

# ANNUAL REPORT 2015-2016



**BC INJURY** research and  
prevention unit

*Reducing the societal and economic burden of injury in British Columbia*

## ACKNOWLEDGEMENTS

We gratefully acknowledge the province-wide partnership between the Provincial Health Services Authority (PHSA), Child and Family Research Institute (CFRI), Evidence to Innovation Research Theme, BC Children's and Women's Health Centre, and the Department of Pediatrics, University of British Columbia (UBC) for their integral participation and contribution to the BC Injury Research and Prevention Unit (BCIRPU). Their continued involvement and support allows BCIRPU to continue to be a leader in the development of evidence-based prevention initiatives that build capacity in health authorities and that contributes to the improved health, well-being, and safety of British Columbians.



**a place of mind**  
THE UNIVERSITY OF BRITISH COLUMBIA



[www.injuryresearch.bc.ca](http://www.injuryresearch.bc.ca)

Cover Photos:

Photo 1: wavebreakmedia/Shutterstock.com

Photo 2: Zurijeta/Shutterstock.com

Photo 3: gorillaimages/Shutterstock.com

Photo Page 24: Jozef Sowa/Shutterstock.com

# BC INJURY research and prevention unit



Support Services ..... 7



Surveillance ..... 12



Research ..... 14



Knowledge Synthesis, Translation & Public Education ..... 21



Networks & Coalitions ..... 25

Revenues & Expenditures ..... 27

Awards, Grants, Publications & Conferences ..... 28

Other Contributions ..... 33

Organizational Structure ..... 35

***Reducing the societal and economic burden of injury in British Columbia.***

## Message from Director and Associate Director

Injury prevention is about the practices of populations, communities and individuals that minimize the risk of injury in order to safeguard their health and well-being and to reduce the need for health care services. It is recognized that individual and collective choices are strongly influenced by the social, economic and physical conditions where people live, work, learn and play. In order that injury prevention choices become a reality, enabling and supportive policy, programs and practices, and education must be in place at all levels in these environments.

In the 2015-2016 operating period, BCIRPU continued its successful program of injury surveillance and research. Highlights during this operating period included the completion of the Injury Prevention Casebook - making the case for investment in injury prevention as part of the promotion and development of healthier individuals, families and communities in BC. Work included the production of a support slide presentation, infographic and promotional video for Health Authorities. BCIRPU also continued its leading-edge work on the Concussion Awareness Training Tool (CATT), completing the module for teachers and educators, undertaking an evaluation of the module for parents, coaches and athletes, and producing regional concussion reports for each of the Health Authorities. BCIRPU also continued significant input to the completion of the PHO Report on Road Safety in BC, *Where the Rubber Meets the Road*, which was released in March of 2016. Finally, the work of the CIHR Team in Child and Youth Injury Prevention culminated with the release of the online resource, the Canadian Atlas of Child and Youth Injury Prevention ([www.injuryevidence.ca](http://www.injuryevidence.ca)).

We would like to thank the Provincial Health Services Authority for their guidance and support of the Unit, and welcome Trish Hunt as the new Senior Director, Health Promotion, Chronic Disease and Injury Prevention, following the retirement of Lydia Drasic.

We also extend thanks to the members of the BC injury Prevention Policy Advisory Committee, the BC Injury Prevention Alliance, and Health



Photo: altanaka/Shutterstock.com

Authorities for their ongoing cooperation, collaboration and input throughout the year. We extend our gratitude to Dr. Allison Eddy and the Department of Pediatrics, University of British Columbia, and to Dr. Wyeth Wasserman and the Child and Family Research Institute for providing the environment and ongoing resources that support our research efforts. Finally, we thank the various injury prevention communities, research institutes and NGOs for their collaboration and continuous support as key partners in building capacity to better address injury prevention in BC and beyond.

Dr. Ian Pike, Director

Dr. Shelina Babul, Associate Director

## Message from the Provincial Health Services Authority (PHSA)

PHSA, in partnership with the BC Ministry of Health (MoH), Child and Family Research Institute (CFRI), BC Children's Hospital and the University of British Columbia (UBC), continues to provide oversight and support to the BC Injury Research and Prevention Unit (BCIRPU) to ensure that the work plan and activities articulated in the memorandum of understanding between the MoH and PHSA are successfully completed.

The work of BCIRPU aligns with the PHSA's strategic direction of Promoting Healthier Populations, with the aim to prevent and reduce chronic disease and injury. BCIRPU aligns with the PHSA Population and Public Health (PPH) Program of BCCDC in a collaborative model to provide leadership for identifying, developing, implementing and evaluating primary and primordial prevention initiatives to prevent chronic disease. This partnership with BCIRPU expands the scope of the PPH program to include the important area of injury prevention.

BCIRPU has taken a leadership role in supporting PHSA and as an instrumental member of the provincial MoH Injury Prevention Policy Advisory Committee (IPPAC) to identify priorities and actions for the prevention of unintentional injury for BC. BCIRPU and IPPAC will continue to take an active role in establishing key health indicators for robust injury surveillance within the developing BC Observatory for Population and Public Health.

PPH has supported BCIRPU in the development of the BC Casebook for Injury Prevention. This innovative, online resource uses the latest evidence, novel data charts and infographics that make the case for injury prevention to assist Health Authorities and other injury stakeholders with decision-making, priority setting and planning to support public health and injury prevention in BC. Falls and injury prevention remains a key priority requiring dedicated resources with Megan Oakey, Provincial Manager for Falls and Injury Prevention joining PPH and BCIRPU.

She will continue the work of catalyzing joint action with many partners and stakeholders to build on the wealth of falls prevention expertise and gains in the province.

This annual report represents the significant accomplishments in injury surveillance, research, knowledge translation and public information by the BCIRPU throughout the 2015-2016 year. BCCDC, PHSA is pleased to be a partner that supports BCIRPU in its mission to reduce the societal and economic burden of injury in BC, and looks forward to continued collaboration on the opportunities ahead.



**Trish Hunt**

Senior Director, Health Promotion, Chronic Disease and Injury Prevention  
BC Centre for Disease Control, Provincial Health Services Authority

## BCIRPU AT A GLANCE

### Our Vision

To be leaders in the production and transfer of injury prevention knowledge and integration of prevention practices in the daily lives of British Columbians.

### Our Mission

Saving lives, reducing disability and promoting prevention.

### Background

BCIRPU is located at BC Children's Hospital and is a core research program within the Developmental Neurosciences and Child Health, Child & Family Research Institute. BCIRPU also serves as a training centre, and the staff at the Unit may hold faculty appointments at the University of British Columbia. BCIRPU was established as a strategic entity, blending the need for research and evidence with best practices and the development of policies and programs to reduce injury in BC.

### Our Role

To serve as a provincial 'hub' to provide research-based leadership and coordination to stakeholders in order to reduce the societal and economic burden of injury among all age groups in British Columbia.

Key objectives include:

- » Reducing the burden of injury in BC.
- » Leading research and knowledge development.
- » Improving surveillance.
- » Guiding evidence-based prevention.
- » Supporting professionals and practitioners.
- » Providing awareness, education and public information.

### Strategic Focus

- » Surveillance
- » Research
- » Knowledge Synthesis & Translation
- » Public Information

### Statistics

- » Presentations Given: 55
- » Newsletters Published: 6
- » Articles/Reports Published: 19
- » Media Requests: 28
- » Number of Teleconference/Webinar Participants: 134
- » Website Visits: 16,550 unique visitors
- » Collaborative Grants Awarded: \$2,450,090

### Funding & Support

BCIRPU operates as a province-wide partnership between the Provincial Health Services Authority (PHSA), Child and Family Research Institute (CFRI), Evidence to Innovation Research Theme, BC Children's and Women's Health Centre, and the Department of Pediatrics, University of British Columbia (UBC). BCIRPU is supported by core funding from PHSA, and competes for peer reviewed grants and contracts.



## SUPPORTING INJURY PREVENTION PROFESSIONALS

### Strategic Areas of Focus

#### Surveillance

Activities are reasonably consistent year to year, but will increase as new databases (e.g. BC Trauma Registry data) are incorporated into the surveillance system. Significant time and attention is required to clean and maintain the databases, to ensure security and utility, and to ensure that the data functions to serve the BCIRPU Injury Data Online Tool (iDOT ©).

#### Research

Activities are planned in advance through the grant writing process. Successful grants include sufficient resources for the required personnel and equipment and are undertaken to support the core deliverables work of the BCIRPU. Oversight and management for research is provided by BCIRPU principal investigators.

#### Knowledge Synthesis & Translation

Activities are ongoing and significant investments are made to gather and synthesize research evidence and develop meaningful communications for health authorities and other injury prevention researchers, practitioners and policy makers. Key activities to support knowledge synthesis include systematic reviews of the relevant literature, environmental scanning and meta-analyses. Translating the research evidence and information includes peer-reviewed publication, conference presentation, workshops and seminars, and face-to-face meetings. Translational research includes pilot testing and modeling.

#### Public Information

Activities include information and messages for the media and the general public. BCIRPU currently utilizes its website and newsletter to convey this information and messaging, and has created a strategic alliance with The Community Against Preventable Injuries (Preventable) to develop and implement professional social marketing campaigns.



Photo: Daniel Fung/Shutterstock.com

## SUPPORTING INJURY PREVENTION PROFESSIONALS

### A Provincial Hub

BCIRPU serves as the hub, providing leadership and coordination, for injury prevention initiatives in BC, and is directly aligned to support the needs of the MoH Service Plan in BC, the public health core model program needs of health authorities, the PHSA Population and Public Health priorities, as well as the needs of other stakeholders. BCIRPU provides ongoing support to BC health authorities, the BC Injury Prevention Policy Advisory Committee (BC IP-PAC) initiated in early 2014, and members of the BC Injury Prevention Alliance (BCIPA) in the development, implementation and evaluation of injury prevention plans and evidence-based initiatives in a way that best serves the client in order to enable cost-effective, evidence-based and targeted injury prevention policies, strategies and interventions.

BCIRPU assists health authorities and other stakeholders with:

- » Injury prevention program planning, development and evaluation.
- » Identification of key trends, issues and best practices.
- » Co-ordination and facilitation of injury surveillance.
- » Expert training in injury and falls prevention.
- » Research design, methods and analysis.
- » Research literature searches and synthesis.
- » Grant application development.

---

**BCIRPU helps health authorities and other stakeholders successfully meet the needs of the injury prevention program in public health, and to plan and implement injury prevention programs and initiatives.**

### The Centre of Excellence on Mobility, Fall Prevention and Injury in Aging / Centre for Hip Health and Mobility (CEMFIA)

In March 2013, the Ministry of Health entered into a partnership with the Centre for Hip Health and



Mobility (CHHM) to develop an innovative and effective plan to improve the health, mobility and quality of life of older British Columbians. Active Aging BC (ABC) is CHHM's program of province-wide activities strategically designed to address these interrelated aims by preventing falls and fall-related injuries, reducing sedentary time and increasing levels of physical activity.

Among the falls and injury prevention initiatives is the adaptation of the Strategies and Actions for Independent Living (SAIL) program for use by home support workers serving elders living on BC First Nations reserves. Under the leadership of Vicky Scott, activities include fall prevention training workshop for home support workers in 7 provincial regions, follow-up site visits to study implementation, development of Tai Chi instructional material,<sup>1</sup> a final summit, and adapted program delivery material to be hosted on FNHA website in Spring 2017.

---

<sup>1</sup> Tai Chi Moving for Better Balance: A Guide for Program Implementation (2011). US Centres for Disease Control National Centre for Injury Prevention and Control.



## SUPPORTING INJURY PREVENTION PROFESSIONALS

### PHSA Population and Public Health

Members of BC Injury Research and Prevention Unit (BCIRPU) and representatives of BC Health Authorities guided the design and development of the BC Casebook for Injury Prevention in 2015/16. Funded by the Provincial Health Services Authority, the Casebook assists Health Authorities (and other injury stakeholders) with decision-making, priority setting, planning processes and resource allocation for Injury Prevention in Public Health in BC.

It is a highly visual, online resource with useful charts and infographics. It includes 10 chapters that make the case for injury prevention in BC and 9 case studies that provide examples of injury prevention successes.

The target audiences for this resource are those with the responsibility for decision-making, priority setting, planning and resource allocation to support Public Health in BC – this includes those primarily in government and NGO sectors. Because effective injury prevention also includes

effective policy, the BC Casebook for Injury Prevention is aimed at politicians, senior bureaucrats and executive leaders in provincial and municipal government.

### The Canadian Atlas of Child & Youth Injury Prevention

The Atlas brings child & youth injury data together on one platform, allowing injury professionals, practitioners and policy makers to make informed and timely decisions to improve child and youth injury prevention in Canada. The Atlas details injury outcomes, risk factors and policies concerning national and provincial level injury mortality, hospitalization, drowning, and transport data. It also highlights the work of the CIHR Team in Child and Youth Injury Prevention.

[www.injuryevidence.ca](http://www.injuryevidence.ca)



## SUPPORTING INJURY PREVENTION PROFESSIONALS

### Map of Services

The role of BCIRPU is to coordinate communication among all the injury prevention leads within the Health Authorities, and to support opportunities for networking and communication. BCIRPU is represented on the Health Authority Injury Prevention Working Group, including providing injury prevention communications coordination.

During the 2015-16 operating period, BCIRPU provided the following support services to BC Health Authorities:

#### ■ Northern Health

- » Ongoing support for fall and general injury prevention.
- » Provided feedback regarding the injury chapter in the BC Child and Health Report.
- » Provided input specific to the infographics on Injury Casebook and Economic Burden of Injury in Northern Health.

#### ■ Vancouver Coastal Health

- » Regular participation in the VCH Regional Injury Prevention Committee.
- » Regular participation in the North Shore Injury Prevention Community Action Community.
- » Provided support to Program Lead for Injury Prevention with Trauma Services.
- » Provided guidance on the evaluation of the VGH Trauma SBIRT program.
- » Participated in the review and selection of submissions to the VGH Trauma Services Community Grants competition.
- » Responded to requests for data/information.

- Northern Health
- Vancouver Coastal Health
- Island Health
- Interior Health
- Fraser Health

#### ■ Island Health

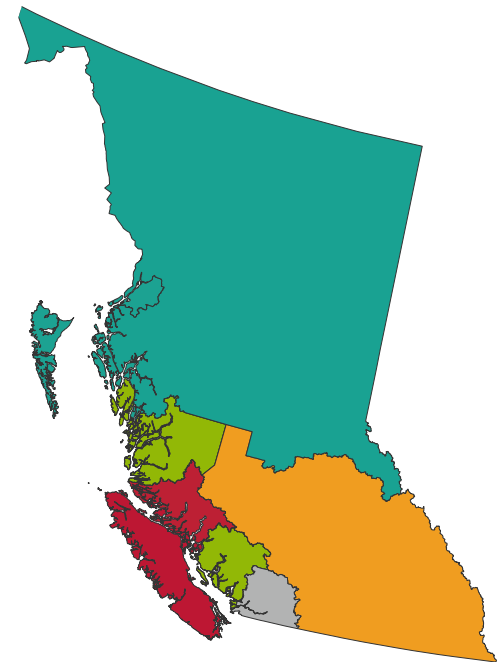
- » Ongoing support for fall and general injury prevention.
- » Coordinating with the Trauma Lead regarding organization and work plan for the Canadian Injury.
- » Prevention Curriculum workshop to be held in Victoria from December 15-16, 2016.
- » Working with the Trauma Lead regarding the report on injury profiles in Island Health.

#### ■ Interior Health

- » Ongoing support for fall and general injury prevention.

#### ■ Fraser Health

- » Regular participation in the Unintentional Injury Prevention Priority Action Committee.
- » Supported the Preventable concussion campaign:
  - <http://www.youblisher.com/p/1113648-Healthier-You-Spring-2015/> (page 8)
  - <http://news.fraserhealth.ca/News/April-2015/Before-you-think-you-can-just-shake-off-a-concussi.aspx>
  - <http://news.fraserhealth.ca/News/December-2015/If-you-think-only-pro-athletes-get-concussions.aspx>



- » Supported FH concussion awareness campaign and evaluation in South Surrey and White Rock, funded by Peace Arch Hospital Foundation, including baseball park, hockey arena and skateboard park.
- » Contributed an article to the Healthier You magazine on "Play"
  - <http://www.youblisher.com/p/1167339-Healthier-You-Summer-2015/> (page 24)
- » Supported contractor hired to work on strategic planning and assessment for/development of a proposal/implementation framework for a brief alcohol intervention program at RCH.
- » Responded to requests for data/information.

## SUPPORTING INJURY PREVENTION PROFESSIONALS

### The Community Against Preventable Injuries (Preventable)

The Community Against Preventable Injuries (Preventable) is a province-wide, multi-partner social marketing organization designed to raise awareness, transform attitudes, and ultimately change behaviours. Its goal is to significantly reduce the number and severity of preventable injuries in BC.

BCIRPU is a founding strategic partner of Preventable, and provides the evidence, the research and the evaluation behind its injury prevention social marketing campaign. Dr. Ian Pike serves as the spokesperson for Preventable and Drs. Shelina Babul and Mariana Brussoni have served as expert spokespersons on specific injury issues like concussion and play-related injuries.

In 2015/16, Preventable launched the “Seriously?” platform as part of their ongoing social marketing campaign. A new 30-second TV ad was aired and broken down into five shorter injury-specific segments all using the “Seriously?” tagline. The 15-second segments were made available for Public Service Announcement and digital use. Mobile Smartphone geofencing reached people at the moment of injury risk by providing messages on their phones at parks and beaches, ski hills and high crash intersections. The “Seriously?” message was displayed at map stands and transit shelters around the province and eight major ski hills displayed a helmet message on their chair lift bars. A ski hill activation and helmet contest took place at North Shore mountains in February. In addition to ongoing social media activity, articles about Preventable appeared in the Province, North Shore News, Vancity Buzz, Vancouver is Awesome and BC Living.



### BC Injury Online Directory

<http://www.injuryresearch.bc.ca/bc-injury-online-directory>

The BC Injury Online Directory was developed to feature injury prevention stakeholders working on similar priorities across BC, and to facilitate networking and collaboration among practitioners, policy-makers, researchers, service providers and community members. BCIRPU will continuously update and expand the map with current and potential injury prevention partners.

## IMPROVING INJURY SURVEILLANCE

### Understanding Injury Trends & Patterns

Injury surveillance is the ongoing collection, analysis, interpretation and timely dissemination of injury data. Surveillance is an important first step in reducing the burden of injuries and provides data necessary for government, health authorities and other stakeholders to understand the trends and patterns of injury in BC, for the purpose of informing injury prevention decisions and actions. It is important that a comprehensive, up-to-date and standardized surveillance system be maintained so that effective injury prevention initiatives can be developed and implemented.

BCIRPU operates the BC Injury Reporting System, providing injury statistics and information to the BC Ministry of Health, the members of the BC Injury Prevention and Leadership Action Network, the members of the BC Injury Prevention Policy Advisory Committee, as well as the Health Authority Injury Prevention Committee. BCIRPU conducts ongoing collection, analysis, interpretation and dissemination of high quality injury statistics and information related to emerging trends, identified gaps in the evidence, best practices and best buys. Data sharing agreements with various agencies and organizations ensures a comprehensive view of injury in BC, and the interactive Injury Data Online Tool (iDOT ©) allows direct interface with the surveillance data by users to produce customized tables, charts and maps.

### CHIRPP

BCIRPU operates the BC component of the Canadian Hospitals Injury Reporting and Prevention Program (CHIRPP) – an injury surveillance system funded by the Public Health Agency of Canada and operating at 17 hospitals across Canada. The program continues to amass extensive data and information on child and youth injury, which is used to inform injury prevention policy and programs.

### Injury Data Online Tool

Available via the BCIRPU website, the Injury Data Online Tool (iDOT ©) provides up-to-date surveillance data and information. Users select from multiple pull down menus to choose parameters and create the customized view of the injury mortality and injury hospitalization data

according to their needs. Numbers, rates and age-adjusted rates can be presented. Longitudinal and cross-sectional comparative data is available and can be further broken down by multiple specific parameters such as age, sex, region and injury type. The iDOT© also provides information on the number of hospital days, and the costs related to hospital treatment. Additions to the iDOT© include road safety data from the Traffic Accident Statistics (TAS) database provided by the Insurance Corporation of BC (ICBC); the inclusion of sports-related data using the Discharge Abstract Database, and the CHIRPP BC emergency department data. Data have been updated to the most recent years available.

[www.injuryresearch.bc.ca/resources/injury-data-online-tool-idot](http://www.injuryresearch.bc.ca/resources/injury-data-online-tool-idot)

### Google Analytics for the iDOT©

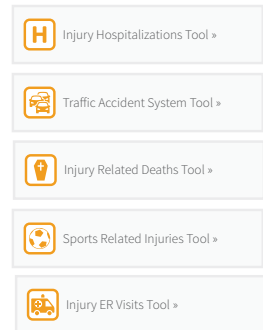
April 1, 2015 - March 31st, 2016:

**Page Views: 2,870**

**Unique Pageviews: 1,994**

**Average Time on Page: 2:28**

BCIRPU provides proactive advice to government, health authorities and other stakeholders regarding the trends and patterns of injury in BC.



## IMPROVING INJURY SURVEILLANCE

### Concussion Among Children & Youth

We developed reports for each of British Columbia's five Health Authorities for the purpose of providing details on the burden of concussion hospitalizations among children and youth in BC.

Each report targets health care providers and community stakeholders in their respective health authorities to be used to facilitate discussion of the need for standardized concussion prevention, diagnosis and management, specific to children and youth.







## GUIDING EVIDENCE-BASED PREVENTION

### Research and Knowledge Development Services

With expertise in injury epidemiology, health promotion and education, psychology, kinesiology, preventive medicine and public health, BCIRPU provides applied injury research and knowledge development leadership and support to government, health authorities, PHSA Population & Public Health, and other stakeholders. As well as its continuing program of injury research and knowledge translation, BCIRPU assists health authorities and stakeholders with:

1. Research design, methods and analysis.
2. Research literature searches and knowledge synthesis.
3. Identification of key trends, issues and best practices.
4. Grant application development and review.
5. Injury prevention program planning, development and evaluation.

**BCIRPU works with health authorities and other injury stakeholders to plan, implement and undertake injury research and evaluation projects.**



Photo: Rawpixel/Shutterstock.com

### The CIHR Team in Child and Youth Injury Prevention (CIHR funded project)



The Team is a unique collaboration of interdisciplinary researchers and partners who have a common purpose—to generate new knowledge for stakeholders who develop and deliver policy and programs, and advocate for children and youth in Canada. The Team has now completed its 5-year funding term under the direction of co-Principal Investigators Drs. Ian Pike (UBC) and Alison Macpherson (York).

Since 2010, the Team has published 143 papers, 5 chapters, 4 technical reports, delivered 185 invited presentations to stakeholders, and national/ international academic conferences and leveraged an additional \$8.6 million in grant funds. Outcomes include: evidence-based products and tools; knowledge-user partnerships; provision of injury data to practitioners and policy makers; capacity building, nurturing and collaboration across the injury prevention community; effective knowledge translation (KT); and an extensive trainee mentorship and training program (more than 60 trainees supported since 2010). This resulted in advancements in knowledge; health impacts; and improved policies.

### Advancements in Knowledge

The Canadian Atlas of Child and Youth Injury Prevention ([www.injuryevidence.ca](http://www.injuryevidence.ca)) addresses a recommendation that Canada choose a set of indicators comparable across institutions and organizations to monitor injury. It provides a visual overview of data trends and patterns to gain insight into how the child and youth injury prevention system is working in Canada. This information will inform the development of injury prevention research and activities—including policy and legislation, prevention programs and evaluation of new strategies—supporting practitioners, policy makers and researchers to make timely evidence-based decisions about child and youth injury prevention improvements, and to assess and monitor those decisions over time.





## GUIDING EVIDENCE-BASED PREVENTION

A report titled *Injury Among Young Canadians: a National Study of Contextual Determinants*, the first of its kind in Canada, found that the contexts where young people learn, live and play have a significant impact on their injury experiences. Potential health inequities were found, with higher injury risks among those residing in group-homes/foster care, youth who are bullied, or youth living in rural settings.

The Canadian Pediatric Trauma System study investigated how well the system is able to ensure the right patient receives the right treatment at the right time, highlighting the importance of location as a variable in injury research. This work led to a call for a mechanism to systematically collect place of injury in injury research.

The Team's Child Pedestrian studies used innovative virtual reality (VR) technology to reveal that children show much more evasive action when crossing a street in traffic than previously thought; sustained attention, working memory and executive functioning all matter to child crossing behaviours.

Beginning with a debate at the 2012 Team meeting, followed by a 2013 symposium, interest in healthy risk taking for children has risen in Canada during the 5-year term of the Team. A systematic review highlighted the importance of risky play as a necessary ingredient for healthy child development and explored the idea that keeping children safe involves letting them take and manage risks.

### Health Impacts

The Burden of Injury longitudinal study found that most injured children recuperate quickly regardless of injury severity, with no significant differences with baseline status by four months post-injury. The results of this study can be used to identify the small portion of children at high risk of experiencing ongoing diminished health related quality of life resulting from injury.

The Sports Injury research program investigated neuromuscular training warm-up programs and found that coach delivered sport-specific neuromuscular training interventions facilitated behaviour change in

youth soccer players. In soccer and basketball the risk of injury was reduced by 36%.

Teen driving research examined parental influences, validated a new measure of Teen Risky Driving and implemented a virtual driving research program. Parent modeling of risky driving significantly predicts teen engagement in risky practices, and this modeling overrides efforts by parents to teach youth to drive safely and avoid risky driving practices.

The First Nations Demonstration Project partnered with the Ahkwesahsne First Nation to further child and youth injury prevention priorities. Data from the community-driven sustainable injury surveillance system was analysed in partnership with the Ahkwesahsne Mohawk Board of Education to improve their capacity to track injuries and act upon changes in injury trends/patterns.

### Informing Decision Making

A specific focus on policy research resulted in improved understanding of the elements related to successful policies and the interaction with injury risk factors and outcomes. The work of the Team led to impactful policy changes:

1. After several comparative studies of injury rates among young hockey players, Hockey Canada banned all body-checking from Peewee levels. According to the University of Calgary, it is anticipated that this will prevent 5,000 injuries and 1,500 concussions each year.
2. Similarly, in an effort to reduce concussions, BC Hockey passed a resolution that all BC hockey team officials must be qualified in the Concussion Awareness Training Tool (CATT) prior to participation in any practice/game. Further, BC sporting organizations and schools are beginning to mandate CATT for coaches, parents and school professionals.
3. Ski/snowboard helmets and wrist guards were found to significantly reduce head and wrist injuries. This research formed the basis for developing ISO product standard to ensure ski/snowboard wrist guards offer minimum level of protection. Findings also contributed to a) Nova Scotia passing the first mandatory ski/snowboard helmet law in Canada and b) Quebec implementing mandatory guidelines for terrain park design to protect skiers/snowboarders.



## GUIDING EVIDENCE-BASED PREVENTION

### Road Safety and Motor Vehicle Injury

Traffic collisions continue to be a major cause of injury and death among British Columbians. Research to reduce traffic related injuries and deaths, and to reduce the burden on our health care system is essential. BCIRPU has been engaged in a number of initiatives to reduce motor vehicle crashes in BC and Canada.

These include:

1. Evaluation of traffic safety interventions in BC – to assist in understanding the impact of BC traffic safety laws on safety improvements in terms of injury and fatality reduction.
2. Actively involved with RoadSafetyBC to achieve a set of motor vehicle crash reduction targets in BC for 2016.
3. Currently engaged with the Canadian Council of Motor Transport Administrators (CCMTA) to create best evidence recommendations to enhance vulnerable road user safety.
4. The AUTO21 Network of Centres of Excellence funded projects:
  - » Fatal child injuries in real world crashes (more details in page 20).
  - » The “ejection stereotype” project, a collaboration with the Laboratory for Rational Decision Making at Cornell University, seeks to explain why some parents underestimate the benefit of booster seats.



Photo: Zeynep Demir/Shutterstock.com

### Seniors' Fall and Injury Prevention

**BC Falls and Injury Prevention Coalition (BCFIPC)** – The Coalition's Chair moved to Fraser Health Authority under the leadership of Dr. Fabio Feldman, while the Secretariat remained at BCIRPU. The main activity for 2015 was expanding the BC Seniors' Falls Awareness Prevention Week to run the entire month of November. Campaign ads were displayed on transit, in newspapers and magazines, as well as launching the permanent [www.findingbalancebc.ca](http://www.findingbalancebc.ca) website.

The campaign focused on four key messages adapted from the US Center for Disease Control:

- keep your body active
- have your eyes checked by an optometrist once a year
- make your home safer
- have your doctor or pharmacist review your medications.

A post campaign survey was conducted and responses will inform the 2016 campaign. New and ongoing fall and fall-related injury prevention projects are conducted and shared among coalition members.

**Canadian Falls Prevention Curriculum (CFPC)** – Offered as a five week on-line course through the University of Victoria, the CFPC was held in April, May, September and October in 2014, as well as in February 2015. In-person workshops are also planned and delivered, including the First Nation Adaptation initiative as part of the SAIL program. The course textbook, *Fall Prevention Programming: Designing, Implementing and Evaluating Fall Prevention Programs for Older Adults* (2012) is under revision with an anticipated publication date of late 2015. The CFPC website is available and includes promotional flyers and dates of upcoming e-learning sessions: <http://www.canadianfallprevention.ca/>.

**Primary Care Fall Prevention Multimedia Training** - Primary Care Fall Prevention Multimedia Training – Ongoing distribution of a multimedia package for family physicians and clinicians. This is available on the General Practices Service Committee website for physician training resources in BC under “Fall Prevention Resources” at <http://www.gpsc.bc.ca/what-we-do/professional-development/psp/modules/chronic-disease-management/tools-resources>





## GUIDING EVIDENCE-BASED PREVENTION

### Parenting and Injury Prevention

#### **CHILDS Play (Creating Health Inspiring Landscape Designed Spaces for Play)**

Risky play meets nature play (funded by the UBC Hampton Fund) involved an intervention study where we modified two childcare playgrounds to include natural elements and risky play opportunities. By collecting data on the same 45 children before and after the intervention, we examined how the changes influenced children's play activities, health and well-being. Play worth remembering (funded by the Peter Wall Institute for Advanced Studies), a survey study with 600 participants, examined adults' perceptions of their favourite play memories, as well as their attitudes toward contemporary play spaces. Levelling the playing fields (funded by CIHR) was a planning grant that facilitated international partnership development and collaboration on risky play opportunities and ultimately led to a funded CIHR grant application.

Further research on risky play has included extensive guest lectures and workshops, as well as a national collaboration to develop a Position Statement on Active Outdoor Play that has resulted in the publication of two systematic reviews. The Position Statement was released as part of ParticipACTION's 2015 annual report card on Physical Activity for Children and Youth.

#### **Canadian Fathering and Unintentional Injury Prevention** (funded by CIHR)

We interviewed fathers and mothers from 60 families living in urban and rural BC and Quebec to examine their attitudes and approaches to children's injury prevention and risk engagement. We explored the influence of perceptions of masculinity, gender roles and contextual factors. To date, 5 peer-reviewed papers have been published, and another is under review.

#### **Fathers Risk Engagement and Protection Survey (REPS)** (funded by BCCH Telethon)

The purpose of this study is to develop and validate a survey instrument to provide a risk engagement and protection profile for fathers in their approach to injury prevention of their children. Fathers of children 6-12 who have attended BC Children's Hospital are recruited. Survey questions addressed fathers' attitudes and practices towards protective strategies to reduce injury risks.

### Research: Long Term Sequelae of Injury

#### **Child & Youth Burden of Injury Study** (funded by CIHR and MSFHR)

This study examined the burden of injury among Canadian children and youth, and post-injury experiences from individual, health services, economic and societal perspectives. Questionnaires assessing injury and health related quality of life were collected at four different time points over the period of one year. A total of 360 families of children who had attended BC Children's Hospital for an injury participated in this study. Findings indicate that 40% of children are still affected by their injury one month later, but by four months post-injury, health related quality of life had returned to pre-injury state for 89% of participants, regardless of injury severity. The results highlight children's resilience to injury and the need to focus prevention efforts on a small subset of serious childhood injuries, while continuing to encourage active lifestyles.

#### **Exploring the impact of post-traumatic stress on the family system following a child's injury** (funded by BCCH)

Using qualitative methods, this study explored the impact of injury on emotional, psychological and social functioning of 25 children (ages 5-12 years) who had attended BC Children's Hospital for an injury, and their families. Parents are interviewed separately from children who are interviewed using a "Draw and Write" method. Findings confirm the resilience of children to injury experience, but indicate that parents may need support in managing their own stress related to the child's injury experience.



## GUIDING EVIDENCE-BASED PREVENTION

### Sport and Recreation Injury Prevention

#### Concussion Awareness Training Tool (CATT)

[www.cattonline.com](http://www.cattonline.com)

The goal of CATT is to standardize practice for the recognition, diagnosis, treatment and management of concussions within BC. The objective is to develop, pilot, evaluate and disseminate Concussion Awareness Training toolkits across the province.



CATT for Medical Professionals (MP) launched in April 2013, CATT for Parents, Players and Coaches (PPC) launched in July 2014, and CATT for School Professionals (SP) launched in February 2016. Each of the three toolkits was evaluated to determine if:

- » Knowledge, attitudes and practices are improved among physicians and nurses (CATT MP)
- » Knowledge and attitudes are improved among parents and coaches (CATT PPC)
- » Knowledge and attitudes are improved among school professionals (CATT SP)

The content for the CATT toolkits was developed through expert consultations with extensive external review and feedback. CATT components include:

- » Online training courses (MP: Mainpro M2 credits/ PPC & SP: certificate)
- » Adult-SCAT3 and Child-SCAT3 (MP)
- » Return to Learn Protocol
- » Return to Play Communication Tool
- » Links to clinical resources, evidence-based journal articles, websites
- » Case studies and videos that include expert talks and in-office assessments (MP)
- » Smartphone accessible/printable resources such as a *Concussion Response Tool* and *Questions to Ask Your Doctor*
- » Frequently Asked Questions

Statistically significant results were found, demonstrating a positive change in:

- » Practices among physicians ( $p=0.001$ )
- » Attitudes among nurses ( $p=0.035$ )
- » Practices among nurses ( $p=0.055$ )
- » Knowledge among parents ( $p=0.007$ )
- » Knowledge among school professionals ( $p=0.027$ )

Future enhancements to CATT will include:

- » Language translation (French, Punjabi, Mandarin)
- » Revisions to CATT MP
- » Supplements on mood changes, sleep hygiene, headaches
- » Increased focus on Mental Health

Knowledge translation strategies for each of the three CATT toolkits continue to be implemented.

#### **CRIO Hockey Research Study - Evaluating the effect of body-checking policy change in youth ice hockey players**

The Collaborative Research and Innovation Opportunities (CRIO) study is one of the largest multi-centre concussion research studies in Canada. Involving UBC, U of Calgary and U of Alberta, this study seeks to evaluate concussion risk in youth ice hockey. A few years ago, Hockey Canada passed a policy change to delay body checking until the Bantam (ages 13-14) level of play throughout Canada, which removed body checking from youth hockey at the Pee Wee (ages 11-12) level starting in the fall of 2013. Implemented in the 2012/2013 season, BC Hockey has banned body checking in non-elite levels in Pee Wee through Midget.

The goal of this study is therefore to evaluate a significant policy change, prospectively, in non-elite leagues including a broader age group (ages 11-17), where participation rates are high and the public health burden is the greatest. Serving as a satellite site for the study along with Edmonton and Kelowna, we were successfully able to recruit 29 Bantam hockey teams from the Vancouver lower mainland during 2014/2015 minor hockey season and this past year, 2015/2016, we were successful in recruiting 40 Midget hockey teams in the lower mainland.



## GUIDING EVIDENCE-BASED PREVENTION

### Other Research Partnerships

#### The Period of PURPLE Crying Program - Shaken Baby Syndrome Prevention

The *Period of PURPLE Crying*® program has been implemented in British Columbia province-wide since January, 2009. *PURPLE* program education and materials are delivered to parents of BC's nearly 45,000 annual births via three doses: 1) maternity services, 2) public health services and a 3) public education campaign which launched in June, 2010.

The *PURPLE* program has been institutionalized in 48 birthing hospitals, 110 public health units, several midwifery clinics and various provincial community agencies including pregnancy outreach, infant development, Aboriginal support, foster parent support and adoption groups.

Program updates as of March 31, 2016:

- » 1,677 foster parents completed *PURPLE* program training via online modules;
- » 955 MCFD staff completed training via online modules and compact disc;
- » 919 nursing, midwifery and community support students from 13 post-secondary institutions completed training online as part of their required assignments;
- » 130 First Nations communities received program resources; and,
- » 4,160 maternity and public health nurses have completed *PURPLE* program training.



### BC Coroner's Service

#### The Canadian Agricultural Injury Reporting (CAIR) Program

CAIR is an integrated national surveillance project of the Canadian Agricultural Safety Association that guides and informs the national Agricultural health and safety agenda. The objectives of CAIR are to develop a coordinated system with all provinces for the assembly of provincial agricultural injury surveillance data and to ensure that the collected information is interpreted and communicated in forms that are useful to potential data users in the agricultural industry. BCIRPU represents the BC collaborative and works in conjunction with the BC Coroner's Service to collect fatality data on agricultural deaths.

#### The AUTO21 Network of Centres of Excellence Project

The study aims to better understand the social, environmental and physical factors that surround fatal injuries in real world crashes. The University of Toronto, Western University and the University of Windsor are partners in this study. Data on child passenger and pedestrian fatalities have been abstracted from reports by the Office of the Chief Coroner for Ontario and the British Columbia Coroners Service. Analysis of child occupant fatalities in side impact collisions is currently underway and a comparison between provinces of fatal young driver collisions is in the planning stages. A recent study published in the *BC Medical Journal* described the context of fatal injuries to teen drivers and motorcyclists across the province. Speed, impairment and nighttime driving were common factors in these collisions, with some regional variability. In addition, these data were analyzed at the request of the Child Death Review Unit (CDRU) of the British Columbia Coroner's Service. The CDRU published their report, available online, in February 2015 and is available at: <http://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/death-investigation/child-death-review-unit/reports-publications/young-drivers-deaths.pdf>



## IMPROVING INJURY AWARENESS &amp; KNOWLEDGE

## Overview

With expertise in injury epidemiology, health promotion and education, psychology, kinesiology, preventive medicine and public health, BCIRPU keeps current of the best prevention practices in BC, throughout Canada, and in other countries around the world by reviewing literature on injury prevention interventions and by networking with local, regional, national and international injury prevention partners. BCIRPU completes in-depth analyses of current interventions in order to identify those with proven success and transfers this knowledge to government, health authorities, the PHSA, and other stakeholders.

BCIRPU assists health authorities and stakeholders with:

1. Literature searches and knowledge synthesis.
2. Identification of key trends, issues and best practices.
3. An interactive injury website ([www.injuryresearch.bc.ca](http://www.injuryresearch.bc.ca)).
4. An online interactive injury surveillance data tool (iDOT®).
5. Injury prevention teleconference seminar series.
6. Customized injury prevention presentations, workshops and seminars.
7. Injury prevention fact sheets and public information tools.
8. Formal injury prevention training curricula (CIPC, CFPC).

BCIRPU helps health authorities and other injury stakeholders successfully build capacity in education and training programs, conferences, seminars, workshops and public education and social marketing campaigns.

## The Canadian Injury Prevention Curriculum

The Canadian Injury Prevention Curriculum (CIPC) focuses on injury prevention, control theory and practice. It is the first curriculum of its kind that is targeted to community-based public health and injury prevention practitioners, and is built on Canadian content and uses Canadian examples to illustrate injury prevention concepts. The course is also available as a 2-day workshop geared towards researchers and injury prevention professionals who practice injury prevention in the community.



## The Canadian Falls Prevention Curriculum

The Canadian Falls Prevention Curriculum (CFPC) focuses on the prevention of falls and fall-related injury in older adults. Developed, piloted and launched in BC, CFPC is the first curriculum of its kind that is targeted to community-based public health and injury prevention practitioners. The CFPC can be delivered as a 2 to 3-day workshop or as an e-learning on-line course. During the 2015-2016 operating period, BCIRPU coordinated the delivery of two CFPC e-learning courses and continued its ongoing national coordination of the program. In addition, BCIRPU coordinated the delivery of a CFPC course at the University of Northern BC (UNBC).



## Canadian Injury Prevention Curriculum / Canadian Falls Prevention Facilitator Training Workshop

This workshop is geared to training and mentoring individuals who have taken either of the two curriculums so that they are able to facilitate and conduct their own workshops.



## IMPROVING INJURY AWARENESS & KNOWLEDGE

### BCIRPU Website

#### BCIRPU Website Google Analytics April 1, 2015 - March 31, 2016:

[www.injuryresearch.bc.ca](http://www.injuryresearch.bc.ca)

- » 16,550 sessions; 11,951 users
- » 37,556 page views
- » 2:17 average session duration
- » 2.27 pages per session
- » 70.4% (11,650) new visitor sessions
- » 29.6% (4,900) returning visitor sessions
- » 143 people visited the site 101-200 times within the year

#### Traffic Sources:

- » Search engines/organic = 53.6%
- » Direct traffic = 24.7%
- » Referring sites = 20.2%

#### Pages with the Highest Traffic:

- » Homepage (7,464 visits; avg. duration: 1:09 minutes)
- » Quick Facts/Falls Prevention (1,514 visits; avg. duration: 4:26 minutes)
- » Education/CATT (1,508 visits; avg. visit duration: 3:51)

### BCIRPU Webinar Series

During the 2015-2016 operating period, BCIRPU continued to deliver an informative Injury Prevention Webinar Series. Seven seminars were provided by leading experts in the field, with a total of 134 participants joining by telephone to listen and discuss:

1. May 21, 2015 | Dr. Shelina Babul  
The Invisible Epidemic of Concussions: What we need to do!
2. July 16, 2015 | Fire Chief Len Garis  
Smoke Alarms Work But Not Forever
3. September 17, 2015 | Dr. Belinda Gabbe  
Challenges and Advances in Measuring the Burden of Injury

4. November 19, 2015 | Dr. Ian Pike  
Injury Prevention Casebook
5. January 28, 2016 | Ms. Lu Ripley  
Suicide Prevention: How a Community Can Work Together
6. March 17, 2016 | Drs. Alison Macpherson and Ian Pike  
The Canadian Atlas of Child & Youth Injury Prevention

### BC Seniors' Fall Prevention Awareness Week 2015

The first Fall Prevention Week was held in 2007. It has, subsequently, been held every year across British Columbia during the first week of November running from Monday to Sunday with participation from regions across BC. The Proclamation is approved and issued by the Lieutenant-Governor of British Columbia each year.

The BC Seniors' Fall Prevention Awareness Week was held November 2 to 8, 2015. This year saw the direction move to a provincial campaign-based approach and the campaign ran all November 2015. This week is hosted by the British Columbia Falls & Injury Prevention Coalition (BCFIPC), and the campaign was worked on by a subgroup of the Coalition with input from all members and included consultation with BC Patients' Voices Network.

The campaign raised awareness on four key messages adapted from the US Center for Disease Control:

1. Keep your body active.
2. Have your eyes checked by an optometrist once a year.
3. Make your home safer.
4. Have your doctor or pharmacist review your medications.

Campaign ads were displayed on transit, newspapers, and magazines as well as launching the [www.findingbalancebc.ca](http://www.findingbalancebc.ca) site which is maintained. A post campaign was undertaken, with responses to be used to inform the 2016 campaign.

The website [www.findingbalancebc.ca](http://www.findingbalancebc.ca) was launched as part of the campaign developed in partnership with Finding Balance Alberta. The website will be maintained.



## IMPROVING INJURY AWARENESS & KNOWLEDGE

### Education and Public Information

#### National Teen Driver Safety Week 2015

Teen driver safety is a significant issue in Canada - while young people only make up 13% of licensed drivers, they account for approximately one quarter of all road-related injuries and fatalities. Most of these injuries and deaths can be prevented. National Teen Driver Safety Week coordinated nationally by Parachute promotes awareness through youth and community engagement. Monday October 19<sup>th</sup> to Sunday, October 25<sup>th</sup> 2015 was proclaimed as “National Teen Driver Safety Week” in the Province of British Columbia. BCIRPU collaborated with Health Authority Injury Prevention partners and other injury prevention organizations to increase awareness on teen driver safety across BC.

#### Injury Insight

BCIRPU produces *Injury Insight*, a periodic injury prevention newsletter focused on injury issues of interest in BC. During the 2015-2016 period, fact sheets were produced on concussion as well as longboarding and skateboarding injuries.

**BC INJURY** research and prevention unit

**Injury Insight**

Concussion statistics<sup>1</sup> across BC Health Authorities among children & youth

Concussions are the most common form of brain injury yet this significant health issue is most often under-reported due to a lack of education and awareness among the general public. With subsequently limited and inconsistent concussion data, there is a strong need for standardized concussion prevention, diagnosis and management specific to children & youth in order to address the burden of this injury.

Evidence suggests that children and youth are at greater risk of concussion and more serious brain injury than the general population, take longer than adults to recover following a concussion, and that concussions can permanently change the way a child or youth talks, walks, learns, works and interacts with others.

Concussion management and appropriate return to activity is crucial, particularly in the paediatric and adolescent population. This may include physiotherapy, occupational therapy, educational support, neuropsychology and in some cases neuropsychiatry. It is important to note that an individual is 3 times more likely to sustain a second concussion while recovering from the first concussion. Furthermore, while a rare occurrence, a condition known as second impact syndrome may occur if a second injury to the brain is sustained within a day or two after the first concussion. This can lead to swelling of the brain that can result in damage, causing severe disability and in a few cases even death.

Across BC **CYCLING** was the main cause of **SPORT-RELATED CONCUSSION HOSPITALIZATIONS**

**TRANSPORT-RELATED** concussion hospitalization was **HIGHEST** among **15-19** year olds across all **HEALTH AUTHORITIES**

**CONCUSSION HOSPITALIZATIONS** Rate per 100,000

**BC INJURY** research and prevention unit

**Injury Insight**

**ER-Related longboarding and skateboarding injuries**

A fair amount of research exists for skateboarding injuries, but research specific to longboarding injuries is still lacking despite its increase in popularity.<sup>1</sup> Injuries for both skateboarding and longboarding are commonly due to falls, resulting in upper and lower extremity injuries and head injuries.<sup>1-3</sup> More recently, longboarding has resulted in deaths and severe injuries in Canada.<sup>4,5</sup> Because of this, some municipalities have begun to implement restrictions on longboarding.<sup>6</sup>

**Purpose of this Insight**

To provide an overview of longboarding and skateboarding injuries among children and youth 0-19 years old presenting at the emergency room (ER) at BC Children's Hospital (BCH) using the Canadian Hospital Injury Reporting and Prevention Program (CHIRPP) data from 2011-2013.

**Existing Research Shows**

- The majority of injuries due to longboarding and skateboarding are among males.<sup>1,2</sup>
- Among females, there are more injuries due to longboarding compared to skateboarding.<sup>1</sup>
- The mean age of the injured longboarders is 14.3 years of age and 12.7 years of age for skateboarders.<sup>1</sup>
- Longboarding injuries occur most commonly on roads and streets, and rarely in skate parks.<sup>1</sup>
- Injuries for non-motorized wheeled activities, such as longboarding and skateboarding, peak in the summer months between July and September.<sup>1</sup>
- Upper extremity injuries are most common for both longboarding and skateboarding.<sup>1,2,3</sup>
- Head and neck injuries are more common in longboarding as compared to skateboarding.<sup>1</sup>
- The most common mechanism of injury for non-motorized wheeled activities is due to falls.<sup>1</sup>

**DEFINITIONS**

Longboarding is a classification of skateboarding that has gained popularity since the early 1990s.<sup>7</sup> There are distinct differences between longboarding and skateboarding, such as the board shape, size and function. Longboards are longer in length, generally 36 to 60 inches whereas skateboards are no longer than 33 inches in length. The long narrow shape and large diameter of the longboard's wheels allow for greater speeds with more stability compared to skateboards.<sup>7</sup>

- The prevalence of helmet use is similar for both longboarders (29.8%) and skateboarders (33.4%).<sup>1</sup>
- Helmets are more likely to be worn if there is a legislation in place.<sup>8</sup>

**Results**

- There were a total of 291 cases from longboarding and skateboarding presenting at BCH from 2011-2013.
- Falls were the most common reported mechanism of injury for both longboarding (88.6%) and skateboarding (90.1%).

**FIGURE 1**  
Percentage of ER Visits by Location\*\* of injury, BCH, 2011-2013

Note: Data were included when location was not indicated  
\*\*see footnote for more details







## SUPPORTING INJURY NETWORKS & COALITIONS

### Co-operation and Collaboration

In order that injury prevention activity in BC is successful, a multi-sectoral, interdisciplinary approach is necessary. BCIRPU is supported by a province-wide partnership between the Developmental Neurosciences and Child Health cluster at the Child and Family Research Institute (CFRI), BC Ministry of Health (MoH), Provincial Health Services Authority (PHSA), and the University of British Columbia (UBC). BCIRPU is accountable to each of these partners, as well as through the active participation and involvement of these and other clients and constituents it serves.

BCIRPU has established strong strategic relationships with many provincial, national and international agencies and organizations that allow it to draw on a wide variety of resources and expertise that builds capacity and better addresses injury prevention in BC.

BCIRPU serves as a hub, and plays a central role in coordinating and leading injury prevention initiatives throughout the province and across Canada. BCIRPU provides leadership and support to government, health authorities, and other stakeholders, including the extensive networks and coalitions that these organizations participate in.

---

**BCIRPU serves as a hub, and plays a central role in leading and coordinating injury prevention networks and coalitions throughout British Columbia.**

### Networks and Coalitions

In addition to participating in strategic provincial, national and international networks, during the 2015-2016 operating period, BCIRPU directly supported:

#### **Provincial Health Services Authority (PHSA) - Population & Public Health**

**BC Injury Prevention Policy Advisory Committee** — providing coordination and secretariat support.

**BC Injury Prevention Alliance (BCIPA)** — providing coordination and secretariat support.

**BC Falls and Injury Prevention Coalition** — providing coordination and secretariat support.

**The Community Against Preventable Injuries (Preventable)** — providing injury prevention expertise, leadership and spokesperson to the injury prevention social marketing campaign.

**BC Sports and Recreation Injury Prevention Advisory Committee** — providing leadership, coordination and secretariat support.

**BC Concussion Advisory Network** — providing leadership, coordination and secretariat support.

**BC Motor Vehicle Injury Data Measurement Group** — providing injury data analysis expertise.

**Parachute** (an amalgamation of Safe Communities Canada, Safe Kids Canada, SMARTRISK and ThinkFirst Canada) — providing provincial leadership and coordination under the renewed MOU.

#### **Healthy Active Living & Obesity Research Group (CHEO)**

#### **ParticipACTION**

#### **Child & Nature Alliance of Canada**

## SUPPORTING INJURY NETWORKS & COALITIONS

### Key Partnerships

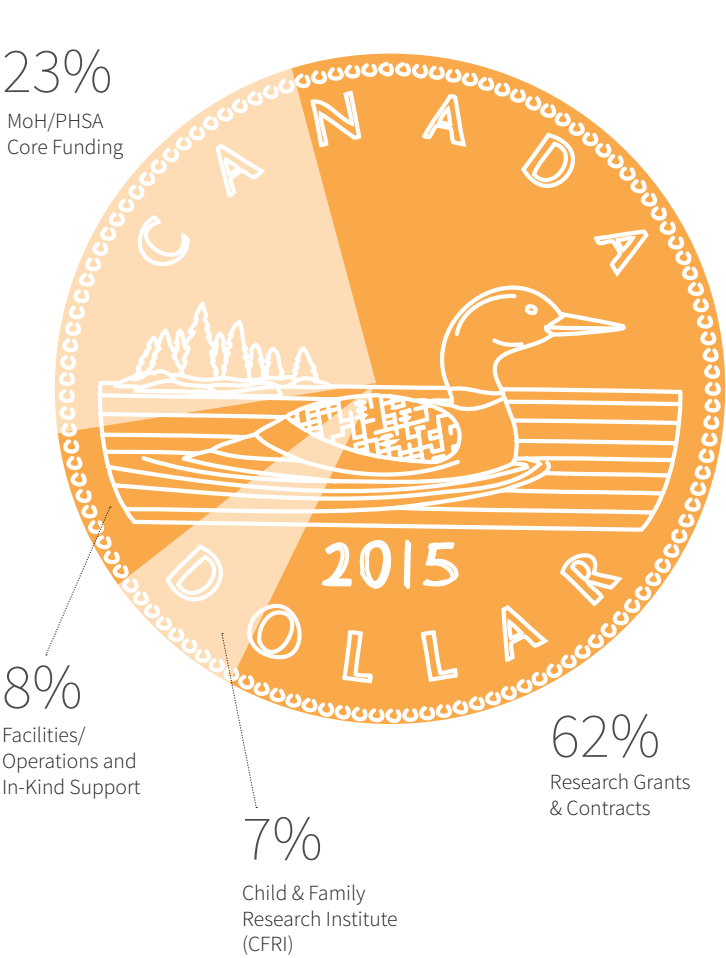
In the 2015-2016 operating period, BCIRPU worked with the following key partners:

- » Alberta Centre for Injury Control and Research
- » BC Ambulance Service
- » BC Automobile Association
- » BC Coroners Service
- » BC Drug and Poison Information Centre
- » BC Falls and Injury Prevention Coalition
- » BC Hockey
- » BC Injury Prevention Centre
- » BC Injury Prevention and Leadership Action Network
- » BC Medical Association
- » BC Ministry of Health
- » BC Ministry of Public Safety and Solicitor General
- » BC Regional Health Authorities
- » BC Road Safety Foundation
- » BC Sport and Recreation Injury Prevention Advisory Committee
- » BC Concussion Advisory Network
- » Brain Injury Association of Canada
- » BrainTrust Canada
- » Canadian Red Cross
- » Canadian Standards Association
- » First Nations and Inuit Health Branch
- » Football BC
- » Fortius Sport & Health
- » Health Canada
- » Hockey Canada
- » Insurance Corporation of British Columbia (ICBC)
- » Occupational Health and Safety Agency for Healthcare
- » Parachute
- » Provincial Health Services Authority
- » Public Health Agency of Canada
- » RCMP E-Division
- » Safe Communities
- » Saskatchewan Government Insurance
- » SportMedBC
- » The Community Against Preventable Injuries (Preventable)
- » The Djavad Mowafaghian Centre for Brain Health
- » ThinkFirst BC (now Parachute)
- » University of British Columbia
- » University of Calgary – Sport Injury Prevention Research Center
- » Vancouver General Hospital Trauma Services
- » WorkSafeBC
- » York University

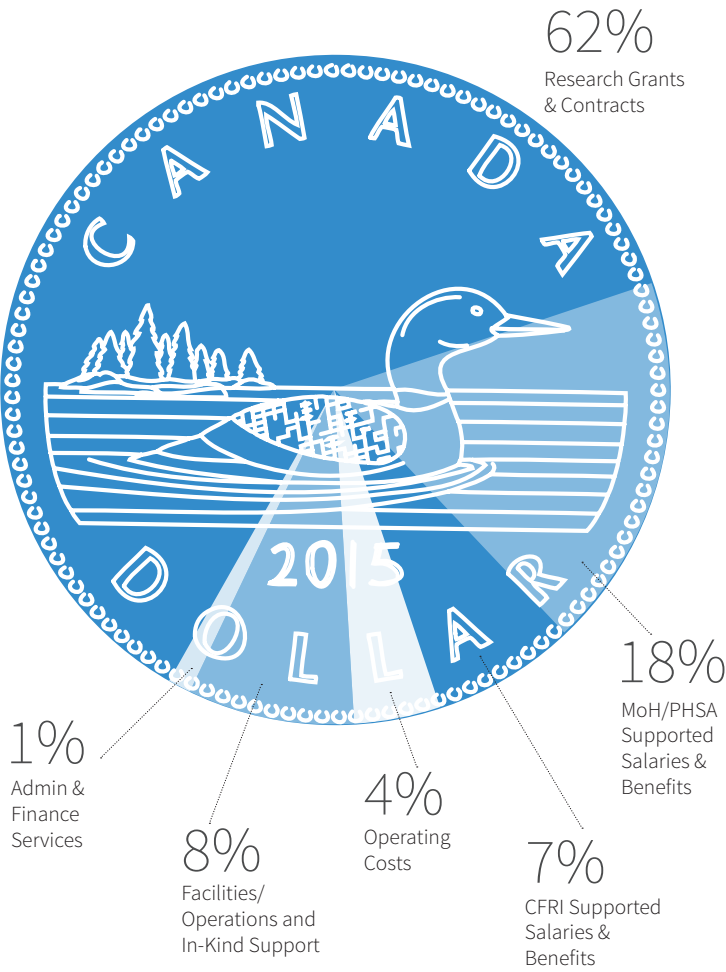


# REVENUES & EXPENDITURES

## Sources of Revenue



## Sources of Expenditure



## AWARDS, GRANTS, PUBLICATIONS & CONFERENCES: APRIL 1, 2015 - MARCH 31, 2016

### Research Awards & Grants

- » Amed, S., Brussoni, M. (Co-PI), et al. Child sized KT: Engaging children and families in research at BC Children's Hospital. Canadian Institute of Health Research. (2015-2016)
- » Babul, S. Concussion Awareness and Management in British Columbia. LIFT Philanthropy Partners. (2013-2015)
- » Babul, S. Concussion Awareness Toolkit – Knowledge Translation. Child Health BC. (2015-2018)
- » Babul, S. Evaluating the effect of body-checking policy change in youth ice hockey players. University of Calgary. (2014-2016)
- » Babul, S., Concussion Awareness for School Professionals: Knowledge Translation. Vancouver Coastal Health Authority. (2015-2016)
- » Babul, S., Evaluation of the Concussion Awareness Training Toolkit for School Professionals, CFRI Seed Grant. (2015-2016)
- » Brubacher, J. & Pike, I. (Co-I) Evaluations of Traffic Safety Interventions in BC. Canadian Institutes of Health Research. (2011-2015)
- » Brussoni, M. & Herrington, S. Risky play meets nature play: The influence of school based outdoor play spaces and risky play on child development. UBC Hampton Fund. (2013- 2015)
- » Brussoni, M. Canadian Hospitals Injury Reporting and Prevention Program – BC Site. Public Health Agency of Canada. (2014-2015)
- » Brussoni, M. Canadian Hospitals Injury Reporting and Prevention Program – BC Site. Public Health Agency of Canada. (2015-2016)
- » Brussoni, M. Predictors of health related quality of life in injured children. Child and Family Research Institute. (2014-2015)
- » Brussoni, M. Salary Award. Child & Family Research Institute. (2013-2018)
- » Brussoni, M. Scholar Award. Michael Smith Foundation for Health Research. (2009-2015)
- » Brussoni, M., Masse, L., Pike, I., et al. Go play outside! Reframing risk to promote children's outdoor play. Lawson Foundation. (2015 – 2016)
- » Brussoni, M., Olsen, L. Sub-Project of CIHR Team in Child and Youth Injury Prevention: Child and Youth Burden of Injury. Canadian Institutes of Health Research. (2010-2015)
- » Brussoni, M., Pike, I., Creighton, C., La Freniere, K., Pickett, W., Schuurman, N., Turner, H. Letter of Intent: Why do boys get hurt more? Masculinity and risk taking in the outdoors. (2014-2015)
- » Brussoni, M., Pike, I., et al. The state of play: socio-ecological perspective on children's outdoor play. CIHR: Operating grant. (2015-2020)
- » Emery, C., Babul, S., Hagel, B., Schneider, K., Mrazik, M., Brooks, B., Prospective evaluation of body checking policy change on the risk of concussion and injury in non-elite youth ice hockey players. CIHR. (2012-2015)
- » Emery, C., Babul, S., (Co-I) Meeuwisse, Scott, S., et al. Safe to Play: A Longitudinal Research Program to Establish Best Practice in the Prevention, Early Diagnosis and Management of Sport-Related Concussion in Youth Ice Hockey Players. Canadian Institutes of Health Research. (2013-2018)
- » Emery, C., Hagel, B., Babul, S., Pike, I., (Co-I) et al. Alberta Program in Youth Sport and Recreational Injury Prevention. Collaborative Research and Innovative Opportunities. (2013-2018)
- » Emery, C., Hagel, B., Babul, S., Pike, I., et al. Collaborative Research & Innovative Opportunities (CRIO), Alberta Program in Youth Sport and Recreational Injury Prevention. CRIO. (2013-2018)
- » Howard, A., Pike, I., Altenhof, B., Snowdon, A., Shrumm, M., Fatal Child Injuries in Real World Crashes. AUTO21 Network Centres of Excellence. (2012-2015)
- » Hutchison, J., Turgeon, A., Emery, C., Babul, S., et al. Canadian Traumatic Brain Injury Research Consortium. CIHR. (2015-2019)
- » Macpherson, A., Pike, I., Bridging the gaps between evidence, policy, and injury prevention. CIHR. (2013-2016)
- » Macpherson, A., Pike, I., Babul, S., Brussoni, M., Emery, C., et al. CIHR Team in Child and Youth Injury Prevention: Strategic Teams in Applied Injury Research. CIHR. (2010-2015)
- » Macpherson, A., Pike, I., Ezzat, A., Fridman, L., et al. Supporting collaborative activities through the Canadian Injury Prevention Trainee Network (CIPTN) to promote injury prevention education. CIHR. (2016)
- » Panenka, W., Babul, S., Mindful Brain Yoga – a pilot study of yoga for brain injury. Vancouver Foundation. (2016)
- » Pike, I. BC Shaken Baby Syndrome Prevention Program (aka PURPLE). BC Ministry of Children & Family Development. (2015-2016)
- » Pike, I. Developmental evaluation of the process of creating and implementing the Parachute solutions hub. Parachute. (2014-2019)
- » Pike, I., Babul, S. & Scott, V. BC Injury Research and Prevention Unit. Provincial Health Services Authority. (2010-2015)
- » Pike, I., Babul, S., BC Injury Research & Prevention Unit, PHSA. (2015-2016)

- » Pike, I., La Freniere, K. & Chin, C. A strategic alliance for the prevention of injuries through social marketing. The Community Against Preventable Injuries. (2014-2019)
- » Pike, I., Logan, L., & Fuselli, P. A strategic alliance for the prevention of injuries in Canada. Parachute. (2014-2019)
- » Pike, I., Macpherson, A., Brussoni, M., Babul, S., LaFreniere, K., et al. Child and Youth Injury Prevention. CIHR: Foundation on Program Grants. (2015-2022)
- » Pike, I., Piedt, S., Turcotte, K. & Barnett, B. Injury Prevention Case Book. Provincial Health Services Authority. (2014-2016)
- » Silverberg, N., Babul, S., Pannenko, W., Korn, P., Iverson, G., et al. Rest after concussion: Translating knowledge to practice. Vancouver Coastal Health Research Innovation Grant. (2016-2018)
- » Warda, L., Pike, I., Macpherson, A., Pankratz, C., et al. Are Booster Seat and Bicycle Helmet Legislation Keeping Manitoba's Children Safe? Canadian Institute of Health Research. (2014-2016)

## Journal Articles

- » Amram O, Schuurman N, Pike I, Yanchar N, Friger M, McBeth P, Griesdale D. (2015). Socio Economic status and traumatic brain injury amongst pediatric populations: a spatial analysis in Greater Vancouver. International Journal of Environmental Research and Public Health, 12(12):15594-15604. DOI:10.3390/ijerph121215009. [CA]
- » Amram O, Schuurman N, Yanchar N, Pike I, Friger M, Griesdale D. (2015). Use of Geographic Information Systems to Assess the Error Associated with the Use of Place of Residence in Injury Research. Injury Epidemiology, 2:29. DOI 10.1186/s40621-015-0059-y [CA]
- » Babul S. (2015). Addressing the Need for Standardized Concussion Care in Canada: Concussion Awareness Training Tool (CATT) – [www.cattonline.com](http://www.cattonline.com). Canadian Family Physician, August 2015.
- » Brubacher J, Desapriya E, Chan H, Ranatunga Y, Harjee R, Erdelyi S, Asbridge M, Purssell R, Pike I. Media reporting of traffic legislation changes in British Columbia – 2010. (2015). Accident Analysis & Prevention, Vol. 82: 227–233. [CA]
- » Christie N, Pike I. (2015). Is it safe in numbers? Injury Prevention, 21:276–277. DOI:10.1136/injuryprev-2015-041687. [CA]
- » Creighton G, Brussoni M, Oliffe J, Olsen L. "It's Good for the Kids" Fathers Consider Risk and Protection in Their Own and Their Children's Lives. Journal of Family Issues. 2015 Apr 28;0192513X15584679.

- » George, M. A., Jin, A., Brussoni, M., & Lalonde, C. (2015). Injury inequalities: Is the gap closing between Aboriginal and the general population in British Columbia? Health Reports, 26(1), 3-13.
- » Macpherson AK, Brussoni M, Fuselli P, Middaugh-Bonney T, Piedt S, Pike I. (2015). An evaluation of evidence-based paediatric injury prevention policies across Canada. BMC Public Health, 15:707. DOI: 10.1186/s12889-015-1986-9. [PI] [SA]
- » Mrazik M, Dennison C, Brooks B, Yeates K, Babul S, Naidu D. (2015). A qualitative review of sports concussion education: prime time for evidence-based knowledge translation. Br J Sports Med doi:10.1136/bjsports-2015-094848
- » Olsen, L. L., Oliffe, J. L., Brussoni, M., & Creighton, G. (2015). Fathers' views on their financial situations, father-child activities, and preventing child injuries. American Journal of Men's Health, 9(1), 15-25. doi: 10.1177/1557988313515699 (Citations = 1)
- » Pan SW, Hsu C-T, Brussoni M, Pike I. (2015). Indigenous ethnicity as a social determinant of exposure to riskier modes of transport: a survey study in Taiwan. Journal of Transport & Health, 2(4): 595-601. doi:10.1016/j.jth.2015.09.003 [CA]
- » Pike I, Piedt S, Davison C, Russell K, Macpherson AK, Pickett W. (2015). Youth injury prevention in Canada: use of the Delphi method to develop recommendations. BMC Public Health 12/2015; 15(1). DOI:10.1186/s12889-015-2600-x [PI] [FA]
- » Russell K, Davison C, King N, Pike I, Pickett W. (2015). Understanding clusters of risk factors across different physical contexts for the prediction of injuries among Canadian youth. Injury, 11.030. DOI:10.1016/j. [CA]
- » Smith J, Bobovski S, Ishikawa T, Rajabali F, Pike I. (2016). Fatal Injuries in Real World Crashes: Regional Patterns in Youth Driver and Motorcyclist Collision Deaths in British Columbia, 2004-2012. BC Medical Journal. 58 (1): 12-18. [PI] [SA]

## Technical Reports

- » Goulet C, Babul S. The Burden of Sport & Recreational Injuries. Canadian Injury Prevention Resource: An evidence-informed guide to injury prevention in Canada. September 2015, v. 1.0, pp 475-486.
- » Piedt S, Rajabali F, Turcotte K, Barnett B, Pike I. (2015). The BC Casebook for Injury Prevention. A report prepared by the BC Injury Research and Prevention Unit for Provincial Health Services Authority. BC Injury Research and Prevention Unit. Vancouver, BC.

- » Rajabali F, Ibrahimova A, Barnett B, Pike I. (2015). Economic Burden of Injury in British Columbia. A report prepared by the BC Injury Research and Prevention Unit for the BC Ministry of Health and Provincial Health Services Authority BC Injury Research and Prevention Unit. Vancouver, BC.
- » Schneider K, Emery C, Babul S. Brain Injuries. Canadian Injury Prevention Textbook: An evidence-informed guide to injury prevention in Canada. September 2015, v. 1.0, pp 445-454.

## Conference/Symposium Proceedings

- » Babul S, Pike I, Turcotte K. The Online Concussion Awareness Training Tool. 12th World Conference on Injury Prevention and Safety Promotion, Safety 2016. Tampere, Finland. September 18-21, 2016. (Submitted)
- » Babul S. Preventing Adverse Concussion Outcomes: The Importance of Knowledge (CATT). Canadian Association of Emergency Physicians 2015 Conference. Edmonton AB, May 30 – June 3, 2015.
- » Babul S. Standardized Concussion Care: The online Concussion Awareness Training Tool (CATT). European Pubic Health Conference, Milan, Italy. October 14-17th, 2015.
- » Babul S. The Need for Standardized Concussion Care: The online Concussion Awareness Training Tool (CATT). 12th Australasian Injury Prevention and Safety Promotion Conference. University of Sydney, Australia. November 25-27, 2015.
- » Babul, S. Australasian Injury Prevention and Safety Promotion Conference, Sydney, Australia. November 25-27th, 2015. (oral presentation).
- » Babul, S. European Pubic Health Conference, Milan, Italy. October 14-17th, 2015. (poster presentation)
- » Babul, S. Invited guest, One Voice: The 1st International Symposium on Pediatric Concussion. Toronto, ON. June 3-4, 2015.
- » Babul, S. Traumatic Brain Injury Conference, Toronto, ON. January 29, 2016. (oral presentation)
- » Babul, S. Trauma Association of Canada 2015 Conference. Calgary, AB. April 9-10, 2015. (oral presentation)
- » Black A, Babul S, Nettel-Aguire A, Emery C. Parent and Player Concussion Knowledge and Facilitators of Proper Management in Youth Hockey. 12th World Conference on Injury Prevention and Safety Promotion, Safety 2016. Tampere, Finland. September 18-21, 2016. (Submitted)
- » Brunelle, S., Ishikawa, T., Wong, C., Herrington, S., & Brussoni, M. (2015, May). Risky play meets nature play: The influence of natural outdoor play spaces and risky play on child development. Paper accepted for presentation at the Canadian Public Health Association Conference, Vancouver, BC.
- » Ishikawa, T., Brunelle, S., Wong, C., Herrington, S., & Brussoni, M. (2015, May). Children's nature-based risky play: Influencing physical and mental health through natural outdoor play spaces and risky play. Paper accepted for presentation at the Canadian Public Health Association Conference, Vancouver, BC.
- » MacDougall F, Turcotte K, Verchere C, Babul S. Outcome Evaluation of the Too Hot for Tots! Early Childhood Burn Prevention Program. Canadian Burn Symposium. Toronto, ON. May 25-26, 2015.
- » Macpherson A, Rothman L, Fuselli P, Belton K, Olsen L, Pike I. (2015). Barriers and enablers to enacting injury prevention legislation in Canada. In Proceedings of the European Public Health Conference, Milan, IT. Oct 14-17, 2015.
- » Pike I, Khalil M, Yanchar N, Tamim M, Nathens A, Macpherson A. (2015). Establishing an injury indicator for severe pediatric injury. In Proceedings of the 12th Australasian Injury Prevention and Safety Promotion Conference, Sydney, AU. Nov 25-27, 2015.
- » Pike I, Khalil M, Yanchar N, Tamim M, Nathens A, Macpherson A. (2015). Establishing an injury indicator for severe pediatric injury. In Proceedings of the European Public Health Conference, Milan, IT. Oct 14-17, 2015.
- » Pike I, Lafreniere K. (2015). Social marketing to reduce preventable injuries in BC, Canada. In Proceedings of the 12th Australasian Injury Prevention and Safety Promotion Conference, Sydney, AU. Nov 25-27, 2015.
- » Pike I, Lafreniere K. (2015). Social marketing to reduce preventable injuries in BC, Canada. In Proceedings of the European Public Health Conference, Milan, IT. Oct 14-17, 2015.
- » Pike I. (2015). Preventable: Social Marketing to Prevent Motor Vehicle Deaths and Injury. In Proceedings of the Atlantic Collaborative on Injury Prevention (ACIP) Annual Conference, Halifax, NS. Jun 8-10, 2015.
- » Pike I. (2015). Preventable: Social Marketing to Prevent Motor Vehicle Deaths and Injury. In Proceedings of the AUTO21 Annual Conference. Ottawa, ON. May 25-27, 2015.
- » Pike I. (2015). Preventable: Social Marketing to Prevent Motor Vehicle Deaths and Injury. In Proceedings of the Canadian Association of Road Safety Professionals (CARSP) Annual Conference. Ottawa, ON. May 28-29, 2015.
- » Pike I. (2015). The Canadian Child and Youth Injury Dashboard and Atlas. In Proceedings of the Atlantic Collaborative on Injury Prevention (ACIP) Annual Conference, Halifax, NS. Jun 8-10, 2015.

- » Pike I. Workshop Co-Chair: Canadian Injury Prevention Curriculum Revisions Workshop. Edmonton, AB. July 22-23, 2015.
- » Richmond S, Pike I, Williams D, Huyer D, Lapointe L, Macarthur C, Howard A. (2016). Preventing motor vehicle-related fatalities: a collaborative project to enhance coronial data capture and use. In Proceedings of the 2016 Canadian Association of Road Safety Professionals (CARSP) Conference, Halifax, NS. June 5-8, 2016.

## Invited Presentations

- » Babul S. Concussion Knowledge and Facilitators of Proper Management of Concussions. Delta: Division of Family Practice. Delta, BC. February 4, 2016.
- » Babul S. Concussion Knowledge and Facilitators of Proper Management of Concussions. Mt. St. Josephs: Division of Family Practice. Vancouver, BC. December 1, 2015.
- » Babul S. Concussion: An Invisible Epidemic and Need for Education & Awareness. BC Hockey, Webex presentation, Vancouver, BC. November 9, 2015.
- » Babul S. Concussion: An Invisible Epidemic and Need for the Standardization of Care! Child & Adolescent Psychiatry Program, BC Children's Hospital. Academic Lecture Series. Vancouver, BC. September 21, 2015.
- » Babul S. Concussion: An Invisible Epidemic and Need for the Standardization of Care! Clinical Pediatrics, Family & Emergency Medicine. Vancouver, BC. September 18, 2015.
- » Babul S. Concussion: An Invisible Epidemic and Need for the Standardization of Care! Interior Health – Public Health Rounds. Via Webex, Kelowna, BC. September 24, 2015.
- » Babul S. Concussion: An Invisible Epidemic and Need for the Standardization of Care! Sports Medicine BC, University of Fraser Valley, Abbotsford, BC. October 21, 2015.
- » Babul S. Concussion: The Invisible Epidemic of Concussions: What we need to do! BC Injury Research and Prevention Unit webinar series. Vancouver BC. May 21, 2015.
- » Babul S. Concussions and the Importance of Immediate Recognition & Management. BC Minor Hockey Committee (via Webex). Vancouver, BC. February 19, 2016.
- » Babul S. Concussions and their Impact: what are we doing. Canadian Public Health Association Public Health 2015 Conference. Vancouver BC. May 25-28, 2015.
- » Babul S. Concussions in BC: an invisible epidemic. Dave Battison Sports Medicine Symposium. My Washington Resort, Campbell Valley. June 13, 2015.
- » Babul S. Concussions: What we know. CFRI Summer Student Research Program presentation. Vancouver, BC. July 23, 2015.
- » Babul S. Injury Prevention Jeopardy. Child & Family Research Institute: Research Day. BC Children's Hospital. Vancouver, BC. March 7, 2016.
- » Babul S. Introducing the CATT, Concussion Awareness Training Tool. Alberta Injury Prevention Center. Calgary AB (via Webex). February 2, 2016
- » Babul S. Parent and Player Concussion Knowledge and Facilitators of Proper Management in Youth Hockey. Delta Division of Family Practice. Tswawwassen, Delta, BC. October 29, 2015.
- » Babul S. Preventing Adverse Concussion Outcomes in BC: The Concussion Awareness Training Toolkit. Trauma Association of Canada – Interdisciplinary Trauma Network of Canada. Calgary, Alberta. April 9, 2015.
- » Babul S. Preventing Adverse Concussion Outcomes in BC: What Parents and Coaches Need to Understand. Trauma Association of Canada. Calgary, Alberta. April 10, 2015.
- » Babul S. Preventing Adverse Concussion Outcomes: The Importance of Knowledge (CATT). Canadian Association of Emergency Physicians 2015 Conference. Edmonton AB. May 30–June 3, 2015.
- » Babul S. Teaching – Concussion: An Invisible Epidemic and Need for the Standardization of Care! Doctor, Patient and Society 420 Course. Vancouver, BC. August 24, 2015.
- » Babul S. The Need to Standardize Concussion Knowledge for Patient Care. Fraser Health Trauma Education Day. Abbotsford BC. February 26, 2016.
- » Babul S. The Need to Standardize Concussion Knowledge. Richmond Girls Soccer Academy. Richmond BC. February 1, 2016.
- » Babul S. The Need to Standardize Concussion Knowledge. Traumatic Brain Injury Conference. Toronto, ON. January 29, 2016.
- » Babul S. What do we know about sports concussion? Concussion panel, UBC School of Hard Knocks, Vancouver BC. June 11, 2015.
- » Babul, S. Concussion: An Invisible Epidemic. Pushor Mitchell Brain Injury Conference. Kelowna BC, May 8, 2015
- » Babul, S. Preventing Adverse Concussion Outcomes: CATT. ThinkFirst National Conference on Injury Prevention. Washington, DC. May 2, 2015.

- » Babul, S. The Invisible Epidemic of Concussion – A growing concern. BrainTrust BC meeting. Vernon BC, May 14, 2015
- » Brussoni, M. (2015, October). “If they never take risks, they won’t develop”: Fathers perspectives on child injury prevention. Saskatchewan Prevention Matters Conference, Saskatoon, SK.
- » Brussoni, M. (2015, October). Promoting nature-based risky play. Saskatchewan Prevention Matters Conference, Saskatoon, SK.
- » Brussoni, M., & Herrington, S. (2015, June). Risky play meets nature play: The influence of outdoor play spaces and risky play on child development. Westcoast Child Care Resource Centre Workshop, Vancouver, BC.
- » Brussoni, M., & Turner, H. (2015, May). Unwrapping bubble-wrapped recreation. BC Parks and Recreation Association Symposium, Victoria, BC.
- » Pike I, Macpherson A. The CIHR Team in Child and Youth Injury Prevention: Results, Impacts and Outcomes. Alberta Centre for Child, Family and Community Health Research AGM and Board Meetings. Edmonton, AB. Sep 25, 2015.
- » Pike I, Brussoni, M. Popping the Bubble-wrap: Risky Play for Children. Atlantic Collaborative on Injury Prevention Annual Conference, Halifax, NS. Jun 8-10, 2015.
- » Pike I, Brussoni, M. Risky Play and Injury Prevention: A Balancing Act. Alberta Injury Prevention Centre. Edmonton, AB. Nov 17, 2015.
- » Pike I, Lafreniere K. The Case for The Community Against Preventable Injuries, aka “Preventable” in Atlantic Canada. The Atlantic Collaborative for Injury Prevention, Board of Directors. Nov 10, 2015.
- » Pike I, Lafreniere K. The Case for The Community Against Preventable Injuries, aka “Preventable”. The Workers Compensations Boards of Canada, Communication Directors Forum. Nov 18, 2015.
- » Pike I, Lafreniere K. The Case for The Community Against Preventable Injuries, aka “Preventable” at Hydro One. Hydro One Safety Directors. Dec 8, 2015.
- » Pike I, Macpherson, A and McDonald RJ. Akwasasne Project: Child and Youth School-Based Injury Surveillance System Report. Presentation to Akwasasne Mohawk Board of Education. Akwasasne Mohawk Territory, ON. May 27, 2015.
- » Pike I. BC Injury Prevention Casebook: The Case for Injury Prevention. BC Injury Research and Prevention Unit Webinar Series. Vancouver, BC. Nov 10, 2015.
- » Pike I. Cost of Injury in Canada Report Release Expert Panel. Economic Club of Canada, Toronto, ON. Jun 3, 2015.
- » Pike I. Brussoni M. Keynote Presentation, Risky Play: Popping the Bubble-wrap: for Child Health. Peekaboo Beans Playground seminar. Richmond, BC. Oct 8, 2015.
- » Pike I. Brussoni M. Keynote Presentation, Unwrapping Bubble-wrapped Kids. North Shore Schools/Queen Mary Community School. North Vancouver, BC. Feb 3, 2016.
- » Pike I. Keynote Presentation, Brain Development and the Advantages of Risky Play. Alberta Centre for Child, Family and Community Health Research, Symposium Series. Edmonton, AB. Oct 5, 2015.
- » Pike I. Keynote Presentation, Preventable: A Social Marketing Response to Serious Injury in Atlantic Canada. The Atlantic Collaborative for Injury Prevention Meeting. Halifax, NS. Feb 18, 2016.
- » Pike I. Keynote Presentation. Preventable: A Social Marketing Response to a Provincial Epidemic. Presentation to North American Occupational Safety and Health (NAOSH) Week. Burnaby, BC. May 4, 2015.
- » Pike I. Preventable: A Social Marketing Response to a Provincial Epidemic. Presentation to Alberta Youth Sport and Recreation Injury Prevention Team, Annual Meeting. Calgary AB. May 21-22, 2015.
- » Pike I. Preventable: A Social Marketing Response to Serious Injury in Canada. Parachute/PetroCanada, Journey to MaRS. Toronto, ON. Feb 25, 2016.
- » Pike I. The Case for The Community Against Preventable Injuries, aka “Preventable” at the City of Vancouver. The City of Vancouver Safety Directors and Committees Meeting. Dec 9, 2015.
- » Pike I. The State of Outdoor Play in Canada. The Lawson Foundation, Outdoor Play Strategy Meeting. Mississauga, ON. Feb 9-11, 2016.

## Workshops

- » Invited Participant and MC: Popping the Bubble Wrap and Reclaiming Risky Play. Burnaby, BC. May 5, 2015.
- » Invited Participant: PHSA Research Plan Consultation: Think Tank. PHSA. Vancouver, BC. Jul 8, 2015.



## OTHER CONTRIBUTIONS

### Dr. Ian Pike

- » Academic Review Panel Member, UBC Faculty of Landscape Architecture, LARC 502, Studio Review: redesign of Chief Mathias Joe Park in North Vancouver, LARC Annex Jury Room, UBC
- » Advisor, Healthy Peoples and Communities Steering Committee, F/P/T Injury Prevention “Dashboard” Task Group
- » Chair, Expert Advisory (Scientific) Committee. Parachute Canada
- » Chair, Scientific and Knowledge Translation Advisory Board. Alberta Program in Youth Sport & Recreational Injury Prevention
- » Co-Executive Director, The Community Against Preventable Injuries
- » Director, BC Shaken Baby Syndrome – Intentional Injury Prevention Program
- » Fellow, International Society for Child and Adolescent Injury Prevention
- » Invited Member, OECD Expert Advisory Group for the Global Injury Data Project
- » Media Spokesperson, The Community Against Preventable Injuries
- » Member and Co-Editor, Canadian Injury Textbook Committee
- » Member of the Board, BCAA Road Safety Foundation
- » Member, BC Child & Youth Health and Well-Being Indicators Project, Advisory Committee
- » Member, BC Concussion Action Network (BC CAN)
- » Member, BC Injury Prevention Leadership Action Network
- » Member, BC Injury Prevention Policy Advisory Committee
- » Member, BC Population and Public Health Surveillance Steering Committee
- » Member, Canadian Agricultural Injury Reporting Expert Committee
- » Member, Canadian Collaborating Centres on Injury Prevention and Control
- » Member, Canadian Injury Prevention and Control Curriculum - Revisions Committee
- » Member, Canadian Red Cross, BC Detention Monitoring Team
- » Member, Child Death Review Panel, BC Coroner’s Service
- » Member, Economic Burden of Injury in Canada, Advisory Committee
- » Member, Executive Steering Committee, Road Safety BC Strategy
- » Member, Health and Well-being of Aboriginal Women in British Columbia – A Lifespan Approach, Advisory Committee
- » Member, International Collaborative Effort on Injury Statistics (ICES)

- » Member, Multidisciplinary Team, BC Representative for Children and Youth
- » Member, Provincial Health Services Authority, BC Trauma Injury Surveillance Working Group
- » Member, Provincial Health Services Authority, Centre for Children and Youth
- » Member, Provincial Health Services Authority, Centres for Aboriginal Health
- » Member, Provincial Health Services Authority, Population and Public Health, Advisory Committee
- » Member, Provincial Health Services Authority, Wellness Model Working Group
- » Member, Research Leadership Council, Child and Family Research Institute
- » Research Theme Lead, Evidence to Innovation (E2i). CFRI

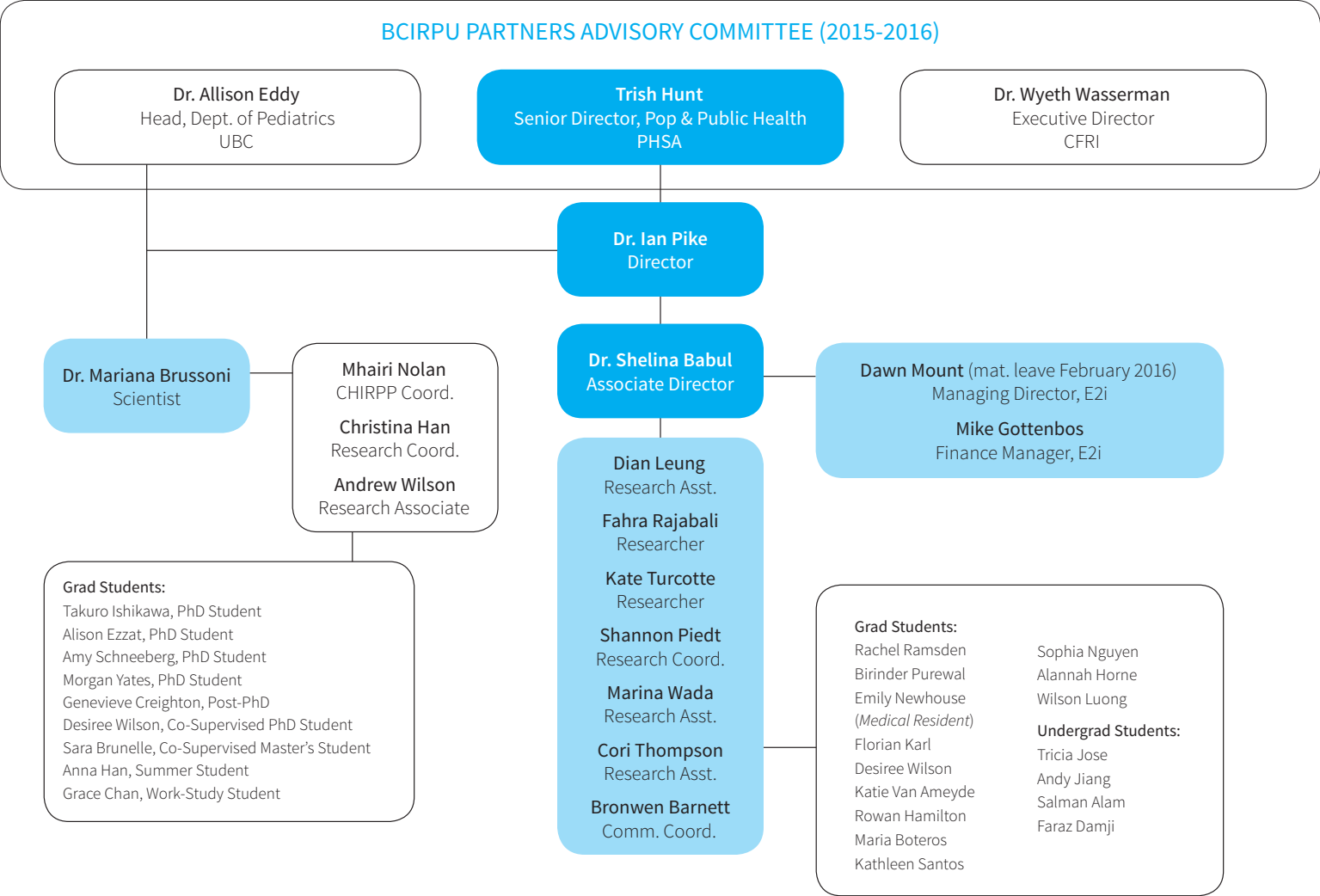
### Dr. Shelina Babul

- » Chair, BC Concussion Advisory Network (BC CAN)
- » Co-Chair, BC Sport & Recreation Injury Prevention Advisory Committee
- » Concussion Awareness Training Tool (CATT)
- » Director, ThinkFirst BC
- » Media Spokesperson, The Community Against Preventable Injuries (Preventable)
- » Member, American College of Sports Medicine
- » Member, BC Advisory, Canadian Standards Association
- » Member, BC Hockey Safety and Risk Management Committee
- » Member, BC Injury Prevention Alliance
- » Member, BC Injury Prevention and Leadership Action Network (now BCIPA)
- » Member, Canadian Academy of Sport & Exercise Medicine
- » Member, Canadian Collaborating Centres on Injury Prevention and Control
- » Member, Concussion Advisory Group, Child Health BC
- » Member, Fraser Health Concussion Resource Network
- » Member, Interdisciplinary Trauma Network of Canada
- » Member, Parachute National Concussion Awareness and Education Committee (Chair: Dr. Charles Tator)
- » Member, Provincial Health Services Authority, Health Equity Indicators
- » Member, Provincial Health Services Authority, Population and Public Health

## **Dr. Mariana Brussoni**

- » Board Member, Child & Nature Alliance of Canada
- » Editorial Board Member, Injury Epidemiology
- » Member Scholar, International Institute for Qualitative Methodology
- » Member, BCCH Clinical & Community Data, Analytics & Informatics Group
- » Member, BCCH Evidence to Innovation Theme
- » Member, Canadian Public Health Association
- » Member, Changing Behaviours: Knowledge Discovery to Translation Group
- » Member, Child & Family Research Institute Scholars of Excellence Advisory Group
- » Member, Child and Family Research Institute Clinical Research Council
- » Member, Community Child Health Endowment Advisory Committee
- » Member, Developmental Neurosciences & Child Health Advisory Committee
- » Member, International Society for Child and Adolescent Injury Prevention (ISCAIP), Conference Organising Committee
- » Member, Public Health Association of BC
- » Member, Reference Group on Renewal of Provincial Women's Health Strategy
- » Member, UBC Department of Pediatrics Appointments, Reappointments, Promotion and Tenures Committee
- » Member, UBC Department of Pediatrics Merit Review Committee
- » Member, UBC Department of Pediatrics Strategic Planning Advisory Group
- » Member, UBC SPPH Recognition, Communications and Culture Committee
- » Team Lead, UBC School of Population and Public Health Strategic Plan

# ORGANIZATIONAL STRUCTURE





F508 - 4480 Oak Street  
Vancouver, BC Canada V6H 3V4

Phone: 604-875-3776  
Fax: 604-875-3569

[www.injuryresearch.bc.ca](http://www.injuryresearch.bc.ca)