Pediatric Anterior Cruciate Ligament Injuries	C	\$15000 (over 3 years)	2018	Lise <b>Leveille</b>	Chris <b>Reilly</b>
CIDA	Sustainable Clubfoot Care in Bangladesh	C	4,320,160 (over 5 years)	2012-2017	SP <b>Pirani</b>	R Mahias
Child and Family Research Institute	Evidence to Innovation	NC	8,400	2015-2018	K <b>Mulpuri</b> I Pike	

## SUPERVISED TEACHING

### PEDIATRIC ORTHOPAEDICS:

#### FELLOWS SUPERVISED

- Dr. Andrea Simmonds, Clinical Fellow (Canada) (August 1, 2015 - July 31, 2017)
- Dr. Arnold Suzuki (Australia) (August 1, 2016 - July 31, 2017)
- Dr. James McCammon (Canada) (August 1, 2016 - July 31, 2017)
- Dr. Luigi Nasto (Italy) (August 1, 2016 - July 31, 2017)
- Dr. Rojit Bansal (India) (November 1, 2016 - August, 2017)
- Dr. Christopher Chapman (Canada) (August 1, 2017 - July 31, 2018)
- Dr. Felix Brassard (Canada) (August 1, 2017 - July 31, 2018)
- Dr. Kyle Stampe (Canada) (August 1, 2017 - July 31, 2018)

#### RESIDENTS SUPERVISED

- Christopher Day, PGY 2 February 14 – May 7, 2017
- Chad Johnson, PGY 5 March 13 – April 2, 2017
- Ian Wilson, PGY 4 March 13 – May 7, 2017
- Chad Johnson, PGY 5 May 31 – June 30, 2017
- Jillian Fairley, PGY 2 April 10 – June 30, 2017
- Simon Garceau, PGY 4 May 8 – June 30, 2017
- Sebastian Ko, PGY 4 July 1 – August 27, 2017
- Alia Albaghdadi, PGY 2 July 1 – August 27, 2017
- Ryan Lohre, PGY 2 July 1 – September 24, 2017
- Simon Garceau, PGY 5 August 28 – October 22, 2017
- Adam McIntyre, PGY 2 August 28 – November 19, 2017
- Alia Albaghdadi, PGY 2 October 23 – November 19, 2017
- Benjamin Jong, PGY 5 October 23 – January 14, 2018
- Michael Bond, PGY 4 October 23 – January 14, 2018
- Oren Zarnett, PGY 2 December 18 – March 11, 2018

#### OTHER

4th Year Pediatric Residents:

- Michelle Lai, Pediatrics July 31 – August 27, 2017
- Megan Kilvert, Pediatrics September 5 - 24, 2017

4th Year Ortho Resident:

- Supriya Singh, Ortho, Western Ontario September 25 – October 22, 2017 (Miyanji)

Fellow Electives:

- Lachlan Milne (Visiting Adult Hip Fellow, VGH) April 2017
- Muhammed Dhalla (Rheumatology Fellow, UBC) April 18 – 28, 2017
- Fahad Mansouri (Pediatric Emergency Fellow, UBC) May 8 – June 30, 2017
- Benetta Chin (Pediatric Emergency Fellow, UBC) June 5 – 30, 2017
- Alison Lee (Pediatric Emergency Fellow, UBC) July 4 – 30, 2017
- Najeeb Alqarni (Pediatric Emergency Fellow, UBC) August 28 – September 24, 2017

4th Year Medical Students – April 1, 2017 – March 31, 2018 - 28 students

Year 2 Medical Students – observership – 2 students

Year 1 Medical Student – 4 students

Co-op Students (Research) – 6

Registered PT - 1

Research Summer Students – 1 student

## COMMITTEE PARTICIPATION

### Dr. Reilly

- BCCH Department of Paediatric Orthopaedic Surgery, Department Head
- UBC Department of Orthopaedics, Faculty Advisory Committee
- UBC Department of Orthopaedics, Orthopaedic Academic Council Committee
- UBC Department of Orthopaedics, MSc Thesis Committee
- UBC Department of Orthopaedics, Resident Program Committee
- UBC Department of Orthopaedics, Competency of Care Committee
- UBC Department of Orthopaedics,
- BCCH Orthopaedic Re-design Committee
- Surgical Cabinet
- Surgical Services Advisory Committee (SSAC)
- The Department of Pediatric Surgery Surgical Cabinet
- Department Heads, Division Heads and Senior Medical Directors Committee
- CST Design Work for Ambulatory
- SSC Project TCON (Complex Orthopaedic) Committee
- Ambulatory Leadership Committee
- Physician Leadership Program
- Panel Member, Privileging Dictionary Refresh Program, Ortho Surgery
- Ortho Trauma VAT
- Pediatric Orthopaedic Society of North America
- Association of Surgical Educators
- American Academy of Orthopaedic Surgeons
- Canadian Orthopaedic Association
- Scoliosis Research Society
- International Pediatric Orthopaedic Think Tank
- British Columbia Medical Association
- Canadian Medical Association
- British Columbia Orthopaedic Association
- Journal of Pediatric Orthopaedics, Pediatric Society of North America, Reviewer
- Child and Family Research Institute, Member
- Centre for Hip Health, Member
- Merit & PSA Committee, UBC Department of Orthopaedics, Member
- Muscular Diseases Clinic, BCCH, Consultant

### Dr. Beauchamp

- 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
- Gait and Clinical Motion Analysis Society, Member
- American Academy of Cerebral Palsy and Development Medicine, Member
- Spasticity Advisory Committee, Allergan Canada, Member
- Running Room, Canada, Instructor
- Galiano Health Care Society Board, Member

### Dr. Alvarez

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

### Dr. Mulpuri

- 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, CFRI, BCCH Representative

## COMMITTEE PARTICIPATION

### Dr. Mulpuri

- *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*
- *Journal of Children's Orthopaedics, Reviewer*
- *Journal of Orthopaedic Surgery, Reviewer*
- *Journal of Pediatric Orthopaedics Evidence-Based medicine Section, Editor*
- *Journal of Pediatric Orthopaedics, Reviewer*
- *Journal of Pediatric Orthopaedics, Part B, Reviewer*
- *Journal of the American Academy of Orthopaedic Surgeons, Reviewer*
- *Postgraduate Medicine, Reviewer*

### Dr. Miyanji

- *British Columbia Medical Association*
- *Canadian Orthopaedic Association*
- *Pediatric Orthopaedic Society of North America*
- *Canadian Spine Society*
- *Canadian Paediatric Spinal Deformity Study Group*
- *Harms Study Group*
- *Scoliosis Research Society Worldwide Committee*
- *QSVI Committee – POSNA*
- *Appointed Member POSNA Research Committee*
- *Core Member Growing Spine Study Group*
- *Scoliosis Research Society*
- *Scoliosis Research Society Program Committee*
- *Scoliosis Research Society Awards and Scholarships Committee*
- *Collaborative Spine Research Forum Advisory*
- *Examiner (Orthopaedic Surgery, FRCSC) Royal College of Physicians and Surgeons of Canada*
- *Resident Program Committee, UBC Department of Orthopaedics*

### Dr. Ghag

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

## COMMITTEE PARTICIPATION

<b>Dr. Cooper</b>	<ul style="list-style-type: none"> <li>• Trauma Steering Committee, BC Children's Hospital</li> <li>• Theme Co-Lead, Clinical Practice, Outcomes &amp; Innovation, Evidence to Innovation (E2i)</li> <li>• BC Children's Hospital BioBank Biospecimen Advisory committee</li> <li>• Canadian Orthopaedic Association, Scientific Review Board</li> <li>• Canadian Paediatric Orthopaedic Group, Treasurer</li> <li>• Pediatric Orthopaedic Society of North America, Active Member</li> <li>• Mentorship Committee, Pediatric Orthopaedic Society of North America</li> </ul>
<b>Dr. Leveille</b>	<ul style="list-style-type: none"> <li>• BCCW Redevelopment Project, Sunny Hill/BCCH Site Integration Working Group</li> <li>• BCCH Orthopaedic Clinic Optimization Working Group</li> <li>• Gait and Clinical Movement Analysis Society</li> <li>• Pediatric Research in Sports Medicine Society</li> <li>• Pediatric Orthopaedic Society of North America</li> <li>• Canadian Orthopaedic Association</li> <li>• BC Medical Association</li> <li>• Canadian Medical Association</li> <li>• Uganda Sustainable Trauma Orthopaedic Program (USTOP)</li> </ul>
<b>Dr. Pirani</b>	<ul style="list-style-type: none"> <li>• College of Physicians &amp; Surgeons of BC</li> <li>• British Columbia Medical Association</li> <li>• Canadian Orthopaedic Association</li> <li>• Canadian Pediatric Orthopaedic Group</li> <li>• American Board of Orthopaedic Surgery</li> <li>• American Academy of Orthopaedic Surgeons</li> <li>• Avicenna Physicians Society</li> <li>• Royal College of Physicians &amp; Surgeons of Canada</li> <li>• ASAMI – North America (The Limb Lengthening and Reconstructive Society)</li> <li>• The American Orthopaedic Foot and Ankle Society</li> <li>• Pediatric Orthopaedic Society of North America</li> <li>• Ponseti International Association for the Treatment of Clubfoot, Chair Medical Advisory Board</li> <li>• Pediatric Orthopaedic Society of North America, Children's Orthopaedics in Underdeveloped Regions (COUR) Committee, Member</li> <li>• Global HELP International Board</li> <li>• The International Clubfoot Study Group, Member</li> <li>• The Rotary Club of Burnaby, Member</li> <li>• End Clubfoot Now RAG (Rotary Action Group), Member</li> </ul>
<b>Alec Black</b>	<ul style="list-style-type: none"> <li>• Gait and Clinical Motion Analysis Society, Member</li> </ul>

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## INITIATIVES IN PROGRESS

<b>Dr. Reilly</b>	<ul style="list-style-type: none"> <li>• 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</li> <li>• The Effect of Femoral Nerve Block on Morphine Requirements following Intramedullary Nailing of Femoral Fractures in Paediatric Patients</li> <li>• Seating Pressure following Spine and Hip Surgery in Patients with Neuromuscular Disease – protocol development ongoing</li> <li>• PCA vs Morphine Utilization following Posterior Instrumentation for Idiopathic Scoliosis – manuscript preparation</li> <li>• Mental Health Disturbance in Adolescents following Acute Knee Injury (J Douglas) – protocol development</li> <li>• Risk Factors for Psychiatric Disorders Associated with Adolescent Idiopathic Scoliosis – ethics approval received; data collection to begin</li> <li>• Scoliosis and Wait Times – PHSI grant submission preparation underway</li> <li>• The impact of Scoliosis and Wait Times on treatment and outcomes - data collection</li> <li>• Harms Study Group - Scheuermann's Kyphosis – data collection ongoing</li> <li>• Harms Study Group - AIS Database - data collection ongoing</li> <li>• Harms Study Group - AIS 2-year post-operative motion - data collection ongoing</li> <li>• Harms Study Group – Cerebral Palsy and Scoliosis – ethics approval received; contract negotiations underway with UBC and Harms Study Group</li> <li>• Adolescent idiopathic scoliosis: anterior and posterior instrumentation versus posterior instrumentation alone – protocol development</li> <li>• The relationship between Body Mass Index and pedicle morphology in adolescent idiopathic scoliosis: A Computerized Tomography study – protocol development</li> <li>• Management of displaced supracondylar fractures of the humerus using lateral versus cross K wires: A Prospective Randomized Clinical Trial</li> </ul>
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## COMMITTEE PARTICIPATION

### Dr. Reilly

- Taping vs Splinting vs Above Elbow Casting for Type I Supracondylar Fractures of the Humerus in Children: A Randomized Controlled Trial
- Mulpuri F, Reilly C. Quality of referrals sent to pediatric orthopaedic clinics. Data collection in progress.
- Miyanji F, Mulpuri K, Reilly C. The use of Dermabond vs standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study. Recruitment in progress.
- Miyanji F, Mulpuri K, Reilly C, Poskitt K. Diffusio 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. Manuscript 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. Manuscript in progress.
- Mulpuri K, Miyanji F, Reilly CW. A clinical prediction model for growth arrest in pediatric physeal fractures. 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.
- Mammen C, Morrison A, Mulpuri K, Reilly C. Acute Kidney Injury in Children following major orthopaedic surgery: A prospective cohort study. Recruitment in progress.

### Dr. 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).

#### Hereditary Multiple Exostoses

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

#### Gait

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

### Dr. Mulpuri

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



## COMMITTEE PARTICIPATION

**Dr. Mulpuri**

- Miyanji F, Mulpuri K, Reilly C. The use of Dermabond vs. standard staple for wound closure in children with neuromuscular scoliosis undergoing spinal deformity correction surgery: A phase II study. *Recruitment in progress.*
- Miyanji F, Mulpuri K, Reilly C, Poskitt, K. Diffusion MRI as a prognostic tool in growth plate injuries: A pilot study to assess feasibility. *Recruitment in progress.*
- Mulpuri K, Reilly CW, Tredwell SJ. Management of displaced supracondylar fractures of the humerus using lateral versus crossed K wires: A prospective randomized clinical trial. *Recruitment in progress.*
- Reilly CW, Mulpuri K, Cooper A, Carsen S. Operative versus non-operative treatment of Gartland Type IIA supracondylar humeral fractures: A prospective study. *Recruitment in progress.*
- Mulpuri K, Miyanji F, Reilly C, Doan Q. Splinting versus above elbow casting for Type I supracondylar fractures of the humerus in children: A randomized controlled trial. *Recruitment in progress.*
- Mulpuri K, Davidson D. Validation and reliability testing of the Western Ontario and McMaster Osteoarthritis Scale (WOMAC) hip score in children and adolescents with Perthes disease. *Recruitment in progress.*
- Mulpuri K, Miyanji F, Reilly CW. A clinical prediction model for growth arrest in pediatric physeal fractures. *Recruitment in progress.*
- Mulpuri K, Mubarak S, Matheney T, Kelley S, Castaneda P, Foster B, Clarke N, Price C. Prospective observational cohort study of children with hips dislocated at rest. *Recruitment in progress.*
- Mulpuri K, Abugharbieh R, Hodgson AJ, Quader N. Automatic characterization of the neonatal hip using ultrasound imaging. *Recruitment in progress.*
- Narayanan U, Mulpuri K, Selber P, Hamdy R. Outcomes of hip interventions for children with cerebral palsy – An international multi-centre prospective comparative cohort study. *Recruitment in progress.*
- Skarsgard ED, Reilly C, Mulpuri K, Innis SM, Gandhi S. Nutritional status of pre-operative surgical patients: Prevalence of malnutrition and impact on surgical outcomes. *Recruitment in progress.*
- Cooper AP, Mulpuri K, Reilly CW. Simple bone cysts in kids (SBoCK). *Recruitment in progress.*
- Cooper AP, Mulpuri K, Reilly CW. Observational study of children with limb problems. *Recruitment in progress.*
- 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.*
- Mulpuri K, Cashin MS, Cooper AP. Outcome analysis of comminuted vs. non comminuted paediatric femur fractures treated with elastic intramedullary nail fixation. *Protocol in development*

**Dr. 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].

## COMMITTEE PARTICIPATION

### **Dr. Cooper**

- 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]

### **Dr. Ghag**

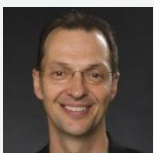
- Intraoperative Skull-femoral Traction in Adolescent Idiopathic Scoliosis Surgical Correction: a comparative analysis of dynamic versus static modes [75% complete; manuscript in preparation].
- 2. Comparative Clinical and Cost Analysis of Conventional and Magnetic Growing Rods in the Surgical Management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

## DIVISION OF PEDIATRIC OTOLARYNGOLOGY

2016-2017



### FACULTY MEMBERS:



***Dr. Frederick K. Kozak, Division Head***



***Dr. Jeffrey P. Ludemann***



***Dr. J. Paul Moxham***



***Dr. Neil K. Chadha***

**STAFF MEMBERS:**

*Ms. Patsy Regan, Pediatric Otolaryngology  
Clinical Nurse*

*Ms. 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*
- *Ms. Lauren Ogilvie, Research Assistant*

## HIGHLIGHTS AND ACHIEVEMENTS:

**DR. MOXHAM**

R. Rox Robertson Department of  
Surgery Undergraduate  
Teaching Award

Division of Otolaryngology-Head  
& Neck Surgery Undergraduate  
Teaching Award

**DR. CHADHA**

Dr Chadha was awarded the  
prestigious UBC Department of  
Surgery Hjalmar-Johnson New  
Investigator Award, 2016

## 01 TEACHING ACTIVITIES

### FELLOWS SUPERVISED

- *Dr. Mark Felton*
- *Dr. Paula Tellez*
- *Dr. Ricky Pal*

### RESIDENTS SUPERVISED

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• <i>Dr. Andrew Thamboo</i></li> <li>• <i>Dr. June Lin</i></li> <li>• <i>Dr. Kristelle Cheung</i></li> <li>• <i>Dr. Ronak Rahmanian</i></li> <li>• <i>Dr. Andrew Remillard</i></li> </ul> | <ul style="list-style-type: none"> <li>• <i>Dr. Brent Chang</i></li> <li>• <i>Dr. Kim Luu</i></li> <li>• <i>Joshua Gurberg</i></li> <li>• <i>Alex Butskiy</i></li> </ul> |
|--|--|

## 02 SCHOLARLY & PROFESSIONAL ACTIVITIES

Granting Agency	Subject	CO MP	\$ Per Year	Year	Principal Investigator	Co- Investigator(s)
Alva Foundation	Sleep monitoring	Y	\$135,500 for 3 years	2015 - 2017	Ansermino	Chadha, Wensley
Teaching and Learning Education Fund	Video glasses	Y	\$6,200	2016	Chadha	
Child and Family Research Institute	Capacity Grant	Y	\$25,000	2016	Chadha	Kozak
OPSEI Summer student funding award	Hearing aid acceptability		\$4,000	2016	Chadha	Kozak
BC Children's Hospital Summer Research Studentship Award	Utilization of Cochlear Implants in children post implantation	Y	\$4,725	2016	Kozak	Chadha, Li, Chia, Tellez

### 03 COMMITTEE PARTICIPATION

#### NEIL CHADHA

- American Society of Pediatric Otolaryngology Research Committee
  - Sub-editor, *Clinical Otolaryngology (Journal)*
  - BC Children's Hospital Airway Committee (DART team)
  - UBC Otolaryngology Residency Training Committee
  - UBC Otolaryngology Executive Committee
  - UBC Otolaryngology Research Committee
- JOURNAL REVIEWER:
- *Laryngoscope*
  - *International Journal of Pediatric Otorhinolaryngology*
- *JAMA-Otolaryngology-Head and Neck Surgery*
  - *Journal of Otolaryngology - Head & Neck Surgery*
  - *Biomed Research*
  - *Clinical Otolaryngology*
  - *Paediatrics*
  - *Journal of Otology and Laryngology*

#### Paul Moxham

- ASPO Membership Committee
- JOURNAL REVIEWER:
- *LARYNGOSCOPE*

#### Frederick Kozak

- Residency Training Program Director, UBC Division of Otolaryngology
  - Surgical Foundation Resident Education Committee, UBC Department of Surgery
  - Otolaryngology Executive Committee
  - SSAC-Surgical Services Advisory Committee
  - CSC Executive Committee
  - BCCH Department of Surgery Surgical Cabinet
  - Strategic Negotiating Group Committee SNG – BCMA/Doctors of BC
  - Negotiating Committee Group NCG – BCMA/Doctors of BC
  - Pediatric Otolaryngology Study Group Canadian Society of OTL-HNS
  - IFOS World Congress of ENT Bid Committee
  - Member of SSAC-Surgical Services Advisory Committee
- Cleft Lip and Palate Team
  - Medical/Surgical Director Pediatric Cochlear Implant Program
  - Continuing Professional Development Committee (CSOHNS)
  - 2nd Vice President (CSOHNS)
  - A Day in May Organizing Committee
  - BCCH Physician Wellness Working Group
- JOURNAL REVIEWER:
- *Journal of Otolaryngology Head and Neck Surgery (Canadian)*
  - *International Journal of Pediatric Otolaryngology*
  - *Laryngoscope*

#### INVITED PRESENTATIONS

##### Frederick Kozak

- *Pediatric Sensorineural Hearing Loss and the General Otolaryngologist* FK Kozak, R Rahmanian General Scientific Program of the 70th CSOHNS Annual Meeting in Charlottetown, PE (Workshop) June 2016.
- *B. Sorichetti, Marcela Fandino, Joshua Gurberg, Neil Chadha, FK Kozak. Child Abuse and Otolaryngology: A systematic review of the literature* Chung Day UBC Department of Surgery November 7, 2016
- *The Five Minute Ear Exam in the GPs Office.* St. Paul's Primary Care Conference November 18, 2016. Vancouver, B



## 04 PUBLICATION RECORD

**PAUL  
MOXHAM**

- *Type IV congenital laryngeal web: Case report and 15 year follow up.* Sorichetti B, Moxham JP, Kozak FK. *Am J Otolaryngol.* 2016 Mar-Apr;37(2):148-51. doi: 10.1016/j.amjoto.2015.11.001. Epub 2015 Nov 10. PMID:26954872

**Neil Chadha**

- Conlin A, Lea J, Bance M, Chadha N, Kilty S, Kozak F, Savage J, Sidhu R, Chen J, Westerberg BD. *Mental practice in postgraduate training: a randomized controlled trial in mastoidectomy skills.* *J Otolaryngol Head Neck Surg.* 2016 Sep 15;45(1):46. doi: 10.1186/s40463-016-0162-2. PubMed PMID: 27634316; PubMed Central PMCID: PMC5025613.
- Valenzuela DG, Kumar DS, Atkins CL, Beers A, Kozak FK, Chadha NK. *Chloral hydrate sedation for auditory brainstem response (ABR) testing in children: Safety and effectiveness.* *Int J Pediatr Otorhinolaryngol.* 2016 Apr;83:175-8. doi: 10.1016/j.ijporl.2016.02.006. Epub 2016 Feb 13. PubMed PMID: 26968073.

**Jeffery  
Ludemann**

- Lee J, Gurberg J, Hughes CA, Tellez P, Moxham JP, Ludemann JP. *Acute Pediatric Supraglottitis – the Need to Enhance Education and Redistribute Classic Management Protocols Internationally, in the Post-HIB Vaccine Era.* Podium at the UBC Surgery Chung Day, Nov 7, 2016.
- Lee J, Gurberg J, Tellez P, Kwong L, Zheng J, Ludemann JP. *Pediatric Tracheostomy: Student Edition – an Educational Mobile App for Healthcare Students (with updated data from student surveys).* Podium at the UBC Surgery Chung Day, Nov 7, 2016.
- Akbari A, Sodhi M, Gurberg J, Strahlendorf C, Ludemann J. *Luc's Abscess: The Spectrum of Disease, including the first reported case with associated intracranial abscess.* Podium at the UBC Surgery Chung Day, Nov 7, 2016.
- Nashon S, Adler D, Scott S, Ludemann J. *Perceptions Underlying Students' Understanding of Choking through Web-Based Learning Experiences.* Podium at the Canadian Society for the Study of Education Annual Meeting, Calgary, May 29 – June 1, 2016.
- Ludemann J., et al. *Development of Computerized Learning Modules, Educational Apps and a Website (dontchoke.ubc.ca<<http://dontchoke.ubc.ca>>); Guest Speaker at the 6th Canadian Society of Otolaryngology – HNS Undergraduate Medical Education Retreat, November 26, 2016*
- Ludemann JP, Ospina JC, Maunsell R, Al-Khatib T, Nashon S. *A Global Choking Prevention Initiative: Can Social Media Save Lives?* Podium at the 13th International Congress of the European Society of Pediatric Otolaryngology, Lisbon, June 2016.
- Ludemann JP, Gurberg J, Chadha NK, Moxham JP. *Branchial Anomalies: Utilization of Methylene Blue Demarcation and Minimally Invasive Microsurgical Techniques (invited panel speaker at the 13th International Congress of the European Society of Pediatric Otolaryngology, Lisbon, June 19, 2016).*
- Gurberg J, Tellez P, Kwong L, Zheng J, Ludemann JP. *Pediatric Tracheostomy: Student Edition – an Educational Mobile App for Healthcare Students.* Podium at the 13th International Congress of the European Society of Pediatric Otolaryngology, Lisbon, June 19, 2016
- Gurberg J, Hughes CA, Tellez P, Moxham JP, Ludemann JP. *Acute Pediatric Supraglottitis – the Need to Enhance Education and Redistribute Classic Management Protocols Internationally, in the Post-HIB Vaccine Era.* Poster at the 13th International Congress of the European Society of Pediatric Otolaryngology, Lisbon, June 19-21, 2016.

## 04

## PUBLICATION RECORDS con't

**Jeffery  
Ludemann**

- Gurberg J, Tellez P, Kwong L, Zheng J, Ludemann JP. *Pediatric Tracheostomy: Student Edition – an Educational Mobile App for Healthcare Students (with updated data from student surveys)*. Podium at the SENTAC Meeting, Orlando, December 2016 (combined with the Interamerican Association of Pediatric Otolaryngology (IAPO) Annual Meeting).
- Akbari A, Sodhi M, Gurberg J, Strahlendorf C, Ludemann J. *Luc's Abscess: The Spectrum of Disease, including the first reported case with associated intracranial abscess*. Poster at the SENTAC Meeting, Orlando, December 2016 (combined with the Interamerican Association of Pediatric Otolaryngology (IAPO) Annual Meeting).
- *Organization of an International Symposium on the Prevention of Pediatric Ear, Nose and Throat Foreign Body Injuries for SENTAC 2016 (combined with the Interamerican Association of Pediatric Otolaryngology (IAPO) Annual Meeting); symposium participants: Drs. James Reilly, Alok Sharma, C. Anthony Hughes, Tamas Peredy and Jared Fry (Intertek).*

**FREDERICK  
KOZAK**

- Etmnan M, Westerberg BD, Kozak FK, Guo MY, Carleton BC. *Risk of sensorineural hearing loss with macrolide antibiotics: A nested case-control study*. *Laryngoscope*. 2017 Jan;127(1):229-232.
- Duggan LV, Theron R, Hodgson AL, Kozak FK. *Airway Management and Definitive Care of a Toddler Following Impalement Injury by a Metal Straw*. *A A Case Rep*. 2016 Oct 1;7(7):143-5.
- Conlin A, Lea J, Bance M, Chadha N, Kilty S, Kozak F, Savage J, Sidhu R, Chen J, Westerberg BD. *Mental practice in postgraduate training: a randomized controlled trial in mastoidectomy skills*. *J Otolaryngol Head Neck Surg*. 2016 Sep 15;45(1):46.
- Valenzuela DG, Kumar DS, Atkins CL, Beers A, Kozak FK, Chadha NK. *Chloral hydrate sedation for auditory brainstem response (ABR) testing in children: Safety and effectiveness*. *Int J Pediatr Otorhinolaryngol*. 2016 Apr;83:175-8. 10.1016/j.ijporl.2016.02.006. Epub 2016 Feb 13. PubMed PMID: 26968073.
- 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.
- Zaidman-Zait A, Curle D, Jamieson JR, Chia R, Kozak FK. *Health-Related Quality of Life Among Young Children with Cochlear Implants and Developmental Disabilities*. *Ear Hear*. 2017 Feb 15.
- 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.

## DIVISION OF PEDIATRIC OTOLARYNGOLOGY

**2017-2018**



### FACULTY MEMBERS:



***Dr. Frederick K. Kozak,  
Division Head***



***Dr. Neil K. Chadha***



***Dr. J. Paul Moxham***



***Dr. Jeffrey P. Ludemann***

**STAFF MEMBERS:**

- *Ms. Patsy Regan, Pediatric Otolaryngology Clinical Nurse*
- *Ms. Marlina Anderson, MOA to Dr. Kozak*
- *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*
- *Ms. Grace Soleta, 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. Chadha was awarded the Faculty Researcher of the Year award from the UBC Division of Otolaryngology-Head and Neck Surgery

Dr Chadha was awarded the Teacher of the Year award by the Residents of the UBC Division of Otolaryngology-Head and Neck Surgery

**DR. KOZAK**

*Dr. Kozak in his role as the Otolaryngology Head and Neck Surgery Residency Program Director ushered in the first Surgical Royal College CBME (Competency Based Medical Education) Program at UBC.*

## 01 TEACHING ACTIVITIES

- FELLOWS**
- *Paula Tellez, Colombia July 1, 2017 – June 30, 2018*
- SUPERVISED**
- *Ricky Pal, United Kingdom July 1, 2016 – June 30, 2017*

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- |                   |                           |                         |
|-------------------|---------------------------|-------------------------|
| <b>RESIDENTS</b>  | • <i>Joel Howlett</i>     | • <i>Alex Butskiy</i>   |
| <b>SUPERVISED</b> | • <i>Kevin Zhao</i>       | • <i>Harman Parhar</i>  |
|                   | • <i>Saad Ansari</i>      | • <i>Kim Luu</i>        |
|                   | • <i>Ethan Newton</i>     | • <i>Joshua Gurberg</i> |
|                   | • <i>Diane Valenzuela</i> | • <i>Brent Chang</i>    |
|                   | • <i>Evie Landry</i>      |                         |
- 

## 02 SCHOLARLY & PROFESSIONAL ACTIVITIES

### PRESENTATIONS:

- Dr. Ludemann**
- *Ludemann, JP. Guiding Principles for an Academic Career. UBC Otolaryngology Grand Rounds, Nov 1, 2017*
  - *A Global Choking Prevention Strategy. Presented at "Repairing the World: From Population to Personalized Medicine. A Symposium from the McGill Medical School Class of 1992", Montreal, October 14, 2017.*
  - *Valenzeula D, Sodhi M, Lyons C, Ludemann JP. Risk Factors for Early Onset of Cataracts and/or Glaucoma – Are Intranasal Corticosteroids Safe? Podium at the SENTAC Annual Meeting, Toronto, Dec 2, 2017*
  - *Panelist: "Foreign Bodies in Remote Hospitals – should they all be transferred?" Invited presentation at the 14th International Congress of the European Society of Pediatric Otolaryngology, Stockholm, June 5, 2018*

02

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES con't

Granting Agency	Subject	COM P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Faculty of Medicine Summer Student Research Program Award	Implication of Noise in the Operating Room		\$3,200	2017	F Kozak	Andrew Amenogbe (Medical Student awardee) N Chadha Doug Cochrane, Firoz Miyangi
Alva Foundation	Sleep monitoring	Y	\$135,500 for 3 years	2015 - 2017	Ansermino	Chadha, Wensley
UBC Biomedical Research Award	Maxillary expansion for OSA	Y	\$7,900.50 for 3 years	2017-2019	Pliska	Chadha
BC Children's Hospital Summer Research Studentship Award	3D facial morphology	Y	\$4,750	2017	Chadha	Kozak
BC Children's Hospital Summer Research Studentship Award	Cochlear implants	Y	\$4,750	2017	Kozak	Chadha
BC Children's Hospital Summer Research Studentship Award	Operating room noise	Y	\$3,200	2017	Kozak	Chadha
Faculty of Medicine Summer Student Research Program Award	Implication of Noise in the Operating Room		\$3,200	2017	F Kozak	Andrew Amenogbe (Medical Student awardee) N Chadha Doug Cochrane, Firoz Miyangi



## COMMITTEE PARTICIPATION

## NEIL CHADA

- *American Society of Pediatric Otolaryngology Research Committee*
- *Sub-editor, Clinical Otolaryngology (Journal)*
- *BC Children's Hospital Airway Committee (DART team)*
- *UBC Otolaryngology Residency Training Committee*
- *UBC Otolaryngology Executive Committee*
- *UBC Otolaryngology Research Committee*

## JOURNAL REVIEWER

- *Laryngoscope*
- *International Journal of Pediatric Otorhinolaryngology*
- *JAMA-Otolaryngology-Head and Neck Surgery*
- *Journal of Otolaryngology - Head & Neck Surgery*
- *Clinical Otolaryngology*
- *Paediatrics*
- *Journal of Otology and Laryngology*

JEFFERY  
LUDEMANN

- *UBC Wesbrook Society (for donations to the Division of Otolaryngology), August 16, 2017*
- *UBC Otolaryngology Promotions Committee, September 2017 to date*

FREDRIK  
KOZAK

- *First Vice-President, Canadian Society of Otolaryngology Head and Neck Surgery*
- *Residency Training Program Director, UBC Division of Otolaryngology*
- *Surgical Foundation Resident Education Committee, UBC Department of Surgery*
- *UBC Otolaryngology Head and Neck Surgery Executive Committee*
- *UBC CBD Lead Update Committee*
- *SSAC-Surgical Services Advisory Committee*
- *CSC Executive Committee*
- *BCCH Department of Surgery Surgical Cabinet*
- *BCCH Airway Safety Committee*
- *BCCH Physician Wellness Working group*
- *Strategic Negotiating Committee SNC – BCMA/Doctors of BC*
- *Negotiating Coordinating Group NCG – BCMA/Doctors of BC*
- *Pediatric Otolaryngology Study Group Canadian Society of OTL-HNS*
- *Scientific Program Chair for IFOS 2021 - June 2017*
- *IFOS World Congress of ENT Bid Committee Jan 2015- June 2017*
- *IFOS International Federation of Otolaryngologic Societies Executive Council*

## JOURNAL REVIEWER

- *International Journal of Pediatric Otolaryngology*
- *Journal of Otolaryngology Head and Neck Surgery*

PAUL  
MOXHAM

- *ASPO Membership Committee*

## JOURNAL REVIEW

- *Laryngoscope*

## PUBLICATION RECORDS

## REFERENCED PUBLICATIONS

## NEIL CHADHA

- Felton M, Lee JW, Balumuka DD, Arneja JS, Chadha NK. Early Placement of Ventilation Tubes in Infants with Cleft Lip and Palate: A Systematic Review. *Otolaryngol Head Neck Surg.* 2018 Mar;158(3):459-464. doi: 10.1177/0194599817742840. Epub 2017 Nov 21. PubMed PMID: 29161200.
- Buchinsky FJ, Chadha NK. To P or Not to P: Backing Bayesian Statistics. *Otolaryngol Head Neck Surg.* 2017 Dec;157(6):915-918. doi: 10.1177/0194599817739260. Review. PubMed PMID: 29192853.
- Losie JA, Yong M, Kozak FK, Chadha NK. Unique Case of Hearing Recovery After Otic Capsule Destruction and Complete Sensorineural Hearing Loss Caused by Langerhans Cell Histiocytosis. *Otol Neurotol.* 2017 Sep;38(8):1129-1132. doi: 10.1097/MAO.0000000000001511. PubMed PMID: 28742630.

JEFFERY  
LUDEMANN

- Pace-Asciak P, Bhimrao SK, Kozak FK, Westerberg BD. Health care professionals' neckties as a source of transmission of bacteria to patients: a systematic review. *CMAJ Open.* 2018 Jan 12;6(1):E26-E30.
- Saxby AJ, Fandino M, Kozak FK. Management of traumatic perilymph fistula with endoscopic techniques. *ANZ J Surg.* 2018 Jan;88(1-2):E93-E94.
- Losie JA, Yong M, Kozak FK, Chadha NK. Unique Case of Hearing Recovery After Otic Capsule Destruction and Complete Sensorineural Hearing Loss Caused by Langerhans Cell Histiocytosis. *Otol Neurotol.* 2017 Sep;38(8):1129-1132. doi: 10.1097/MAO.0000000000001511. PubMed PMID: 28742630.
- Zaidman-Zait A, Curle D, Jamieson JR, Chia R, Kozak FK. Health-Related Quality of Life Among Young Children with Cochlear Implants and Developmental Disabilities. *Ear Hear.* 2017 Jul/Aug;38(4):399-408. doi:10.1097/AUD.0000000000000410. PubMed PMID: 28207575.
- Forehead swelling in a 10-year-old male: A case report - Issue: BCMJ, Vol. 59, No. 8, Oct 2017, page(s) 407-411 Articles. Oleksandr Butskiy, MD, Andrew Remillard, MD, FRCSC, Frederick K. Kozak, MD, FRCSC

PAUL  
MOXHAM

- Terry J, Brown K, Hiebert J, Al-Rawahi GN, Moxham JP, Krajden M, Jassem AN, Tucker L. Measles Lymphadenopathy in a Child with PFAPA Syndrome. Epub 2017 Sept 7. PMID 28882091.

## DIVISION OF PEDIATRIC PLASTIC SURGERY

2016-2017



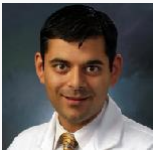
### FACULTY MEMBERS:



**Dr. Cynthia Verchere**  
*Division Head*



**Dr. Sean Bristol**



**Dr. Jugpal Arneja**



**Dr. Douglas J Courtemanche**



**Dr. Erika Henkelman**



**Dr. Mark Hill**

### 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. Audrey Potkonjak, Office Assistant to Dr. Verchere*
- *Ms. Anastasia Mitzel, Medical Office Assistant to Dr. Arneja*

- *Ms. Anastasia Mitzel, Medical Office Assistant to Dr. Arneja*
- *Ms. Rupinder Parhar, Medical Office Assistant to Dr. Courtemanche*
- *Ms. Pamela Daburn, Medical Office Assistant to Dr. Henkelman*

# HIGHLIGHTS AND ACHIEVEMENTS:

## DR. ERIKA HENKELMAN

*Dr. Erika Henkelman received the 2016-2017 Off-Service Teacher of the Year award from UBC Pediatric Emergency Medicine.*

### 01 TEACHING ACTIVITIES

#### *Fellows*

**FELLOWS SUPERVISED** • *Dr. Erika Henkelman (January 2016 – August 2016)*

### 02 SCHOLARLY & PROFESSIONAL ACTIVITIES

#### **PRESENTATIONS**

- *Malhotra AK, Amed S, Bucevska M, Bush K, Arneja J. Do Adolescents with Gynecomastia Need to Be Evaluated by Endocrinology Preoperatively? Western Medical Research Conference, Jan 26-28 2017, Carmel, CA.*
- *Hu V, Henkelman E. Post-operative intravenous fluid ordering practices for pediatric patients by plastic surgery trainees in North America. Western Medical Research Conference, Jan 26-28 2017, Carmel, CA.*
- *Chan R, Van Slyke A, Bucevska M, Verchere C. Outpatient Burn Care at BC Children's Hospital Burn Treatment Room: A 3-Year Review. 2017 Western Regional Meeting; 2017 Jan 26-28; Carmel, CA.*
- *Dahiya A, Courtemanche R, Courtemanche D. Multidisciplinary cleft palate program at BC Children's Hospital: Are we meeting the standards of care? 2017 Western Regional Meeting; 2017 Jan 26-28; Carmel, CA.*
- *Hengel AR, Blanco J, Jinah R, Duffy D, Ajiko M, Courtemanche D. Healthcare worker hand hygiene in a rural Ugandan hospital – What are some ways to clean-up compliance? 2017 Western Regional Meeting; 2017 Jan 26-28; Carmel, CA.*

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES

## PRESENTATIONS

- *Giang B, Courtemanche R, Courtemanche D. Non-operative emergency referrals and W1 management in pediatric plastic surgery. 2017 Western Regional Meeting; 2017 Jan 26-28; Carmel, CA.*
- *Shih J, Zhygan N, Knox A, Courtemanche DJ, Fish J, Brown M. Assessment of core procedural competencies amongst Canadian plastic surgery residents. International Conference on Resident Education (ICRE) Sept. 2016 Niagara Falls, ON.*
- *Thibodeau ML, Prendiville J, Courtemanche D, Moss W, Terry J, Crawford RI, Yip S, Lehman A, McKinnon M. Congenital spindle cell haemangioma associated with multiple vascular anomalies. 37th Annual David W Smith Conference on Malformations and Morphogenesis. Lake Arrowhead, CA. 14 Sept 2016.*
- *Henkelman E. Grafts and Flaps for Nurses. Nursing Education Day, BC Children's Hospital, Nov. 2016, Vancouver, BC.*
- *Henkelman E. Pediatric Hand Fractures for ER Physicians. Pediatric Emergency Medicine academic half day. BC Children's Hospital, March 2017, Vancouver, BC.*
- *Bjornson L, Bucevska M, Verchere C. Tissue expansion in pediatric patients: A 10-year review. 70th Canadian Society of Plastic Surgery Annual Meeting; 2016 Jun 14-18; Ottawa, ONT.*
- *Vivas M, MacDougall F, Verchere C. Using user-friendly pediatric burn diagrams and photographs to improve documentation. 3rd Annual Canadian BURN Symposium; 24 October, 2016, Vancouver, BC.*
- *Chan R, Van Slyke A, Bucevska M, Verchere C. Outpatient Burn Care at BC Children's Hospital Burn Treatment Room: A 3-Year Review. 3rd Annual Canadian BURN Symposium; 24 October, 2016, Vancouver, BC*

Program / Project Title	PI	Team Members	Granting Agency	Amount
A needs assessment audit of the cleft palate clinic: Are we meeting the demand of our patient population with our available resources?	D. Courtemanche	Anita Dahiya	OPSEI	\$1,600 (Summer Student Grant)
Outpatient Sedated Burn Dressings at BC Children's Hospital: A 10-Year Audit	C. Verchere	Rayleigh Chan Aaron Van Slyke	UBC FoM	\$3,200 (Summer Student Grant)
The impact of non-operative emergency referrals on W1 management	D. Courtemanche	Bethanie Giang, Lenny Zhou	OPSEI	\$1,600 (Summer Student Grant)
Post Op Fluids & Pain Meds	E. Henkelman	Vivien Hu	OPSEI	\$3,200 (Summer Student Grant)
Predicting Limb Length Discrepancy in Patients with Vascular Anomalies in the Lower Limb	D. Courtemanche	Anthony Cooper Aresh Sepheri	UBC, Division of Plastic Surgery	\$4,255
Is routine laboratory investigation necessary in pubertal gynecomastia? A retrospective study.	J. Arneja	Shazam Amed Armaan Malhotra Kevin Bush	UBC, Division of Plastic Surgery	\$5,000
Is routine laboratory investigation necessary in pubertal gynecomastia? A retrospective study.	J. Arneja	Shazam Amed Armaan Malhotra Kevin Bush	CFRI	\$3,150 (Summer Student Grant)
Evaluation of shoulder and elbow function following the Sup-ER protocol in children with birth related brachial plexus injuries	C. Verchere	Doria Bellows Kim Durlacher	UBC, Division of Plastic Surgery	\$4,785

## 03

## COMMITTEE PARTICIPATION

- |                                 |  |
|---------------------------------|--|
| <b>JUGPAL ARNEJA</b>            | <ul style="list-style-type: none"> <li>• American Association of Pediatric Plastic Surgeons, Executive Committee Member, 2016-present</li> <li>• Plastic Surgery- Ed., Editorial Board Member, 2014-present</li> <li>• Medical Advisory Committee (MAC), BC Children's Hospital, 2012-present</li> <li>• Provincial Surgical Advisory Council (PSAC), BC Children's Hospital</li> <li>• Surgical Services Advisory Council (SSAC), BC Children's Hospital, 2010-present</li> <li>• Child Health Leadership Team, BC Children's Hospital, 2010-present</li> </ul> |
| <b>DOUGLAS<br/>COURTEMANCHE</b> | <ul style="list-style-type: none"> <li>• Cleft Palate Program Review Committee, BC Children's Hospital, Oct 2016 - present</li> <li>• PHSA Biohazard Exposure Control Exception Review Committee, Dec 2011 - present</li> <li>• PHSA IMITS Policy &amp; Planning Committee, Jan 2013 to present</li> </ul>   |
| <b>CYNTHIA VERCHERE</b>         | <ul style="list-style-type: none"> <li>• UBC Plastic Surgery Residency Committee, Member, Jan 2006 to present</li> <li>• CARMS Interviews Committee, Member, Feb 2006 to present</li> <li>• Burn Program ad hoc Committee (VGH/BCCH), Jan 1996 to present</li> </ul>   |

## 04

## PUBLICATION RECORDS con't

## REFERENCED PUBLICATIONS

1. Zhang J, Song D, Bedford J, Bucevska M, Courtemanche DJ, Arneja J. What Is the Best Way to Measure Surgical Quality? Comparing the American College of Surgeons National Surgical Quality Improvement Program versus Traditional Morbidity and Mortality Conferences. *Plast Reconstr Surg*. 2016 Apr;137(4):1242-50.
2. Toor J, Crain J, Kelly C, Verchere C, Fish J. Pediatric Burns from Glass-Fronted Fireplaces in Canada: A Growing Issue Over the Past 20 Years. *J Burn Care Res*. 2016 Sep;37(5):e483-8.
3. Zhang J, Arneja J. The Unilateral Cleft Lip Repair and Primary Cleft Rhinoplasty. *Plast Reconstr Surg Glob Open* 2016;4:e1125; Published online 23 November 2016.
4. "Coroneos CJ, Voineskos SH, Christakis MK, Thoma A, Bain JR, Brouwers MC; Canadian OBPI Working Group\*. Obstetrical brachial plexus injury (OBPI): Canada's national clinical practice guideline. *BMJ Open*. 2017 Jan 27;7(1):e014141.
5. \*Verchere C. is a part of the Canadian OBPI Working Group."
6. Dean PH, Bucevska M, Strahlendorf C, Verchere C. Pediatric Melanoma: A 35-year Population-based Review. *Plast Reconstr Surg Glob Open* 2017;5(3):e1252; doi: 10.1097/GOX.0000000000001252. Published online 9 March 2017.
7. Courtemanche DJ, Barton R, Li D, McNeill G, Heran MKS. Routine Postoperative Imaging Is Not Indicated in the Management of Mandibular Fractures. *J Oral Maxillofac Surg*. 2017; 75(4):770-4.
8. Phang M, Courtemanche DJ, Bucevska M, Malic C, Arneja JS. Spontaneously Resolved Macrocystic Lymphatic Malformations: Predictive Variables and Outcomes. *Can J Plast Surg*. 2017; 25(1):27-31.
9. Li W, Poon A, Courtemanche DJ, Verchere C, Robertson S, Bucevska M, Malic C, Arneja J. Airway Management in Pierre Robin Sequence: The Vancouver Classification. *Can J Plast Surg*. 2017; 25(1):14-20.



## DIVISION OF PEDIATRIC SURGERY

2016-2017



**FACULTY MEMBERS:**

***Dr. Eric M. Webber***  
***Division Head***



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

# HIGHLIGHTS AND ACHIEVEMENTS:

## DR. BUTTERWORTH

1. Faculty Lead for May 2017 Program Director's Workshop on Simulation in Medical Education
2. ATLS Instructor and course director September 2016

01

## SCHOLARLY & PROFESSIONAL ACTIVITIES

### PUBLICATIONS

Butterworth

- Joharifard S, Coakley BA, Butterworth SA. *Pleurectomy Versus Pleural Abrasion for Primary Spontaneous Pneumothorax in Children J Pediatr Surg* 2017 May;52(5):680-683. doi: 10.1016/j.jpedsurg.2017.01.012. Epub 2017 Jan
- Kim D, Butterworth SA, Goldman RD: *Chronic appendicitis in children. Can Fam Physician.* 2016 Jun; 62(6):e304-5.
- 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.
- Au N, Blair GK, Butterworth S. *Lights, Camera, Simulation. OPSEI* 2016
- *Treatment of Hemorrhagic Shock Guideline, revised, BCCH, March 2017.*
- *Massive transfusion protocol. revised, BCCH, March 2017*
- *Blunt Abdominal Trauma Management Guideline, revised BCCH, March 2017*

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES con't

*PUBLICATIONS con't :***Skarsgard**

- *Puligandla PS, Skarsgard ED. The Canadian Pediatric Surgery Network Congenital Diaphragmatic Hernia Evidence Review Project: Developing national guidelines for care. Paediatr Child Health 2016 May;21(4): 183-6.*
- *Skarsgard ED. Management of Gastroschisis. Curr Opin Pediatr 2016 Jun;28(3):363-9.*
- *Bassil KL, Yang J, Arbour L, Moineddin R, Brindle M, Hazell E, Skarsgard ED. Spatial Variability of Gastroschisis in Canada, 2006-2011: An Exploratory Analysis. Can J Public Health 2016 Jun 27;107(1):e62-7*
- *Skarsgard ED. Recommendations for Surgical Safety Checklist Use in Canadian Children's Hospitals. Can J Surg 2016 Jun;59(3): 161-6.*
- *Skarsgard ED (Lead author). Section on Surgery; Committee on Bioethics; American Pediatric Surgical Association New Technology Committee. Responsible Innovation in Children's Surgical Care. Pediatrics 2017 Jan 27. pii: e20163437. doi: 10.1542/peds.2016-3437.*
- *Harting MT, Hollinger L, Tsao K, Putnam LR, Wilson JM, Hirschl RB, Skarsgard ED, Tibboel D, Brindle ME, Lally PA, Miller CC, Lally KP, Congenital Diaphragmatic Hernia Study Group. Aggressive surgical management of congenital diaphragmatic hernia - worth the effort? A multi-center, prospective, cohort study. Ann Surg. 2018 May;267(5):977-982.*

**Webber**

- *Webber EM, Ronson AR, Gorman LR, Taber S, Harris KA. The future of general surgery: evolving to meet a changing practice. J Surg Education, 2016; 73(3): 496-503.*

## CONFERENCE PROCEEDINGS

### SONIA

### BUTTERWORTH

- Au N, Blair GK, Butterworth S. *Lights, Camera, Simulation. J of Investigative Med. 2017 Jan*
- Joharifard S, Coakley BA, Butterworth SA. *Pleurectomy Versus Pleural Abrasion for Primary Spontaneous Pneumothorax in Children. Canadian Association of Pediatric Surgeons. Annual Scientific Meeting. 2016*
- Irena Zivkovic, Seo Young Kim, and Sonia Butterworth. *Pediatric mortality associated with delays in access to emergent surgery: a risk stratified analysis. Chung Day, November 7, 2016(presenter)*
- Au N, Blair GK, Butterworth S. *Lights, Camera, Simulation. Chung Day November 7, 2016*
- Casey L, Albersheim, S, Butterworth S. *"NeoCHIRP: A collaborative care model for intestinal rehabilitation in the neonatal intensive care unit" 9th International Pediatric Intestinal Failure and Rehabilitation Symposium. Los Angeles October 27, 2016*

#### *Invited presentations, April 1, 2016 to March 31, 2017:*

- Butterworth. *Overview of Simulation related to PGME at UBC. PGME Program Director's Workshop. May 10, 2016.*
- Butterworth. *Should we stay or should we go? – Emergent surgery for NICU patients. Canadian Anesthesia Society. Annual Scientific Meeting. Vancouver, BC. June 25, 2016*
- Butterworth, Chin. *Moving forward inpatient safety: in situ CRM for OR teams. Surgical Suites Advisory Committee. September 13, 2016*
- Butterworth. *Outcomes Associated with Wait Time to Emergent Surgery: A Risk Stratified Analysis. Surgical Suites Grand Rounds. November 15, 2016. Vancouver, BC*
- Butterworth. *Emergency Surgical Interventions: Safety, timing, access and quality. Anesthesia Rounds. Feb 21, 2017.*
- Butterworth. *Pediatric Blunt Abdominal Trauma-Controversies in Imaging. Trauma Association of Canada. February 24, 2017. Vancouver. BC*
- National Defense, Canadian Forces Trauma Training Centre (West), *Pediatric Trauma –June 8, 2016*
- National Defense, Canadian Forces Trauma Training Centre (West), *Pediatric Trauma –Sept 14, 2016*
- *ATLS Instructor and course director 2016*
- National Defense, Canadian Forces Trauma Training Centre (West), *Pediatric Trauma –February 8, 2017*
- Butterworth. *Emergency Pediatric Surgery Interventions: Safety, Timing, Access and Quality. BCCH Anesthesia Grand Rounds. February 17, 2017*
- Butterworth. *Pediatric Blunt Abdominal Trauma-Controversies in Imaging. Trauma Association of Canada Annual Meeting. February 24, 2017*

### ERIK SKARSGARD

- State of the Art Lecture: *Surgical Outcomes and Evidence Based Surgical Practice: RCT, Registry or Research Network? 63rd Annual Northwest Urological Society Conference, Vancouver, BC, Canada. January 28, 2017*
- Value Proposition of Pediatric Surgical Registries. *WOFAPS World Congress of Pediatric Surgery. October 10, 2016, Washington, DC*
- The 4P's of patient care optimization through Innovation: *Patients, Providers, Procedures and Pragmatism. 48th Annual Meeting of the American Pediatric Surgical Association, San Diego, CA. May 15, 2016*

## Grant Funding Received

03

GRANTING AGENCY	TITLE		YEAR	PI	CO-PI
SPIF	Surgical Access Improvement	\$2100	1	Butterworth	Whyte, Heran, Afshar

## Teaching Activities: April 1, 2016 – March 31, 2017

04

### Residents Supervised

<i>Royal College General Surgery Residents (8 week rotations)</i>	<i>Royal College Plastic Surgery Residents (4 week rotations)</i>	<i>Royal College Pediatrics Residents (4 week rotations)</i>	<i>General Surgery Elective Residents (4 week rotations)</i>
<ul style="list-style-type: none"> <li>• Joseph Margolick</li> <li>• Dean Percy</li> <li>• Alghalya Al-Maawali</li> <li>• Nicole Mak</li> <li>• Sadiq Al-Khaboori</li> <li>• Jake Hiebert</li> <li>• Jonathan Rankumar</li> <li>• Jean Oosthuizen</li> <li>• Katrina Duncan</li> <li>• Shiana Manoharan</li> </ul>	<ul style="list-style-type: none"> <li>• Stahs Pripotnev</li> <li>• Peter Mankowski</li> <li>• Sofie Schlagintweit</li> </ul>	<ul style="list-style-type: none"> <li>• Jaclyn Strauss</li> <li>• Mara Tietzan</li> <li>• Gabrielle Bibas</li> <li>• Angella Griffith</li> <li>• Andrew Irvine</li> <li>• Caleigh Campbell</li> <li>• Vanessa Masson</li> <li>• Kate Maki</li> <li>• Meghna Rajaprakash</li> <li>• Kenneth Lee</li> <li>• Youseff Al-Nassar</li> <li>• Jimmy Wang</li> <li>• Meaghan MacLean</li> </ul>	<ul style="list-style-type: none"> <li>• Tito Daodu (University of Calgary)</li> <li>• Mercedes Pilkington (Queen's University)</li> <li>• Ayca Toprak (Queen's University)</li> </ul>

### Fellows Supervised

- Brian Coakley
- Abdullah Alshehri
- Candace Haddock

### Research Residents Supervised

- Butterworth
- Shahrzad Joharifard PGY4-5 General Surgery 2016
  - Candace Haddock PGY6 Pediatric Surgery 2016-17

- Skarsgard
- Catherine Beaumier

### Students Supervised

- |              |                |      |      |             |
|--------------|----------------|------|------|-------------|
| • Natasha Au | Summer student | 2016 | 2017 | Butterworth |
| • Adam Min   | Summer student | 2016 | 2017 | Butterworth |
- Skarsgard
- Rafael Solimano, OPSEI summer research student
  - Paige Dean, CFRI Summer Research Student



## COMMITTEE PARTICIPATION

## BUTTERWORTH

- *Nutrition Committee, BCCH*
- *Diaphragmatic Pacing, Surgical Director, BCCH*
- *Children's Intestinal Rehabilitation Program, Surgical Director, BCCJ*
- *NICU Complex Nutrition Committee, Surgical Representative, BCCH*
- *Trauma Steering Committee, Surgical Representative, BCCH*
- *Program Director, Surgical Foundations, UBC*
- *Program Director, Pediatric Surgery, UBC*
- *Postgraduate Internal Review Committee, UBC*
- *Surgical Foundations Residency Education Committee, UBC*
- *General Surgery Residency Education Committee, UBC*
- *Pediatric General Surgery Residency Education Committee, UBC*
- *Department of Surgery Clinical Appointment and Promotion Committee, UBC*
- *Department of Surgery Executive Committee, UBC*
- *Faculty Residency Committee, UBC*
- *Faculty Residency Executive Committee, UBC*
- *Simulation Co-Lead. PGME, UBC*
- *Family Medicine Simulation Working Group, UBC*
- *CESEI Steering Committee, UBC*
- *Selection Committee- Division Head, General Surgery, UBC*
- *Dean's Advisory Committee – Head, Department of Surgery, UBC*
- *CBME lead, PGME, UBC*

## SKARSGARD

- *Vice Chair, Institute Advisory Board, Institute of Human Development, Child and Youth Health, Canadian Institutes of Health Research*
- *Vice Chair, Institute Advisory Board, Institute of Human Development, Child and Youth Health, Canadian Institutes of Health Research*
- *Member American College of Surgeons Advisory Council on Pediatric Surgery*
- *President, Canadian Association of Pediatric Surgeons*
- *Surgeon Champion, Pediatric National Surgical Quality Improvement Program*
- *Surgeon in Chief, BC Children's Hospital*
- *Chair, Search Committee for recruitments in Pediatric Ophthalmology*
- *Board member, BC Children's Hospital Foundation*
- *Chair, Surgical Services Advisory Committee*
- *Member, Medical Advisory Committee, BCCH*
- *Chair, Surgical Services Advisory Committee, BCCH*
- *Member, Allocations Committee, BCCH Foundation*

## COMMITTEE PARTICIPATION

**Webber**

- 
1. *Medical Advisory Committee, Vice-Chair (C and W)*
  2. *Mortality Review Committee, Chair (C and W)*
  3. *Surgical Services Safety Quality of Care Committee, Member (BCCH)*
  4. *Surgical Services Advisory Committee, Member (BCCH)*
  5. *Vascular Access Committee, Co-Chair (BCCH)*
  6. *Resident Appeals Committee, Chair (UBC Faculty of Medicine)*
  7. *Executive Committee, Member (UBC Dept. of Surgery)*
  
  8. *Pacific Association of Pediatric Surgeons*
    - a. *Board of Directors, Member*
    - b. *Publications Committee, Member*
    - c. *Program Committee, Member*
  
  9. *Royal College of Physicians and Surgeons of Canada*
    - a. *General Surgery Specialty Committee, Chair*
    - b. *Pediatric Surgery Subspecialty Committee, Member*
    - c. *Surgical Foundations Advisory Committee, Member*
    - d. *Specialty Standards Review Committee, Member*
-

## DIVISION OF PEDIATRIC SURGERY

2017-2018



### FACULTY MEMBERS:

- Dr. Robert Baird (started July 1, 2017)
- Dr. Geoffrey K. Blair
- Dr. Sonia A. Butterworth
- Dr. Hannah G. Piper (started September 1, 2017)
- Dr. Erik D. Skarsgard
- Dr. Eric M. Webber, Division Head

### STAFF MEMBERS:

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

# HIGHLIGHTS AND ACHIEVEMENTS:

## DR. BUTTERWORTH

- UBC PGME Lead for November 2017 Program Director's Workshop on Competency Based Medical Education
- Developed CBD module for UBC faculty and residents
- Organized and ran February CBD workshop for faculty and residents.
- Facilitated ePortfolio 2-day workshop May 2018.
- ATLS Instructor and course director September 2017

01

## SCHOLARLY & PROFESSIONAL ACTIVITIES

### PUBLICATIONS April 1, 2017 to March 31, 2018

**Baird** • Baird R, Pandya K, Lal DR, Regarding global pediatric surgery training opportunities. *J Pediatr Surg.* 2018 Jun;53(6):1256-1258.

- Butterworth**
- Hintz GG, Alshehri A, Bell C, Butterworth S: Stapled Versus Hand-Sewn Pediatric Intestinal Anastomoses: A Retrospective Cohort Study. *J Pediatr Surg.* Epub 2018 Feb 8
  - Percy, DB, Haddock C, Ma V, Nowak A, Panczuk J, Butterworth S: Dressed for success? Silver impregnated nanocrystalline dressing for initial treatment of giant Omphalocele. *J Pediatr Surg.* Epub 2018 Feb 8
  - Dasgupta T, Cheung N, Butterworth S: Emergency Surgery Delays – an analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital. *OPSEI*, November 7, 2017
  - Ji A, Butterworth S. Clerkship Procedural Simulation Technique Project. *OPSEI* 2017.

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES con't

## PUBLICATIONS con't :

## Piper

- Gonzalez-Hernandez J, Prajapati P, Ogola G, Channabasappa N, Piper HG. A comparison of lipid minimization strategies in children with intestinal failure. *The Journal of Pediatric Surgery*, 2017; Oct 12: epub ahead of print.
- Drews B, Macaluso M, Piper HG, Channabasappa N. Caregiver education reduces the incidence of community acquired CLABSI in the pediatric intestinal failure patient. *Gastroenterology Nursing*, 2017; Nov/Dec; 40 (6): 458-462.
- McLaughlin CM, Channabasappa N, Pace Jesse, Huanying Q, Piper HG. Growth trajectory in children with short bowel syndrome during the first two years of life. *Journal of Pediatric Gastroenterology & Nutrition*, 2018, 66: 484-488.
- Itum DS, Oltmann SC, Choti MA, Piper HG. Access to paid parental leave for academic surgeons. *Journal of Surgical Research*, 2018; Jan 31: epub ahead of print.

## Skarsgard

- Puligandla PS, Baird R, Skarsgard ED, Emil S, Laberge J-M, the Canadian Pediatric Surgery Network (CAPSNet). Outcome prediction in gastroschisis – The Gastroschisis Prognostic Score (GPS) revisited. *J Pediatr Surg* 2017 May;52(5):718-721.
- Aljahdali AH, Al-Buainain HM, Skarsgard ED. Staged closure of a giant omphalocele with amnion preservation-modified technique. *Saudi Med J* 2017 Apr;38(4):422-424.
- Lally PA, Skargard ED. Congenital Diaphragmatic Hernia: The Role of Multi-institutional Collaboration and Patient Registries in Supporting Best Practice. *Semin Pediatr Surg* 2017 Jun;26(3):129-135.
- Lagoo J, Lopushinsky S, Haynes AB, Bain P, Flageole H, Skarsgard ED, Brindle ME. Effectiveness and meaningful use of pediatric surgical safety checklists and their implementation strategies: a systematic review with narrative synthesis. *BMJ Open* 2017 Oct 16;7(10):e016298.
- The Canadian Congenital Diaphragmatic Hernia Collaborative Evidence and Consensus-Based National Clinical Management Guidelines. *The Canadian CDH Collaborative. CMAJ* 2018 Jan 29;190(4):E103-E112
- Haddock C, Al Maawali A, Ting J, Bedford J, Afshar K, Skarsgard ED. Impact of Multidisciplinary Standardization of Care for Gastroschisis: Treatment, Outcomes and Cost. *J Pediatr Surg*. 2018 May;53(5):892-897.
- Alshehri A, Afshar K, Bedford J, Skarsgard ED. The Relationship between Preoperative Nutritional State and Adverse Outcome following Abdominal and Thoracic Surgery in Children: Results from the NSQIP Database. *J Pediatr Surg*. 2018 May;53(5):1046-1051.
- Skarsgard ED. The Value of Patient Registries in Advancing Pediatric Surgical Care. *J Pediatr Surg*. 2018 May;53(5):863-867.

## CONFERENCE PROCEEDINGS

SONIA  
BUTTERWORTH

1. T Dasgupta, N. Cheung, C. Bhiladvala B. Fashola, D. Duffy, J. Song, A. Tong S. Butterworth. *Emergency Surgery Delays - An analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital. . Western Student and Resident Medical Research Forum. Western Regional Meeting, Carmel California, January 2018*
2. Ji A, Butterworth S. *Clerkship Procedural Simulation Technique Project. Western Student and Resident Medical Research Forum. Western Regional Meeting, Carmel California, January 2018*
3. Yang G, Butterworth S. *EPA-based simulation modules with near peer assessment: the miniCRASH experience for Surgical Foundations Transition to Discipline. ICRE 2017, Quebec City, QB.*
4. Butterworth S, Zivkovic I, Seo YK. *Pediatric outcomes associated with delays in surgical access. Annual Scientific Meeting, Canadian Association of Pediatric Surgeons. October, 2017(presenter)*
5. Hintz GG, Alshehri A, Bell C, Butterworth S: *Stapled Versus Hand-Sewn Pediatric Intestinal Anastomoses: A Retrospective Cohort Study. The Surgical Times, UBC Dept of Surgery. 2017 Oct;1150 (17)*
6. Percy, DB, Haddock C, Ma V, Nowak A, Panczuk J, Butterworth S: *Dressed for success? Silver impregnated nanocrystalline dressing for initial treatment of giant Omphalocele. The Surgical Times, UBC Dept of Surgery. 2017 Oct; C13 (33)*
7. Dasgupta T, Cheung N, Butterworth S: *Emergency Surgery Delays – an analysis of target time achievement and causes of delay in emergency cases at BC Children's Hospital. The Surgical Times, UBC Dept of Surgery. 2017 Oct; C44 (41)*
8. Hintz GG, Alshehri A, Bell C, Butterworth S: *Stapled Versus Hand-Sewn Pediatric Intestinal Anastomoses: A Retrospective Cohort Study. Annual Scientific Meeting, Canadian Association of Pediatric Surgeons. October, 2017.*
9. Percy, DB, Haddock C, Ma V, Nowak A, Panczuk J, Butterworth S: *Dressed for success? Silver impregnated nanocrystalline dressing for initial treatment of giant Omphalocele. Annual Scientific Meeting, Canadian Association of Pediatric Surgeons. October, 2017.*
10. Shariff, Chin, Butterworth. *Team Training in the Operating Room: a pilot project. CHES Celebration of Scholarship. August 4, 2017.*

## Piper

1. Casson C, Pace J, Piper HG. *UTSW Medical Student Research Forum. Urine Sodium Concentration as a Marker of Poor Growth in Children with Intestinal Failure*  
Poster presentation (2017)
2. Casson C, Pace J, Piper HG. *North & South Texas American College of Surgeons. Urine Sodium as a Marker of Poor Growth in Children After Intestinal Resection*  
Oral presentation (2017)
3. McLaughlin C, Gonzalez-Hernandez J, Bennett M, Piper HG. *North & South Texas American College of Surgeons. Pediatric Breast Masses: Should They Be Excised?*  
Oral presentation (2017)
4. Gonzalez-Hernandez J, Prajapati P, Ogola G, Nguyen V, Channabasappa N, Piper HG. *American Pediatric Surgical Association. A Comparison of Lipid Minimization Strategies in Children with Intestinal Failure*  
Oral presentation (2017)
5. McLaughlin C, Bennett M, Channabasappa N, Journeycake J, Piper HG. *Canadian Association of Pediatric Surgeons. Anticoagulation results in increased line salvage for children with intestinal failure and central venous thrombosis.*  
Poster presentation (2017)



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## CONFERENCE PROCEEDINGS

**Piper** 6. Casson C, Pace J, Piper HG. *American Society of Parental and Enteral Nutrition, Nutrition Science and Practice Conference. Urine sodium to creatinine ratio as a measure of sodium depletion in children after intestinal resection. Oral Presentation (2018)*

7. McLaughlin C, Gonzalez-Hernandez J, Bennett M, Piper HG. *Academic Surgical Congress. Pediatric breast masses: should they be excised? Oral Presentation (2018)*

**Webber** 1. *Role of the Royal College of Physicians and Surgeons of Canada in Rural Surgery Training. Canadian Summit on Rural Surgery. Victoria, B.C.*

03

## INVITED PRESENTATIONS:

**Baird** 1. APSA (American Association of Pediatric Surgeons) May 2018 Systematic Reviews – What are They and Why are They Important? Robert J. Baird, MD; Robert L. Gates, MD

**Butterworth** 1. Butterworth. Competency by Design: Myths, Challenges & Opportunities. UBC PGME Workshop: CBD. November, 2017  
 2. Butterworth. Competency by Design: What are the implications for Surgical Undergrad? CUSEC Annual Meeting. November 16, 2017.  
 3. Butterworth. Competency by Design: Myths, Challenges & Opportunities. Critical care Grand Rounds. November 17, 2017  
 4. Dagone, Chaput, Venance, Takahashi, Butterworth. Soft Launch: Lessons learned by 5 schools. CBD Leads Meeting. October 17, 2017  
 5. Butterworth. Introduction to Surgical Subspecialties (Pediatric Surgery). Vancouver Summer Program. August 1, 2017. Vancouver, BC  
 6. National Defense, Canadian Forces Trauma Training Centre (West), Pediatric Trauma – June 7, 2017  
 7. Butterworth. CBD: Clarifying Myths, Misconceptions & Misunderstandings. UBC PGME CBME workshop. Feb 6, 2018.  
 8. National Defense, Canadian Forces Trauma Training Centre (West), Pediatric Trauma – Feb 7, 2018

**Piper** 1. Division of Pediatric Gastroenterology Educational Seminar, *Current Advances in the Management of Pediatric Intestinal Failure* (2017) (local)  
 2. Division of Pediatric Surgery Grand Rounds, *Current Advances in the Management of Pediatric Intestinal Failure: 5 Years of Progress* (2017) (local)  
 3. OPSEI Research Initiatives, *The Role of the Gut Microbiota in Intestinal Rehabilitation*. BC Children's Hospital (2018) (local)

1. Mini Med School 2017 - Surgery: Past, Present & Future. BCCHRI Oct 17, 2017 (invited presentation)
2. Responsible Innovation in Surgery. Department of Surgery Grand Rounds, University of Colorado, Denver, CO. November 6, 2017 (invited presentation)
3. The Value of Patient Registries in Advancing Pediatric Surgical Care. Department of Pediatrics Grand Rounds, Children's Hospital of Colorado, Denver, CO. November 3, 2017 (invited presentation)
2. Presidential Address: The Value of Patient Registries in Advancing Pediatric Surgical Care. 49<sup>th</sup> Annual Meeting of the Canadian Association of Pediatric Surgeons, Banff, AB, Canada. Oct 6, 2017

## Grant Funding Received

GRANTING AGENCY	TITLE		YEAR	PI	CO-PI
Evidence to innovation E2i microgrant	The use of clinical decision rules in evaluating blunt abdominal trauma in pediatric patients	\$ 3000	2018	Robert Baird	
Evidence to innovation E2i microgrant	A Prospective evaluation of non-operative treatments for gastrocutaneous fistulae in children	\$ 3000	2018	Robert Baird	
Rare Disease Foundation microgrant	Advancing Surgical Care of the Neonate with Sacrococcygeal Teratoma: Evidence, Action, and Advocacy	\$ 3500	2018	Damian Duffy	Robert Baird
MASES	Surgical Access improvement	Yes 17,616	1	Butterworth	Whyte, Heran, Afshar
Robert Maudsley Fellowship	Simulation in Surgical Medical Education	Y 40,000	1	Shariff	Regher, Butterworth,
ASPEN (American Society for Parenteral and Enteral Nutrition)	Targeted probiotic therapy to improve the gut microbiota and growth in children with short bowel syndrome	C \$25,000	2	Hannah Piper	

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## Teaching Activities: April 1, 2016 – March 31, 2017

### Residents Supervised

<b>Royal College General Surgery Residents (8 week rotations)</b> <ul style="list-style-type: none"> <li>• Shiana Manoharan</li> <li>• Graeme Hintz</li> <li>• Kristin Degirolamo</li> <li>• Farhana Shariff</li> <li>• Daniel Lustig</li> <li>• Vivian Ma</li> <li>• Kathleen Garber</li> <li>• Mitchell Webb</li> <li>• David Kim</li> <li>• Rihab Al-Lawati</li> </ul>	<b>Royal College Plastic Surgery Residents (4 week rotations)</b> <ul style="list-style-type: none"> <li>• Jacques Zhang</li> <li>• Janine Roller</li> </ul>	<b>Royal College Pediatrics Residents (4 week rotations)</b> <ul style="list-style-type: none"> <li>• Alanna Chomyn</li> <li>• Claire O'Brien</li> <li>• Sarah Tod</li> <li>• Kelly Cox</li> <li>• Jennifer McIntyre</li> <li>• Mark Tsai</li> <li>• Krista Oei</li> <li>• Elizabeth Hankinson</li> <li>• Adam Hoffman</li> <li>• Nicole Dahl</li> <li>• Stephen Tsai</li> <li>• Meriem Latrous</li> <li>• Luisa Flohr</li> <li>• Paul D'Alessandro</li> </ul>	<b>General Surgery Elective Residents (4 week rotations)</b> <ul style="list-style-type: none"> <li>• Azim Kasmani (Queen's University)</li> <li>• Yasmine Yousef (McMaster University)</li> </ul>
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### Fellows Supervised

- Abdullah Alshehri
- Candace Haddock
- Arlene Nakanwagi

Dr. Baird, Fellowship Program Director and Dr. Arlene Muzira, Fellow



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### Research Residents Supervised

## Teaching Activities: April 1, 2016 – March 31, 2017

Resident Name	Degree	Start	Finish	Supervisory Role
Baird				
Azim Kasmani	MD	July 2017		Research Supervisor
Graeme Hintz	MD	July 2017		Research Supervisor
Butterworth				
Dean Percy	MD	2016	2017	Research Supervisor
Graeme Hintz	MD	2016	2017	Research Supervisor
Farhana Shariff	MD	2016	ongoing	Research Supervisor
Piper				
Cory McLaughlin	MD	July 2017	June 2018	Research Supervisor

### Students Supervised

Student Name	Degree	Start	Finish	Supervisory Role
Butterworth				
Jieni Song		2017	2017	Supervisor
Kaitai (Alan) Tong		2017	2017	Supervisor
Nicole Cheung		2017	2017	Supervisor
Tisha Dasgupta		2017	2017	Supervisor
Angela Ji		2017	2018	Supervisor
Cameron Casson	MD	January 2018	August 2018	Supervisor for MD with Distinction in Research degree program, University of Texas Southwestern
Skarsgard				
Julie Wong	BSc	April 2017	March 2018	Supervisor of FLEX undergraduate research student

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## COMMITTEE PARTICIPATION

### Baird

*American Association of Pediatric Surgeons  
Outcomes and Evidence Based Practice committee  
Canadian Association of Pediatric Surgeons  
Executive Committee  
Publications Committee  
Global Committee*

### Butterworth

*Children's Intestinal Rehabilitation Program, Surgical Director, BCCH  
NICU Complex Nutrition Committee, Surgical Representative, BCCH  
Diaphragmatic Pacing, Surgical Director, BCCH  
Trauma Steering Committee, Surgical Representative, BCCH  
Program Director, Surgical Foundations, UBC  
Program Director, Pediatric Surgery, UBC  
Postgraduate Internal Review Committee, UBC  
Surgical Foundations Residency Education Committee, UBC  
General Surgery Residency Education Committee, UBC  
Pediatric General Surgery Residency Education Committee, UBC  
Department of Surgery Clinical Appointment and Promotion Committee, UBC*

## COMMITTEE PARTICIPATION

<b>Butterworth</b>	<i>Department of Surgery Executive Committee, UBC</i> <i>Faculty Residency Committee, UBC</i> <i>Faculty Residency Executive Committee, UBC</i> <i>CESEI Steering Committee, UBC</i> <i>CBME lead, PGME, UBC</i>
<b>Piper</b>	<i>Canadian Association of Pediatric Surgeons, Publication Committee</i> <i>Canadian Association of Pediatric Surgeons, Research Committee</i> <i>American Pediatric Surgical Association, Education Committee</i> <i>Pharmacy, Therapeutics &amp; Nutrition Committee, Children's and Women's Health Centre of BC</i> <i>Neonatal Intensive Care Unit Nutrition Committee, Children's and Women's Health Centre of BC</i> <i>Canadian Consortium for Research in Pediatric Surgery</i> <i>Site co-director for BC Children's Hospital</i> <i>Grant Review Committee, Faculty of Medicine Summer Student Research Program, University of British Columbia</i> <i>American Society of Parenteral and Enteral Nutrition, Malnutrition Committee</i> <i>American Society of Parenteral and Enteral Nutrition, Abstract Committee</i>
<b>Skarsgard</b>	<i>Chair, Institute Advisory Board, Institute of Human Development, Child and Youth Health, Canadian Institutes of Health Research</i> <i>Vice Chair, Institute Advisory Board, Institute of Human Development, Child and Youth Health, Canadian Institutes of Health Research</i> <i>Member American College of Surgeons Advisory Council on Pediatric Surgery</i> <i>President, Canadian Association of Pediatric Surgeons</i> <i>Surgeon Champion, Pediatric National Surgical Quality Improvement Program</i> <i>Surgeon in Chief, BC Children's Hospital</i> <i>Chair, Search Committee for recruitments in Pediatric Ophthalmology</i> <i>Board member, BC Children's Hospital Foundation</i> <i>Chair, Surgical Services Advisory Committee</i> <i>Member, Medical Advisory Committee, BCCH</i> <i>Chair, Surgical Services Advisory Committee, BCCH</i> <i>Member, Allocations Committee, BCCH Foundation</i>
<b>Webber</b>	<i>Medical Advisory Committee, Chair (C and W)</i> <i>Surgical Services Safety Quality of Care Committee, Member (BCCH)</i> <i>Surgical Services Advisory Committee, Member (BCCH)</i> <i>Vascular Access Committee, Co-Chair (BCCH)</i> <i>Patient Experience Steering Committee, Member (BCCH)</i> <i>Executive Committee, Member (UBC Dept. of Surgery)</i> <i>Pacific Association of Pediatric Surgeons</i> <i>Board of Directors, Member</i> <i>Publications Committee, Member</i> <i>Program Committee, Member</i> <i>Royal College of Physicians and Surgeons of Canada</i> <i>General Surgery Specialty Committee, Chair</i> <i>Pediatric Surgery Subspecialty Committee, Member</i> <i>Surgical Foundations Advisory Committee, Member</i> <i>Specialty Standards Review Committee, Member</i> <i>College of Family Physicians of Canada</i> <i>Member, Working Group on the Assessment of Competence in Enhanced Surgical Skills in Family Medicine</i>

## DIVISION OF PEDIATRIC UROLOGY

2016-2018



### 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. 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 SUCCESSSES 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 North West 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 six-year tenure as Chair of the Royal College Specialty committee in Urology and continues on as the 2017-2019 Royal College Vice-Chair: Working group for AFC diploma in Pediatric Urology. He continues as Vice Chair Education and Clinical Affairs for the Department of Urologic Sciences, as well as a member of the executive and President elect of the Canadian Urological Association.

### 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. We have formalized our Fellowship program in Pediatric Urology, for which Dr Afshar serves as the program director. 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 2016-18 we hosted more than 70 elective medical students from UBC and across Canada. In addition, Dr. Afshar successfully supervised a PhD student to graduation from the Department of Experimental Medicine.

### ACADEMIC PRODUCTIVITY

Academic productivity was excellent with a total of 8 abstract presentations,

10 invited lectures, and 22 peer-reviewed publications. Administratively, the 3 Divisional members collectively served on more than 40 local, national or international committees.

## TEACHING ACTIVITIES

**FELLOWS  
SUPERVISED**

- *Phyllis Kisa*

**RESIDENTS  
SUPERVISED**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• <i>David Harriman</i></li> <li>• <i>Jennifer Locke</i></li> <li>• <i>Ben Bay</i></li> <li>• <i>Thomas de los Reyes</i></li> <li>• <i>Davon Mitchell</i></li> <li>• <i>Rob Dale</i></li> <li>• <i>Ted Hoyda</i></li> <li>• <i>Hilary Brotherhood</i></li> <li>• <i>Connor Lundeen</i></li> <li>• <i>Miles Mannis</i></li> </ul> | <ul style="list-style-type: none"> <li>• <i>Connor Forbes</i></li> <li>• <i>Sam Ghavimi</i></li> <li>• <i>Lisa Ho</i></li> <li>• <i>Drew Philips</i></li> <li>• <i>Matt Ho</i></li> <li>• <i>Khat Aminoltejari</i></li> <li>• <i>Dave Hogarth</i></li> <li>• <i>Samir Bidner</i></li> </ul> |
|---|---|

**RESEARCH  
STUDENTS  
SUPERVISED****MD Undergraduate**

- *Andrew Amenyogbe*
- *Mannan Wang*
- *Julie Wong*

**Post MD Residents and Fellows**

- *Matthew Ho*
- *Thomas Deloroyes*
- *Jennifer Locke*

**Post Graduate (PhD)**

- *Mir Sohail Fazeli*

**FORMAL TEACHING****ANDREW MACNEILY**

- *Phase IV MD Urology Lecture BPH and Urolithiasis (August 2016)*
- *Urology Resident Academic Half Day – Lower Urinary Tract Reconstruction (December 2016)*
- *Urology Resident Academic Half Day – DSD and Hydronephrosis (January 2017)*
- *Chief Resident Exam Prep (March 2017)*
- *UBC Pediatric Resident Academic Half Day – Ambiguous Genitalia and Antenatal Hydronephrosis (May 2017)*
- *Urology Resident Mock Oral Examinations (November 2017)*

**KOUROSH AFSHAR**

- *Voiding Dysfunction and BPH (September 2016)*
- *Third Year Medical Students Oral Exam (September 2016)*
- *Academic half day: Department of Urologic Sciences Pediatric Oncology (December 2017)*
- *Academic half day: Department of Urologic Sciences VUR/UTI/BBD (October 2017)*
- *Academic half day: Department of Urologic SciencesL Bio-statistics for clinicians (April 2017)*
- *Academic half day: Department of Urologic Sciences: Pediatric Oncology (March 2017)*
- *Academic half day: Department of Urologic Sciences: Bio-statistics for clinicians club (February 2017)*

## TEACHING ACTIVITIES con't

## FORMAL TEACHING con't

**KOUROSH  
AFSHAR**

- *Academic half day: Department of Urologic Sciences: Urinary tract infections in children (December 2016)*
- *Academic half day: Department of Urologic Sciences: Urinary tract infections in children (September 2016)*
- *Senior Urology Resident Mock Oral Examinations (April 2017)*
- *Senior Urology Resident Mock Oral Examinations (April 2016)*
- *3rd, 4th 5th year resident OSCE Exam (November 2017)*
- *Surgical Foundation: Evidence based medicine and Statistics (February 2018; May 2017; February 2017; April-May 2016)*
- *Course SPPH 517 (September-December 2017; September - December 2016)*
- *VSP International Summer Course (August 2017; July 2016)*
- *Course BMEG 591P (March 2018; March 2017; April 2016; March 2015)*

GRANTING AGENCY	TITLE			YEAR	PI	CO-PI
CUA EDUCATIONAL GRANT	NATIONAL IMPLEMENTATION OF T-RES FOR CANADIAN UROLOGY RESIDENTS	NC	50,000	2018-2022	A. MACNEILY	K. ROURKE
BC CHILDRENS HOSPITAL RARE DISEASE FOUNDATION	ESTABLISHING A TRANSITION CARE NETWORK FOR GRADUATING SPINA BIFIDA PATIENTS	C	3,500	2016-2017	COLLABORATION	A MACNEILY
BCCH RESEARCH INSTITUTE (CHIPS COMPETITION)	3D PRINTING PROGRAM	C	3,000,000	2017-2018	K. HARRIS	K. AFSHAR
CANADIAN UROLOGICAL ASSOCIATION	USE OF NIRS IN DIAGNOSIS OF ACUTE SCROTUM	C	50,000	2017-2018	K. AFSHAR	

## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES

## PRESENTATIONS

**ANDREW  
MACNEILY**

- *“Competency Based Medical Education: Where are we at with this?” Invited speaker to the Canadian Academy of Urologic Surgeons. Vancouver BC June 2016*
- *Visiting Professor: Division of Urology McGill University, Montreal PQ Nov 23-24 2016. Presented 2 lectures: “Pediatric Lower Urinary Tract Reconstruction: Should I still be doing this?” and “CBME: what is it and what does it mean for training surgical residents?”*
- *“The benefits of CUA membership” Presented to the Canadian Senior Urology Residents Retreat. Toronto Ontario June 2017*
- *Grand Rounds: UBC Dept of Urologic Sciences: “Competence by Design or Excellence by Accident?” March 2018*
- *Invited lecturer: Western Section American Urological Association Prep Course on Pediatric Urology. Kauai Hawaii USA Oct 2016*
- *Western Urologic Forum: “Should I still be doing this?” Whistler BC March 2017*
- *Western Section of the American Urological Association: “Aging Out: Experiences with transition care for Spina Bifida Patients In BC. Vancouver BC August 2017*

**KOUROSH  
AFSHAR**

- *UBC Pediatric Emergency Medicine Update Conference, May 2017, Vancouver, BC Invited Presenter.*
- *Canadian Urologic Association: Principle Author for CUA Guidelines On management of Bladder and Bowel Dysfunction in Children (2017-18).*
- *Canadian Urologic Association: Author for CUA guidelines on Childhood Circumcision (2016)*

**JOHN  
MASTERSON**

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

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## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES con't

## CONFERENCE LEADERSHIP ROLES:

ANDREW  
MACNEIL

- *Co-chair: Local organizing committee Canadian Urological Association annual meeting 2016*
- *Moderator: CUA educational Forum: Alternatives to the Canadian Healthcare System. Down South, Down under or Dear Dublin? CUA annual meeting June 2016 Vancouver BC*
- *Member: abstract review committee: Pediatric Urology Fall Congress Dallas Texas Sept 2016*
- *Moderator: SPU Fall congress. Reflux and UTI session. Dallas Texas Sept 2016*
- *Moderator: Western Section AUA Pediatric Urology Session. Kauai Hawaii USA Oct 2016*
- *Course Organizer: Western Section AUA Prep Course on Ped Urology. Kauai Hawaii Oct 2016*
- *Course Presenter: Western Section AUA Prep Course on Pediatric Urology – Ambiguous Genitalia and Hydronephrosis. Kauai Hawaii Oct 2016*
- *Co-Chair Local organizing committee Western Urologic Forum Whistler BC March 2017*
- *Abstract Review Committee Member: Pediatric Urology Fall Congress. Montreal PQ Sept 2017*
- *Sept 2017 Moderator: Podium Session: Pediatrics, Reconstruction, Infertility CUA annual meeting June 2017 Toronto Ont.*

KOUROSH  
AFSHAR

- *President Northwest Urological Association 2016-2017*
- *Western Section, American Urological Association, Oct 2016, Kauai, HW: Course presenter: Bladder and Bowel Dysfunction in Children (Oct. 2016)*
- *Scientific Committee Chair: Northwest Urologic Association Annual meeting Jan.2017*
- *Abstract reviewer: American Urological Association Annual meeting San Diego CA 2016*

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## COMMITTEE PARTICIPATION

KOUROSH AFSHAR

*2017-present. Member UBC Department of Urologic Sciences Research Council*

*2017-present. Member Child Health Integrative Partnership Strategy (CHIPS) Committee*

*2015-present. Co-Lead BCCHIR research Theme*

*2009-present. Member UBC Department of Urologic Sciences Post-graduate training Committee*

*2017-2018. Member UBC Department of Urologic Sciences Post-graduate Selection Committee*

*Member Surgical Cabinet*

*Co-Chair Surgical Suites Safety and Quality Committee*

*Member OR data management committee*

*Member Child Health Quality of Care Committee*

*Member Surgical Advisory Committee*

*Member Core Leadership Committee*

*Surgeon Champion National Surgical Improvement Program BCCH*

ANDREW MACNEIL

*2018-2019. Content Provider: Royal College International Urology Examinations*

*2018-2019. President Elect Canadian Urological Association*

*2018. External Reviewer: UBC Killam Teaching Prize nominations*

*2017-2018. Vice President Canadian Urological Association*

*2017-2018. Chair Nominating Committee Canadian Urological Association*

*2015-2018. Vice-Chair UBC Dept of Urologic Sciences*

*2012-2018. Chair Royal College Specialty Committee on Urology*

*2011-2018. Vice-Chair, Education and Clinical Affairs Dept of Urologic Sciences*

*2011-2018. Section Editor (Training & Education), Canadian Urological Association Journal*

## COMMITTEE PARTICIPATION

### KOUROSH AFSHAR

- 2017-present. Member UBC Department of Urologic Sciences Research Council
- 2017-present. Member Child Health Integrative Partnership Strategy (CHIPS) Committee
- 2015-present. Co-Lead BCCHIR research Theme
- 2009-present. Member UBC Department of Urologic Sciences Post-graduate training Committee
- 2017-2018. Member UBC Department of Urologic Sciences Post-graduate Selection Committee
- Member Surgical Cabinet
- Co-Chair Surgical Suites Safety and Quality Committee
- Member OR data management committee
- Member Child Health Quality of Care Committee
- Member Surgical Advisory Committee
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- Surgeon Champion National Surgical Improvement Program BCCH

### ANDREW MACNEILY

- 2018-2019. Content Provider: Royal College International Urology Examinations
- 2018-2019. President Elect Canadian Urological Association
- 2018. External Reviewer: UBC Killam Teaching Prize nominations
- 2017-2018. Vice President Canadian Urological Association
- 2017-2018. Chair Nominating Committee Canadian Urological Association
- 2015-2018. Vice-Chair UBC Dept of Urologic Sciences
- 2012-2018. Chair Royal College Specialty Committee on Urology
- 2011-2018. Vice-Chair, Education and Clinical Affairs Dept of Urologic Sciences
- 2011-2018. Section Editor (Training & Education), Canadian Urol Association Journal
- 2008-2018. Member, Dept Urological Sciences Promotion and Tenure committee
- 2009-2018. Member, Dept of Urological Sciences Executive Council
- 2005-2018. Divisional Representative, BCCH Surgical Services Advisory Committee
- 2000-2018. Member, UBC Dept of Urological Sciences Post-graduate Training Committee
- 2017. External reviewer of Royal College examiner performance: Ottawa
- 2017. External Reviewer: Promotion and Tenure Committee Yale University Dept of Urology
- 2017. External Reviewer: Promotion and Tenure Committee Oregon Health Sciences University
- 2017. External Examiner: Royal College international Kuwait City Kuwait 2013-2017. Member, UBC Faculty of Medicine Promotions and Tenure Committee
- 2016. External Reviewer: Promotion and Tenure Committee Indiana University Dept of Urology
- 2016. Chair-Search committee for Pediatric Surgical Recruit BCCH 2016
- 2016. External Reviewer: Promotion and Tenure Committee University of Alberta Dept of Surgery
- 2016. Judge: Clinical research Prize essay competition. SFU fall congress Dallas Texas
- 2015-2016. Executive Member: Society for Pediatric Urology of the AUA
- 2014. External reviewer: Promotions and Tenure, Queens University
- 2014-2016. Executive Member: American Academy of Pediatrics Section on Urology
- 2008-2018. Member, Dept Urological Sciences Promotion and Tenure committee
- 2009-2018. Member, Dept of Urological Sciences Executive Council
- 2005-2018. Divisional Representative, BCCH Surgical Services Advisory Committee



03

## COMMITTEE PARTICIPATION

### ANDREW MACNEILY

- 2000-2018. Member, UBC Dept of Urological Sciences Post-graduate Training Committee
- 2017. External reviewer of Royal College examiner performance: Ottawa
- 2017. External Reviewer: Promotion and Tenure Committee Yale University Dept of Urology
- 2017. External Reviewer: Promotion and Tenure Committee Oregon Health Sciences University
- 2017. External Examiner: Royal College international Kuwait City Kuwait 2013-2017. Member, UBC Faculty of Medicine Promotions and Tenure Committee
- 2016. External Reviewer: Promotion and Tenure Committee Indiana University Dept of Urology
- 2016. Chair-Search committee for Pediatric Surgical Recruit BCCH 2016
- 2016. External Reviewer: Promotion and Tenure Committee University of Alberta Dept of Surgery
- 2016. Judge: Clinical research Prize essay competition. SFU fall congress Dallas Texas
- 2015-2016. Executive Member: Society for Pediatric Urology of the AUA
- 2014. External reviewer: Promotions and Tenure, Queens University
- 2014-2016. Executive Member: American Academy of Pediatrics Section on Urology
- 2014-2016. Member – Canadian Urological Association Nominating Committee

### JOHN MASTERSON

- Chair Resident Competency Committee – Dept of Urological Sciences

04

## REFERENCED PUBLICATIONS

- 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.
- Soheil Fazeli M, Collet JP, MacNeily AE, Afshar K : Cardiac Autonomic Nervous System Activity in Children with Bowel and Bladder Dysfunction *J Urol* 2016 April;195:1245-49.
- Beiko D, MacNeily AE, Siemens DR : Is 10,000 hours enough for urology residency? *Can Urol Assoc J* 2016;10(1-2):9-10.
- MacNeily AE: Should Psychological Assessment be a Part of Incontinence Management in Children and Adolescents? *J Urol* 2016 May;195:1327-28.
- Rourke KF, MacNeily AE: Mapping a competency-based surgical curriculum in urology: Agreement (and discrepancies) in the Canadian National Opinion. *Can Urol Assoc J* 2016;10(5-6):167-70.
- Locke J, Robinson M, MacNeily AE, Goldenberg SL, Black PC: Evolving Attitudes toward robotic surgery among Canadian Urology Residents. *Can Urol Assoc J* 2017;11(7):E266-70.
- Salem J, Borgmann H, MacNeily A, Boehm K, Schmid M, Groeben C, Baunacke M, Huber J: New Media for educating urology residents: an interview study in Canada and Germany *Journal of Surgical Education* 2017 May-Jun;74(3):495-502
- Chehroudi C, MacNeily AE: Further Thoughts on transition of care for spina bidida patients: Experience in BC. *Can Urol Assoc J* 2016 Nov-Dec;10(11-12):377-8.
- MacNeily AE: The prostate is the sun around which all satellites of urology orbit, except pediatric urology. *Can Urol Assoc J* 2017 Jan-Feb;11(1-2Suppl1)
- MacNeily AE: The adolescent varicocele: Attempting to de-muddify the fuzzification. *Can Urol Assoc J* 2017 Jan-Feb;11(1-2Suppl1)
- MacNeily AE: From cue cards to code rot: In the end, it's not how you acquire the content, it's what you do with it. *Can Urol Assoc J* 2017;11(3-4):81
- De Los Reyes T, Maizels M, Dale R, Afshar K, Meade P, MacNeily AE: CEVL interactive-Best Surgical Practices for Open Mitrofanoff Procedure. *J Pediatr Urol.* 2017 June;13(3):243-45).
- Salem J, Borgmann H, Baunacke M, Boehm K, Hanske J, MacNeily A, Meyer C, Nestler T, Schmid M, Huber J. Widespread use of internet, applications, and social media in professional life of urology residents. *Can Urol Assoc J.* 2017 Sep;11(9): E355-E366.
- Kim SSY, Flannigan RK, Samarasekera D, Terry J, MacNeily AE. Metastatic Crohn's disease of the genitalia in a prepubescent male: An illustrative case of an uncommon diagnosis. *Can Urol Assoc J.* 2017 Sep;11(9):E379-E381
- Afshar K, Kazemi B, MacNeily AE The role of circumcision in preventing STI's. In: *Sexually transmitted Diseases: Pathogenomics to Diagnostics.* 2017
- Alshehri A, Afshar K, Bedford J, Hintz G, Skarsgard ED. The relationship between preoperative nutritional state and adverse outcome following abdominal and thoracic surgery in children: Results from the NSQIP database. *J Pediatr Surg.* 2018 May;53(5):1046-105
- Haddock C, Al Maawali AG, Ting J, Bedford J, Afshar K, Skarsgard ED. Impact of Multidisciplinary Standardization of Care for Gastroschisis: Treatment, Outcomes and Cost. *J Pediatr Surg.* 2018 May;53(5):892-897
- Afshar K, Domes T. Varicocele. *Can Urol Assoc J.* 2018 Apr;12(4 Suppl1):S34-S36. doi: 10.5489/cuaj.5231. Review. PubMed PMID: 29681272.
- Dave S, Afshar K, Braga LH, Anderson P. Canadian Urological Association guidelines on the care of the normal foreskin and neonatal circumcision in Canadian infants (full version). *Can Urol Assoc J.* 2018 Feb;12(2):E76-E99
- Chehroudi C, Afshar K. Case: Spontaneous bladder rupture presenting as sudden onset abdominal pain in a child after many years in remission from bladder rhabdomyosarcoma. *Can Urol Assoc J* 2018 Jan 12(1) Locke JA, Noparast M, Afshar K. Treatment of varicocele in children and adolescents: A systematic review and meta-analysis of randomized controlled trials. *J Pediatr Urol.* 2017 Oct;13(5):437-445.
- Akbari A, Heran MK, Afshar K. Concurrent use of endourological and radiologic methods in the management of high-grade renal trauma. *Can Urol Assoc J.* 2016 Sep-Oct;10(9-10):E312-E315.

## CONFERENCE PROCEEDINGS

1. *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*
2. *Chehroudi C, Duffy D, Irwin B, MacNeily AE: Aging out: experiences with transition to adult healthcare for spina bifida patients in British Columbia. Canadian Urological Association Vancouver BC June 2016*
3. *Bidnur S, MacNeily AE, Afshar K: Reservoir Lithiasis following Augmentation Cystoplasty and Umbilical Continent Urinary Diversion. Western Section American Urological Association. Kauai Hawaii USA Oct 2016*
4. *Locke J, Robinson M, MacNeily AE, Goldenberg SL, Black PC: Evolving Attitudes toward robotic surgery among Canadian Urology Residents. Western Section American Urological Association. Kauai Hawaii USA Oct 2016*
5. *Wong J., Skarsgard E., Bedford J., Afshar K.: Quality Improvement in Pediatric Appendectomies Western Student and Resident Research Forum, Carmel CA, USA Jan.2018*
6. *Bedford J, Skarsgard E., Alshehri A, Afshar K: The relationship between Preoperative Nutritional state and Adverse Outcomes in Abdominal and Thoracic Surgeries. American College of Surgeons Quality and Safety Surgery. New York, NY, USA July 2017*
7. *Locke JA, Noparast M, Afshar K. Treatment of varicocele in children and adolescents: A systematic review and meta-analysis of randomized controlled trials. Northwest Urological Society, Vancouver, BC Jan. 2017*
8. *Locke JA, Noparast M, Afshar K. Treatment of varicocele in children and adolescents: A systematic review and meta-analysis of randomized controlled trials. American Urological Association Western Section Annual meeting, Kauai, HI, USA, Oct 2016*





# DEPARTMENT OF PEDIATRIC OPHTHALMOLOGY

2016-2018



## 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. Ashley Ko**
- **Dr. Patrick Ma**
- **Dr. Andrew Merkur**
- **Dr. Katherine Paton**
- **Dr. Megan Rees**
- **Dr. David Rossman**
- **Dr. Vivian Yin**

### RESEARCH DEPARTMENT:

- **Dr. Debbie Giaschi**
- **Violet Chu**

### ORTHOPTIC STAFF:

- **Christy Giligson**
- **Grace Harradine**
- **Andrea Quan**
- **Vaishali Mehta**
- **Debbie Zylch**

### AFFILIATIONS: VISUAL IMPAIRMENT PROGRAM

- **Dr. Carey Matsuba**

### ELECTROPHYSIOLOGY STAFF:

- **Linn Moore**

### ADMINISTRATIVE STAFF:

- **Joan Baldos**
- **Rechelle Cajuguiran**
- **Chloe Gregg**
- **Marvi Lazatin**
- **Mintra Mayer**
- **Sabrina Ramlogan**
- **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 **12,821 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:

We are well settled into our new space, having moved from the old Shaughnessy building in 2014, to accommodate the new hospital. We continue to see a high volume of patients with 3 on-site ophthalmologists – Dr. Maryam Aroichane, Dr. Jane Gardiner and Dr. Christopher Lyons. We are the second busiest clinic in the hospital, with over 14,000 patient visits to our department. We offer comprehensive pediatric ophthalmology care with our team of orthoptists, electrophysiology and low vision staff. In the past year, we have been fortunate enough to hire a new orthoptist and in the New Year we will be welcoming Dr. Conor Mulholland to our clinic. He completed a fellowship with our department in 2009 and we are very happy to have him join our team. We were also fortunate enough to add Dr. Ashley Ko to our staff in 2017. She is providing pediatric ophthalmology care in Vancouver as well as the Surrey area, while she performs her surgery at BCCH.

We contribute to UBC's teaching mandate on all levels. We have an Orthoptics Training Program – one of only four in the country. We train two orthoptists, every two years. We participate actively in undergraduate teaching for years 2, 3 and 4. Dr. Jane Gardiner continues in her role as UBC Department of Ophthalmology and Vision Science Undergraduate Director. We always have an ophthalmology resident rotating through our department. In addition, there is regular interest from the pediatric residents for electives in our department – a relationship we are happy to support and foster. We also train two fellows in Pediatric Ophthalmology. These fellows are supported by two endowments. Our first world fellow is supported by the Dr. Andrew McCormick endowment and our developing world fellow is supported by the Dr. John Pratt Johnson endowment. Both endowments are augmented by the generous support from the BCCH Foundation.

Many members of our department are involved in further teaching through continuing medical education programs. Most notably, led by Dr. Christopher Lyons, our department planned and delivered a very successful 10<sup>th</sup> Biennial Pediatric Ophthalmology and Strabismus meeting in September 2017. There was an international lineup of visiting speakers and a diverse audience participating. Many of our faculty have also been involved in other local, national and international teaching. We also organized an Academic Half Day for the BCCH Emergency Staff, fellows and Residents. It took place in February 2017 and was led by our senior resident, Dr. Katie Clapson. It consisted of lectures followed by hands on teaching of the eye exam in our clinic and emergency procedures in a wet lab.

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

While our staff is actively involved in clinical research and publishing, our basic science lab, headed by Dr. Deborah Giaschi, has been very successful in its work. Each year, the Faculty of Medicine recognizes faculty and staff members for excellence in teaching. Dr. Giaschi was acknowledged by the University of British Columbia for her Excellence in teaching with the 2018 UBC Killam Teaching Prize. It was very well deserved.

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

### Outreach

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. Ko goes to the UBC Resident clinic in Fort St John where she also does surgery. Dr. Lyons travels to provide clinics in Bella Coola and Nelson, where he also does surgery and is accompanied by a Fellow. Between April 1, 2016 to March 31, 2018 more than 500 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.

### Research

We started several new projects on amblyopia/strabismus in collaboration with the pediatric ophthalmologist and orthoptists. Dr. Giaschi completed a study on interventions for dyslexia, which formed the basis for Marita Partanen's dissertation and successfully completed PhD degree.



## 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. We teach 3rd year clinical clerkship UBC medical students in pediatric ophthalmology clinics. As part of the clerkship Medical students 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 one or two-week electives in their 4th year, usually rotating through a number of ophthalmology services including pediatric ophthalmology. Medical students frequently become involved in research projects within the Department. All our staff regularly work as preceptors to the UBC Medical Students.

## 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**

- *Kailun Jiang*
- *Tom Liu*
- *Gelareh Nouredin*
- *Salina Teja*
- *Katie Clapson*
- *Gavin Docherty*
- *Mitch Browne*
- *Rosanna Martens*
- *Colten Wendel*
- *Myra Butler*

## POST-GRADUATE FELLOWSHIP TRAINING

Under the leadership of Dr. Christopher Lyons, the BC Children's Department of Ophthalmology offers two, one-year Fellowship positions. The Fellowship experience is inclined towards clinic-based decision-making since each patient seen by the Fellow is subsequently reviewed by Staff. Over the course of their year in Vancouver, each Fellow could expect to assess at least 2500 children with pediatric ophthalmology problems or strabismus. Similar 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. The Fellows are integrally involved with weekly Teaching Rounds. These Rounds are also an excellent opportunity to discuss research projects and recent papers. Fellows participate in outreach clinics in Bella Coola & Nelson, an introduction to work outreach work in rural Canada. Our Fellows operate at Children's Hospital and adult surgery at UBCH.

**FELLOWS  
SUPERVISED**

- *Sheetal Shirke- India*
- *Daniel Pharoah-United Kingdom*
- *Sharon Armarnik-Israel*
- *Marita Partanen (graduate student)*
- *Kimberly Meier (graduate student)*
- *Joana Pinto (graduate student)*
- *Carol Tagle-Philippines*
- *Stephen Farrell-Ireland*
- *Manisha Shrestha-Nepal*
- *Laveniya Kugathasan (undergraduate student)*
- *Kevin Chang (undergraduate student)*
- *Yousef Shahin (undergraduate student)*
- *Farnaz Javadian (undergraduate student)*
- *Dr. Arijit Chakraborty (postdoc)*

**RESEARCH  
STUDENTS  
SUPERVISED**

## TEACHING ACTIVITIES con't

### ORTHOPTIC TEACHING

We offer one of just four Orthoptic training programs in the Country, training two orthoptists every two years. The program begins in July, every

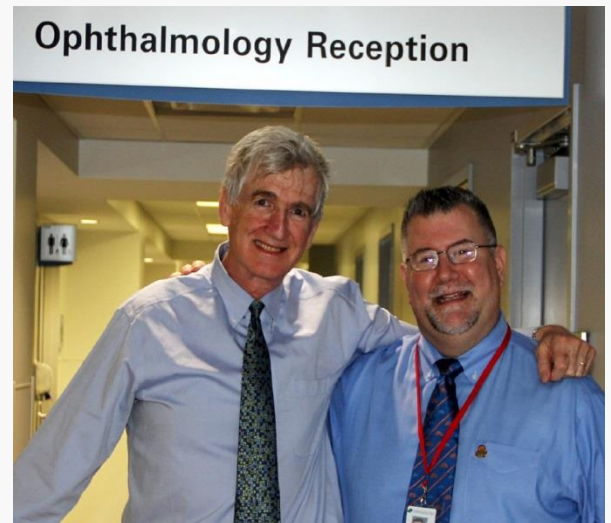
two years and is an intensive 24 consecutive months. Orthoptists are an invaluable asset for a Pediatric Ophthalmologist's practice, assisting with management of strabismus and amblyopia.

#### STUDENTS SUPERVISED

- *Grace Harradine*
- *Alecia Lukash*
- *Danielle Lombardi*
- *Belva See*

#### RESEARCH STUDENTS SUPERVISED

- *Dr. Arijit Chakraborty (postdoc)*



## 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) Sparing 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, neurosurgery) 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.

## SCHOLARLY & PROFESSIONAL ACTIVITIES con't

### RESEARCH CON'T:

- 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 similar to those 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

#### David Albani

- *Management of Familial Exudative Vitreoretinopathy- Western Canada retina Retreat 2017*
- *OCT Advances and update on antiVEGF therapy-Sudbury Society of optometrists Meeting 2017*
- *PHC Ophthalmology Quality Assurance 2017-Phc MAC Council for Excellence March 2017*
- *OCT research and Clinical Application-Alcon Canada CME December 2016*
- *Flashes and Floaters-St. Paul's CME November 2016*
- *PHC Dept. of Ophthalmology Vision and OCT Research-PHC Ophthalmology Special Rounds 2016*

#### Peter Dolman

- *International Thyroid Eye Disease Society, Guest speaker, London, ENGLAND, June 2016*
- *Alberta Ophthalmic Society Invited Speaker, Banff, CANADA, Feb 2017*
- *Asia Pacific Academy of Ophthalmology Invited Chair (2 sessions), SINGAPORE, Mar 2017*
- *Pan American Ophthalmic Society Invited speaker, Cancun, MEXICO, Apr 2017*
- *Dalhousie University Visiting Professor, Halifax, CANADA Apr 2017*
- *Lumbini Eye Institute Visiting Professor and Surgical Instructor, Lumbini, NEPAL, May 2017*
- *ASOPRS Spring Clinical Meeting Invited Lecturer, Vancouver, CANADA Jun 2017*
- *Orbit Society Lecturer, Brisbane AUSTRALIA August 2017*
- *Samsung Medical Centre Visiting Professor, Seoul, KOREA, Sep 2017*
- *Nepalese Society of Oculoplastics Symposium, Keynote speaker, Kathmandu, NEPAL Oct 2017*
- *New techniques in ptosis surgery*
  - i. *Endonasal DCR and its controversies*
  - ii. *Unusual orbital cases*
  - iii. *BACOS South American Oculoplastic and Orbit Society, BRAZIL Apr 2016*
- *Management of Orbital Infections Lid Malpositions and Management University of Calgary Visiting Professor, Calgary, CANADA, May 2016*
- *Exenteration and New Reconstruction Techniques Malignant Solitary Fibrous Tumor Orbit Society, Member participant, San Francisco, USA, May 2016*
- *Controversies in Evaluation of Thyroid Eye Disease CRISPTED Study for Management of TED Photographic Assessment of Soft Tissue Signs in TED Overall Perspective on TED and Its Recent Management Strategies International Thyroid Eye Disease Society, Guest speaker, London, ENGLAND, June 2016*
- *Trends and Controversies in Lacrimal Surgery Assessment and Management of TED Alberta Ophthalmic Society Invited Speaker, Banff, CANADA, Feb 2017*
- *Radiotherapy in Graves Orbitopathy Session Chair: Advances in Cosmetic Oculoplastics Asia Pacific Acad of Ophthalmol, SINGAPORE, Mar 2017*
- *Controversies concerning Radiotherapy in Graves Disease Orbicularis Muscle Biopsies for Mitochondrial Myopathies Pan American Ophthalmic Society Invited speaker, Cancun, MEXICO, Apr 2017*
- *Research Updates in Lacrimal Surgery New modalities of therapy in TED Dalhousie University Visiting Professor/ Research Day Guest, Halifax, CANADA Apr 2017*
- *Parasitic and Other Unusual Orbital Infections Techniques in lacrimal Outflow Surgery*
- *Orbital and Eyelid Trauma Lumbini Eye Institute Visiting Prof / Surgical Instructor, Lumbini, NEPAL, May 2017*



## SCHOLARLY &amp; PROFESSIONAL ACTIVITIES con't

**PRESENTATIONS****Peter Dolman**

- Controversies on Radiotherapy in TED ASOPRS Spring Clinical Meeting Invited Lecturer, Vancouver, CANADA Jun 2017
- Stereotactic Radiotherapy for Optic Nerve Meningioma Orbit Society Lecturer, Brisbane AUSTRALIA August 2017
- Features and Management of Compressive Optic Neuropathy Radiotherapy in Progressive Thyroid Orbitopathy Evaluation of Thyroid Eye Disease Samsung Medical Centre Visiting Professor, Seoul, KOREA, Sep 2017
- New Modalities of Treatment for Lacrimal Outflow Disorders Orbital Cellulitis and It's Management Nepalese Society of Oculoplastics Symposium, Keynote speaker, Kathmandu, NEPAL Oct 2017
- Botox for Functional and Gustatory Epiphora: a retrospective series review Asia Pacific Assocn Ophthalmol, Internatl Convenor, Session Chair, Hong Kong CHINA Feb
- Radiotherapy In TED
  - Orbital cellulitis and management
  - Use of local anesthesia and hot wire cautery in eyelid surgery
  - A simplified frontalis sling technique
  - Surgical intervention in TED
  - Orbital Imaging Techniques
  - Practical Evaluation and Management of Epiphora
  - DCR Trends and Controversies
  - Orbital Lymphoproliferative Disease
- Saudi Ophthalmic Society, Keynote Lecturer, Riyadh, SAUDI ARABIA Apr 2018
- Asia Pacific Assocn Ophthalmol, Internatl Convenor, Session Chair, Hong Kong CHINA Feb 2018
- Saudi Ophthalmology 2018, Invited Speaker, Riyadh, SAUDI ARABIA Apr 2018

**Jane Gardiner**

- COS 2017, Invited Speaker, "Amblyopia: Lessons Learned from the PEDIG Studies
- Vancouver Pediatric Ophthalmology Meeting Sept 2017; Invited Speaker, "Lessons Learned from Syrian Refugees

**Debbie Giaschi**

- Visual contrast sensitivity in children with PKU. BCCH Biochemical Genetics Grand Rounds, July 2017.
- Neural correlates of motion perception deficits in amblyopia. VSS at ARVO workshop, Association for Research in Vision and Ophthalmology, Baltimore, Maryland, May 2017.
- Neural correlates of motion perception deficits in amblyopia. Peter Wall Institute Workshop on Current Directions in Vision Sciences, Peter Wall Institute, UBC, April 2017.
- Alternatives to patching for treatment of amblyopia. UBC Ophthalmology Grand Rounds, April 2017.

**Femida Kherani**

- American Academy of Ophthalmology WIO Symposium Program Chair – Medico Legal Implications in Ophthalmic Practice 2017
- WIO Whistler Oculoplastics Meeting Program Chair & Instructor 2016
- Women In Ophthalmology (WIO – Canada) Journal Club -Co-Chair for Program Content 2016-2018
- American Academy of Ophthalmology WIO Symposium Program Co-Chair 2016



**PRESENTATIONS****Femida Kherani**

- American Academy of Ophthalmology Skills Transfer Laser Course - Aesthetic Facial Surgery by Fractional Lasers, Intense Pulsed light, Radiofrequency and Ultrasound Device 2016
- Canadian Ophthalmology Society Oculoplastics Skills Transfer Course Instructor – Cadaver Lab Instructor 2016
- American Academy of Ophthalmology Skills Transfer Course and Lab Instructor - Advanced Periorbital Flap and Graft Reconstruction 2016-2017
- American Academy of Ophthalmology Course Director and Instructor for Course – Lotions, Potions, OnabotulinumtoxinA and Fillers: Nonlaser Rejuvenation for the Ophthalmologist 2011-2018

**Ross Kennedy**

- Jampolsky Fellows Meeting San Francisco August 2016 –
- Practical Ophthalmology for the Non-Ophthalmologist Vancouver March 2017 “Pediatric Lecture Series”
- Jampolsky Fellows Meeting San Francisco July 2017 - “Photoscreening: an unexpected research opportunity”
- Pediatric Ophthalmology and Strabismus Conference: Vancouver September 2017 “Red Reflex Revisited”

**Christopher Lyons**

- Invited guest lecturer at the Lifeline Express Pediatric Ophthalmology Symposium, Beijing China, October 2016
- Invited guest lecturer at the AlNadha Hospital Oman Ministry of Health Symposium on Pediatric Ophthalmology, Muscat, Oman, December 2016.
- Invited guest lecturer/Visiting Professor at the University of California, San Francisco, United States of America, March 2017.
- Invited guest lecturer/Visiting Professor at the Oregon Health and Science University, Casey Eye Institute. Portland, United States of America, March 2017.
- Invited guest lecture at the Société Française d'Ophtalmologie. Paris, France, May 2017.
- Invited guest lecture and PhD opposition for Dr. Anna Molnar at the University of Uppsala, Uppsala, Sweden, May 2017.
- Invited guest lecture/ Visiting Professor at the University of Ottawa, Ottawa, Canada, May 2017.
- Invited guest lecturer at the Lifeline Express Pediatric Ophthalmology Symposium, Guangzhou, China, November 2017.
- Invited Professor at the Red Sea Ophthalmology Society, Jeddah, Saudi Arabia, January 2018.
- Invited Professor, University of Auckland, Auckland, New Zealand, March, 2018.

**Dr. Lyons Developing World Pediatric Ophthalmology Presentations**

- Beijing conference. Then hospital-based teaching in Guilin, China (October 2016) Lifeline Express
- Muscat Oman (2017) Hospital-based teaching.
- Guangzhou conference, then hospital-based teaching in Sanmenxia China (November 2017)

## 02 SCHOLARLY & PROFESSIONAL ACTIVITIES con't

### PRESENTATIONS

- Katherine Paton**
- *Canadian Ophthalmic Pathology Society, June 17, 2016*
  - *Enucleation in Retinoblastoma – High Risk Features in 2016*
  - *Ocular Oncology Update 2016: January 15, 2016, Department of Ophthalmology & Visual Sciences*
  - *Evil Lurks: Conjunctival Melanoma, Guest Dr. B. Damato, March 18, 2016,*
  - *BC Cancer Genetics: Cancer Genetics in Ocular Oncology, January 6, 2017*

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
<b>NSERC</b>	Brain mechanisms underlying human motion perception	yes	\$31,000	2016-2017	Giaschi	
<b>BC Children's Hospital Research Institute</b>	Reading ability of children treated for amblyopia	no	\$10,000	2016-2017	Giaschi	
<b>National Eye Institute</b>	Accommodation and defocus in the infant visual system	yes	\$368,596	2017 - 2022	T.R. Candy	Chen, Bradley, Lyon, Huang, Wilcox, Cormack, Giaschi
<b>NSERC</b>	Brain mechanisms underlying human motion perception	yes	\$39,000	2017 - 2022	Giaschi	
<b>Whitearn Foundation</b>	Amblyopia treatment using iPads	yes	\$5000	2017-2018	Giaschi	

## COMMITTEE PARTICIPATION

**David Albani**

- 2017 - Co-Chair, Shared Services BC Ophthalmology Privileging Dictionary review
- 2016 - Head, PHC Department of Ophthalmology
- 2016 - PHC medical Advisory Committee
- 2016 - MSJ Surgical Business Committee
- 2016 - PHC Surgical Program Operations Committee
- 2016 - PHC Surgical Program Executive Committee
- 2015 - Head, UBC/VCH/PHC Retina Division
- 2015 - Vancouver Acute Ophthalmology Advisory Committee
- 2015 - UBC Ophthalmology Resident Training Advisory Committee
- 2015 - 2016 Member UBC Resident Selection Committee
- 2015 - 216 Waitlist Management Working Group-PSEC Subcommittee
- 2014 - Member- Provincial Surgery Executive Committee

**Peter Dolman**

- Division Head of Oculoplastics, Dept of Ophthalmology, University of British Columbia, 2009- present
- Director of Fellowship Programs, Dept of Ophthalmology, 2001 – present
- Medical Director of Treatment Room 2009-present
- ECC OR Operating Room Advisory Committee, 2002 - present
- Departmental Clinical Faculty Promotions Committee, 2001 – present
- Canadian Ophthalmologic Society 1989 – present
- American Society Oculoplastics / Reconstructive Surgery 1990 -present
- American Academy of Ophthalmology 1990 - present
- Orbit Society, a society of 30 international invited members, 2006 – present
- International Thyroid Eye Disease Society, Invited member of Steering Committee, 2007 present
- Secretary of Society, Web designer ([www.thyroideyedisease.org](http://www.thyroideyedisease.org))

**Jane Gardiner**

- Royal College of Physicians and Surgeons of Canada Fellowship examiner 2007-present
- Canadian Association of Pediatric Ophthalmology and Strabismus – president 2016-2017
- COS Annual Meeting Planning Committee 2016-2017
- UBC Ophthalmology Residency Training Committee Member 2014 - present
- UBC Undergraduate Director for Dept Ophthalmology and Vision Science, 2010 – present
- UBC Ophthalmology and Vision Science Continuing Education Committee, 2008 -present

**Debbie Giaschi**

- BC Children's Hospital MRI Research Facility, Director of Operations, 2013-present
- NSERC Undergraduate Student Research Awards, UBC Faculty of Medicine coordinator, 2007 - present
- UBC High Field MRI Centre Protocol Review committee, member, 2004 - present
- BC Children's Hospital MRI Research 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

**Ross Kennedy**

- Board Member and co-founder "iScreen Vision Inc" [www.iscreenvision.com](http://www.iscreenvision.com)
- Researcher – iScreen Vision Inc – technology improvement (private funding)

## COMMITTEE PARTICIPATION con't

**Femida Kherani**

- *Malinkrodt Advisory Board 2017*
- *Canadian Ophthalmology Society – Liaison for JCAHPO*
- *Canadian Ophthalmology Society – WIO Chair*
- *Women In Ophthalmology USA Board Member*
- *International Joint Commission for Allied Health Professionals - IJCAHPO – Commissioner for Canada*
- *American Academy of Ophthalmology EyeNet - Advisory Board*
- *American Society of Oculofacial Plastic Surgery ASOPRS International Committee*
- *American Society of Oculofacial Plastic Surgery Education Committee – Oral Examiner*

**Christopher Lyons**

- *Member, Editorial board, Journal of the American Association for Pediatric Ophthalmology and Strabismus*
- *Reviewer: JAAPOS, Ophthalmology, JAMA Ophthalmology*

**Katherine Paton**

- *BCCA Tumor Group Chairs*
- *Doctors of BC Awards Committee, Chair January 2014 – present*
- *International Society of Ocular Oncology Executive, Honorary Treasurer, September 2013-present*
- *Canadian National Retinoblastoma Tumor Board and Study Club, Organizer November 2013-present*
- *Canadian Retinoblastoma Research Advisory Board*
- *Meetings Attended:*
- *Hawaiian Eye Meeting, January 2016 – General and Retina Sections*
- *Aula Pediatria: How we manage Retinoblastoma in 2016, June 10 & 11, 2016*
- *First AngioPlex Users Group Meeting, June 2016*
- *Canadian Ophthalmic Pathology Society, June 2016*
- *Canadian Ophthalmology Society, June 2016*
- *BCEPS Spring Clinical Day, May 2016*
- *Community Service:*
- *Shaughnessy Heights United Church Outreach Committee Co-Chair, fall 2012-present*
- *SHUC Outreach Refugee Sponsorship Working Group Chair, fall 2014-present*
- *SHUC Council Member, July 2013 – present*
- *Alzheimer's Society of BC Governance Committee member, 2016 – present*
- *Current work:*
- *Survivor initiatives:*
- *Adult Survivors of Childhood Cancers – RB*
- *PET scan and alternative labeling for melanomas*
- *Genetic prognostication and metastasis prevention*
- *New initiative: surveillance for other cancers, with BCCA Genetics*
- *Tuberous sclerosis: unilateral mosaic presentation*
- *Canadian Retinoblastoma Patient Engagement Strategy*
- *Reviewer:*
  - *Canadian Journal of Ophthalmology*
  - *JAMA Ophthalmology*
  - *British Medical Bulletin*

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**David Albiani**

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- *Chan W, Wilcsek G, Ghabrial R, Goldberg RA, Dolman P, Selva D, Malhotra R. Pediatric endonasal dacryocystorhinostomy: A multicenter series of 116 cases. Orbit. 2017 Oct;36(5):311-31*
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3. Dolman PJ *Clinical Evaluation and Medical Management of TED*, American Academy and ASOPRS On-line Teaching Modules, 2017
4. Esmaeli B, Rootman D and Dolman PJ. *Orbital Tumors*, in Chaugule S and Honovar S "Comprehensive Open Access Surgical Textbook (COAST)", Springer, 2017
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6. Dolman PJ *Orbital Floor Decompression*. In Rath S and Naik M "Surgery in Thyroid Eye Disease: a conceptual approach" Springer, 2017
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9. Dolman PJ and Goold L, *Clinical Evaluation and Disease Patterns*, in Fay and Dolman, *Diseases and Disorders of the Orbit and Ocular Adnexa*, Elsevier, 2016
10. Dolman PJ, *Orbital and Ocular Adnexal Infections*, in Fay and Dolman, *Diseases and Disorders of the Orbit and Ocular Adnexa*, Elsevier, 2016
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**Jane Gardiner**

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- Sameh E. Soliman, MD, Helen Dimaras, PhD, Vikas Khetan, MBBS, MD, Jane A. Gardiner, MD, Helen S.L. Chan, MB, BS, Elise Héon, MD, Brenda L. Gallie, MD
- *Prenatal versus Postnatal Screening for Familial Retinoblastoma*, *Ophthalmology*, 2016 Dec; 123(12): 2610-2617
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- *Adenocarcinoma of the Retinal Pigment Epithelium Arising in Conjunction with Late Recurrence and Systemic Metastasis of Retinoblastoma*.
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- Ye XC, Shyr C, Roslin N, Giaschi D, Patel MS, Wasserman WW. (2017) *Linkage analysis and whole genome sequencing analysis in familial isolated strabismus*. *American Society of Human Genetics abstract*
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5. Meier K, Giaschi D, Spering M (2017) *Global motion discrimination and fixation stability in amblyopia. Gordon Eye Movement Conference abstract*
6. Partanen M, Williams L, Kim HC, Kwan K, Siegel LS, Giaschi D. (2017) *Resting state connectivity following intervention for reading disabilities. Organization for Human Brain Mapping abstract*
7. Giaschi D, Partanen M, Kugathasan L, Chu V, Lyons C. (2017) *Reading ability of children treated for amblyopia. Journal of Vision 17(10):635.*
8. Meier K, Javadian F, Chang K, Giaschi D. (2017) *The effect of stimulus area on global motion thresholds in children and adults. Journal of Vision 17(10):435.*
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16. Meier K, Giaschi D. (2017) *Unilateral amblyopia affects two eyes: Fellow eye deficits in amblyopia. Investigative Ophthalmology & Visual Science 58:1779-1800*
17. Meier K, Giaschi D. (2017) *Effect of spatial and temporal stimulus parameters on the maturation of global motion perception. Vision Research 135:1-9*
18. Wilcox L, Hartle B, McKenzie K, Solski A, Giaschi D. (2017) *Disparity configuration influences depth discrimination in naïve adults, but not children. Vision Research 131:106-119*

**Chris Lyons**

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*

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**Christopher  
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4. *Pediatric infectious keratitis at tertiary referral centres in Vancouver Canada.* Nouredin GS, Sasaki S, Butler AL, Tilley P, Roscoe D, Lyons CJ, Holland SP, Yeung SN. *Brit J Ophthalmol* 2016; 100:1714-1718
5. *Painful Acute Corneal Ulceration and Anterior Stromal Keratitis in an adolescent with Reactive Arthritis.* Lyons CJ, AlQahtani E(F), Tsang H (F), Moloney GT, Gardiner J J *Pediatr Ophthalmol Strabismus* 2016 Dec 8:53
6. *Ophthalmological outcomes of patients treated for pineal region tumors* Hankinson EV, Lyons CJ, Hukin J, Cochrane DDJ *Neurosurg Pediatr.* 2016;17:558-63
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11. *Objective and Subjective Outcomes of Strabismus Surgery in Graves' orbitopathy: a prospective multi-centre study.* Jellema HM, Saeed P, Mombaerts I, Dolman P, Garrity J, Kazim M, Dhrami-Gavazi E, Lyons C, Nieuwerk P, Mourits MP. *Acta Ophthalmol* 2017;95:386-391
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| <b>Maryam Aroichane</b> | <b>14. Three Thorny Cases. Vancouver 2017 Pediatric Ophthalmology and Strabismus Conference. September 2017</b> |
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| <b>Jane Gardiner</b> | <ul style="list-style-type: none"> <li>• COS 2017, Poster "Realist evaluation of an ophthalmology clerkship evaluation: What works, how and why" co-authors Nawaaz Nathoo, David Maberley</li> </ul> |
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| <b>Ross Kennedy</b> | <ul style="list-style-type: none"> <li>• AAPOS Annual Meeting Vancouver April 2016</li> <li>• AAPOS Vision Screening Webinar – September 2016</li> <li>• AAPOS Annual Meeting Nashville April 2017</li> </ul> |
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| <b>Christopher Lyons</b> | <ul style="list-style-type: none"> <li>• Conference Organizer: Vancouver Pediatric Ophthalmology and Strabismus September 2017</li> </ul> |
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| <b>Dr. Patrick Ma</b> | <ul style="list-style-type: none"> <li>• Euretina Meeting September 08 -11, 2016 Copenhagen, Denmark</li> <li>• Hawaiian Eye January 14-20, 2017 Kauai, HI</li> <li>• Allergan Meeting (Canadian Retina Society Meeting) – March 03, 2017 Whistler, BC</li> <li>• Allergan Meeting "EyeCare Beyond" – March 09-13, 2017 Athens, Greece</li> <li>• Floretina Meeting –April 27-30, 2017 – Florence, Italy</li> <li>• Lumithera meeting – September 23-24, 2017 Toronto, ON</li> <li>• Western Canada Retreat September 29-30, 2017 – Vancouver, BC</li> <li>• AAO – November 10-13, 2017 New Orleans, Louisiana</li> <li>• Hawaiian Eye – January 13-19, 2018 – Maui, HI</li> <li>• Frankfurt Retina Meeting March 22-26, 2018 – Frankfurt, Germany</li> </ul> |
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