

RESEARCH DAY PROGRAM GUIDE

#wchriRD2019



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For full abstracts, please visit <u>www.wchri.org/wchri-publications</u>.

All photos supplied by presenters.



THANK YOU

These amazing research projects wouldn't be possible without the continued partnership of the University of Alberta, Alberta Health Services, the Stollery Children's Hospital Foundation and supporters of the Lois Hole Hospital for Women.

Through the support of our partners, we are able to gather some of the most brilliant minds in research together to collaborate and share ideas that will make the future of both women and children brighter.





EXECUTIVE DIRECTOR'S MESSAGE



I'm excited to welcome you all to our 12th annual WCHRI Research Day!

WCHRI Research Day gets bigger and better every year and this year is no exception. This year, we received over 230 abstracts, which cover a broad spectrum of women's, children's and perinatal health. I personally look forward to seeing the excellent work of our trainees, who have all worked very hard on their poster and oral presentations for today.

We are honoured to welcome our esteemed keynote speaker, Bonnie Stevens, a worldrenowned researcher in pediatric pain management. Her talk today will focus on her learnings in implementation strategies for changing healthcare provider pain practices and

child health outcomes. Thank you to Bonnie for sharing her expertise and insights with us.

In addition to Bonnie's lecture, we're pleased to offer three morning workshops focused around knowledge translation this year. Knowledge translation helps us "bridge the gap," which is so critically important to providing evidence-based care. I encourage you all to participate in these valuable sessions.

Thank you to everyone who helped make Research Day 2019 possible. This highly anticipated event couldn't happen without the commitment and support of our presenters, judges, organizers and participants. And of course, a special "thank you" to our generous and visionary Foundations, the Stollery Children's Hospital Foundation and the Royal Alexandra Hospital Foundation. Their passion for women's and children's health is truly uplifting and helps us pave the way for a healthier future.

I hope that you enjoy the day and leave feeling inspired for what's ahead.

and Danly

Sandra Davidge, PhD Executive Director Women and Children's Health Research Institute

MISSION

WCHRI will foster the brightest minds to discover, innovate and ultimately transform the health of children and women through supporting research excellence.

VISION



To harness the power of research innovation for a healthy future for children and women.



WCHRI supports research excellence dedicated to improving the health and lives of women and children. As the only research institute in Canada to focus on both women's and children's health, including perinatal health, WCHRI is proud to provide funding opportunities and support programs that improve health care delivery for women and children.

Our membership is composed of over 500 leading and rising researchers, from a range of academic and clinical disciplines, who are committed to improving women's and children's health outcomes.



WCHRI currently has three major research areas of focus.



Children's health and well-being

Identify effective treatments to address the unique health needs of children; improve our understanding of rare and complex childhood diseases.



Pregnancy and developmental trajectories

Optimize maternal and infant health outcomes; develop early interventions and prevention strategies to reduce the risk for lifelong chronic disease.



Lifelong women's health

Foster research that addresses the unique health needs of women, particularly in areas that are undersupported and under-researched.



PROGRAM AT A GLANCE

7:45 – 7:55 a.m.	Welcome – Sandra Davidge and Lawrence Richer – Ballroom				
8 – 8:55 a.m.	Workshop #1 Turner Valley Room	Workshop #2 Leduc Room		Workshop #3 Chairman Room	
	Data looks better naked	Inquisitive and e Bridging the kno gap in basic/clir	owledge-action	Storytelling: More than a bedtime ritual	
9 – 10 a.m	Poster viewing 1 –	Ballroom and Foye	r (Note: new locatio	n)	
10:15 – 11:45 a.m.	Oral #1 Turner Valley Room	Oral #2 Leduc Room	Oral #3 Consulate Room	Oral #4 Chancellor Room	Oral #5 Chairman Room
	Knowledge translation and decision-making	Pregnancy and develop- mental trajectories	Children's health and well-being: Respiratory health	Children's health and well-being: Development	Lifelong women's health
	Lunch – Ballroom				
11:45 a.m. – 12:30 p.m	Lunch – Ballroom				
-	. Lunch – Ballroom The Power of Partr	nership – Mike H	ouse and Andrew	Otway – Ballroomr	
12:30 – 12:45 p.m.			ouse and Andrew	Otway – Ballroomr	
11:45 a.m. – 12:30 p.m 12:30 – 12:45 p.m. 12:45 – 1:40 p.m.	The Power of Part	Ballroom	dual and organiza	tional implementa	
12:30 – 12:45 p.m. 12:45 – 1:40 p.m.	The Power of Partr Keynote speaker – Bonnie Stevens –	Ballroom Innovative indivi hcare provider p	dual and organiza ain practices and	tional implementa child health outco	
12:30 – 12:45 p.m. 12:45 – 1:40 p.m. 1:45 – 2:45 p.m.	The Power of Partr Keynote speaker – Bonnie Stevens – I for changing healt Poster viewing 2 – Oral #6 <i>Turner Valley Room</i>	Ballroom hcare provider p Ballroom and Foye Oral #7 Leduc Room	dual and organiza ain practices and r (Note: new locatio Oral #8 Consulate Room	tional implementa child health outco	Oral #10 Chairman Room
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12:30 – 12:45 p.m. 12:45 – 1:40 p.m. 1:45 – 2:45 p.m.	The Power of Partr Keynote speaker – Bonnie Stevens – I for changing healt Poster viewing 2 – Oral #6 <i>Turner Valley Room</i> Children's health and well-being: Nutrition and gastrointestinal	Ballroom hcare provider p Ballroom and Foye Oral #7 Leduc Room Pregnancy and develop- mental trajectories ion	dual and organiza ain practices and r (Note: new locatio Oral #8 Consulate Room Lifelong women's	tional implementa child health outco n) Oral #9 Chancellor Room Children's health and well-being:	Oral #10 Chairman Room Pediatric



DETAILED PROGRAM

7 – 7:45 a.m. Registration and breakfast – Ballroom

7:45 – 7:55 a.m. Welcome – Ballroom Sandra Davidge, executive director, Women and Children's Health Research Institute Lawrence Richer, associate director, Women and Children's Health Research Institute

WORKSHOP #1

8 – 8:55 a.m. Turner

Turner Valley Room

DATA LOOKS BETTER NAKED

Joey Cherdarchuk

Too often when we visualize our data we try to dress it up when we should be stripping it down. In this talk we'll walk through some of the common pitfalls people encounter when trying to communicate with data. We'll review best practices to ensure your data speaks to your audience.

The learning objectives of this workshop are to:

- 1. understand how visuals can distort your data and how to avoid it.
- 2. learn methods to increase the clarity of your visuals.
- 3. know the key factors needed to create a successful visual.

Joey Cherdarchuk is co-founder and the design lead at Darkhorse Analytics.



A data visualization expert, his work has been highlighted in the *New York Times*, the *Huffington Post* and the *Washington Post*. His "Breathing City" graphic was shortlisted for an Information is Beautiful Award. Cherdarchuk developed his design expertise after a 15-year quantitative analysis and consulting career. It is this analytical foundation that helps him create visuals that are both clear and engaging. He provides training on data visualization and his Data Looks Better Naked series is used in visualization curricula around the world.



WORKSHOP #2

8 – 8:55 a.m.

Leduc Room

INQUISITIVE AND ENGAGED: BRIDGING THE KNOWLEDGE-ACTION GAP IN BASIC/CLINICAL RESEARCH

Jason Acker, Oana Caluseriu and Jason Dyck

Translating scientific and technological advances in medical research laboratories into care for patients in hospitals and communities can be a major challenge. Identifying and addressing these barriers will help to improve the quality of care for patients and their families. Our presenters will share their experiences in translating their own research, working with both patient and community groups and policy makers to implement their findings.

The panel will include:

- Brief high-level overview of the presenters' research, including the findings.
- Gap(s)/problems/phenomena identified, specifically:
 - How gaps were identified.
 - How decisions were made to initiate the studies.
 - Who was involved in the preliminary phases of the studies and how they were involved.
 - The importance of engagement and buy-in among staff to facilitate implementation post-study.
- How the studies' findings were or will be implemented (challenges, facilitators, barriers).
- What the presenters learned from this process and what they would do
 differently next time.

The learning objectives of the workshop are to:

- 1. come away with an appreciation of the process to transition basic research to the clinic.
- 2. learn how to identify goals, audience, expertise, strategies and resources for translating basic research.
- 3. understand the importance of engaging patients, communicates, policy makers and other stakeholders early in the process and how to include them as part of the team.





Jason Acker is the senior development scientist with the Canadian Blood Services' (CBS) Centre for Innovation and a professor in the Department of Laboratory Medicine and Pathology at the University of Alberta. His research focuses on understanding the response of cells and tissues to ex vivo storage and the development of methods for their preservation and use as therapeutic products. Acker's blood services laboratory is responsible for developing scientific and technical evidence to support innovative changes in blood product manufacturing, storage and utilization at CBS. Through the CBS Centre for Innovation, Acker leads efforts to assess new technology, products and processes that can improve the efficiency, quality and safety of blood products in Canada.

Oana Caluseriu is an associate professor and clinician scientist in the Department of Medical Genetics at the University of Alberta. Her clinical practice and lab research focus on identifying rare phenotypes and their molecular basis. A special area of interest is the study of the molecular basis of disorders in inbred populations in Alberta. Current projects are focused around the development of translational studies from a genetic perspective using a variety of genomic methodologies combining the use of molecular techniques and bioinformatics in the area of new gene and disorder characterization.





Jason Dyck is a professor in the Department of Pediatrics, a Canada Research Chair in Molecular Medicine, and director of the Cardiovascular Research Centre at the University of Alberta. Dyck has broad areas of research that are linked by his interest in energy metabolism and related molecular signaling mechanisms. He has published over 200 peerreviewed papers in his career and is currently funded by the Canadian Institutes of Health Research, Diabetes Canada, the Heart and Stroke Foundation and Alberta Innovates Health Solutions.



WORKSHOP #3

8 – 8:55 a.m. Chairman Room

STORYTELLING: MORE THAN A BEDTIME RITUAL

How we merge patient stories/narratives with best available research evidence to create knowledge translation tools.

Lisa Hartling and Shannon Scott

Storytelling can be a very useful tool for translating complex research information by contextualizing research results within lived experience. Stories may be effective in helping the intended audience understand and retain information because of their emotional appeal and ability to generate meaningful connections. Various strategies have been developed to create stories that will produce an emotional experience capable of influencing readers' or listeners' actions.

Our presenters have a long history of developing knowledge translation (KT) tools that merge research with stories. Their process involves gathering stories, synthesizing the evidence, and then merging the stories with evidence. They work very closely with the intended audience of the KT tools to develop, test and refine the tools according to the audience's needs. The presenters have experience with a variety of media such as ebooks, interactive infographics and whiteboard animation videos. They will show examples, feedback they have received and considerations for selecting the right media for the intended purpose and audience. The process they follow can be applied to a variety of clinical topics and different populations.

The learning objectives of this workshop are to learn how to:

- develop a model for creating KT tools that merge research and stories/ narrative/experience.
- 2. work with the intended audience(s) to create KT tools that are meaningful and responsive to their needs.
- 3. anticipate and address some of the challenges in creating KT tools that merge research and story.

Lisa Hartling is a professor in the Department of Pediatrics at the University of Alberta, a Canada Research Chair in Knowledge Synthesis and Translation and a Distinguished Researcher within the Stollery Science Lab. She holds several leadership positions including director of the Alberta Research Centre for Health Evidence, co-director of Cochrane Child Health and TREKK, a national centre of excellence for knowledge mobilization in pediatric emergency care. The focus of Hartling's work is to gather and synthesize the best available scientific evidence to help support decision-making by healthcare providers, administrators and patients and their families. She is involved in knowledge translation initiatives to disseminate high quality research to inform decisions in health.





Shannon Scott is a professor in the Faculty of Nursing at the University of Alberta, Canada Research Chair in Knowledge Translation in Children's Health and a Distinguished Researcher within the Stollery Science Lab. Her research program ECHO (translating Evidence in Child Health to enhance Outcomes) aims to improve the health outcomes of children in Alberta and Canada through the application of the best research evidence. She leads an innovative program of research that develops art and narrative-based tools for parents with acutely ill children. Scott is also a co-director of TREKK (Translating Emergency Knowledge for Kids), a national centre of excellence funded initiative that is changing children's emergency care across Canada.



TRAINEE POSTER PRESENTATIONS – MORNING

9 - 10 a.m.

Ballroom

#	Presenter	Supervisor	Abstract title		
KNOWLEDGE TRANSLATION AND DECISION-MAKING					
97	Claudia Maki	Samina Ali	Characterizing pain in children with acute gastroenteritis who present to the emergency department		
98	Lisa Knisley	Shannon Scott	Improving pediatric emergency care across Canada: The power of networking		
99	Malema Afzalzada-Ahrari	Lisa Hartling	The use of opioids in children's health and its connection to the opioid epidemic: A systematic review		
LIF	ELONG WOME	N'S HEALTH			
100	Bethany Wollin	Caroline Richard	Female Wistar rats exhibit a better T-cell response than male rats		
101	Braden Chow	Geetha Menon	Determination of radiobiological parameter values used in cervical cancer brachytherapy through in vitro experimentation		
102	Christine Ha	Shanon Phelan	More than just kegels: An alternate lens for maternal pelvic health		
103	Marina Bianchi Lemieszek	Lynne-Marie Postovit	The function of the epithelial splicing regulatory protein 1 (ESRP1) in Luminal A breast cancer cell lines		
104	Nicholas Li	Amy Kirkham	Pulmonary consequences of anthracycline and trastuzumab treatment for early-stage breast cancer		
105	Nitya Khetarpal	Sue Ross	Exploring effective engagement strategies used to recruit Indigenous participants to community-based research		
PRI	EGNANCY ANI	D DEVELOPME	ENTAL TRAJECTORIES		
106	Britt Voaklander	Maria Ospina	Diabetes in pregnancy among Métis women: A retrospective cohort study		
107	Daphne Cheung	Sarah Troster	Addressing educational needs around pregnancy and reproductive health in women with rheumatic disease		

			in women with meumatic disease
108	lqwak Bedi	Denise G. Hemmings	Tumor necrosis factor-alpha (TNF- α) induces vasoconstriction in uterine arteries during pregnancy when nitric oxide (NO) is reduced
109	Jia Hang Li	Stephane Bourque	The effects of perinatal iron deficiency on neonatal cardiac development
110	Mazhar Pasha	Sandra Davidge	The potential role of endoplasmic reticulum stress in vascular dysfunction in a rat model for preeclampsia
111	Molly Henneberry	Craig Steinback	Blood pressure control in women with singleton and twin pregnancies
112	Nayara Antunes Lopes	David Olson	Social isolation exposure in rats and the effects of single and multiple hits to inflammatory and stress marker profiles
113	Oluwakemi Amodu	Bukola Salami	Access to reproductive healthcare for internally displaced women in Nigeria: A critical ethnography study
114	Omolara Sanni	Maria Ospina	Obstetric outcomes among the Métis in Alberta
115	Richard Mah	Stephane Bourque	Assessment of apoptosis, autophagy, and cellular senescence in developing kidneys exposed to perinatal iron deficiency

#	Presenter	Supervisor	Abstract title	
116	Saba Saadat	Meghan Riddell	Optimization of first trimester trophoblast isolation for the development of physiologically oriented placental organoids	
117	Vidhi Desai	Maria Ospina	Effectiveness of prebiotic, probiotic, and synbiotic supplementation in pregnancy to reduce risk of maternal mental health disorders in the perinatal period: A systematic review	
118	Yuliya Fakhr	Denise Hemmings	Investigating sphingosine 1-phosphate kinase 1 (SK1) as a mediator of tumour necrosis factor alpha (TNF-a) effects on placental barrier formation	

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CHILDREN'S HEALTH AND WELL-BEING: CANCER

119	Ghazal Babolmorad	Amit Bhavsar	TLR4 inhibition mitigates cisplatin-induced ototoxicity	
120	Jessica Bennett	Roseline Godbout	Understanding the role of DDX1 expression in the resistance of neuroblastoma cell lines to treatment	
121	Takaaki Landry	Sujata Persad	Validation of a role for active beta-catenin (ABC) in promoting metastatic phenotype in osteosarcoma	

CHILDREN'S HEALTH AND WELL-BEING: CARDIAC HEALTH

122	Amanda Cao	Lisa Hornberger	Impact of adverse early life exposures (AELEs) on surgical outcomes for congenital heart disease (CHD)
123	Angela Han	Andrew Mackie	Just TRAC It! Transitioning responsibly to adult care using smart phone technology
124	Gayathri Wewala	Lisa Hornberger	Evidence of early cardiovascular programming in 9-16 year old children of Type 1 diabetic mothers
125	Mirza Beigh	Luke Eckerseley	A novel measure of dyssynchrony outperforms traditional measures during RV pacing in pediatric patients
126	Sachie Shigemitsu	Timothy Colen	Tricuspid valve prolapse in children with hypoplastic left heart syndrome patients requiring tricuspid valve repair is due to leaflet mal-adaptation, not sub-valve changes
127	Simran Pherwani	Gary Lopaschuk	Maturation of fatty acid oxidation in the newborn heart
128	Thotsapon Trakulmung- kichkarn	Angela McBrien	Clinical presentation, genetic etiologies and outcomes associated with fetal cardiomyopathies
129	Yozo Teramachi	Lisa Hornberger	Left ventricular dysfunction in neonatal Ebstein's anomaly and tricuspid valve dysplasia

CHILDREN'S HEALTH AND WELL-BEING: CRITICAL CARE

130	Deandra Luong	Georg Schmölzer	Analysis of healthcare providers' visual attention during neonatal resuscitation using eye tracking	
131	Emily Zehnder	Georg Schmölzer	Subjective workload assessment of health care providers during neonata resuscitation	
132	Sadie Deschenes	Diane Kunyk	Developing an educational intervention on moral distress for PICU nurses	
133	Siddhi Patel	Georg Schmölzer	Chest compression with sustained inflation versus with asynchronous ventilation during cardiopulmonary resuscitation in asphyxiated pediatric piglets - a randomized animal trial	



#	Presenter	Supervisor	Abstract title
СНІ	LDREN'S HEA		L-BEING: DEVELOPMENT
134	Abdulsalam Baqays	Hamdy El-Hakim	A novel parent-reported outcome tool to assess swallowing dysfunction in otherwise healthy infants and toddlers
135	Alleson Mason	Bukola Salami	Barriers and facilitators to immigrant families' access to healthcare for thei children in Edmonton, Alberta
136	Allison Mella	Lawrence Richer	Mobile app for symptom management in postural orthostatic tachycardia syndrome (POTS): Benefits and limitations
137	Andrea Pajkic	Jackie Whittaker	Sport participation and physical activity following a youth sport-related knee injury
138	Babak Afsharipour	Monica Gorassini	Using grid electrodes to isolate motoneuron activity in children with Cerebral Palsy
139	Irina Simin	Debra Andrews	Developing skills for developmental disabilities: How does clinical experience as an adjunct to current preclinical curriculum improve student confidence
140	Josh Kennedy	Jackie Whittaker	Scared to move: The influence of kinesiophobia on physical activity after a youth sport-related knee injury
141	Kassi Boyd	Shanon Phelan	Engaging dis/abled children in critical qualitative research: Rights, dignity and 'voice(s)'
142	Lu'an Fan	Sandy Thompson- Hodgetts	The effectiveness of preventive disclosure in influencing peer engagemen for the child with ASD in summer camps: A within case study
143	Sabrina Lopresti	Noreen Willows	IYMP principal investigator perspectives on essential characteristics of multi-sited Community-University Partnership with Indigenous communitie
144	Sarah Raza	Lonnie Zwaigenbaum	The role of emotion regulation in the emergence of Autism Spectrum Disorder
145	Simran Singh	Olga Petrovskaya	"I love it, but more clinics should use it!": Parents' experiences with MyChart electronic patient portal in the Stollery respirology clinic
146	Thanh-Tu Pham	Lawrence H. Le	Correlating ultrasonic soft tissue-bone reflection coefficients with curve severity in adolescent idiopathic Scoliosis: A preliminary study

CHILDREN'S HEALTH AND WELL-BEING: GENETICS

Adrianne Watson	Anastassia Voronova	Understanding the role of fractalkine signalling in neural and oligodendrocyte precursor cells in the developing brain	
Asra Almubarak	Fred Berry	Foxc1 & Foxc2 are required for the development of the vertebral column & intervertebral discs	
Jens Herzog	Andrew Waskeiwicz	TSC2 required for mTOR regulation in the developing upper eye	
Kasia Dzierlega	Toshifumi Yokota	Increased expression of water channels aquaporin 1 and 5 in mouse and dog models of Duchenne muscular dystrophy	
Kevin Yoon	Andrew Waskiewicz	A key eye patterning gene, vax2, affects the closure of superior ocular sulcus, a novel developmental feature of eye development	
Matthea Sanderson	Rachel Wevrick	Elucidating the function of MAGEL2 through its protein-protein interaction network defined by proximity labeling (BioID) and mass spectrometry: A novel role RNA processing	
	Asra Almubarak Jens Herzog Kasia Dzierlega Kevin Yoon Matthea	Asra AlmubarakFred BerryJens HerzogAndrew WaskeiwiczKasia DzierlegaToshifumi YokotaKevin YoonAndrew WaskiewiczMattheaRachel Wevrick	

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#	Presenter	Supervisor	Abstract title
153	Renee Dicipulo	Andrew Waskiewicz	Evidence for crosstalk between Taz and Wnt signaling in brain ventricle morphogenesis
154	Rohini Roy Roshmi	Toshifumi Yokota	Development of novel genome editing therapy for Duchenne muscular dystrophy
155	Sabrina Fox	Andrew Waskiewicz	Bmp3 regulates ocular fissure closure via TFG- β signalling
	LDREN'S HEA IUNOLOGY	LTH AND WEL	L-BEING: INFECTION, INFLAMMATION,
156	Sosa Carla	Chan Catherine	Antibiotic administration at early stages of life affects pancreatic islet morphology and function
	LDREN'S HEA	LTH AND WEL	L-BEING: NUTRITION AND GASTROINTESTINAL
157	Annette Sanchez Enkerlin	Robin Clugston	Transfer of vitamin A into breast milk: Dissecting the molecular retinoid pathway
158	Camila Orsso	Andrea Haqq	Variations in body composition in children with similar degrees of obesity based on body mass index: Preliminary results from the Metabolic Load-Capacity study
159	Qiming Tan	Andrea Haqq	An atypical case of Prader-Willi syndrome caused by a microdeletion at 15q11.2 that includes the SNORD116 gene cluster
160	Sarah Morin	Linda Chui	Characterizing Clostridioides difficile found in paediatric populations
CHI	LDREN'S HEA	LTH AND WEL	L-BEING: RESPIRATORY HEALTH
161	Aaron van der Leek	Anita Kozyrzkyj	Fecal immunoglobulin A and asthma/wheeze in the first 5 years of life in the CHILD cohort
162	Alexander Toohey	Gregory Funk	Intracellular adenosine metabolism is important for maintaining baseline inspiratory rhythm in the preBötzinger complex of neonate mice in vitro
163	Dalia Elawad	Anne Hicks	Pseudomonas in pediatric tracheostomy patients: Incidence, prevalence and risk factors
164	Melissa Bird	Kate Storey	Sleeping soundly: Understanding the translation of sleep promotion at school to sleep behaviour at home



10:15 – 11:45 a.m. Turner Valley Room

Knowledge translation and decision-making

#	Name	Position	Supervisor	Abstract title
1	Martha Ruiz	Masters student	Ravi Bhargava	Doppler ultrasound values associated with graft status in children after liver transplantation: A systematic review and meta-analysis
2	Chelsea Durber	PhD student	Rebecca Gokiert	A student's experience participating in a multi- stakeholder, intesectoral evaluation
3	Heather Morris	PhD student	Elaine Hyshka	Engaging with bereaved parent advocates on drug policy reform: Reflections on a research and knowledge translation partnership
4	Airlie Palichuk	Undergraduate student	Shannon MacDonald	Immunization coverage of immunocompromised children: A scoping review
5	Neelam Punjani	PhD student	Elisavet Papathanasoglou	Scoping review of the association between adolescents developing sexuality and its impact on psychological: Evidence from lower and middle income countries
6	Nicol Patricny	PhD student	Jacqueline Pei	A systematic review of promotive and protective factors against violence and delinquency in youth and emerging adults



10:15 – 11:45 a.m. Leduc Room

Pregnancy and developmental trajectories

#	Name	Position	Supervisor	Abstract title
7	Esha Ganguly	PhD student	Sandra Davidge	Effects of placenta-targeted treatment with nanoparticle-encapsulated MitoQ (nMitoQ) on fetal cardiomyocyte development in a rat model of prenatal hypoxia
8	Janlyn Hoffman	Undergraduate student	Meghan Riddell	Apical polarization of atypical PKC-? is absent in early first trimester placental epithelium
9	Mon Tun	PhD student	Piush Mandhane	Prediction of risk of cesarean section in the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort
10	Nataliia Hula	PhD student	Sandra Davidge	The effect of a placenta-targeted treatment with a mitochondrial antioxidant (nMitoQ) on later-life cardiac function of male and female offspring exposed to hypoxia in utero
11	Rachel Skow	PhD student	Margie Davenport	The influence of an aerobic exercise intervention on muscle sympathetic nervous system regulation of blood pressure in pregnancy
12	Rakhbeer Boparai	Undergraduate student	Margie Davenport	The effects of moderate-intensity exercise on endothelial function during pregnancy



10:15 – 11:45 a.m. *Consulate Room*

Children's health and well-being: Respiratory health

#	Name	Position	Supervisor	Abstract title
13	Charmaine van Eeden	Postdoctoral fellow	Piush Mandhane	Increased behavioral problems at 5 years of age are associated with sleep disordered breathing phenotypes, based on parent- reported symptoms: The CHILD study
14	Daniela Roth	Masters student	Daniel Graf	Connecting altered suture development to midfacial hypoplasia
15	Jesus Serrano- Lomelin	Postdoctoral fellow	Maria Ospina	Joint effects of adverse childhood experiences on adult onset Asthma
16	Peter Anto Johnson	Masters student	Georg Schmölzer	A heartbeat away from better lifesaving: Novel smartphone technology to improve heart rate assessment during neonatal resuscitation at birth
17	Pranidhi Baddam	PhD student	Daniel Graf	Is the cartilage responsible for nasal septum deviation?
18	Robert Reklow	PhD student	Gregory Funk	Postnatal developmental changes in the effects of ATP, adenosine and adenosine clearance mechanisms on activity of the preBötzinger complex inspiratory rhythm generating network



10:15 – 11:45 a.m. *Chancellor Room*

Children's health and well-being: Development

#	Name	Position	Supervisor	Abstract title
19	Jason Wong	Masters student	Edmond Lou	Feasibility of using machine learning to aid clinicians to predict curve progression past moderate severity for children with adolescent idiopathic scoliosis
20	Andrew Chan	PhD student	Edmond Lou	Accuracy of screw placement in 3D-ultrasound (3DUS) based spinal navigation in adolescent idiopathic scoliosis phantom vertebrae
21	Caitlin Hurd	PhD student	Jaynie Yang	Early, intensive lower extremity training enhances gross motor function in children with perinatal stroke: Results of a randomized controlled trial
22	Chris Holt	Masters student	Jackie Whittaker	Sticking to it: A scoping review of adherence to exercise therapy interventions in children and adolescents with musculoskeletal conditions
23	Abrar Alam	Undergraduate student	Jason Dyck	Resveratrol attenuates doxorubicin-induced injury and later onset hypertension-induced cardiomyopathy through the inhibition of NLRP3 Inflammasome signalling
24	Megan Beggs	PhD student	Todd Alexander	Claudin-2 is necessary for increased intestinal calcium permeability and optimal bone mineralization early in life



10:15 – 11:45 a.m. *Chairman Room*

Lifelong women's health

#	Name	Position	Supervisor	Abstract title
25	Hedieh Keshavarz	PhD student	John Seubert	Genetic deletion of soluble epoxide hydrolase preserves cardiac function in aged female mice
26	Lena Bilyk	Postdoctoral fellow	Lynne Postovit	Embryonic protein nodal as a potential marker of drug resistance in ovarian cancer
27	Lockhart Jamieson	PhD student	John Seubert	Pharmacological or genetic inhibition of soluble epoxide hydrolase demonstrates cardioprotection following myocardial infarction in aged female mice
28	Olivia Weaver	Undergraduate student	Donna Vine	Fish oil and metformin interventions to target cardiometabolic risk in high-risk women with polycystic ovarian syndrome
29	Victoria Meah	Postdoctoral fellow	Margie Davenport	Cardiac responses to incremental resistance exercise in pregnancy: Resistance Exercise in Pregnancy Study (REPS)
30	Vrajesh Pandya	Postdoctoral fellow	Ing Swie Goping	BIK drives an aggressive breast cancer phenotype through sublethal apoptosis and predicts poor prognosis of ER-positive breast cancer



KEYNOTE PRESENTATION

12:30 – 12:45 p.m. The Power of Partnership – Ballroom

Mike House, president and CEO, Stollery Children's Hospital Foundation **Andrew Otway**, president and CEO, Royal Alexandra Hospital Foundation

Bonnie Stevens

Innovative individual and organizational implementation strategies for changing healthcare provider pain practices and child health outcomes

12:45 – 1:40 p.m. Ballroom

Hospitalized children receive between 7-16 tissue-damaging painful procedures daily. In many instances there is no pain-relieving intervention associated with these procedures. The consequences of repeated pain, if unrelieved, are now known to be significant in terms of neurological and behavioural development of the child. Therefore, it is essential that health care providers maximize efforts to prevent or minimize pain from procedures. Researchers are accumulating an ever-expanding body of evidence to be used in clinical practice; however, the gap between what we know and what we do is wide, leaving vulnerable populations of infants and children with suboptimal pain relief. Implementation scientists are now researching the effectiveness of multi-faceted strategies to improve the implementation and dissemination of new evidence. Strategies target both individual health care providers (e.g. online pediatric pain curricula) and organizations (e.g. e-health resources and integrative approaches). The influence of organizational context, or work environment,

and how it affects both the effectiveness of the intervention and its implementation are also being studied. Partnered responsibility between individuals and organizations will ultimately benefit the child and family and improve health care outcomes.



Bonnie Stevens

is a professor at the Lawrence S. Bloomberg Faculty of Nursing and Faculties of Medicine and Dentistry at the University of Toronto. She is also associate chief of nursing research

and a senior scientist in the Child Health Evaluative Sciences program at The Hospital for Sick Children (SickKids). Stevens is director of the University of Toronto Centre for the Study of Pain, co-director of the Pain Centre at SickKids and chair of the Certification Committee for ChildKind International. She is a fellow of both the Canadian Academy of Health Sciences and the American Academy of Nursing.

She has received multiple prestigious awards and has published over 300 papers and abstracts, 200 invited lectures and is a co-editor of the *Oxford Textbook of Pediatric Pain* and *Pain in Neonates and Infants*.

Stevens held the inaugural Signy Hildur Eaton Chair in Pediatric Nursing Research at SickKids, the first pediatric nursing research chair based in Canada until 2015. She was also the first nurse scientist to be awarded the CIHR KT Prize in 2014.



TRAINEE POSTER PRESENTATIONS – AFTERNOON

1:45 – 2:45 p.m.

Ballroom

	Presenter	Supervisor	Abstract title	
KNOWLEDGE TRANSLATION AND DECISION-MAKING				
166	Alyson Campbell	Shannon Scott	Our experience conducting an environmental scan (ES) on knowledge translation (KT) tools for pediatric concussion	
167	Chentel Cunningham	Shannon Scott	Using patient engagment to evaluate the usability of two pediatric fever tools	
168	Maryam Elyasi	Maryam Amin	Strategies to enhance patients' adherence to orthodontic treatments: A systematic review	
169	Osnat Wine	Alvaro Osornio Vargas	What does it take to implement and shape integrated knowledge translation in an interdisciplinary research project	
170	Rachel Flynn	Scott Shannon	Developing rigorous evaluation approaches for the sustainability of child health interventions: Findings from an integrative review	
LIFELONG WOMEN'S HEALTH				
LIC				
171	Alaa Zare	Lynne Postovit	RIPK2 role in promoting inflammatory breast cancer tumorigenesis	
			RIPK2 role in promoting inflammatory breast cancer tumorigenesis Effectiveness of pelvic floor muscle injections for chronic pelvic pain: A systematic review and narrative analysis	
171	Alaa Zare	Lynne Postovit	Effectiveness of pelvic floor muscle injections for chronic pelvic pain: A	
171 172	Alaa Zare Amanda O'Reilly Amynah	Lynne Postovit Erin Kelly	Effectiveness of pelvic floor muscle injections for chronic pelvic pain: A systematic review and narrative analysis	
171 172 173	Alaa Zare Amanda O'Reilly Amynah Mevawala	Lynne Postovit Erin Kelly Solina Richter	Effectiveness of pelvic floor muscle injections for chronic pelvic pain: A systematic review and narrative analysis A transition theory perspective of menopause in a developing context	
171 172 173 174	Alaa Zare Amanda O'Reilly Amynah Mevawala Joren Manz	Lynne Postovit Erin Kelly Solina Richter Momoe Hyakutake	Effectiveness of pelvic floor muscle injections for chronic pelvic pain: A systematic review and narrative analysis A transition theory perspective of menopause in a developing context Cannabis use among women with chronic pelvic pain	
171 172 173 174 175	Alaa Zare Amanda O'Reilly Amynah Mevawala Joren Manz Katherine Babyn	Lynne Postovit Erin Kelly Solina Richter Momoe Hyakutake Nese Yuksel	Effectiveness of pelvic floor muscle injections for chronic pelvic pain: A systematic review and narrative analysis A transition theory perspective of menopause in a developing context Cannabis use among women with chronic pelvic pain Exploring cannabis use in women's health: A scoping review Characterization of epigenetic and transcriptomic alterations in hypoxia	
171 172 173 174 175 176	Alaa Zare Amanda O'Reilly Amynah Mevawala Joren Manz Katherine Babyn Laura Lee	Lynne Postovit Erin Kelly Solina Richter Momoe Hyakutake Nese Yuksel Lynne Postovit	Effectiveness of pelvic floor muscle injections for chronic pelvic pain: A systematic review and narrative analysis A transition theory perspective of menopause in a developing context Cannabis use among women with chronic pelvic pain Exploring cannabis use in women's health: A scoping review Characterization of epigenetic and transcriptomic alterations in hypoxia induced breast cancer cell plasticity The Walk-and-Talk app: Physical and mental health benefits of a social	

PREGNANCY AND DEVELOPMENTAL TRAJECTORIES

180	Alexa Thompson	Joel Dacks	Candidate gene discovery for pregnancy-associated malaria using RNA sequencing
181	Amy Wooldridge	Sandra Davidge	Effects of prenatal hypoxia exposure on pregnancy outcomes in offspring later in life
182	Jasmine Nguyen	Meghan Riddell	Vibratome sectioning of term placenta for analysis of epithelial cell polarity in the intact syncytium



CHILDREN'S HEALTH AND WELL-BEING: CANCER

190	Asna Latif	Amit Bhavsar	Investigating mechanisms of chemotherapy-induced permanent hearing loss in childhood cancer patients
191	Chan Kim	James Hammond	Effect of tyrosine kinase inhibitors on 6-mercaptopurine cytotoxicity: Interactions with equilibrative nucleobase transporter 1
192	Mahsa Mohseni	Joseph M Brandwein	Combination of siRNA and chemotherapeutic agents in acute leukemic cells
193	Nicholas Ruel	James Hammond	SLC43A3 as a biomarker for 6-mercaptopurine cytotoxicity in leukemia cells

CHILDREN'S HEALTH AND WELL-BEING: CARDIAC HEALTH

194	Amanda Greenwell	John Ussher	Cardiac glucose oxidation rates are impaired and a possible pharmacological target for mitigating heart failure in Barth syndrome
195	Amanpreet Kaur	Luke Eckersley	Trends in (2003-2018) and barriers to the prenatal detection of congenital heart disease in Alberta
196	Attila Ahmad	Luke Eckersley	Validation of knowledge-based cardiac chamber volumes against 3D echo and MRI datasets
197	Danielle Harake	Nee Khoo	Does ventricular dyssynchrony in pre-bidrectional cavopulmonary anastamosis palliation stage children with hypoplastic left heart syndrome predict morbidity and mortality?
198	Lily Lin	Nee Khoo	Tricuspid valve responds to chronic right ventricular pressure and volume load stress by rapid leaflet expansion: 3DE study in a novel recovery piglet model
199	Yomi Olugbuyi	Lisa Hornberger	Does disparities in proximity to care and socioeconomic class influence congenital heart disease (CHD) outcome in Canada?



Presenter Supervisor Abstract title

CHILDREN'S HEALTH AND WELL-BEING: CRITICAL CARE

200	Avneet Mangat	Georg Schmölzer	Does a respiratory function monitor during positive pressure ventilation in the delivery room reduce infant mortality? A systematic review and meta- analysis
201	Jannatul Mustofa	Georg Schmölzer	Development of non-contact video-based heart rate monitoring in newborn infants
202	Simran Ghoman	Georg Schmölzer	Game-based summative assessment of neonatal resuscitation competence using the RETAIN board game

CHILDREN'S HEALTH AND WELL-BEING: DEVELOPMENT

203	Chunpeng Nie	Daniel Graf	Metabolic dysregulation underlies early-onset osteoarthritis in the TMJ
204	Claudine Thereza- Bussolaro	Carlos Flores-Mir	Nasal structure alterations and high risk of OSA among children: An exploratory study
205	Guillaume Leclair	Joseph Attallah	Neurodevelopmental outcomes after neonatal surgical intervention for cyanotic tetralogy of Fallot and other lesions with right ventricular outflow tract obstruction
206	Jackie Chan	Brian Chiu	Pediatric sarcoidosis: A clinicopathological review with emphasis on early- onset and high-risk sarcoidosis and diagnostic challenges
207	Kennedi Young	Todd Alexander	The loss of claudin-2 results in upregulation of the transcellular pathway o calcium reabsorption from the kidney and absorption from the intestines in pre-weaned mice
208	Kim-Cuong Nguyen	Lawrence Le	Registration of ultrasound and CBCT images for enhancing periodontal tissues visualization
209	Linda Truong	Jackie Whittaker	Growth is in the struggle: Exploring the perspectives of youth 1-2 years following a sport-related anterior cruciate ligament injury - an interpretive description study
210	Pegah Firouzeh	Lesley Pritchard	Evaluation of the effects of ankle-foot orthoses on gross motor function, physical activity and participation of young children with cerebral palsy: A mixed-methods study protocol
211	Sarah Johnson	Tehseen Ladha	Identification of health needs in pediatric immigrants and refugees presenting for screening
212	Tasmia Hai	Martin Mrazik	Executive functions in children with ADHD: A follow-up study using both performance-based task and rating scales
213	Tehzeeb Sayed	Edmond Lou	Intra- and inter-rater reliabilities and accuracy of kyphotic angle measurements on ultrasound images for children with adolescent idiopathic scoliosis - a pilot study
214	Wasim Labban	Jackie Whittaker	Physical activity in adolescents with patellofemoral pain: A scoping review

CHILDREN'S HEALTH AND WELL-BEING: GENETICS

215	An Bui	Francois Bolduc	Identifying genetic modifiers of Fragile X syndrome in a drosophila model for repetitive behaviors
216	Devyn Godziuk	Daniel Graf	The role of KBG syndrome gene, Ankrd11, in craniofacial development



CHILDREN'S HEALTH AND WELL-BEING: INFECTION, INFLAMMATION, IMMUNOLOGY

223	Bipasha Choudhury	Michael Hawkes	Intestinal epithelial injury is associated with systemic inflammation in vertically HIV-1 infected children
224	Bushra Anjum	Lori West	Differences in ABO antibody production in female vs. male mice
225	Estelle Morin	Jessica Foulds	Management and outcome of febrile neutropenia in admitted presumed immunocompetent patients with suspected viral illness

CHILDREN'S HEALTH AND WELL-BEING: NUTRITION AND GASTROINTESTINAL HEALTH

226	Alison Thompson	Shannon Scott	A systematic review of parents' experiences and information needs related to pediatric functional constipation
227	Andrea Eaton	Geoff Ball	Determining stakeholders' priorities for child and family research - progress to date
228	Maryam Kebbe	Geoff Ball	Preliminary evaluation of Conversation Cards for Adolescents©: A pilot randomized controlled trial

CHILDREN'S HEALTH AND WELL-BEING: RESPIRATORY HEALTH

229	Hyelin Sung	Shannon Scott	Usability of infographics for UTI and bronchiolitis
230	Jashan Saini	Silvia Pagliardini	Modulation of respiratory rhythms via periaqueductal gray optostimulation
231	Jasmeen Saini	Silvia Pagliardini	Ventilatory recovery by etonogestrel in central chemoreflex- impaired female rats
232	Vivian Biancardi	Gregory Funk	Identification of an ion channel in the inspiratory rhythm generator that is potentiated by ATP and counteracts the life-threatening depression of breathing during hypoxia



3 – 4:30 p.m. *Turner Valley Room*

Children's health and well-being: Nutrition and gastrointestinal health

#	Name	Position	Supervisor	Abstract title
31	Alexa Ferdinands	PhD student	Kim Raine	How do young people encounter body size talk on YouTube?
32	Carmen Tessier	Masters student	Anita Kozyrskyj	Maternal prenatal depression is associated with infant gut colonization of Clostridium difficile at 3 months of age
33	Chinwe Vivien Obiakor	Masters student	Anita Kozyrskyj	The association between early life antimicrobial exposure and C. difficile colonization in infants
34	Inderdeep Mander	Undergraduate student	Eytan Wine	Finding the relationship between fiber and gut diseases in children
35	Ngoc Khanh Vu	Postdoctoral fellow	Anita Kozyrskyj	Beyond caesarean birth: Impact of prolonged labour on infant gut microbiota
36	Stephanie Dijk	Masters student	Eytan Wine	Microbial & metabolic changes with infliximab therapy in paediatric Crohn disease



3 – 4:30 p.m. *Leduc Room*

Pregnancy and developmental trajectories

#	Name	Position	Supervisor	Abstract title
37	Abbey Pagee	Undergraduate student	Sandra Davidge	Role of LOX-1 in postpartum vascular dysfunction in a mouse model of preeclampsia
38	Claudia Holody	Masters student	Stephane Bourque	Sex-specific changes in neonatal cardiac mitochondrial function in response to perinatal iron deficiency
39	Jenna Evanchuk	Undergraduate student	Catherine J. Field	A mother's iron stores during second trimester predict infant iron stores at 3 months of age
40	Miranda Kimber	Masters student	Victoria Meah	Knowledge translation & social media: Twitter data analysis of the 2019 SOGC/CSEP guideline for physical activity throughout pregnancy
41	Nikki Mitchell	Undergraduate student	Georg Schmölzer	Incidence and risk factors for hypoglycemia during fetal-to-neonatal transition in premature infants
42	Tamara Sáez	Postdoctoral fellow	Sandra Davidge	Vascular interaction between lectin-like oxidized LDL receptor 1 (LOX-1) and angiotensin II receptor 1 (AT1) in a mouse model of gestational vascular dysfunction



3 – 4:30 p.m. *Consulate Room*

Lifelong women's health

	#	Name	Position	Supervisor	Abstract title
	43	Devon Heath	Undergraduate student	Dana Hayward	What's in a face? Individual differences in social cognition of women with eating disorders
44		Hamid Maadi	PhD student	Zhixiang Wang	Trastuzumab induce cell cycle arrest in HER2- positive breast cancers with no inhibitory effects on HER receptors' phosphorylation and dimerization
	45	Huachen Chen	PhD student	Yangxin Fu	Transcription factor ZIC2 promotes tumorigenic phenotypes by regulating the biology of the bulk and cancer stem cells in ovarian cancer
	46	John Maringa Githaka	Postdoctoral fellow	Ing Swie Goping	BAD phosphorylation facilitates mRNA translation during epithelial cell migration in the developing mammary gland
	47	Maxine Myre	PhD student	Tanya Berry	Body weight diversity in physical activity promotion: Perspectives of women living with obesity
-	48	Victoria Elliot	Undergraduate student	Jane Schulz	Obstetrical anal sphincter injuries & the need for adequate care



3 – 4:30 p.m. *Chancellor Room*

Children's health and well-being: Development

#	Name	Position	Supervisor	Abstract title
49	Charlene Nielsen	Postdoctoral fellow	Alvaro Osornio- Vargas	A medical macroscope for children's environmental health: The ChEHC map collection
50	Kenji Rowel Lim	PhD student	Toshifumi Yokota	Developing antisense gapmers to knock down DUX4 for the treatment of facioscapulohumeral muscular dystrophy
51	Mahdieh Khodaei	PhD student	Edmond Lou	Prognostic factors for curve progression in adolescent with idiopathic scoliosis: A systematic review
52	Matthew Saurette	Masters student	R.Todd Alexander	Intestinal phosphate absorption: Claudin-12 attenuates paracellular phosphate absorption
53	Tate MacDonald	Masters student	Todd Alexander	Towards an understanding of the difference in organic and inorganic phosphate bioavailability
54	Zeenat Ladak	Masters student	Sujata Persad	A therapy to prevent neurodevelopmental disabilities: Protection of brain cells by sulforaphane



3 – 4:30 p.m. Chairman Room

Pediatric residents

#	Name	Position	Supervisor	Abstract title
55 Amanda Yaworski		Resident	Janani Kassiri	Reduction in emergency department visits and improved diagnoses through implementation of a rapid access neurology clinic
56	Chris Novak	Resident	Dawn Davies	Peripherally-acting mu-opioid antagonists for treatment of opioid-induced constipation in children
57	Eyad Bitar	Subspecialty resident	Abbas Hyderi	The value of early echocardiographic parameters to predict chronic pulmonary hypertension in extreme premature infants
58	Gina Catena	Resident	Dawn Davies	Medical assistance in dying and minors: Views of the Canadian pediatrician
59	Michelle Huie	Resident	Karen Forbes	Preferred pediatric resident learning styles: From junior to senior resident
60	Nick Giffin	Resident	Venkatesan Sivarajan	Impact of early surgical correction/palliation of congenital heart defects in infants with viral respiratory tract infections in the current era
61	Rafiaa Valji	Subspecialty resident	Joanna MacLean	A comparison of long-term non-invasive ventilation use in Down syndrome and non-Down syndrome children
62	Zafira Bhaloo	Resident	Tamizan Kherani	Improving the efficiency of handover in pediatrics: A resident-led quality improvement project

- 4:30 5 p.m. Networking reception and "ask the expert" session Ballroom
- **5 5:15 p.m. Awards and wrap-up** Ballroom

NON-TRAINEE POSTER PRESENTATIONS – ALL DAY

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Foyer

#	Presenter	Supervisor	Abstract title		
СН	ILDREN'S HEA	LTH AND WEL	L-BEING: CANCER		
63	Mervin Burnett	Consolato Sergi	Graphene oxide nanoparticles on induced apoptosis in osteosarcoma		
СН	ILDREN'S HEA	LTH AND WEL	L-BEING: CARDIAC HEALTH		
64	Hilal AL Riyami	Carolina Escudero	Does a smartphone-based ECG recording system in pediatric patients with palpitations improve diagnostic yield		
65	Kiera Pajunen	Edythe Tham	Cardiac magnetic resonance assessment of aortopathy in pediatric Turner syndrome		
66	Andrew Mackie		Randomized controlled trial of a transition intevention program for young adolescents with congenital heart disease		
67	Edythe Tham		Cardiac magnetic resonance parameters associated with surgery in a pediatric and young adult population with chronic aortic regurgitation		
СН	ILDREN'S HEA	LTH AND WEL	L-BEING: DEVELOPMENT		
68	Lori Sacrey	Lonnie Zwaigenbaum	Physiological measurement of emotion from infancy to preschool		
69	Rob Buschmann	Maria Mayan	Southside Mother's Day out: Understanding one child care's struggle to improve early learning and care in Edmonton		
			Easting 0 and income The Annualting for the second state to be seen if the state		
70	Jessica Shillington	Deb McNeil	Feeding & readiness: The transition from hospital-to-home with a late- preterm infant		
70 71		Bukola Salami			
	Shillington		preterm infant Immigrant children in Canada: Mothers' perspectives on barriers to mental		
71 72	Shillington Mia Tulli Mosarrat Qureshi	Bukola Salami Khalid Aziz	preterm infant Immigrant children in Canada: Mothers' perspectives on barriers to mental health care Prophylactic indomethacin: The impact on brain and gut injury may be gestational age dependent		
71 72	Shillington Mia Tulli Mosarrat Qureshi	Bukola Salami Khalid Aziz	preterm infant Immigrant children in Canada: Mothers' perspectives on barriers to mental health care Prophylactic indomethacin: The impact on brain and gut injury may be		
71 72 CHII 73	Shillington Mia Tulli Mosarrat Qureshi DREN'S HEAL Ali Assi	Bukola Salami Khalid Aziz TH AND WELL Shannon MacDonald	preterm infant Immigrant children in Canada: Mothers' perspectives on barriers to mental health care Prophylactic indomethacin: The impact on brain and gut injury may be gestational age dependent -BEING: INFECTION, INFLAMMATION, IMMUNOLOG The childhood immunization reminder project (ChIRP): A pilot intervention to		
71 72 CHII 73	Shillington Mia Tulli Mosarrat Qureshi DREN'S HEAL Ali Assi	Bukola Salami Khalid Aziz TH AND WELL Shannon MacDonald	preterm infant Immigrant children in Canada: Mothers' perspectives on barriers to mental health care Prophylactic indomethacin: The impact on brain and gut injury may be gestational age dependent -BEING: INFECTION, INFLAMMATION, IMMUNOLOG The childhood immunization reminder project (ChIRP): A pilot intervention to improve uptake of children's 18-month immunizations		
71 72 CHIL 73 CHIL	Shillington Mia Tulli Mosarrat Qureshi DREN'S HEAL Ali Assi DREN'SHEAL Alexandra	Bukola Salami Khalid Aziz TH AND WELL Shannon MacDonald	preterm infant Immigrant children in Canada: Mothers' perspectives on barriers to mental health care Prophylactic indomethacin: The impact on brain and gut injury may be gestational age dependent -BEING: INFECTION, INFLAMMATION, IMMUNOLOG The childhood immunization reminder project (ChIRP): A pilot intervention to improve uptake of children's 18-month immunizations BEING:NUTRITIONANDGASTROINTESTINALHEALTI Infliximab clearance during and post induction predicts clinical and		



78 Allison Gates Lisa Hartling A systematic review of the factors that influence in childhood vaccines among Canadians 79 Salima Meherali Shannon Scott A systematic review: Interventions and strategies and reproductive health outcomes of adolescents middle-income countries 80 Michelle Gates Lisa Hartling Effectiveness of digital technologies as a distract children: A systematic review and meta-analysis 81 Stevi Golden-Plotnik Samina Ali Caregiver perspectives on children's functional e fracture: A qualitative study 82 Ellen Morrison Samina Ali Validation of the Stoplight Pain Scale tool in the Genergency setting 83 Lisa Hartling Pediatric parent advisory group evaluation: Asset involvement and identifying future directions 84 Tabatha Plesuk Shannon Scott Comparing the usability evaluation results of two urinary tract infection 85 Michelle Goonasekera Amy Kirkham A biopsychosocial perspective: Relationships am life, treatment symptoms and cardiorespiratory fil receiving chemotherapy for breast cancer 86 Powel Crosley Mary Hitt Preclinical evaluation of TRAIL combined with P/ granulosa cell tumour 87 Solina Richter Intersection of place, social connectedness, inco health: Experiences and perceptions of female e		Abstract title	Supervisor	Presenter	#							
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and reproductive health outcomes of adolescents middle-income countries80Michelle GatesLisa HartlingEffectiveness of digital technologies as a distract children: A systematic review and meta-analysis81Stevi Golden-PlotnikSamina AliCaregiver perspectives on children's functional e fracture: A qualitative study82Ellen MorrisonSamina AliValidation of the Stoplight Pain Scale tool in the C 	nce the acceptability of	A systematic review of the factors that influence the accer childhood vaccines among Canadians	Lisa Hartling	Allison Gates	78							
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82 Ellen Morrison Samina Ali Validation of the Stoplight Pain Scale tool in the Comparing the stopping future directions 84 Tabatha Plesuk Shannon Scott Comparing the usability evaluation results of two urinary tract infection 84 Tabatha Plesuk Shannon Scott Comparing the usability evaluation results of two urinary tract infection 85 Michelle Goonasekera Amy Kirkham A biopsychosocial perspective: Relationships am life, treatment symptoms and cardiorespiratory fit receiving chemotherapy for breast cancer 86 Powel Crosley Mary Hitt Preclinical evaluation of TRAIL combined with PA granulosa cell tumour 87 Solina Richter Intersection of place, social connectedness, incohealth: Experiences and perceptions of female experceptions of female experis there are an experiences a		Effectiveness of digital technologies as a distraction for a children: A systematic review and meta-analysis	Lisa Hartling	Michelle Gates	80							
83 Lisa Hartling Pediatric parent advisory group evaluation: Assessive involvement and identifying future directions 84 Tabatha Plesuk Shannon Scott Comparing the usability evaluation results of two urinary tract infection LIFELONG WOMEN'S HEALTH 85 Michelle Goonasekera Amy Kirkham A biopsychosocial perspective: Relationships am life, treatment symptoms and cardiorespiratory fit receiving chemotherapy for breast cancer 86 Powel Crosley Mary Hitt Preclinical evaluation of TRAIL combined with PA granulosa cell tumour 87 Solina Richter Intersection of place, social connectedness, inco health: Experiences and perceptions of female explanation	nal experiences after	Caregiver perspectives on children's functional experience fracture: A qualitative study	Samina Ali	Stevi Golden-Plotnik	81							
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health: Experiences and perceptions of female e	h PAC-1 to control	Preclinical evaluation of TRAIL combined with PAC-1 to granulosa cell tumour	Mary Hitt	Powel Crosley	86							
in Canada		Intersection of place, social connectedness, income, cult health: Experiences and perceptions of female economic in Canada		Solina Richter	87							

88 Tara Janes Richard Kinkead Panic, stress and sex: Orexin 1 receptors are necessary for enhancement of the hypercaphic ventilatory response in female rats subjected to neonatal stress
 89 Jacqueline Krysa Spencer Proctor Non-fasting remnant cholesterol in Alberta's tomorrow project: Implications for CVD risk prediction in women



#	Presenter	Supervisor	Abstract title						
PR	PREGNANCY AND DEVELOPMENTAL TRAJECTORIES								
90	Amol Moray	Lisa Hornberger	3rd trimester umbilical arterial blood flow is associated with neurodevelopmental outcomes at 2 years						
91	Sana Amjad	Maria Ospina	Association between maternal wildfire exposure and the risk of adverse birth outcomes: A systematic review						
92	Deliwe Ngwezi	Lisa Hornberger	Prenatal features of ductus arteriosus related branch pulmonary stenosis in fetal pulmonary atresia						
93	Dragana Misita	Rhonda Bell	Prenatal nutrition care in Alberta: Exploring women's interest in dietetic services during pregnancy and dietitians experiences supporting pregnant women during pregnancy						
94	Mirna Matta	Kathleen Chaput	Recommendations for cannabis use in pregnancy among sources of cannabis sales in Alberta						
95	Safia Marani	Maria Ospina	Cost evaluation of emergency department use among pregnant and post- partum women in Alberta from 2013-2017						
96	Stuart Lau	Anita Kozyrskyj	Cesarean section delivery and neurodevelopment: Systematic evidence for variation by birth events and impairment phenotype						



OUR RESEARCH SUPPORT (2018–2019)

We are proud to fund opportunities that promote and support innovation in women's and children's health.





Jan 🗸

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Name	#	Time	Room	Name	#	Time	Room
Afsharipour, Babak	138	9-10	Ballroom	Dijk, Stephanie	36	3-4:30	Turner Valley Room
Afzalzada-Ahrari, Malema	99	9-10	Ballroom	Durber, Chelsea	2	10:15-11:45	Turner Valley Room
Ahmad, Attila	196	1:45-2:45	Ballroom	Dzierlega, Kasia	150	9-10	Ballroom
AL Riyami, Hilal	64	all day	Foyer	Eaton, Andrea	227	1:45-2:45	Ballroom
Alam, Abrar	23	10:15-11:45	Chancellor Room	Elawad, Dalia	163	9-10	Ballroom
Almubarak, Asra	148	9-10	Ballroom	Elliot, Victoria	48	3-4:30	Consulate Room
Amjad, Sana	91	all day	Foyer	Elyasi, Maryam	168	1:45-2:45	Ballroom
Amodu, Oluwakemi	113	9-10	Ballroom	Evanchuk, Jenna	39	3-4:30	Leduc Room
Anjum, Bushra	224	1:45-2:45	Ballroom	Fakhr, Yuliya	118	9-10	Ballroom
Antunes Lopes, Nayara	112	9-10	Ballroom	Fan, Lu'an	142	9-10	Ballroom
Aslesh, Tejal	219	1:45-2:45	Ballroom	Fellus, Sapir	187	1:45-2:45	Ballroom
Assi, Ali	73	all day	Foyer	Ferdinands, Alexa	31	3-4:30	Turner Valley Room
Babolmorad, Ghazal	119	9-10	Ballroom	Firouzeh, Pegah	210	1:45-2:45	Ballroom
Babyn, Katherine	175	1:45-2:45	Ballroom	Flynn, Rachel	170	1:45-2:45	Ballroom
Baddam, Pranidhi	17	10:15-11:45	Consulate Room	Fox, Sabrina	155	9-10	Ballroom
Bagays, Abdulsalam	134	9-10	Ballroom	Ganguly, Esha	7	10:15-11:45	Leduc Room
Bedi, Iqwak	108	9-10	Ballroom	Gates, Allison	78	all day	Foyer
Beggs, Megan	24	10:15-11:45	Chancellor Room	Gates, Michelle	80	all day	Foyer
Beigh, Mirza	125	9-10	Ballroom	Ghoman, Simran	202	1:45-2:45	Ballroom
Bennett, Jessica	120	9-10	Ballroom	Giffin, Nick	60	3-4:30	Chairman Room
Bhaloo, Zafira	62	3-4:30	Chairman Room	Githaka, John Maringa	46	3-4:30	Consulate Room
Biancardi, Vivian	232	1:45-2:45	Ballroom	Godziuk, Devyn	216	1:45-2:45	Ballroom
Bianchi Lemieszek, Marina		9-10	Ballroom	Golden-Plotnik, Stevi	81	all day	Foyer
Bilyk, Lena	26	10:15-11:45	Chairman Room	Goodkey, Kara	217	1:45-2:45	Ballroom
Bird, Melissa	164	9-10	Ballroom	Goonasekera, Michelle	85	all day	Foyer
Bitar, Eyad	57	3-4:30	Chairman Room	Greenwell, Amanda	194	1:45-2:45	Ballroom
Boparai, Rakhbeer	12	10:15-11:45	Leduc Room	Ha, Christine	102	9-10	Ballroom
Boyd, Kassi	141	9-10	Ballroom	Hai, Tasmia	212	1:45-2:45	Ballroom
Bui, An	215	1:45-2:45	Ballroom	Han, Angela	123	9-10	Ballroom
Burnett, Mervin	63	all day	Foyer	Harake, Danielle	197	1:45-2:45	Ballroom
Buschmann, Rob	69	all day	Foyer	Hartling, Lisa	83	all day	Foyer
Campbell, Alyson	166	1:45-2:45	Ballroom	Heath, Devon	43	3-4:30	Consulate Room
Cao, Amanda	122	9-10	Ballroom	Henneberry, Molly	111	9-10	Ballroom
Carla, Sosa	156	<u>9-10</u> 9-10	Ballroom	Herzog, Jens	149	9-10	Ballroom
Catena, Gina	58	3-4:30	Chairman Room	Hoffman, Janlyn	8	10:15-11:45	Leduc Room
Chan, Andrew	20	10:15-11:45	Chancellor Room	Holody, Claudia	38	3-4:30	Leduc Room
Chan, Jackie	206	1:45-2:45	Ballroom	Holt, Chris	22	10:15-11:45	Chancellor Room
Chen, Huachen	45	3-4:30	Consulate Room	Huang, Yiqing	221	1:45-2:45	Ballroom
Chen, Lu Kun	218	1:45-2:45	Ballroom	Huie, Michelle	59	3-4:30	Chairman Room
Cheung, Daphne	107	9-10	Ballroom	Hula, Nataliia	10	10:15-11:45	Leduc Room
Choi, Won-Shik (Daniel)	179	1:45-2:45	Ballroom	Hurd, Caitlin	21	10:15-11:45	Chancellor Room
	223	1:45-2:45	Ballroom	Jamieson, Lockhart	27	10:15-11:45	Chairman Room
Choudhury, Bipasha	101				88	all day	
Chow, Braden	86	9-10	Ballroom	Janes, Tara	00 16		Foyer
Crosley, Powel		all day	Foyer	Johnson, Peter Anto		10:15-11:45	Consulate Room
Cunningham, Chentel	167	1:45-2:45	Ballroom	Johnson, Sarah	211	1:45-2:45	Ballroom
Desai, Vidhi	117	9-10	Ballroom	Kang, Jimmy	183	1:45-2:45	Ballroom
Deschenes, Sadie	132	9-10	Ballroom	Kaur, Amanpreet	195	1:45-2:45	Ballroom
Dicipulo, Renee	153	9-10	Ballroom	Kebbe, Maryam	228	1:45-2:45	Ballroom



ALPHABETICAL LIST OF PRESENTERS

Name	#	Time	Room	Name	#	Time	Room
Kennedy, Josh	140	9-10	Ballroom	Myre, Maxine	47	3-4:30	Consulate Room
Keshavarz, Hedieh	25	10:15-11:45	Chairman Room	Nguyen, Jasmine	182	1:45-2:45	Ballroom
Khetarpal, Nitya	105	9-10	Ballroom	Nguyen, Kim-Cuong	208	1:45-2:45	Ballroom
Khodaei, Mahdieh	51	3-4:30	Chancellor Room	Ngwezi, Deliwe	92	all day	Foyer
Kibalnyk, Yana	220	1:45-2:45	Ballroom	Nie, Chunpeng	203	1:45-2:45	Ballroom
Kim, Chan	191	1:45-2:45	Ballroom	Nielsen, Charlene	49	3-4:30	Chancellor Room
Kimber, Miranda	40	3-4:30	Leduc Room	Noble, Ronan	186	1:45-2:45	Ballroom
Knisley, Lisa	98	9-10	Ballroom	Novak, Chris	56	3-4:30	Chairman Room
Krysa, Jacqueline	89	all day	Foyer	Obiakor, Chinwe Vivien	33	3-4:30	Turner Valley Room
Labban, Wasim	214	1:45-2:45	Ballroom	Olugbuyi, Yomi	199	1:45-2:45	Ballroom
Ladak, Zeenat	54	3-4:30	Chancellor Room	O'Neill, Marcus	76	all day	Foyer
Landry, Takaaki	121	9-10	Ballroom	O'Reilly, Amanda	172	1:45-2:45	Ballroom
Latif, Asna	190	1:45-2:45	Ballroom	Orsso, Camila	158	9-10	Ballroom
Lau, Stuart	96	all day	Foyer	Pagee, Abbey	37	3-4:30	Leduc Room
Leclair, Guillaume	205	1:45-2:45	Ballroom	Pajkic, Andrea	137	9-10	Ballroom
Lee, Laura	176	1:45-2:45	Ballroom	Pajunen, Kiera	65	all day	Foyer
Li, Jia Hang	109	9-10	Ballroom	Palichuk, Airlie	4	10:15-11:45	Turner Valley Room
Li, Nicholas	104	9-10	Ballroom	Palmer, Sophie	188	1:45-2:45	Ballroom
Li, Yutong (Jessica)	222	1:45-2:45	Ballroom	Pandya, Vrajesh	30	10:15-11:45	Chairman Room
Lim, Kenji Rowel	50	3-4:30	Chancellor Room	Panigrahi, Rashmi	178	1:45-2:45	Ballroom
Lin, Lily	198	1:45-2:45	Ballroom	Pasha, Mazhar	110	9-10	Ballroom
Lopresti, Sabrina	143	9-10	Ballroom	Patel, Siddhi	133	9-10	Ballroom
Louie-Poon, Samantha	165	9-10	Ballroom	Patricny, Nicol	6	10:15-11:45	Turner Valley Room
Luong, Deandra	130	9-10	Ballroom	Petrova, Alexandra	74	all day	Foyer
Maadi, Hamid	44	3-4:30	Consulate Room	Pham, Thanh-Tu	146	9-10	Ballroom
MacDonald, Tate	53	3-4:30	Chancellor Room	Pherwani, Simran	127	9-10	Ballroom
Mackie, Andrew	66	all day	Foyer	Plesuk, Tabatha	84	all day	
Mah, Richard	115	9-10	Ballroom		04 5	10:15-11:45	Foyer Turner Valley Room
		9-10		Punjani, Neelam	5 72		
Maki, Claudia	97		Ballroom	Qureshi, Mosarrat		all day	Foyer
Mander, Inderdeep	34	3-4:30	Turner Valley Room	Raza, Sarah	144	9-10	Ballroom
Mangat, Avneet	200	1:45-2:45	Ballroom	Reklow, Robert	18	10:15-11:45	Consulate Room
Manz, Joren	174	1:45-2:45	Ballroom	Richter, Solina	87	all day	Foyer
Marani, Safia	95	all day	Foyer	Roshmi, Rohini Roy	154	9-10	Ballroom
Mason, Alleson	135	9-10	Ballroom	Roth, Daniela	14	10:15-11:45	Consulate Room
Matta, Mirna	94	all day	Foyer	Ruel, Nicholas	193	1:45-2:45	Ballroom
Meah, Victoria	29	10:15-11:45	Chairman Room	Ruiz, Martha	1	10:15-11:45	Turner Valley Room
Meherali, Salima	79	all day	Foyer	Saadat, Saba	116	9-10	Ballroom
Mella, Allison	136	9-10	Ballroom	Sacrey, Lori	68	all day	Foyer
Mevawala, Amynah	173	1:45-2:45	Ballroom	Sáez, Tamara	42	3-4:30	Leduc Room
Misita, Dragana	93	all day	Foyer	Saini, Jashan	230	1:45-2:45	Ballroom
Mitchell, Nikki	41	3-4:30	Leduc Room	Saini, Jasmeen	231	1:45-2:45	Ballroom
Mohseni, Mahsa	192	1:45-2:45	Ballroom	Sample, Dory	75	all day	Foyer
Moray, Amol	90	all day	Foyer	Sanchez Enkerlin, Annette		9-10	Ballroom
Morin, Estelle	225	1:45-2:45	Ballroom	Sanderson, Matthea	152	9-10	Ballroom
		0.40	Ballroom	Sanni, Omolara	114	9-10	Ballroom
Morin, Sarah	160	9-10					
Morin, Sarah Morris, Heather	3	9-10 10:15-11:45	Turner Valley Room	Saurette, Matthew	52	3-4:30	Chancellor Room
Morin, Sarah							



ALPHABETICAL LIST OF PRESENTERS

Shah, Prachi 177 1:45-2:45 Ballroom Shaha, Sumaiyah 189 1:45-2:45 Ballroom Shigemitsu, Sachie 126 9-10 Ballroom Shillington, Jessica 70 all day Foyer Simin, Irina 139 9-10 Ballroom Singh, Simran 145 9-10 Ballroom Skow, Rachel 11 10:15-11:45 Leduc Room Stretch, Kendyl 184 1:45-2:45 Ballroom Sung, Hyelin 229 1:45-2:45 Ballroom Tan, Qiming 159 9-10 Ballroom Teramachi, Yozo 129 9-10 Ballroom Teramachi, Yozo 129 9-10 Ballroom Thereza-Bussolaro, Claudine 204 1:45-2:45 Ballroom Thompson, Alexa 180 1:45-2:45 Ballroom Thompson, Alexa 180 1:45-2:45 Ballroom Truong, Linda 209 1:45-2:45 Ballroom Truong, Linda	Name	#	Time	Room
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Wingert, Aireen77all dayFoyerWollin, Bethany1009-10Ballroom	Wewala, Gayathri	124	9-10	Ballroom
Wollin, Bethany 100 9-10 Ballroom	Wine, Osnat	169	1:45-2:45	Ballroom
	Wingert, Aireen	77	all day	Foyer
Wong Jacon 10 10:15 11:45 Chanceller Been	Wollin, Bethany	100	9-10	Ballroom
13 10.13-11.43 Chancellot R0011	Wong, Jason	19	10:15-11:45	Chancellor Room
Wooldridge, Amy 181 1:45-2:45 Ballroom		181	1:45-2:45	Ballroom
Yaworski, Amanda 55 3-4:30 Chairman Room	Yaworski, Amanda	55	3-4:30	Chairman Room
Yoon, Kevin 151 9-10 Ballroom	Yoon, Kevin	151		Ballroom
Young, Kennedi 207 1:45-2:45 Ballroom	Young, Kennedi	207		Ballroom
Zare, Alaa 171 1:45-2:45 Ballroom		171	1:45-2:45	Ballroom
Zehnder, Emily 131 9-10 Ballroom	Zehnder, Emily	131	9-10	Ballroom

NOTES



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